

PRB Monitoring Report 2020

Annex IV – Investments Report

The 2020 monitoring consists of five reports:

1. PRB Monitoring Report 2020
2. Annex I – Member States' factsheets
3. Annex II – Member States' detailed analysis for experts
4. Annex III – Safety Report
5. **Annex IV – Investments Report**

October 2021

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1 INTRODUCTION

1.1 Background

- 1 The PRB Monitoring Report 2020 examines the performance of air navigation services (ANS) in Member States of the Single European Sky (SES). The SES area comprises EU Member States, Norway, and Switzerland. The report examines the performance in 2020, the first year of the third reference period (RP3) which runs until 2024.
- 2 The PRB Monitoring Report 2020 is supported by four Annexes which analyse performance in detail:
 - Annex I – Member States' factsheets
 - Annex II – Member States' detailed analysis for experts
 - Annex III – Safety Report
 - Annex IV – Investments Report (this document).
- 3 This "Annex IV – Investments Report" monitors the ANS costs related to en route and terminal investments at Union-wide and air navigation service provider (ANSP) levels, as established in article 3(j) of Regulation (EU) 2019/317.¹ The report also consolidates the available evidence of Union funding of investments, including in the SES air traffic management (ATM) research and development (SESAR) project.
- 4 The focus of this report is on monitoring the 2020 actual costs related to new major, other new, and existing investments against those included in the 2019 draft performance plans. Moreover, the report also summarises other relevant information that Member States provided by 1st June 2021 as per Annex II of Regulation (EU) 2019/317:
 - The RP3 capital expenditure (CAPEX), included in the 2019 draft performance plans;
 - The additional RP3 CAPEX, not initially included in the 2019 draft performance plans;
 - The 2020 actual costs related to investments (depreciation costs, cost of capital, and leasing costs) compared to the costs included in the 2019 draft performance plans;²
- The four main types of new major investments: i) air traffic management (ATM) systems; ii) communications, navigation, and surveillance (CNS) systems; iii) infrastructure; and iv) other;
- The expected benefits and justification of new major investments with respect to the European ATM Master Plan and the common projects;³
 - Cross border/ cross sectoral cooperation;
 - The public funding received by ANSPs in 2020.
- 5 This report is organised as follows. The remainder of Section 1 describes the methodological changes compared to previous reports, as well as the data sources and the report limitations. Section 2 analyses new CAPEX, costs related to investments, benefits, and funding at Union-wide level, while Section 3 provides the analysis at main ANSP level. Section 4 concludes on the Union-wide performance of cost-efficiency related to investments in 2020. Section 5 provides detailed factsheets by main ANSP per Member State including data on new RP3 CAPEX, actual versus planned costs related to investments, details on individual new major investments, expected benefits of new major investments, and public funding.

1.2 Methodology changes compared to previous reports

- 6 The methodology of this report has four changes compared to previous reports. First, this report replaced its title from "CAPEX" to "Investments" because the reported data in RP3 does no longer include annual determined and actual CAPEX values. For this reason, in relation to CAPEX, this report shows the total planned new CAPEX over the entire RP3. Instead of CAPEX, this report focuses on the annual performance of costs related to new and existing investments, namely depreciation costs, cost of capital, and leasing costs.
- 7 Secondly, this report compares actual costs in 2020 against the planned costs included for the

¹ Commission Implementing Regulation (EU) 2019/317 of 11 February 2019 laying down a performance and charging scheme in the single European sky and repealing Implementing Regulations (EU) No 390/2013 and (EU) No 391/2013.

² This report examines the cost of capital of fixed assets whereas Annexes I and II examine the total cost of capital (fixed and current assets).

³ Article 15a of Regulation (EC) No 550/2004 of the European Parliament and of the Council of 10 March 2004 on the provision of air navigation services in the single European sky (the service provision Regulation).

same year in the 2019 draft performance plans. This is different from previous reports because the 2019 draft performance plans remain unapproved by the European Commission and are currently under revision. In contrast, previous reports were able to compare actual costs with determined costs in approved plans.

- 8 The 2019 draft performance plans were submitted by Member States in October 2019. In early 2020, the European Commission found that most of those plans were inconsistent with the cost-efficiency criteria. Due to the outbreak of the COVID-19 pandemic, the Commission did not adopt its draft decision on the (in)consistency of the plans. Instead, in November 2020 the Commission adopted exceptional measures to address the impact of the pandemic on the performance and charging scheme (Regulation (EU) 2020/1627).⁴ This fundamental change in circumstances has delayed the development and approval of RP3 performance plans. As a result of the exceptional measures, Member States will submit revised draft performance plans in October 2021. The determined costs related to investments are subject to the approval by the European Commission and may differ from the planned costs currently included in the 2019 draft performance plans shown in this report.
 - 9 Moreover, as per articles 4 and 5(1) to (3) of the exceptional measures regulation, the combined years 2020 and 2021 are treated as a single period for the purpose of setting and evaluating the cost efficiency targets (determined costs). For this reason, the performance assessment in this report is partial and will be completed in the PRB Monitoring Report 2021.
 - 10 For Member States whose performance plans become approved in 2022, the PRB Monitoring Report 2021 will be able to examine the performance against approved targets for the combined years 2020 and 2021. In this context, the 2021 report will be able to identify the under-/over-spending against the determined costs of the combined years. The identified under-/over-spending is indicative of the amounts that could be reimbursed/collected by ANSPs through adjustments in the unit rates (in n+2 or in RP4) as per article 28(4) of Regulation (EU) 2019/317.
- Ultimately, the actual unit rate adjustments must be approved by the national supervisory authorities (NSAs) following their assessment of the justification provided by the ANSP and the consultation with airspace users. This report shows the under-/over-spending solely for 2020.
- 11 Finally, as per article 26 of Regulation (EU) 2019/317, the determined depreciation costs and cost of capital, where historical cost accounting is applied, are not subject to any inflation adjustment starting from RP3. The costs shown in this report are therefore nominal euros, however for consistency with the PRB Monitoring Report “€₂₀₁₇” will be written throughout this report. Differently, the reports in RP2 presented euro 2009 values (€₂₀₀₉) calculated based on the index inflation of base 100 in 2009.

1.3 Data sources

- 12 The main data sources of this report are the “2020 monitoring reports” and the “2020 reporting tables” submitted by Member States in June 2021, as required by Regulation (EU) 2019/317. When suitable, this report also refers to the planned costs included in the reporting tables submitted by Member States in October 2019, alongside the 2019 draft performance plans.

2020 monitoring reports

- 13 The 2020 monitoring reports contain the sum of planned costs related to investments for en route and terminal at ANSP level for 2020, as included in the 2019 draft performance plans. They also contain the actual costs of investments in 2020 as included in the 2019 draft performance plans together with any additional amounts (i.e. not initially included in the plans). The costs related to investments comprise depreciation costs, cost of capital, and leasing costs. The monitoring reports display these costs broken down into the following three categories according to the value of the investment and the reference period:
 - “New major investments”, which are the acquisition, development, replacement, upgrade or leasing of fixed assets representing a total value over the whole lifetime of the

⁴ Commission Implementing Regulation (EU) 2020/1627 of 3 November 2020 on exceptional measures for the third reference period (2020-2024) of the single European sky performance and charging scheme due to the COVID-19 pandemic.

assets greater than 5M€₂₀₁₇ in real terms starting in RP3;⁵

- “Other new investments”, which are short-term projects and/or activities whose total value over the whole lifetime of the assets do not exceed 5M€₂₀₁₇, also starting in RP3; and
- “Existing investments”, which commenced in the previous reference period(s) and still have depreciation, cost of capital, and leasing costs associated to them.⁶

14 In addition to the costs related to investments, the monitoring reports also contain the total RP3 CAPEX at ANSP level for “new major” and “other new” investments included in the 2019 draft performance plans and additional to the plan. As per Annex II of Regulation (EU) 2019/317, Member States also report the following information in relation to “new major” investments:

- total value of each major investment;
- the asset(s) acquired or developed; and
- information on the benefit of the investment for airspace users and on the results of the consultation of airspace users' representatives.

15 In relation to new major investments in ATM systems, Member States report:

- investments in new systems, overhaul of existing systems, and replacement investments; and
- the justification of the relevance of each investment with reference to the European ATM Master Plan, and the common projects referred to in article 15a of Regulation (EC) No 550/2004.

16 Finally, the 2020 monitoring reports and the 2019 draft performance plans provide the planned entry into operation (EIO) date for each investment.⁷ In some cases, the 2020 monitoring reports report different EIO dates than the 2019 draft performance plans due to prioritisation or

postponement of certain investments because of the COVID-19 crisis.

17 Malta did not submit (within the deadline in article 37 of Regulation (EU) 2019/317) its actual costs related to new and existing investments requested in the 2020 monitoring report.⁸ Where relevant, this report refers to the actual costs of investments per charging zone submitted by Malta in its reporting tables. In the absence of the actual cost data, disaggregated into new and existing investments, this report assumes that the costs included by Malta in its reporting tables correspond solely to existing investments. In its 2020 monitoring report, Malta noted the suspension of investments in 2020 as a result of the pandemic, and the PRB assumes that this suspension refers to new investments.

18 Finally, Austria noted in its monitoring report that its planned new major investments are groups of smaller projects that were presented as new major investments for additional transparency. However, Austria did not submit data on CAPEX or costs related to investments disaggregated into new (major and other) and existing investments.

2020 reporting tables

19 The 2020 reporting tables provide:

- actual costs related to investments in 2020 broken down by depreciation costs, cost of capital, and leasing costs per ANSP and en route/terminal charging zone in each Member State;
- actual Union funding received and reimbursed to users disaggregated by year and individual investments allocated to the charging zone;
- total revenues received from Union funding and their yearly reimbursement.

Data from the SESAR Deployment Manager

20 For monitoring purposes, the SESAR Deployment Manager (SDM) provides the PRB with data on the

⁵ These investments are also relevant and coherent with Commission Implementing Regulation (EU) 2021/116 of 1 February 2021 on the establishment of the Common Project One supporting the implementation of the European Air Traffic Management Master Plan provided for in Regulation (EC) No 550/2004 of the European Parliament and of the Council, amending Commission Implementing Regulation (EU) No 409/2013 and repealing Commission Implementing Regulation (EU) No 716/2014.

⁶ Germany and Switzerland subtract from the total costs of investments 12M€₂₀₁₇ and 11M€₂₀₁₇ which are not paid by airspace users. When analysing the investment costs per category, this report subtracts both amounts from the existing investments.

⁷ The EIO dates were formerly called Full Operational Capability (FOC) dates.

⁸ The missing information is being verified by the Commission with Malta. The verified information will be included in future reports that refer to the 2020 actual costs related to investments of Malta.

actual payments to ANSPs for projects in its scope. Specifically, SDM provided data on bank transfers related to the specific grant agreements with the European Climate, Infrastructure, and Environment Executive Agency (CINEA), formerly known as INEA.⁹

1.4 Report limitations

- 21 This report focuses on the performance of main ANSPs as they represent most of the costs.¹⁰ Consequently, the data of national supervisory authorities (NSAs), autonomous meteorological service providers, or “only terminal” ANSPs is not included. In general, the report does not consider the operational expenditure (OPEX) related to CAPEX investments since most Member States do not provide details. The exception is France, which included planned and actual OPEX related to CAPEX in its 2020 monitoring report.
- 22 The total actual and planned costs related to investments provided by Member States in monitoring reports and reporting tables should match. However, the amounts provided by some Member States do not match either due to missing data or different values. Moreover, the PRB did not use the planned costs in the “2020 reporting tables” submitted in June 2021, because most Member States changed the 2020 planned costs to be equal to the 2020 actual costs.
- 23 The PRB could not exactly reconcile the Union-wide sum of planned and actual costs for 2020 reported in the 2020 monitoring reports and in the

2019/2020 reporting tables (Table 1, next page). The discrepancies are caused by missing values in the 2019 reporting tables of a few Member States¹¹ and different costs related to investments reported by France and Italy.¹²

- 24 The transparency of received funding has improved with the reporting tables for RP3, where a specific section reports the payments received and reimbursed from 2014. However, this report cannot fully reconcile the data provided by the SESAR Deployment Manager (SDM) with the data provided by Member States in their reporting tables. The reason is that the data reported under the performance and charging scheme is not fully aligned with the data of SDM/CINEA and Union funding is not always transparently reported. Examples of the challenges to reconcile the Union funding data are the following:

- The actual SDM payments are not aligned annually with the data reported by Member States. The payments from SDM to ANSPs are not yearly and involve advance, interim, and final payments for a given project;
- Some Member States do not provide the fund declarations or references to the grant agreements that would facilitate the reconciliation;
- CINEA allocates the grants of the Connecting Europe Facility (CEF) according to eligible expenses. For this reason, adjustments of grants to be paid may take place over the duration of the project across different instalments.

⁹ The Innovation and Networks Executive Agency (INEA) ceased operations on 31 March 2021. CINEA was established on 1 April 2021 to take over INEA's legacy portfolio as well as additional EU funding programmes.

<https://ec.europa.eu/inea/en/welcome-to-innovation-networks-executive-agency>

¹⁰ For example, 97% of the total new CAPEX of all entities are attributable to main ANSPs.

¹¹ Some Member States did not report planned depreciation costs in line 3.10 “costs of new and existing investments” of the 2019 reporting tables. In this case, the PRB used the value reported in line 1.3 “depreciation costs” under costs by nature. Also, the planned cost of capital of fixed assets for Belgium, Bulgaria, Germany, and Italy were missing. This report filled in these values with the product of the cost of capital rate and the value of fixed assets (excluding adjustments). The cost of capital for terminal investments in Germany is negative (see Section 3.4).

¹² The French monitoring report included OPEX called “T3 Technic” in the total costs related to investments. This OPEX includes studies, project management, and expenses below 10K€₂₀₁₇. Due to French public accounting rules, “T3 Technic” costs cannot be included in the depreciation costs in the reporting tables and are registered in “other operating costs”. As a result, the 2020 planned costs of 323M€₂₀₁₇ in the monitoring reports (including “T3 Technic” costs) are 118M€₂₀₁₇ higher than the 205M€₂₀₁₇ submitted in the 2019 reporting tables. Italy reported 124M€₂₀₁₇ of planned costs related to investment in its monitoring report and 180M€₂₀₁₇ in its reporting tables. Italy did not explain the difference between the two sources (56M€₂₀₁₇). The same applies to the difference of 73 M€₂₀₁₇ in actual costs (78M€₂₀₁₇ vs 151M€₂₀₁₇).

Source	2020 planned costs (M€ ₂₀₁₇)	2020 actual costs (M€ ₂₀₁₇)
2020 monitoring reports	1,153	973
France difference	-118	-116
Italy difference	+56	+73
Remaining difference	-79	-31
2019 reporting tables	=1,012	n/a
2020 reporting tables	n/a	=900

Table 1 - Comparison of 2020 costs related to investments included in 2019 draft performance plans (source: PRB elaboration of 2020 monitoring reports and 2019/2020 reporting tables).

2 UNION-WIDE ANALYSIS

2.1 RP3 new major and other new investments (CAPEX)

- 25 The new RP3 CAPEX for en route and terminal included in the 2019 draft performance plans at Union-wide level amounts to 5.8B€₂₀₁₇ for main ANSPs and to 6B€₂₀₁₇ for all the entities. The latter is a 22% increase over the CAPEX planned for all the entities in RP2 (4.9B€₂₀₁₇). The new CAPEX for RP3 was planned in 2019 considering: (i) the ATFM delays in RP2; and (ii) the Union-wide traffic forecast over RP3 of 13% growth, which was expected before the outbreak of the COVID-19 pandemic. Out of the total new CAPEX planned for the main ANSPs, 4.1B€₂₀₁₇ (70%) are major investments, while 1.8B€₂₀₁₇ (30%) are other investments.
- 26 Only Germany, Poland, and Sweden reported additional new CAPEX, which was not initially included in the 2019 draft performance plans (0.9% of the initially planned Union-wide total). Poland and Sweden respectively reported 25M€₂₀₁₇ and 11M€₂₀₁₇ of additional CAPEX for new major investments, while Germany reported 3M€₂₀₁₇ for new CAPEX in other investments. Planned new CAPEX is still subject to change in the revised RP3 performance plans to be submitted by 1st October 2021.

2.2 2020 costs related to new and existing investments

- 27 The 2020 actual costs related to en route and terminal investments at Union-wide level amounted to 973M€₂₀₁₇. These actual costs are 16% lower than the costs included in the 2019 draft performance plans (1,153M€₂₀₁₇). The difference in actual versus planned costs varies among Member States, ranging between -62% for Latvia and +15% for Norway. Section 3 provides information on the performance per main ANSP in each Member State.
- 28 Table 2 (next page) shows the Union-wide planned and actual costs in 2020 by value of investments (excluding Austria).¹³ The total actual costs, which amount to 941M€₂₀₁₇, can be classified into: existing (75%), new major (18%), and other new investments (7%).
- 29 The actual costs of existing and new major investments, which are 93% of the total, dropped only by -12%. The available data breakdown does not allow for a detailed analysis of the cause of the reduction (depreciation vs. cost of capital) and the impact on the investment delivery timeline. However, for new major investments, Member States reported that 82% of them are mandated by Regulation (EU) 2021/116 on the Common Project One (CP1) (see section 2.5). Mandated new major investments may not easily be cancelled, postponed or changed in scope. The Regulation does not require Member States to report details on existing investments.
- 30 The actual costs of other new investments, 7% of the total investments, had the largest percentage reduction in 2020 compared to the draft plans (-48%). Similar to the major new and existing investments, there is not enough detailed data to assess the cause of the cost reduction. It is difficult to estimate any impact of this cost reduction, for example on capacity, due to the current historically low traffic levels and the fact that 2020 is the first year of the reference period.
- 31 The actual costs of new major investments in 2020 at Union-wide level is 164.8M€₂₀₁₇ (18% of the total costs of investments). These correspond to 162 new major investments of which:
- 160 were initially included in the 2019 draft performance plans (with actual costs equal to 164.8M€₂₀₁₇); and
 - two have been added to the 2019 draft performance plan of Poland (0.06M€₂₀₁₇).
- 32 While Sweden reported the total of its new CAPEX additional to the plan, it did not provide any details on the investment(s) comprised in that amount.

¹³ In its 2020 monitoring report, Austria did not provide a breakdown of investments by new major, other new, and existing.

Type of investment	2020 costs in 2019 draft performance plans (M€ ₂₀₁₇)	2020 actuals (M€ ₂₀₁₇)	Difference (M€ ₂₀₁₇)	Difference (%)
New major	196	165	-31	-16%
Other new	132	68	-64	-48%
Existing	792	708	-84	-11%
Total	1,119	941	-179	-16%

Table 2 – Comparison of 2020 main ANSP actual versus planned costs related to investments– by value of investments and reference period. The data excludes Austria. (source: PRB elaboration of 2020 monitoring reports).¹⁴

2.3 2020 actual depreciation, cost of capital, and leasing

- 33 According to the reporting tables, 2020 en route and terminal actual costs at Union-wide level were composed mostly of depreciation costs (78%), followed by cost of capital (21%), and leasing costs (1%). The allocation of actual costs between en route and terminal is 90% / 10%.
- 34 Table 3 shows that the 2020 actual costs are 11% lower than the planned costs included in the 2019 reporting tables. This percentage reduction is lower compared to the cost reduction according to the monitoring reports (-16%). The main reason for this difference are the missing or different values reported by Member States.
- 35 Table 3 also shows that, compared to the planned costs, the largest absolute reduction of actual

costs is on depreciation costs (-61M€₂₀₁₇) followed by the cost of capital (-53M€₂₀₁₇). The additional information of 11 Member States mention that lower costs were due to the reprioritisation, delays and/or cancellations of investments in 2020 due to the economic and practical implications of the COVID-19 pandemic.¹⁵ Despite the impact of the pandemic, some Member States mentioned higher depreciation costs due to the completion of large investments either in late 2019 or 2020 (e.g. Bulgaria, Denmark, and the Netherlands), or due to cost allocation changes (e.g. Belgium and Norway). Finally, Germany reported negative planned and actual costs of capital for terminal in 2020.

Investment costs by nature	2020 costs in 2019 draft performance plans (M€ ₂₀₁₇)	2020 actuals (M€ ₂₀₁₇)	Difference (M€ ₂₀₁₇)	Difference (%)
Depreciation	765	704	-61	-8%
Cost of capital	238	185	-53	-22%
Leasing costs	9	10	+1	+11%
Total	1,012	900	-112	-11%

Table 3 – 2020 Union-wide actual costs (en route and terminal) related to investments (by nature of costs) compared to the costs included in the 2019 draft performance plans (sources: PRB elaboration of 2019 and 2020 reporting tables).¹⁶

¹⁴ This report deducted the technical adjustments reported by Germany and Switzerland from existing investments. Austria did not report this data.

¹⁵ Croatia, Czech Republic, Estonia, Germany, Italy, Latvia, Lithuania, Malta, the Netherlands, Poland, and Romania.

¹⁶ When depreciation costs were not reported in 3.10 of the reporting tables, the value in line 1.3 of the reporting tables was used. The PRB calculated missing values of the cost of capital of investments for Belgium, Bulgaria, Germany, and Italy, as cost of capital pre-tax rate times net book value of fixed assets. The cost of capital value for terminal in Germany is negative.

2.4 Type of new major investments

36 Table 4 (next page) breaks down the types of new major investments for RP3 included in the 2019 draft performance plans into: ATM systems, CNS systems, infrastructure, and other.¹⁷ The following are examples of the investments comprised in each category:

- ATM systems: arrival and departure management systems (AMAN/DMAN), contingency systems, data management, flight data processing systems (FDPS), recording systems, simulation interface, the CWP/HMI SESAR project¹⁸ (Controller Working Position)/(Human Machine Interface), and tower systems;
- CNS systems: communications, navigation, surveillance, meteorological, and multilateration (MLAT) systems;
- Infrastructure: towers, buildings, and facilities;
- Other investments relate to: aeronautical information management (AIM), meteorological systems, unmanned aircraft system traffic management (UTM), and flight inspection (an aircraft).

37 When investments relate to more than one category, they are classified into the category that they fit in most. For example, some investments in ATM systems also include CNS systems and/or infrastructure (and vice versa).

Out of the total actual costs of investments: 42% correspond to ATM systems, 42% to infrastructure, 13% to CNS systems, and 2% to other. One investment reported by Italy as “intervention program CNS/ATM”, with actual costs equal to 1% of the total Union-wide new major investments, was marked as “unknown” in this report due to the limited technical description provided by Italy on the scope of the investment. The largest absolute

cost reduction by investment category in 2020 corresponds to infrastructure investments (-7.5M€₂₀₁₇), of which 87% of the 2020 planned costs are mandatory.

Cross-border or cross-sectoral cooperation

- 38 The largest investments deployed in 2020 under joint initiatives, such as cross-border or cross-sectoral cooperation, correspond to ATM and CNS systems. Within the Union-wide actual costs of investments classified as ATM systems, 20% (13.3M€₂₀₁₇) corresponds to four cross-border or cross-sectoral (ANS/airport) joint initiatives. They are: Coflight¹⁹ (10.5M€₂₀₁₇) and CDM/AMAN/DMAN/ XMAN²⁰ (1.5M€₂₀₁₇) in France; COOPANS²¹ in Austria, Croatia, Ireland, and Sweden (0.9M€₂₀₁₇); and an ATM system developed within the iTEC Alliance²² in Poland (0.3M€₂₀₁₇).
- 39 Out of the actual costs of investments classified as CNS systems, 17% (3.7M€₂₀₁₇) corresponds mainly to two cross-border joint initiatives: a new voice communication system in France (3M€₂₀₁₇) implemented in cooperation with MUAC, and System Wide Information Management (SWIM) in the Netherlands (0.6M€₂₀₁₇) implemented in partnership with Eurocontrol.
- 40 Under Infrastructure investments, 2% (1.7M€₂₀₁₇) of the actual costs correspond to the expansion of the “Polaris” ATC Centre in the Netherlands implemented under civil-military cooperation.
- 41 Finally, with regards to the actual costs of other investments, 57% (2.3M€₂₀₁₇) corresponds to a joint initiative on aeronautical information services (AIS)/AIM in France (2.3M€₂₀₁₇), implemented in partnership with Eurocontrol.

¹⁷ The investments are categorised disregarding their status of Common Project One (CP1) or otherwise.

¹⁸ The “CWP/HMI” project aims at delivering two SESAR solutions: (i) work station, service interface definition, and virtual centre concept; and (ii) workstation, controller productivity. See: https://cordis.europa.eu/programme/id/H2020_SESAR_IR-VLD.Wave1-19-2015.

¹⁹ Coflight is an FDPS implemented through cooperation of France and Italy. <https://www.ecologie.gouv.fr/en/coflight>.

²⁰ Collaborative decision making (CDM), arrival and departure management (AMAN/DMAN), and cross border arrival management (XMAN).

²¹ COOPANS is a partnership of Austria, Croatia, Denmark, Ireland, Portugal, and Sweden. <https://www.coopans.com/Home>.

²² iTEC is an alliance of the ANSPs of Germany, Spain, United Kingdom, the Netherlands, Norway, Lithuania, and Poland. <https://itec.aero/>.

Category	2020 Planned costs (M€ ₂₀₁₇)	2020 Actual costs (M€ ₂₀₁₇)	Actual vs planned (M€ ₂₀₁₇)	Actual vs planned %	% of actual costs in total costs	Joint initiatives (% of actual costs in total costs)
ATM systems	84.4	67.9	-16.5	-20%	42%	8%
Infrastructure	77.1	69.6	-7.5	-10%	42%	2%
CNS systems	27.9	22.0	-6.2	-22%	13%	1%
Other	3.5	4.0	0.5	+14%	2%	1%
Unknown	3.0	1.7	-1.3	-42%	1%	0%
Total	195.9	164.9	-31	-16%	100%	12%

Table 4 – Categorisation of new major investments (source: PRB elaboration of 2020 monitoring reports).

2.5 Expected benefits from new major investments

42 This section outlines four types of benefits from new major investments as reported by Member States. The benefits relate to: i) network, local, and non-performance impacts; ii) the four key performance areas (KPA) of the performance and charging scheme; iii) interoperability and scalability of operations; and iv) the Common Project One (CP1) which supports the European ATM Masterplan.

Network, local, and non-performance impacts

43 Regulation (EU) 2021/116 art. 4(6) (b) and (c) provides that Common projects shall (i) "identify any potential local or regional negative impact for any specific category of operational stakeholder" and (ii) "take account of the relevant deployment elements specified in the Network Strategy Plan and the Network Operations Plan of the Network Manager". The actual costs in new major investments with expected positive network impact in 2020 amount to 35M€₂₀₁₇ (20% of the total), those with expected positive local impact amount to 26M€₂₀₁₇ (15%), and those with positive "non-performance" impact amount to 2M€₂₀₁₇ (1%). Examples of positive non-performance impact of investments are: resilience, continuity of operations, modernisation, and staff wellbeing. There were no negative impacts identified by Member States.

Benefits to the four KPAs

44 The total actual costs of investments expected to bring benefits to safety in 2020 were 16.7M€₂₀₁₇ (9% of the total Union-wide actual costs of new major investments). As reported by the Member States, these investments, included in the 2019 draft performance plans, are expected to improve safety through the effectiveness of safety

management systems. The majority of investments expected to bring benefits to safety were classified as CNS systems with local impact.

45 Only a minority of actual costs related to investments have expected benefits in environment (3.2M€₂₀₁₇ actual costs in 2020, 2% of the Union-wide total). These investments are expected to improve the environment by reducing CO₂ emissions. The majority of investments expected to benefit the environment were investments in infrastructure.

46 In relation to capacity, the total actual costs of investments expected to bring benefits were 18.2M€₂₀₁₇ in 2020 (11% of the total Union-wide actual costs of new major investments). When analysing capacity, investments are expected to reduce delays and to accommodate more traffic. The majority of investments expected to bring benefits to capacity were classified as ATM systems with network and local impact.

47 Finally, the total actual costs of investments expected to bring benefits to cost-efficiency were 17.2M€₂₀₁₇ in 2020 (11% of the total Union-wide actual costs of new major investments). These investments are expected to improve cost-efficiency by reducing the determined unit costs. The majority of investments expected to bring benefits to cost-efficiency were classified as ATM systems with local impact. However, Member States indicate that two investments that started in 2020 are expected to have a negative impact on cost-efficiency: (i) the drone detection system of Germany (112M€₂₀₁₇), which is expected to provide safety benefits; and (ii) a new ATM system of Cyprus (14M€₂₀₁₇), which is expected to provide safety and capacity benefits. The project in Cyprus is 100% allocated to en route.

Interoperability and scalability

- 48 Seven Member States reported to have spent a total of 40M€₂₀₁₇ in 2020 (23% of the total Union-wide actual costs) in investments that are expected to improve interoperability of systems. The majority of these investments correspond to ATM systems (32M€₂₀₁₇), followed by CNS systems (6M€₂₀₁₇), and other (2M€₂₀₁₇).
- 49 France and Italy had the largest investments in 2020 with expected benefits in interoperability across all the investment categories. In relation to ATM systems, the three largest investments were: a new ATM ACC system in Italy (10.8 M€₂₀₁₇), Coflight in France (10.6 M€₂₀₁₇), and maintenance of an ATM system in Italy (5.6M€₂₀₁₇). Under CNS systems, the largest investment was made by France in ground-ground communications under Internet protocol (4.9M€₂₀₁₇). With regards to other, the largest investment was in meteorological systems by Italy (1.4M€₂₀₁₇).
- 50 Belgium and Germany reported to have spent 7.5M€₂₀₁₇ in 2020 (4% of the total Union-wide actual costs) in investments that are expected to improve scalability of operations. The largest of the two investments is a data centre in Germany (7M€₂₀₁₇), which is expected to provide high scalable IT (information and technology) infrastructure and Wide Area Networks (WAN) to operate air traffic services and communication systems.

Common Project One and ATM Masterplan

- 51 Finally, out of the total actual costs of new major investments, 147M€₂₀₁₇ (84%) are linked to Regulation (EU) 2021/116 on the Common Project One (CP1), which supports the European ATM masterplan, while 143M€₂₀₁₇ (82%) are mandated by the same Regulation. However, the number of mandated investments is 61 out of the total 162 (38%) meaning that mandated investments are fewer and have a higher value. Article 4 of the above-mentioned Regulation provides that Common projects shall “be consistent with and contribute to the European Union-wide performance targets”. At Union-wide level, there were similar levels of actual costs spent in 2020 in new major investments with expected benefits in the KPAs of capacity, cost-efficiency and safety, as shown in paragraphs 44 to 47.

2.6 Union funding granted and declared in 2020

- 52 Union funding supports coordinated investments in line with the European ATM Master Plan. As mentioned in Section 1.3, in order to analyse the Union funding granted and declared, this report has used two sources: (i) the declared awarded funding reported in the 2020 monitoring reports and (ii) the SDM payments data (which provides actual payments of EU grants to ANSPs for SESAR projects and the project funding overview where ANSPs are implementing partners). The two sources are not fully aligned due to a different payment cycle posing a challenge to fully reconcile the amounts (e.g. advance, interim, and final payments for a given project).
- 53 The total Union funding declared by Member States in 2020 amounts to 4% of the total Union-wide actual costs related to investments, equivalent to 40M€₂₀₁₇ (37.6M€₂₀₁₇ en route and 2.5M€₂₀₁₇ terminal), while the total SDM payments amount to 13M€₂₀₁₇ (1%). Therefore, at Union-wide level, the declared funds exceed the SDM payments by 27M€₂₀₁₇. However for 11 Member States the SDM amounts are higher than the self-declared funding. For these Member States, the total gap between the two amounts is 4.8M€₂₀₁₇. The largest gap (3M€₂₀₁₇ or 63% of the gap) is due to Member States not reporting the received funding in their respective reporting tables. A Member State (Poland) clarified that it will provide this data in its 1st November 2021 submission of 2022 unit rates. There were no further relevant explanations in the additional information of the reporting tables.
- 54 Article 25(3) (a) of Regulation (EU) 2019/317 states that “public funds obtained from public authorities, including support from Union assistance programmes shall be deducted from the determined costs no later than in year $n+2$. Public funds covering depreciation costs shall be deducted in accordance with the depreciation schedule of the fixed asset (duration and annuity)”. The main ANSPs reported that they reimbursed 56M€₂₀₁₇ to the airspace users in the 2020 unit rate. ANSPs did not report yet any planned reimbursements through a reduction of the unit rate in 2023, as the revision of the RP3 performance plans is ongoing.

3 ANSP ANALYSIS

3.1 RP3 new major and other new investments (CAPEX)

55 The new RP3 CAPEX reported in the 2020 monitoring reports at main ANSP level, for both en route and terminal, is shown in Figure 1 (ranked from highest to lowest). The largest new CAPEX planned is by far reported by the main ANSP of France (26% of the total CAPEX), followed by Italy (8%), the Netherlands (7%), and Germany (7%). The new RP3 CAPEX of those four ANSPs amounts to 2.8B€₂₀₁₇ and represents 48% of the total new CAPEX at Union-wide level.

56 The top four Member States by new CAPEX also have a high share of major investments within their national CAPEX: France (80%), Italy (72%), Netherlands (93%), and Germany (94%).

57 Table 5 shows the details of the largest new major investments in the above mentioned ANSPs. The largest investments selected correspond to ATM systems (63%) and infrastructure (37%), and the majority are mandated (77%).

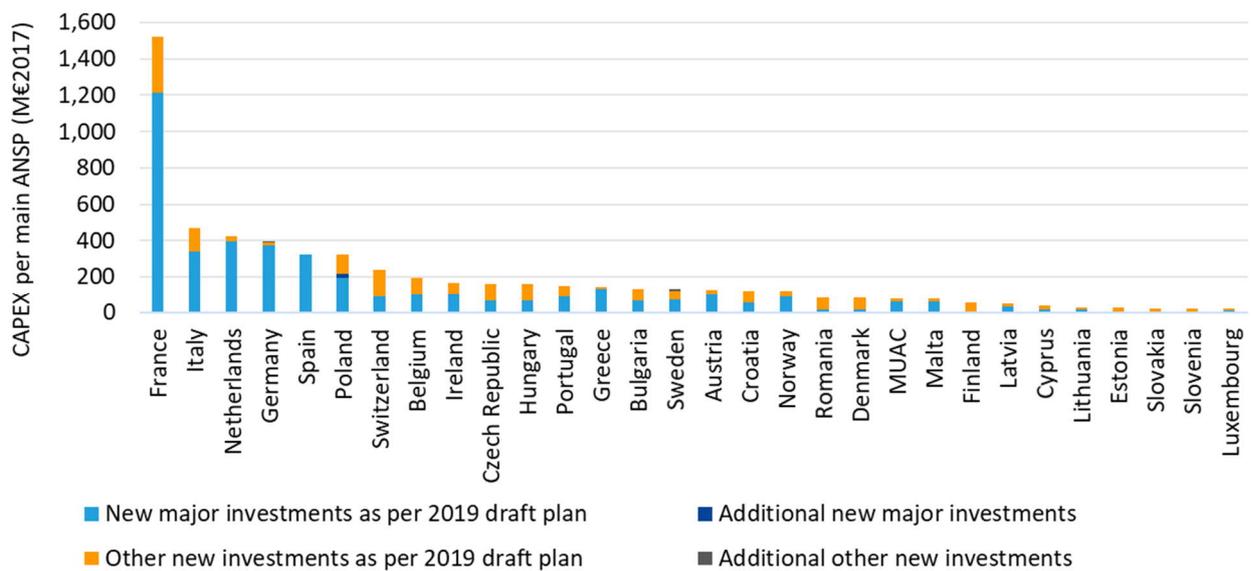


Figure 1 – CAPEX of main ANSPs by value of investment (source: PRB elaboration of 2020 monitoring reports).

Largest major investments	Type	RP3 CAPEX (M€ ₂₀₁₇)	En route/terminal (%)	Share in national new major CAPEX (%)	Benefits/mandated
France					
Maintenance in operational condition (MCO) and evolution NAV/COM/ATM	ATM (full system)	553	100% / 0%	46%	None reported / mandated
4-Flight (en route ATM system)	Infrastructure (maintenance)	239	81% / 19%	19%	None reported / mandated
Italy					
New building in ACC Milan	Infrastructure (buildings)	45	100% / 0%	13%	Network/mandated
New ATM System ACC (Coflight, and 4-Flight)	ATM (FDPS upgrade)	42	100% / 0%	12%	Network/mandated
New tower and tower equipment	Infrastructure (buildings) ²³	41	0% / 100%	12%	Local/mandated

²³ This investment may include systems, but the PRB could not verify this based on the information reported by Italy.

Largest major investments	Type	RP3 CAPEX (M€ ₂₀₁₇)	En route/ terminal (%)	Share in national new major CAPEX (%)	Benefits/ mandated
Netherlands					
Maintenance of new ATM systems and expansion of facilities	ATM/CNS, infrastructure	141	68% / 32%	36%	None reported/no
New ATM systems and operations	ATM (full system)	110	100% / 0%	28%	None reported/ mandated
Germany					
Drone Detection Systems	Infrastructure (safety and security)	112	0% / 100%	30%	Safety/cost efficiency (-)/No
Renovation of the Tower at Munich airport	Infrastructure (buildings)	61	0% / 100%	16%	None reported/no

Table 5 – Largest new major investments in the top four Member States with highest planned RP3 new CAPEX (source: PRB elaboration of 2020 monitoring reports).

Additional investments in Poland	Type	RP3 CAPEX (M€ ₂₀₁₇)	En route/ terminal (%)	Share in national new major CAPEX (including additional) (%)	Benefits
Modernisation of Tower FIR Warszawa (merger of three investments included in the 2019 draft performance plan, with added scope).	ATM ("CWP/HMI" SESAR project)	16	88% / 12%	7%	Local/Safety/ Environment/ Capacity/ Cost-efficiency
Renewal of aircraft for validation of procedures or radar control.	Other (flight inspection aircraft)	9	70% / 30%	4%	Local/Safety/ Cost-efficiency

Table 6 - Additional new major investments, not initially included in the 2019 draft performance plans, in Poland (source: PRB elaboration of 2020 monitoring reports).

58 Poland reported that the expected benefits of its additional new major investments span across all the KPAs and have a local impact (Table 6). Details for Sweden are not included, as it did not provide the details required on its additional new major investments. Germany is not required to report the details on its additional other new investments.

3.2 2020 costs related to new and existing investments

59 The highest actual costs related to both en route and terminal investments in 2020 are by far those of the main ANSP of France (302M€₂₀₁₇), followed by Spain (109M€₂₀₁₇), Germany (87M€₂₀₁₇), Italy (77M€₂₀₁₇), and Switzerland (47M€₂₀₁₇). The actual costs of investments for the five largest Member States amount to 623M€₂₀₁₇ in 2020, which represents 66% of the total actual costs of investments at Union-wide level.

60 Figure 2 (next page) indicates that 49% of the Union-wide reductions in costs related to investments (equivalent to -89.6M€₂₀₁₇) were realised by three Member States: Italy (-46.7M€₂₀₁₇), Germany (-22.4M€₂₀₁₇), and France (-20.5M€₂₀₁₇). Germany reported a reprioritisation of investments to achieve costs savings and maintain financial stability in response to COVID-19. Italy and France do not justify the reduction. However, the costs related to investments submitted by Italy in its 2020 reporting tables (151M€₂₀₁₇) are almost double of the costs submitted in its 2020 monitoring report (77M€₂₀₁₇), therefore the difference between actual and planned costs according to the reporting tables is lower (29M€₂₀₁₇). The majority of Member States reduced mainly the actual costs of existing investments.

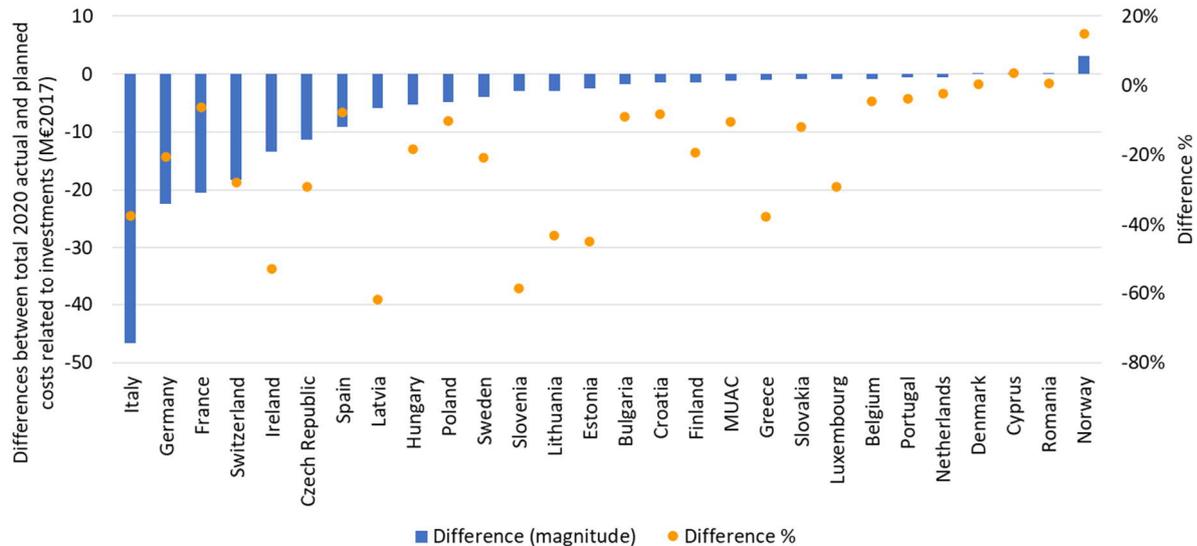


Figure 2 - Total 2020 actual costs related to investments compared to the planned costs included in the 2019 draft performance plans, sorted from highest to lowest actual cost difference in M€₂₀₁₇ (source: PRB elaboration of 2020 monitoring reports).

61 Table 7 (next page) shows the actual costs in 2020 related to additional investments in Poland, Sweden, and Germany, not initially included in 2019 draft performance plans.

3.3 2020 en route depreciation, cost of capital, and leasing

62 The top five main ANSPs by actual costs related to en route investments, are France (176M€₂₀₁₇, 22%), Italy (139M€₂₀₁₇, 17%), Spain (101M€₂₀₁₇, 12%), Germany (71M€₂₀₁₇, 9%), and Poland (37M€₂₀₁₇, 5%). The actual costs of the main ANSPs in these five Member States represent 65% of the Union-wide costs. 50% of the Union-wide reductions in costs related to en route investments (equivalent to -57.4M€₂₀₁₇) were realised by three Member States: Italy (-26.4M€₂₀₁₇), France (-21.0M€₂₀₁₇), and Czech Republic (-10.0M€₂₀₁₇) (Figure 3, next page).

63 The ANSPs with the largest percentage reductions in actual costs compared to planned costs are Ireland (-46%), Greece (-38%), and Malta (-37%), which reduced both the depreciation costs and cost of capital.²⁴ Malta cited as justification the suspension and prioritisation of projects in 2020 due to the impact of COVID-19.

64 On the other hand, the main ANSPs in four Member States had actual costs that were higher than the plan: the Netherlands (+24%), Norway (+11%), and Slovenia (+7%) because of higher depreciation costs; and Cyprus (+4%) because of higher cost of capital. The Netherlands justifies the increased cost due to the entry into operation of an ATM system, a voice communication system, a remote tower operation, and a new building. Norway, Slovenia, and Cyprus do not justify the increase in depreciation costs and cost of capital, respectively, in the additional information to the reporting tables. While Hungary reduced its overall actual costs related to investments, it justified its increase in depreciation costs, similarly to the Netherlands, due to the entry into operation of an ATM system upgrade and new IT devices.

²⁴ The change in en route leasing costs is merely 1% of the total. There are four main ANSPs that report en route leasing costs. The difference between actual and planned en route leasing costs for these ANSPs is: Poland (-3%), Hungary (6%), Finland (32%), and Romania (1796%, namely an increase from 27K€₂₀₁₇ to 510K€₂₀₁₇).

	Additional Investments	Actual 2020 costs related to investments (M€ ₂₀₁₇)	Share in total actual costs (%)
Poland	IR470209_CWP TWR	0.56	1%
	IA490011_Aircraft II	0	0%
Sweden	Details are not available.	0.3	2%
Germany	Other new	0.75	0.1%

Table 7 - Actual costs in 2020 related to additional investments in Poland, Sweden, and Germany, not initially included in 2019 draft performance plans (source: PRB elaboration of monitoring reports).

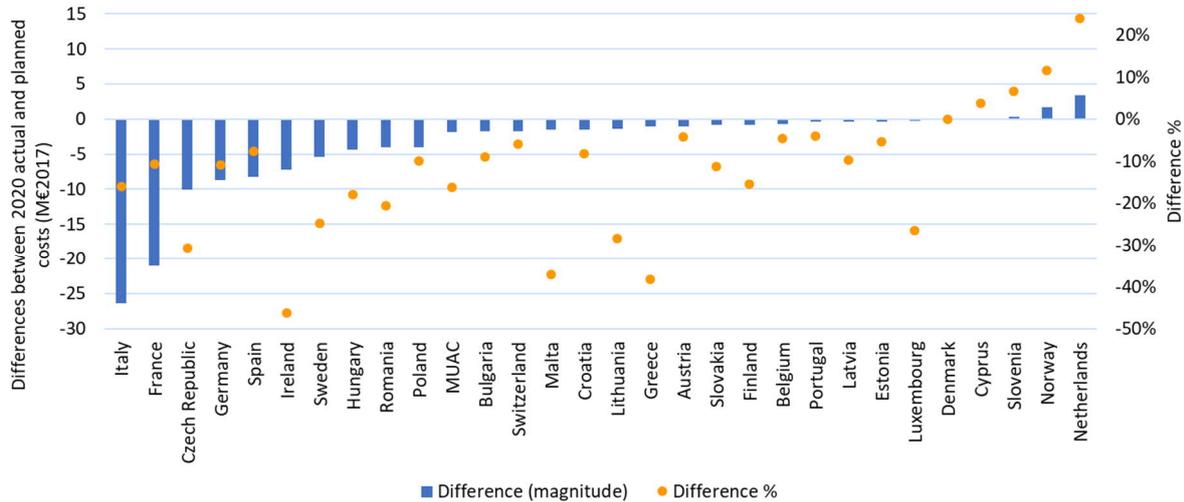


Figure 3 - En route actual costs related to investments compared to the planned costs, sorted from highest to lowest actual cost difference in M€₂₀₁₇ (source: PRB elaboration of 2019 and 2020 reporting tables).

3.4 2020 terminal depreciation, cost of capital, and leasing

- 65 The top five main ANSPs by actual costs related to terminal investments are: Switzerland (20M€₂₀₁₇, 23%), Italy (12M€₂₀₁₇, 14%), France (10M€₂₀₁₇, 11%), Spain (8M€₂₀₁₇, 9%), and Norway (7.5M€₂₀₁₇, 8%). The actual costs of the main ANSPs in these Member States represent 65% of the Union-wide costs. 49% of the Union-wide reductions in costs related to terminal investments (equivalent to -9.5 M€₂₀₁₇) were realised by two Member States: Ireland (-6.6M€₂₀₁₇) and Italy (-2.9M€₂₀₁₇) (Figure 4, next page).
- 66 The main ANSPs with the largest percentage reductions in actual costs are Ireland (-67%), Germany (-46%), Estonia (-33%), Luxembourg (-30%), and Czech Republic (-30%). In particular, three ANSPs reduced both the depreciation costs and cost of capital: Ireland (-59% and -81%, respectively), Estonia (-33% and -31%, respectively), and Luxembourg (-32% and -22%, respectively). Ireland did not report the reasons for its lower actual costs. Estonia and Luxembourg explain that their actual costs in 2020 are below the plan due to the

postponement or prioritisation of investments due to the pandemic. Estonia adds that its cost of capital is lower because of decreased available equity due to losses. Also, Luxembourg cites the use of public funds to finance its depreciation and cost of capital, which reduces the rates paid by air-space users.

- 67 The Czech Republic reduced its cost of capital by -100% due to a reduction of the applied return on equity and an increase in borrowed capital with favourable interest rates. The Czech Republic also cited a lower asset base due to lower CAPEX in 2020, explained by the postponement of investment in surveillance infrastructure and the cancellation of some "other new" investments.
- 68 Germany "increased" its negative actual cost of capital by -28% compared to the planned cost of capital (also negative). However, since the planned costs of capital of Germany is negative, this means that the actual cost of capital is less negative than the plan. Germany states that its main ANSP decided to "carry on the determined unit rate from the year 2019 (RP2) over the whole RP3". Germany further explains that since the

planned costs exceed the revenues, a negative return on equity is included in the cost of capital.

- 69 On the other hand, the main ANSPs of four Member States had actual costs that were higher than the plan: France (+25%), Norway (+23%), Latvia (+13%), and Denmark (+4%). In France, Latvia, and Denmark, the increase was due to higher depreciation costs. France does not explain the reason for its actual costs being higher than planned. It states to have applied cost saving measures in respect to CAPEX and the application of a zero cost of capital on deferred payments. However, it also states to have prioritised investments providing capacity, environmental benefits, and regulatory compliance. Norway states that depreciation costs increased due to the reallocation of assets according to the service offered. Latvia does not provide a reason for its increased costs. Denmark stated that its depreciation costs increased mostly due to investments that were completed in late 2019 and

have a full effect in 2020, such as COOPANS builds and a radar in Roskilde. In Norway, the increase was both in depreciation costs (+19%) and the cost of capital (+30%).

3.5 Type of new major investments

- 70 Out of the total 162 new major investments, 57 were categorised as being ATM systems. All Member States, with the exception of Estonia, Finland, and Slovenia, reported new major investments into ATM systems.
- 71 The top five new major investments in ATM systems with the largest actual costs in 2020 are shown in Table 8 (next page). The table shows that the selected projects in Italy and France (Coflight) had overspendings. The total CAPEX for these investments is 510M€₂₀₁₇, representing 26% of the total CAPEX of ATM systems.

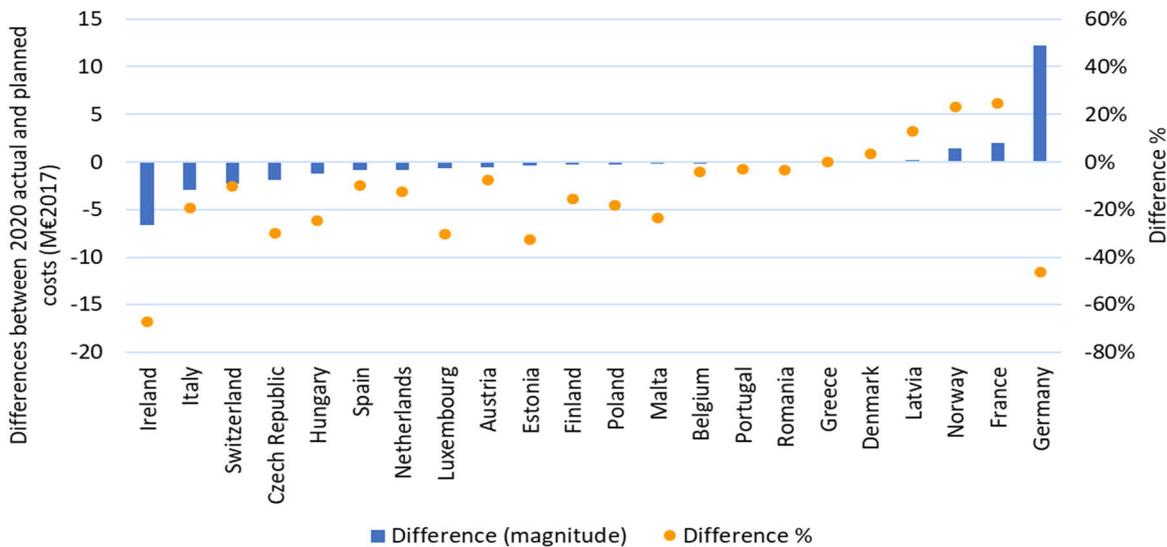


Figure 4 – Terminal actual costs related to investments compared to the planned costs included in the 2019 draft performance plans, sorted from highest to lowest actual cost difference in M€₂₀₁₇ (source: PRB elaboration of 2020 reporting tables).²⁵

²⁵ ANSPs in the following Member States are not included since they do not have a terminal charging zone: Bulgaria, Croatia, Cyprus, Lithuania, Slovakia, Slovenia. While Sweden has a terminal charging zone, the costs correspond to a terminal only ANSP, which are not in scope of this report.

Member State	Investment	Planned costs (M€ ₂₀₁₇)	Actual costs (M€ ₂₀₁₇)	Difference (M€ ₂₀₁₇) (%)	En route/terminal (%)	Benefits/Mandated
Italy	New system ATM ACC (FDPS upgrade)	9	10.9	+1.8 (+20%)	100% / 0%	Network/yes
France	4-Flight (Full System)	12.6	10.7	-1.9 (-15%)	100% / 0%	None reported/yes
France	Coflight (FDPS)	7	10.6	+3.5 (+50%)	81% / 19%	None reported/yes
Netherlands	Maintenance investments (mainly ATM, but also CNS and infrastructure)	6.5	6	-0.5 (-9%)	68% / 32%	None reported/no
Italy	Development Maintenance (system maintenance)	4.2	5.6	+1.4 (+33%)	100% / 0%	None reported/no

Table 8 - Top five largest major ATM investments by actual costs in 2020 (source: PRB elaboration of monitoring reports).

72 A total of 36 new major investments, out of 162, correspond to infrastructure investments implemented by 18 Member States. The top five infrastructure investments with the largest actual costs in 2020 are shown in Table 9. The table shows that the selected projects in France, Italy (Remote Tower), and the Netherlands had overspendings. The total CAPEX for these investments is 669M€₂₀₁₇, representing 49% of the total CAPEX for infrastructure investments.

73 A total of 59 new major investments were categorised as CNS systems deployed by 20 Member States. The top five investments in CNS systems with the largest actual costs in 2020 are shown in Table 10 (next page). The table shows that the selected projects in France (new voice communication system), and Spain had overspendings. The total CAPEX for these investments is 177M€₂₀₁₇, representing 24% of the total CAPEX for CNS systems.

Member State	Investment	Planned costs (M€ ₂₀₁₇)	Actual costs (M€ ₂₀₁₇)	Difference (M€ ₂₀₁₇) (%)	En route/terminal (%)	Benefits/mandated
France	MCO and evol NAV/COM/ATM (maintenance)	58.4	61.4	+3.0 (+5%)	81% / 19%	None reported/yes
Italy	Remote Tower	0.8	2.5	+1.7 (+216%)	0% / 100%	Local/yes
Italy	New Tower (BT)	2.7	1.5	-1.3 (-47%)	0% / 100%	Local/no
Netherlands	Expansion of facilities - "Polaris" - (building)	1.3	1.7	+0.4 (+31%)	90% / 10%	Network, local, capacity, cost-efficiency/no
Poland	ATM operational centre Poznan (building/contingency)	1.3	1.1	-0.2 (-17%)	100% / 0%	Network, local, all four KPAs/no

Table 9 - Top five largest major infrastructure investments by actual costs in 2020 (source: PRB elaboration of monitoring reports).

Member State	Investment	Planned costs (M€ ₂₀₁₇)	Actual costs (M€ ₂₀₁₇)	Difference (M€ ₂₀₁₇) (%)	En route/ terminal (%)	Benefits/ mandated
France	CSSIP	5.7	4.9	-0.8 (-14%)	81% / 19%	None reported/yes
France	New voice communication system	2.4	3.0	+0.8 (+30%)	96% / 4%	None reported/yes
Spain	REDAN (air navigation data network)	0.1	2.2	+2.1 (+2,067%)	95% / 5%	None reported/yes
Spain	Voice communication system	0.8	2.0	+1.2 (+138%)	96% / 4%	None reported/yes
Italy	RETE E-NET	3.3	1.8	-1.5 (+46%)	50% / 50%	Network/yes

Table 10 - Top five largest major CNS investments by actual costs in 2020 (source: PRB elaboration of monitoring reports).

3.6 Expected benefits from new major investments

- 74 Figure 5 (next page) shows the share of new major investments classified as ATM systems linked to the CP1/ATM Master Plan in comparison to the total actual costs of new major investments at Member State level in 2020. 14 Member States reported costs of investments related to the CP1/ATM Master Plan in 2020. The main ANSPs with the largest actual costs of such investments in 2020 were those of France (100M€₂₀₁₇), Italy (35M€₂₀₁₇), Switzerland (13M€₂₀₁₇), Spain (11M€₂₀₁₇), and the Netherlands (10M€₂₀₁₇). The investment costs of the top five main ANSPs represent 98% of the total costs related to new major investments.
- 75 Six Member States (Italy, Hungary, Croatia, Ireland, Sweden, and Luxembourg) reported that the entirety of the actual costs related to new major investments in 2020 are costs of investments linked to (but not necessarily mandated by) the CP1/ATM Master Plan. The ANSPs in 14 Member States and MUAC had no investments related to the CP1/ATM Masterplan.
- 76 The new major investments in ATM Systems linked to the CP1/ATM Master Plan are divided in three categories: new systems (66M€₂₀₁₇ or 45%), overhaul of existing systems (63M€₂₀₁₇ or 43%), and replacement investments (17M€₂₀₁₇ or 12%). The main ANSP in France invested the most in new systems (33M€₂₀₁₇), and overhaul of existing systems (61M€₂₀₁₇). The main ANSP in the Netherlands invested the most in replacement (7M€₂₀₁₇).

3.7 Union funding granted and declared in 2020

- 77 The Union funding declared by Member States in the 2020 reporting tables compared to the actual costs of investments in 2020 per main ANSP are shown in Figure 6 (next page). The largest amount of Union funding has been declared by Germany (19.5M€₂₀₁₇), France (7.1M€₂₀₁₇), and Spain (6.8M€₂₀₁₇). In terms of share of funding compared to actual costs of investments, Germany (35%), Sweden (17%), and Slovenia (8%) reported the highest percentage of Union funding.
- 78 According to the SESAR Deployment Manager (SDM) data (a subset of the Union funding provided by CINEA), the main ANSPs received a total funding of 13M€₂₀₁₇ for investments in 2020. The Member States that received most SDM funding are Germany (3.4M€₂₀₁₇, 26% of the total SDM funding), the Netherlands (2.9M€₂₀₁₇, 22%), and Spain (2.4M€₂₀₁₇, 18%).
- 79 This amount of funding received through SDM is significantly lower than the self-declared funding. The SDM data shows that several ANSPs that received SDM funding did not self-declare it (Poland: 1.7M€₂₀₁₇, Italy: 1M€₂₀₁₇, Austria: 0.2M€₂₀₁₇).
- 80 The following are four reasons why it is difficult to monitor the use of Union funding to cover the costs related to new investments:
- The total Union funding (which may include both CAPEX and OPEX) is associated to the lifetime of the projects, which may be equal or longer than the reference period;
 - Yearly CAPEX is not available in RP3;

- There is limited information on individual investments in the reporting tables submitted by the Member States; and
- The majority of actual costs of investments represent costs of existing investments.

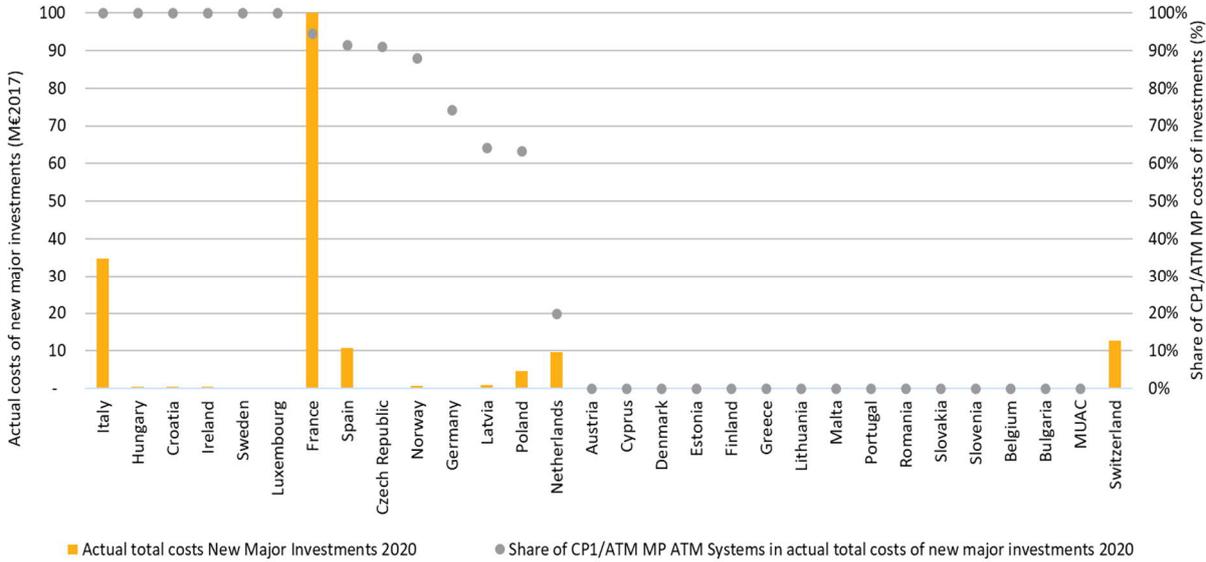


Figure 5 - Actual costs of investments linked to the CP1/ATM MP in 2020 (source: PRB elaboration of 2020 reporting tables).

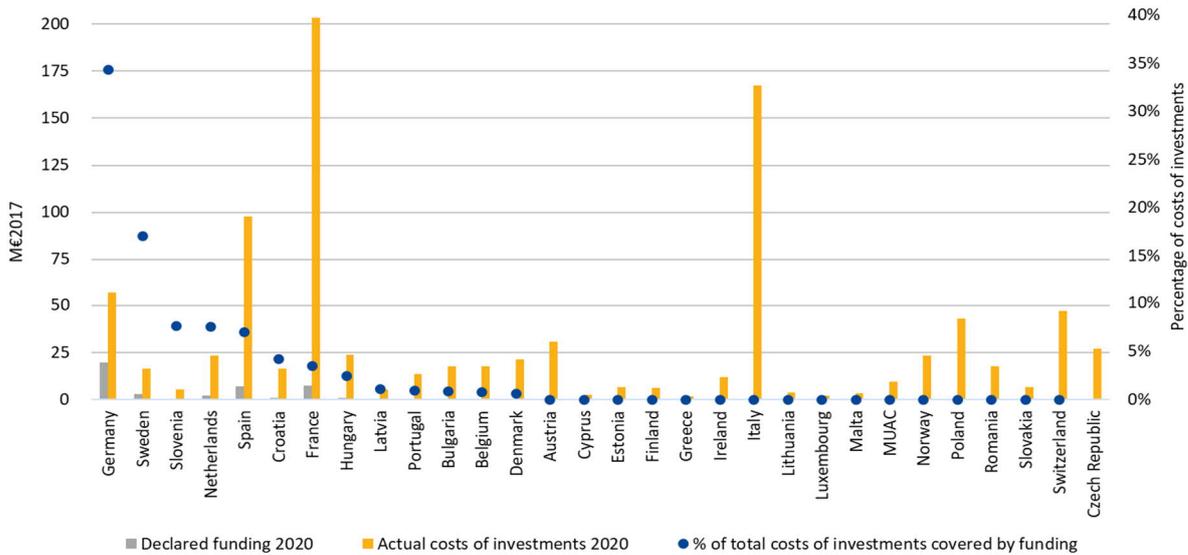


Figure 6 - Actual costs of investments vs funding declared per ANSP in 2020 (source: PRB elaboration of 2020 reporting tables).

4 CONCLUSIONS

- 81 According to the monitoring reports, the 2020 actual costs related to en route and terminal investments at Union-wide level amounted to 973M€₂₀₁₇. These actual costs are 16% lower than the costs included in the 2019 draft performance plans (1,153M€₂₀₁₇). However, the 2020 actual costs submitted in the 2020 reporting tables are -11% lower than the planned costs included in the 2019 reporting tables. This percentage reduction is lower due to the missing or different values reported by Member States.
- 82 The actual costs of existing and new major investments dropped by -12%. In relation to new major investments, the report indicates that 82% of the investments (19% of the total Union-wide costs related to investments) are mandated by Regulation (EU) 2021/116 on the Common Project One (CP1) and may not be easily cancelled, postponed or changed in scope. In contrast, the actual costs in other new investments (excluding Austria) had the smallest share in total costs (7%) but the largest percentage reduction compared to the draft plans (-48%).
- 83 The largest absolute cost reduction by investment category in 2020 corresponds to ATM systems investments (-16.5M€₂₀₁₇), of which 85% of the 2020 planned costs are mandatory. Member States do not report the actual delivery status of individual investments. The PRB estimates, based on the information reported, that only 5% of the value of mandatory investments are likely delayed compared to 30% of the non-mandatory.
- 84 Germany, Poland, and Sweden reported additional new RP3 CAPEX (not initially included in the 2019 draft performance plans) amounting to 39M€₂₀₁₇, which is 0.9% of the initially planned total Union-wide new CAPEX (5.8B€₂₀₁₇).

5 ANSP FACTSHEETS

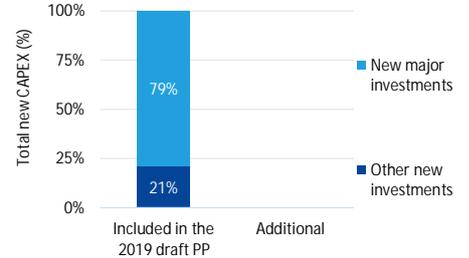
5.1 Austria - Austro Control

Austria underspent 1.6M€₂₀₁₇ (-5%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Austria planned nine new major investments for RP3. However, Austria did not report the breakdown of the costs related to investments by new major, other new and existing investments. The lack of detailed information does not permit to analyse the cost-efficiency performance by type of investment, as well as the status of delivery of new major investments in 2020.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ AUSTRIA | Austro Control

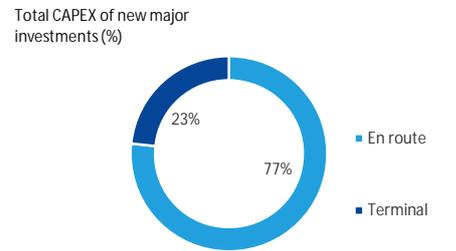
Planned and additional CAPEX by value of individual investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	128.39	% of total
- New major investments (above 5M€ each)²	101.20	79%
Included in the 2019 draft performance plan	101.20	79%
Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	27.18	21%
Included in the 2019 draft performance plan	27.18	21%
Additional	-	0%



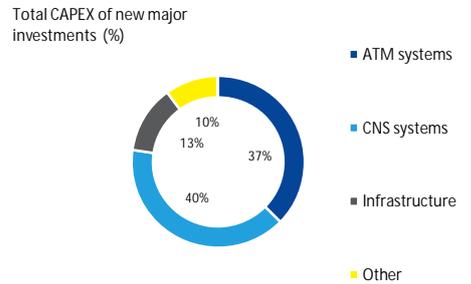
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major investments	101.20	% of total
- En route	77.62	77%
- Terminal	23.58	23%

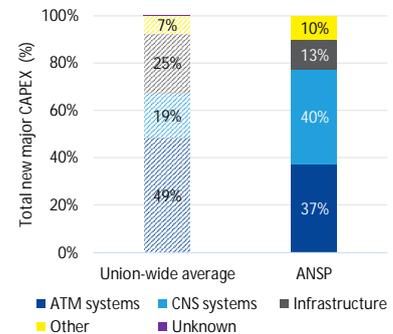
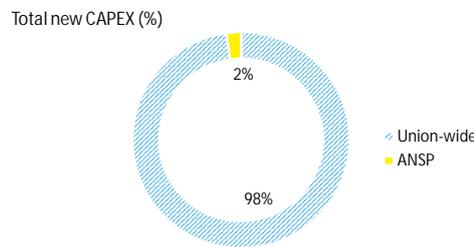
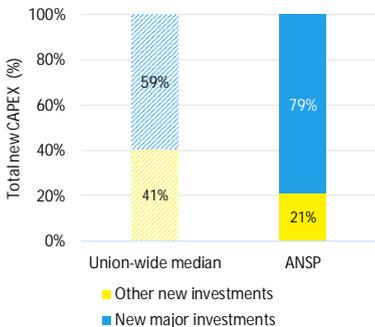


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major investments	101.20	% of total
- ATM systems	37.76	37%
- CNS systems	40.35	40%
- Infrastructure	12.94	13%
- Other	10.15	10%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



Unless otherwise stated, the Union-wide median values are reported as a measure of central tendency that is robust to outliers.

The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

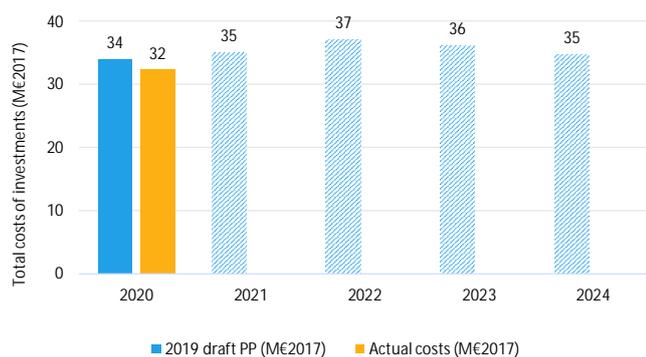
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

AUSTRIA | Austro Control

2019 draft PP costs: new and existing investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	33.95	35.12	37.09	36.19	34.83	33.95
- New major investments	Not reported					
- % <i>New major investments in total costs of investments</i>	N/A	N/A	N/A	N/A	N/A	N/A
- Other new investments	Not reported					
- % <i>Other new investments in total costs of investments</i>	N/A	N/A	N/A	N/A	N/A	N/A
- Existing investments	Not reported					
- % <i>Existing investments in total costs of investments</i>	N/A	N/A	N/A	N/A	N/A	N/A

Actual costs: new and existing investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	32.34	-	-	-	-	32.34
- New major investments	Not reported	-	-	-	-	Not reported
- % <i>New major investments in total costs of investments</i>	N/A	-	-	-	-	N/A
- Other new investments	Not reported	-	-	-	-	Not reported
- % <i>Other new investments in total costs of investments</i>	N/A	-	-	-	-	N/A
- Existing investments	Not reported	-	-	-	-	Not reported
- % <i>Existing investments in total costs of investments</i>	N/A	-	-	-	-	N/A

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.61)	-	-	-	-	(1.61)
- New major investments	Not reported	-	-	-	-	Not reported
- % <i>change of actual with respect to 2019 draft PP</i>	N/A	-	-	-	-	N/A
- Other new investments	Not reported	-	-	-	-	Not reported
- % <i>change of actual with respect to 2019 draft PP</i>	N/A	-	-	-	-	N/A
- Existing investments	Not reported	-	-	-	-	Not reported
- % <i>change of actual with respect to 2019 draft PP</i>	N/A	-	-	-	-	N/A



Total costs of investments in 2020 (M€2017)

Not reported



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

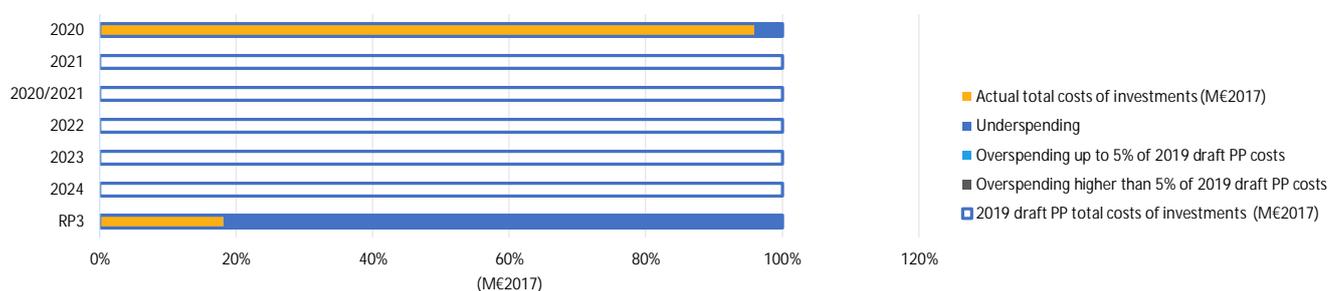
Austria did not provide a breakdown of the costs of investments by new major, other new and existing investments.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN AUSTRIA - En route | Austro Control

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	24.71	25.77	50.48	27.42	26.87	25.78	24.71
Depreciation	19.66	20.64	40.30	22.05	21.67	20.79	19.66
Cost of capital	5.05	5.14	10.19	5.37	5.20	4.99	5.05
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	23.69	-	-	-	-	-	23.69
Depreciation	19.53	-	-	-	-	-	19.53
Cost of capital	4.16	-	-	-	-	-	4.16
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.02)	-	-	-	-	-	(1.02)
Depreciation	(0.13)	-	-	-	-	-	(0.13)
Cost of capital	(0.89)	-	-	-	-	-	(0.89)
Cost of leasing	-	-	-	-	-	-	-

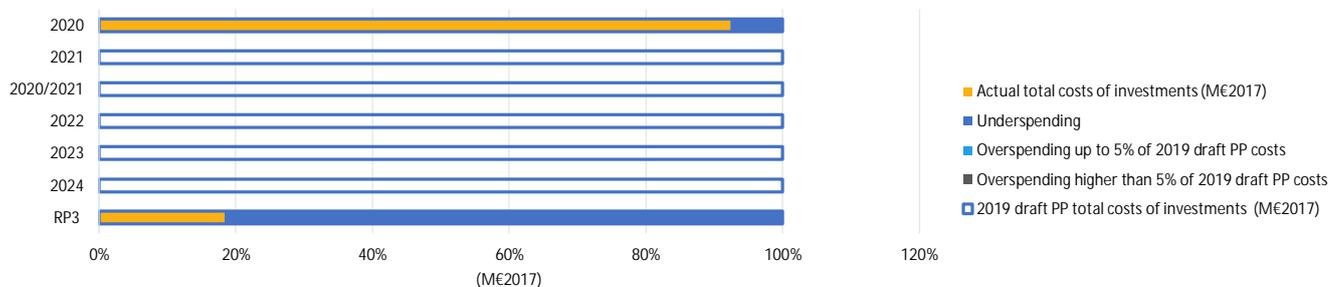


COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN AUSTRIA - Terminal | Austro Control

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	7.32	7.38	14.71	7.71	7.33	7.06	7.32
Depreciation	5.91	5.96	11.86	6.22	5.91	5.69	5.91
Cost of capital	1.42	1.43	2.85	1.49	1.42	1.37	1.42
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	6.77	-	-	-	-	-	6.77
Depreciation	5.64	-	-	-	-	-	5.64
Cost of capital	1.12	-	-	-	-	-	1.12
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.56)	-	-	-	-	-	(0.56)
Depreciation	(0.26)	-	-	-	-	-	(0.26)
Cost of capital	(0.30)	-	-	-	-	-	(0.30)
Cost of leasing	-	-	-	-	-	-	-



COSTS BY NEW MAJOR INVESTMENTS

AUSTRIA | Austro Control

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of Investments	-	-	-	-	-	-
1 COOPANS (AT)	Not reported					
2 NAV infrastructure	Not reported					
3 ANS enabler	Not reported					
4 Voice communication	Not reported					
5 ATS enabler	Not reported					
6 Airport throughput	Not reported					
7 AIM infrastructure	Not reported					
8 MET infrastructure	Not reported					
9 Carrier infrastructure	Not reported					

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	-	-	-	-	-	-
1 COOPANS (AT)	Not reported	-	-	-	-	Not reported
2 NAV infrastructure	Not reported	-	-	-	-	Not reported
3 ANS enabler	Not reported	-	-	-	-	Not reported
4 Voice communication	Not reported	-	-	-	-	Not reported
5 ATS enabler	Not reported	-	-	-	-	Not reported
6 Airport throughput	Not reported	-	-	-	-	Not reported
7 AIM infrastructure	Not reported	-	-	-	-	Not reported
8 MET infrastructure	Not reported	-	-	-	-	Not reported
9 Carrier infrastructure	Not reported	-	-	-	-	Not reported

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	-	-	-	-	-	-
1 COOPANS (AT)	Not reported	-	-	-	-	Not reported
2 NAV infrastructure	Not reported	-	-	-	-	Not reported
3 ANS enabler	Not reported	-	-	-	-	Not reported
4 Voice communication	Not reported	-	-	-	-	Not reported
5 ATS enabler	Not reported	-	-	-	-	Not reported
6 Airport throughput	Not reported	-	-	-	-	Not reported
7 AIM infrastructure	Not reported	-	-	-	-	Not reported
8 MET infrastructure	Not reported	-	-	-	-	Not reported
9 Carrier infrastructure	Not reported	-	-	-	-	Not reported

Total costs of investments in 2020 (M€2017)

Not reported



1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

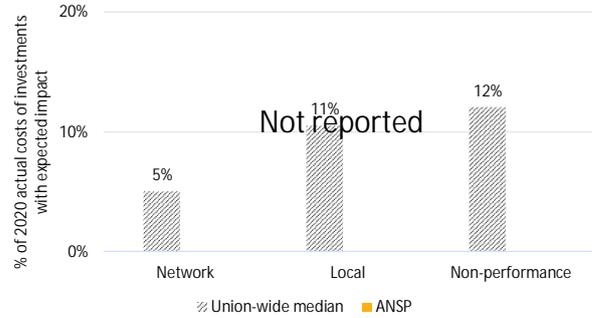
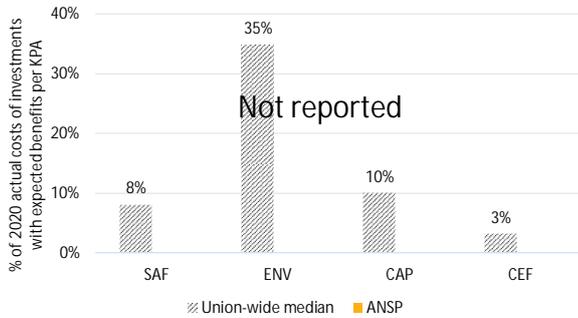
Austria did not report the costs related to individual new major investments.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

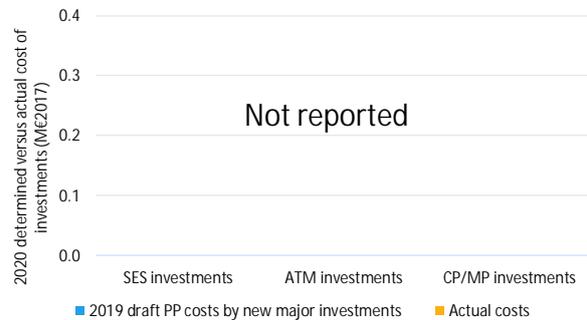
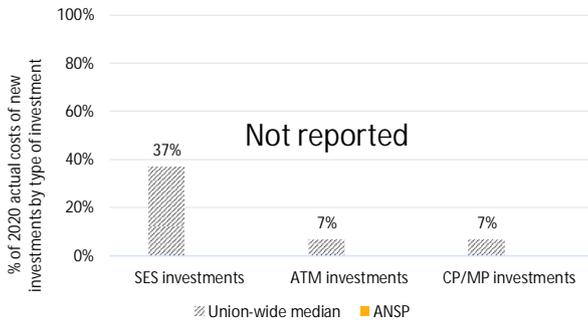
AUSTRIA | Austro Control

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	COOPANS (AT)				
2	NAV infrastructure				
3	ANS enabler	X	X	X	X
4	Voice communication	X		X	X
5	ATS enabler				
6	Airport throughput				
7	AIM infrastructure				
8	MET infrastructure				
9	Carrier infrastructure	X		X	X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	COOPANS (AT)			
2	NAV infrastructure			
3	ANS enabler	X	X	X
4	Voice communication	X	X	X
5	ATS enabler			
6	Airport throughput			
7	AIM infrastructure			
8	MET infrastructure			
9	Carrier infrastructure	X	X	X



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	COOPANS (AT)	31/12/2024	Unknown	Yes	Yes	Yes	CP
2	NAV infrastructure	31/12/2025	Unknown	Yes	No	No	MP
3	ANS enabler	31/12/2024	Unknown	No	No	No	MP
4	Voice communication	31/12/2024	Unknown	No	No	Yes	CP
5	ATS enabler	31/12/2024	Unknown	Yes	No	Yes	CP
6	Airport throughput	31/12/2024	Unknown	Yes	No	Yes	CP
7	AIM infrastructure	31/12/2024	Unknown	Yes	No	Yes	CP
8	MET infrastructure	31/12/2024	Unknown	Yes	No	Yes	CP
9	Carrier infrastructure	31/12/2024	Unknown	No	No	Yes	CP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

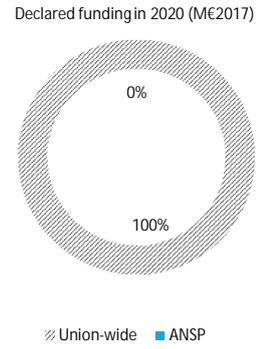
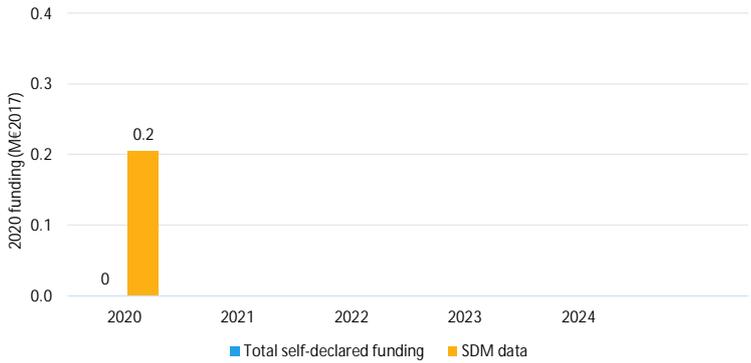
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Due to the lack of information with regards to the costs of investments and the progression of the investments, the status of the investments reported by Austria is uncertain. The investments have been marked as "unknown".

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) AUSTRIA | Austro Control

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investmen</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investmer.</i>	-	-	-	-	-	-

Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.20)	-	-	-	-	(0.20)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	0.20	-	-	-	-	0.20



Austria did not declare any funding received in 2020, however SESAR Deployment Manager data indicates a payment of 0.2M€₂₀₁₇ in 2020.

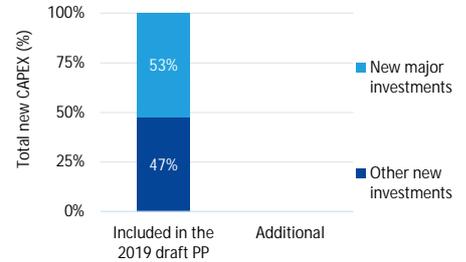
5.2 Belgium - Skeyes

Belgium underspent 0.8M€₂₀₁₇ (-5%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Belgium planned eight new major investments for RP3, three of which have started, two have been postponed, two have been possibly delayed and one has not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ BELGIUM | Skeyes

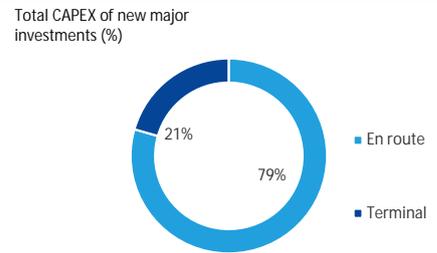
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	192.84	% of total
- New major investments (above 5M€ each)²	101.52	53%
- Included in the 2019 draft performance plan	101.52	53%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	91.32	47%
- Included in the 2019 draft performance plan	91.32	47%
- Additional	-	0%



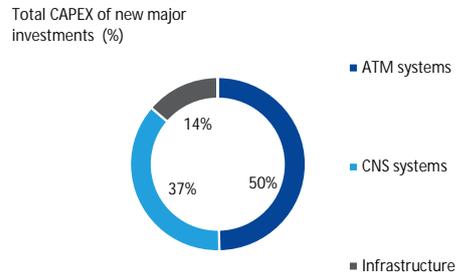
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major investments	101.52	% of total
- En route	80.62	79%
- Terminal	20.91	21%

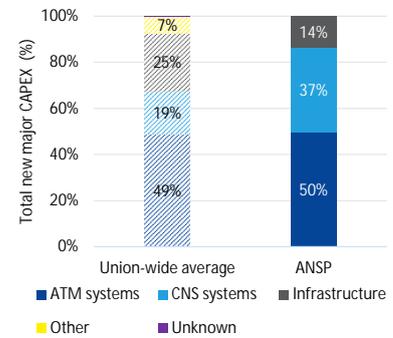
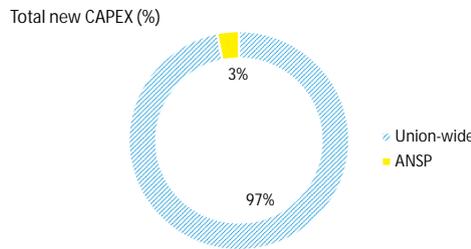
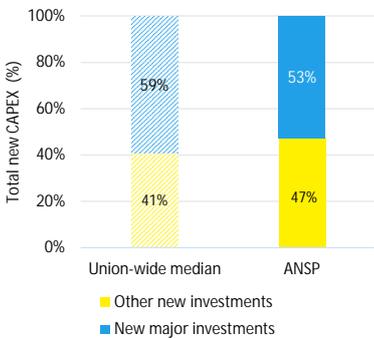


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	101.52	% of total
- ATM systems	50.48	50%
- CNS systems	37.08	37%
- Infrastructure	13.97	14%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



Unless otherwise stated, the Union-wide median values are reported as a measure of central tendency that is robust to outliers.

The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

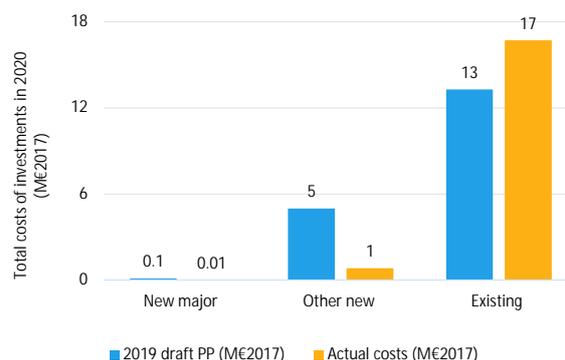
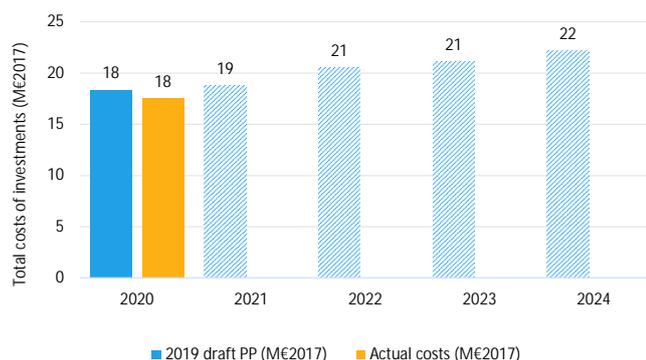
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

BELGIUM | Skeyes

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	18.38	18.77	20.54	21.10	22.16	18.38
- New major investments	0.12	1.18	2.49	3.37	5.16	0.12
- % New major investments in total costs of investments	1%	6%	12%	16%	23%	1%
- Other new investments	4.98	7.31	8.93	9.82	9.85	4.98
- % Other new investments in total costs of investments	27%	39%	43%	47%	44%	27%
- Existing investments	13.28	10.28	9.12	7.91	7.16	13.28
- % Existing investments in total costs of investments	72%	55%	44%	37%	32%	72%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	17.55	-	-	-	-	17.55
- New major investments	0.01	-	-	-	-	0.01
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	0.82	-	-	-	-	0.82
- % Other new investments in total costs of investments	5%	-	-	-	-	5%
- Existing investments	16.72	-	-	-	-	16.72
- % Existing investments in total costs of investments	95%	-	-	-	-	95%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(0.83)	-	-	-	-	(0.83)
- New major investments	(0.10)	-	-	-	-	(0.10)
- % change of actual with respect to 2019 draft PP	-91%	-	-	-	-	-91%
- Other new investments	(4.16)	-	-	-	-	(4.16)
- % change of actual with respect to 2019 draft PP	-84%	-	-	-	-	-84%
- Existing investments	3.44	-	-	-	-	3.44
- % change of actual with respect to 2019 draft PP	26%	-	-	-	-	26%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

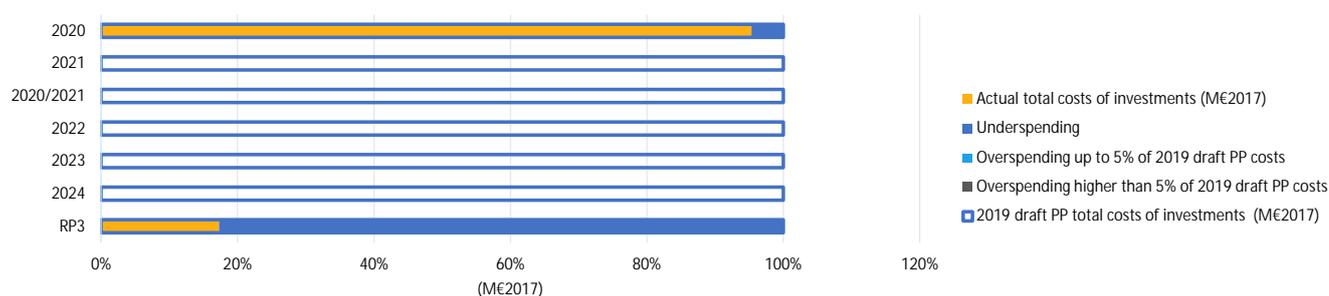
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

BELGIUM - En route | Skeyes

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	14.15	14.45	28.59	15.98	16.39	17.08	14.15
Depreciation	11.56	11.62	23.18	12.78	12.98	13.36	11.56
Cost of capital	2.59	2.82	5.41	3.20	3.41	3.72	2.59
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	13.49	-	-	-	-	-	13.49
Depreciation	10.02	-	-	-	-	-	10.02
Cost of capital	3.46	-	-	-	-	-	3.46
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.66)	-	-	-	-	-	(0.66)
Depreciation	(1.53)	-	-	-	-	-	(1.53)
Cost of capital	0.87	-	-	-	-	-	0.87
Cost of leasing	-	-	-	-	-	-	-



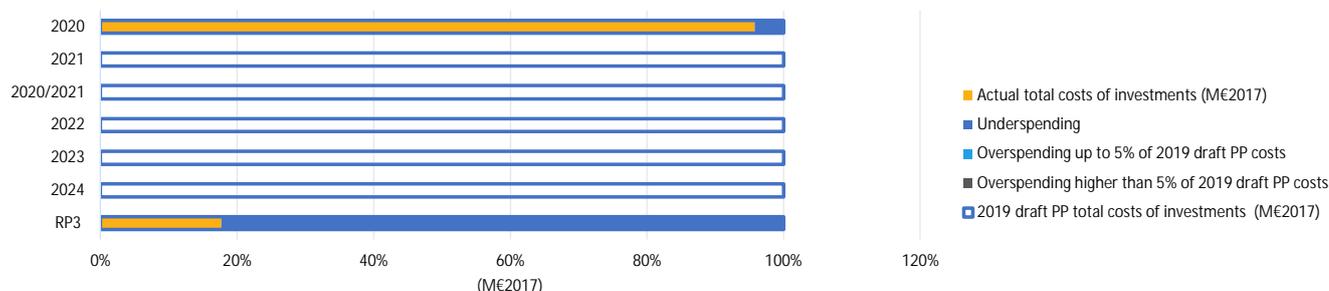
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

BELGIUM - Terminal | Skeyes

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	4.23	4.32	8.55	4.56	4.71	5.09	4.23
Depreciation	3.45	3.47	6.93	3.65	3.73	3.98	3.45
Cost of capital	0.78	0.85	1.62	0.91	0.98	1.11	0.78
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	4.05	-	-	-	-	-	4.05
Depreciation	3.01	-	-	-	-	-	3.01
Cost of capital	1.04	-	-	-	-	-	1.04
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.18)	-	-	-	-	-	(0.18)
Depreciation	(0.44)	-	-	-	-	-	(0.44)
Cost of capital	0.27	-	-	-	-	-	0.27
Cost of leasing	-	-	-	-	-	-	-



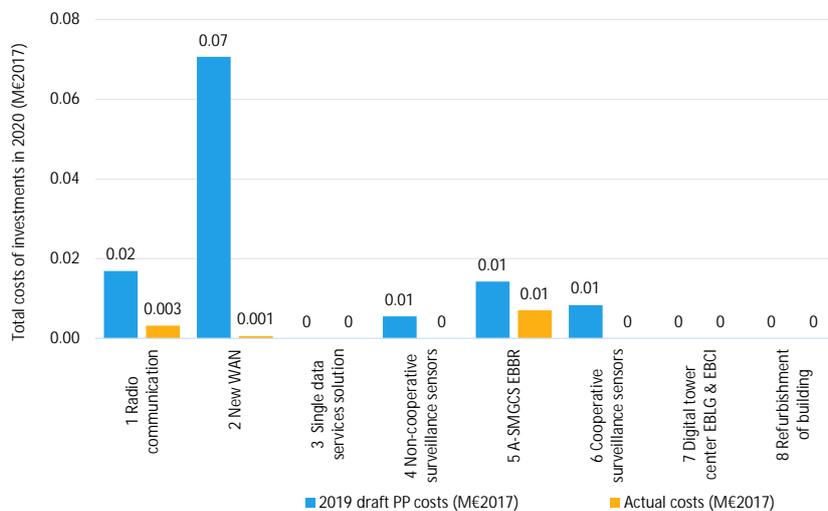
COSTS BY NEW MAJOR INVESTMENTS

BELGIUM | Skyes

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.12	1.18	2.49	3.37	5.16	0.12
1 Radio communication	0.02	0.14	0.82	0.98	0.96	0.02
2 New WAN	0.07	0.72	0.70	0.68	0.67	0.07
3 Single data services solution	-	0.07	0.31	0.61	1.12	-
4 Non-cooperative surveillance sensors	0.01	0.06	0.21	0.38	0.63	0.01
5 A-SMGCS EBBR	0.01	0.12	0.15	0.19	0.47	0.01
6 Cooperative surveillance sensors	0.01	0.03	0.12	0.25	0.51	0.01
7 Digital tower center EBLG & EBCI	-	0.04	0.10	0.10	0.50	-
8 Refurbishment of building	-	0.00	0.07	0.18	0.30	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.01	-	-	-	-	0.01
1 Radio communication	0.00	-	-	-	-	0.00
2 New WAN	0.00	-	-	-	-	0.00
3 Single data services solution	-	-	-	-	-	-
4 Non-cooperative surveillance sensors	-	-	-	-	-	-
5 A-SMGCS EBBR	0.01	-	-	-	-	0.01
6 Cooperative surveillance sensors	-	-	-	-	-	-
7 Digital tower center EBLG & EBCI	-	-	-	-	-	-
8 Refurbishment of building	-	-	-	-	-	-

Actual minus 2019 draft PP costs of investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(0.10)	-	-	-	-	(0.10)
1 Radio communication	(0.01)	-	-	-	-	(0.01)
2 New WAN	(0.07)	-	-	-	-	(0.07)
3 Single data services solution	-	-	-	-	-	-
4 Non-cooperative surveillance sensors	(0.01)	-	-	-	-	(0.01)
5 A-SMGCS EBBR	(0.01)	-	-	-	-	(0.01)
6 Cooperative surveillance sensors	(0.01)	-	-	-	-	(0.01)
7 Digital tower center EBLG & EBCI	-	-	-	-	-	-
8 Refurbishment of building	-	-	-	-	-	-



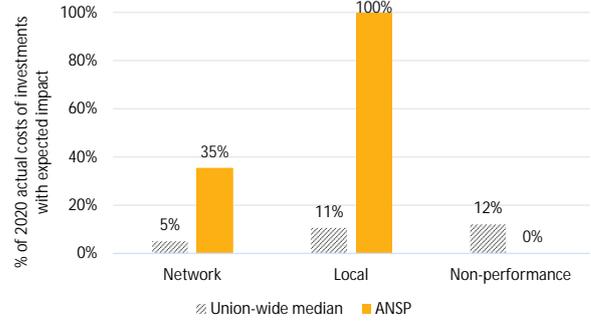
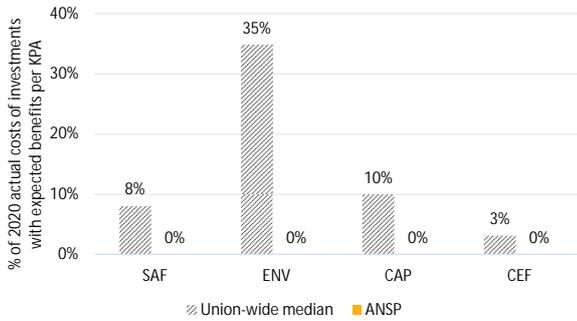
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

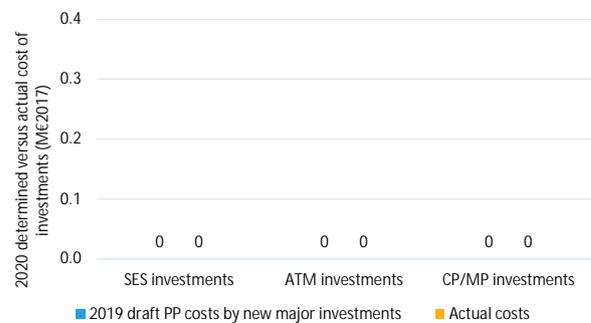
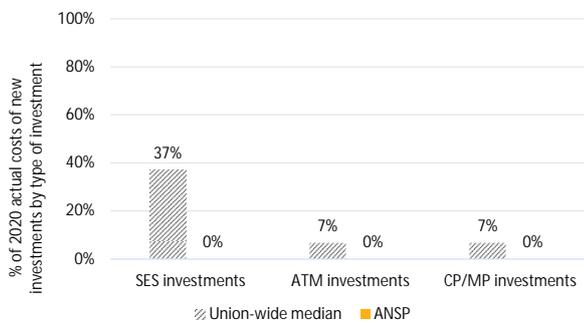
BELGIUM | Skeyes

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Radio communication				
2	New WAN				
3	Single data services solution				
4	Non-cooperative surveillance sensors				
5	A-SMGCS EBBR				
6	Cooperative surveillance sensors				
7	Digital tower center EBLG & EBCI				
8	Refurbishment of building				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Radio communication	X	X	
2	New WAN	X	X	
3	Single data services solution			
4	Non-cooperative surveillance sensors	X	X	
5	A-SMGCS EBBR		X	
6	Cooperative surveillance sensors	X	X	
7	Digital tower center EBLG & EBCI			
8	Refurbishment of building			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Radio communication	31/12/2021	Started	No	No	No	-
2	New WAN	31/12/2020	Started	No	No	No	-
3	Single data services solution	31/12/2024	Postponed	Yes	Yes	Yes	CP
4	Non-cooperative surveillance sensors	31/12/2021	Delayed	No	Yes	No	-
5	A-SMGCS EBBR	31/12/2023	Started	No	No	No	-
6	Cooperative surveillance sensors	31/12/2021	Delayed	No	Yes	No	-
7	Digital tower center EBLG & EBCI	31/12/2023	Postponed	No	Yes	Yes	MP
8	Refurbishment of building	31/12/2025	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

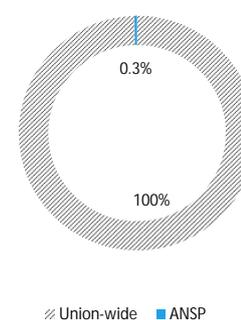
Belgium indicated that two investments, "Single Data Services solution" and "Digital Tower Centre EBLG & EBCI" have been postponed to RP4, without indicating the new date of entry into operation. Two investments have been marked as delayed, due to not recording actual costs of investments in 2020.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

BELGIUM | Skeyes

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.13	-	-	-	-	0.13
- En route funding declared	0.13	-	-	-	-	0.13
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.13</i>	-	-	-	-	<i>0.13</i>
- Terminal funding	0.01	-	-	-	-	0.01
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.01</i>	-	-	-	-	<i>0.01</i>

Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	0.13	-	-	-	-	0.13
Total included in the funding declaration (reporting tables)	0.13	-	-	-	-	0.13
SDM Payment	-	-	-	-	-	-

Declared funding in 2020 (M€₂₀₁₇)

Belgium received 0.13M€₂₀₁₇ funding in 2020. The funding has been awarded for three projects, "MPLS WAN Project", "Traffic Complexity Assessment and Simulations Tool - TCAST" and "SWIM Common PKI and policies & procedures for establishing a Trust framework". These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

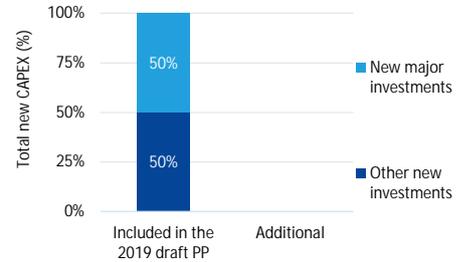
5.3 Bulgaria - BULATSA

Bulgaria underspent 1.8M€₂₀₁₇ (-9%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Bulgaria planned three new major investments for RP3, one of which has started, one has been possibly delayed and one has not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ BULGARIA | BULATSA

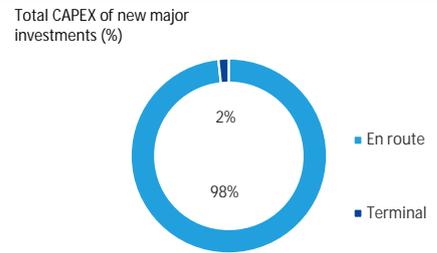
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	134.20	% of total
- New major investments (above 5M€ each)²	67.36	50%
- Included in the 2019 draft performance plan	67.36	50%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	66.84	50%
- Included in the 2019 draft performance plan	66.84	50%
- Additional	-	0%



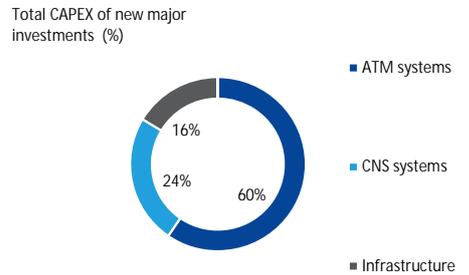
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	67.36	% of total
- En route	66.22	98%
- Terminal	1.14	2%

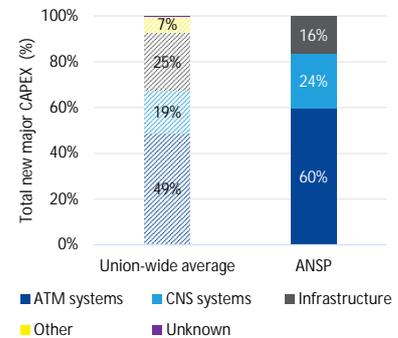
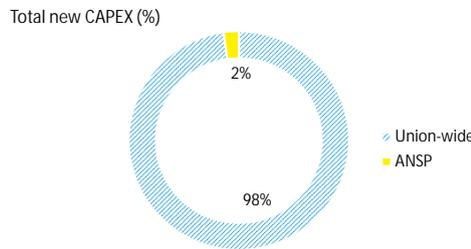
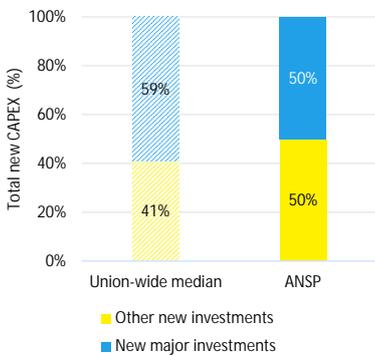


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	67.36	% of total
- ATM systems	40.13	60%
- CNS systems	16.20	24%
- Infrastructure	11.03	16%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

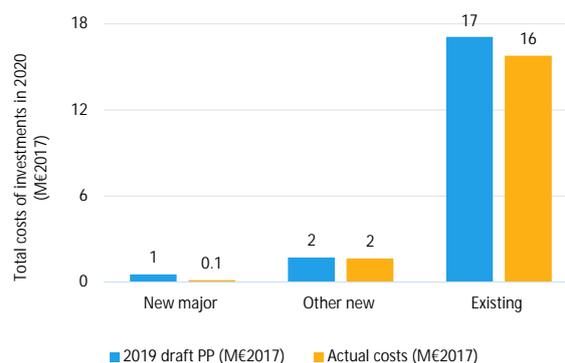
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

BULGARIA | BULATSA

2019 draft PP costs: new and existing investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	19.33	20.36	21.57	24.31	25.42	19.33
- New major investments	0.53	0.99	1.42	3.03	3.54	0.53
- % <i>New major investments in total costs of investments</i>	3%	5%	7%	12%	14%	3%
- Other new investments	1.71	4.47	7.55	9.97	11.34	1.71
- % <i>Other new investments in total costs of investments</i>	9%	22%	35%	41%	45%	9%
- Existing investments	17.10	14.90	12.59	11.31	10.55	17.10
- % <i>Existing investments in total costs of investments</i>	88%	73%	58%	47%	41%	88%

Actual costs: new and existing investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	17.59	-	-	-	-	17.59
- New major investments	0.14	-	-	-	-	0.14
- % <i>New major investments in total costs of investments</i>	1%	-	-	-	-	1%
- Other new investments	1.65	-	-	-	-	1.65
- % <i>Other new investments in total costs of investments</i>	9%	-	-	-	-	9%
- Existing investments	15.79	-	-	-	-	15.79
- % <i>Existing investments in total costs of investments</i>	90%	-	-	-	-	90%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.75)	-	-	-	-	(1.75)
- New major investments	(0.38)	-	-	-	-	(0.38)
- % <i>change of actual with respect to 2019 draft PP</i>	-73%	-	-	-	-	-73%
- Other new investments	(0.05)	-	-	-	-	(0.05)
- % <i>change of actual with respect to 2019 draft PP</i>	-3%	-	-	-	-	-3%
- Existing investments	(1.31)	-	-	-	-	(1.31)
- % <i>change of actual with respect to 2019 draft PP</i>	-8%	-	-	-	-	-8%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

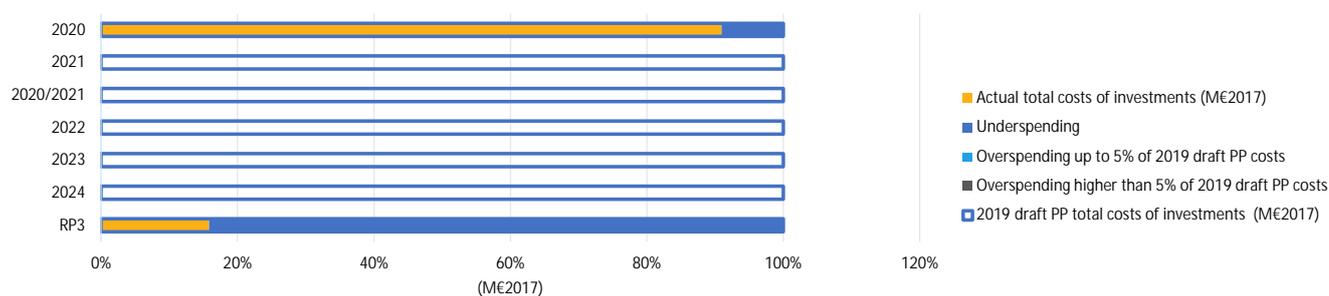
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

BULGARIA - En route | BULATSA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	19.33	20.36	39.69	21.57	24.31	25.42	19.33
Depreciation	11.31	11.75	23.07	12.53	15.35	16.35	11.31
Cost of capital	8.02	8.61	16.63	9.03	8.97	9.07	8.02
Cost of leasing	-	-	-	-	-	-	-

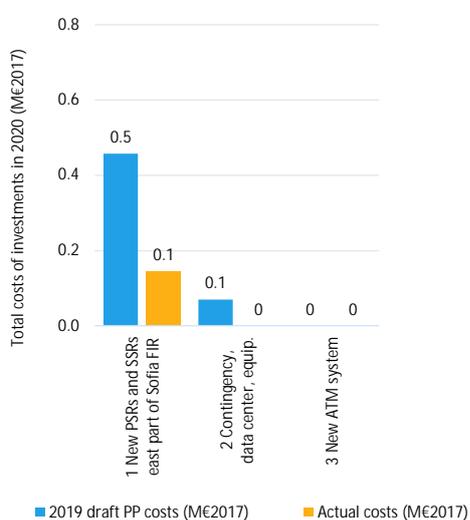
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	17.59	-	-	-	-	-	17.59
Depreciation	10.57	-	-	-	-	-	10.57
Cost of capital	7.02	-	-	-	-	-	7.02
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.75)	-	-	-	-	-	(1.75)
Depreciation	(0.75)	-	-	-	-	-	(0.75)
Cost of capital	(1.00)	-	-	-	-	-	(1.00)
Cost of leasing	-	-	-	-	-	-	-



Bulgaria did not establish a terminal charging zone for RP3.

COSTS BY NEW MAJOR INVESTMENTS						BULGARIA BULATSA
2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.53	0.99	1.42	3.03	3.54	0.53
1 New PSRs and SSRs east part of Sofia FIR	0.46	0.74	1.02	2.44	2.34	0.46
2 Building of contingency and data center and equipment	0.07	0.25	0.40	0.59	0.63	0.07
3 New ATM system (incl. en-route AMAN and backup)	-	-	-	-	0.56	-
Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	0.14	-	-	-	-	0.14
1 New PSRs and SSRs east part of Sofia FIR	0.14	-	-	-	-	0.14
2 Building of contingency and data center and equipment	-	-	-	-	-	-
3 New ATM system (incl. en-route AMAN and backup)	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.38)	-	-	-	-	(0.38)
1 New PSRs and SSRs east part of Sofia FIR	(0.31)	-	-	-	-	(0.31)
2 Building of contingency and data center and equipment	(0.07)	-	-	-	-	(0.07)
3 New ATM system (incl. en-route AMAN and backup)	-	-	-	-	-	-

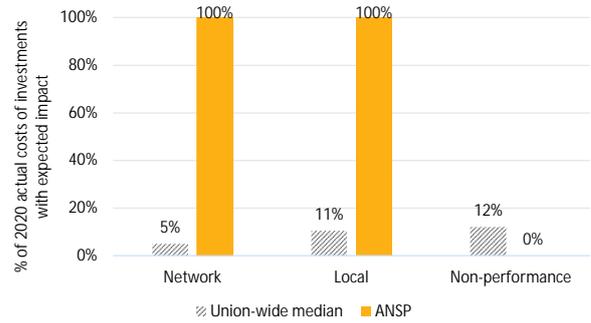
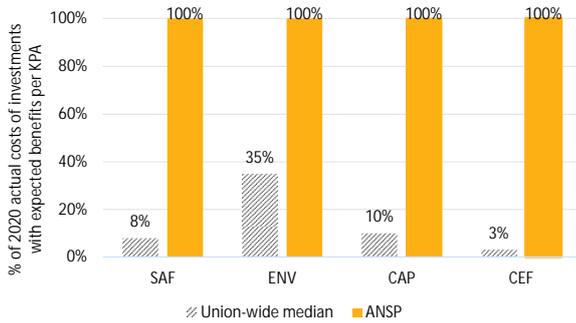


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

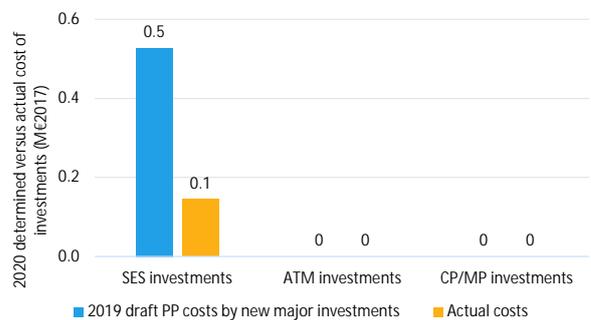
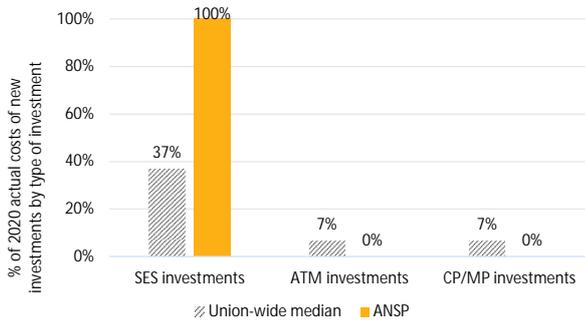
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT **BULGARIA | BULATSA**

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	New PSRs and SSRs east part of Sofia FIR	X	X	X	X
2	Building of contingency and data center and equipment				X
3	New ATM system (incl. en-route AMAN and backup)			X	X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	New PSRs and SSRs east part of Sofia FIR	X	X	
2	Building of contingency and data center and equipment			
3	New ATM system (incl. en-route AMAN and backup)			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	New PSRs and SSRs east part of Sofia FIR	31/12/2022	Started	Yes	No	No	-
2	Building of contingency and data center and equipment	30/06/2026	Delayed	Yes	No	No	-
3	New ATM system (incl. en-route AMAN and backup)	31/12/2026	Not started	Yes	No	Yes	CP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.
 1. EOI date = Date of entry into operation
 2. CP/MP = Common Project and Master Plan
 The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.
 One investment has been marked as delayed, due to not recording actual costs in 2020.

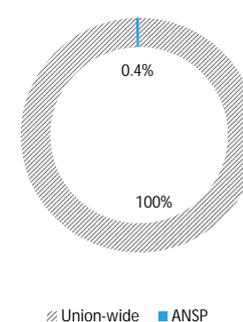
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

BULGARIA | BULATSA

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.16	-	-	-	-	0.16
- En route funding declared	0.16	-	-	-	-	0.16
<i>En route funding that could not be assigned to a specific investment</i>	0.16	-	-	-	-	0.16
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.07)	-	-	-	-	(0.07)
Total included in the funding declaration (reporting tables)	0.16	-	-	-	-	0.16
SDM payment	0.23	-	-	-	-	0.23



Declared funding in 2020 (M€2017)



Bulgaria received 0.16M€₂₀₁₇ funding in 2020, however SESAR Deployment Manager data indicates a payment of 0.23M€₂₀₁₇. The funding was awarded for two projects, "Creating a Local Security Operations Centre" and "PJ18 W2 Skyways". These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

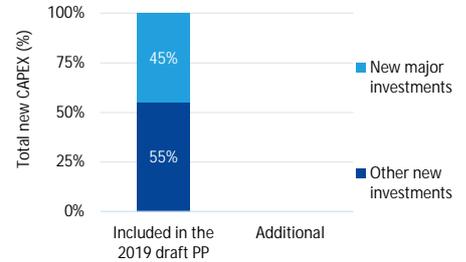
5.4 Croatia - Croatia Control

Croatia underspent 1.5M€₂₀₁₇ (-8%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Croatia planned two new major investments for RP3, one of which has started and one has been possibly delayed.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ CROATIA | Croatia Control

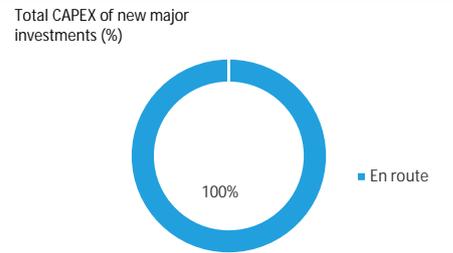
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	123.85	% of total
- New major investments (above 5M€ each)²	55.64	45%
- Included in the 2019 draft performance plan	55.64	45%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	68.21	55%
- Included in the 2019 draft performance plan	68.21	55%
- Additional	-	0%



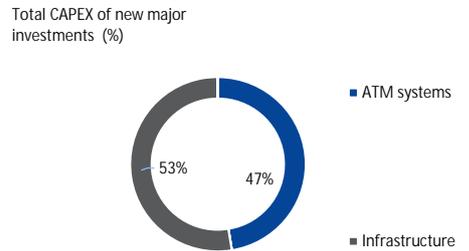
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	55.64	% of total
- En route	55.64	100%
- Terminal	-	0%

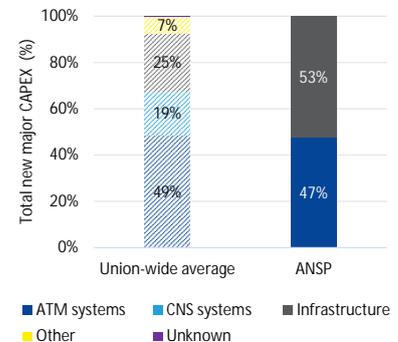
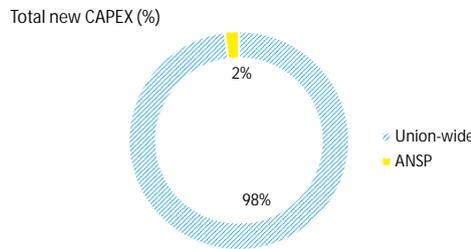
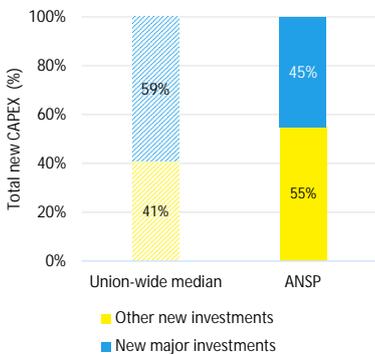


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	55.64	% of total
- ATM systems	26.41	47%
- CNS systems	-	0%
- Infrastructure	29.23	53%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

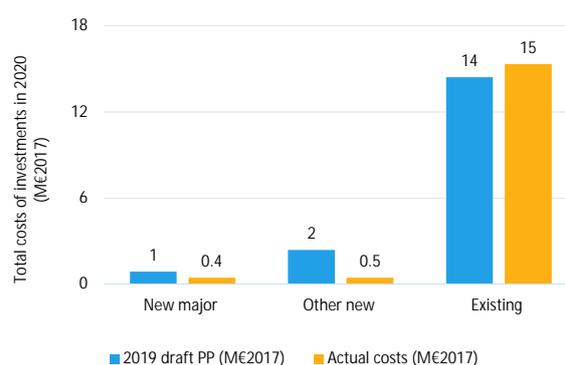
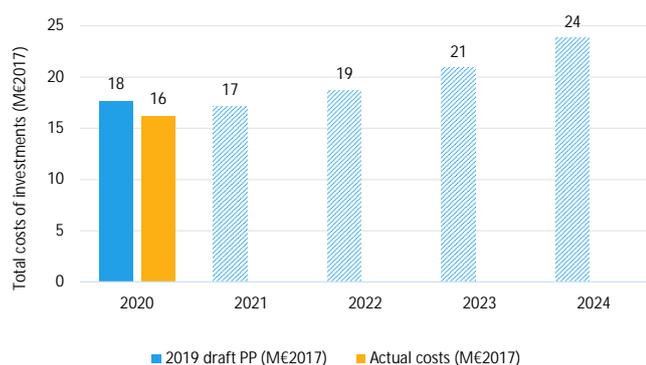
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

CROATIA | Croatia Control

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	17.67	17.08	18.65	20.87	23.81	17.67
- New major investments	0.87	2.01	3.38	5.38	8.11	0.87
- % New major investments in total costs of investments	5%	12%	18%	26%	34%	5%
- Other new investments	2.37	6.12	9.13	10.88	11.95	2.37
- % Other new investments in total costs of investments	13%	36%	49%	52%	50%	13%
- Existing investments	14.43	8.95	6.14	4.62	3.75	14.43
- % Existing investments in total costs of investments	82%	52%	33%	22%	16%	82%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	16.23	-	-	-	-	16.23
- New major investments	0.44	-	-	-	-	0.44
- % New major investments in total costs of investments	3%	-	-	-	-	3%
- Other new investments	0.45	-	-	-	-	0.45
- % Other new investments in total costs of investments	3%	-	-	-	-	3%
- Existing investments	15.34	-	-	-	-	15.34
- % Existing investments in total costs of investments	95%	-	-	-	-	95%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.45)	-	-	-	-	(1.45)
- New major investments	(0.43)	-	-	-	-	(0.43)
- % change of actual with respect to 2019 draft PP	-50%	-	-	-	-	-50%
- Other new investments	(1.92)	-	-	-	-	(1.92)
- % change of actual with respect to 2019 draft PP	-81%	-	-	-	-	-81%
- Existing investments	0.91	-	-	-	-	0.91
- % change of actual with respect to 2019 draft PP	6%	-	-	-	-	6%

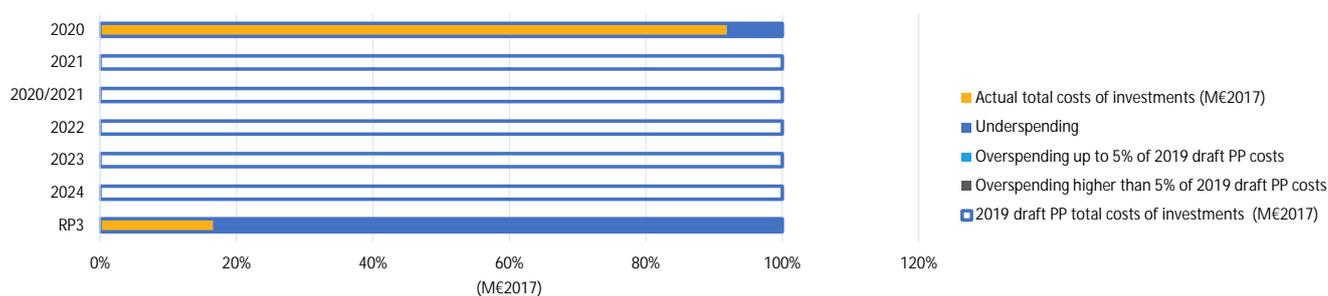


1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

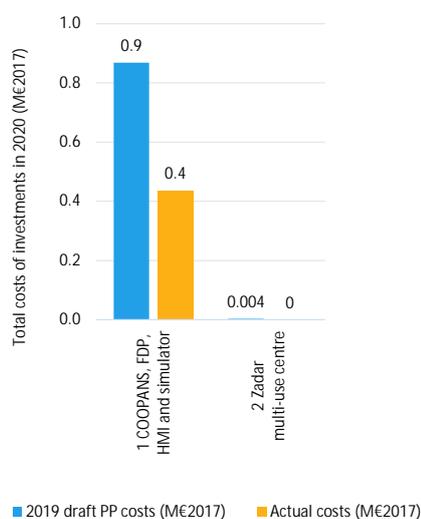
CROATIA - En route | Croatia Control

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	17.67	17.08	34.75	18.65	20.87	23.81	17.67
Depreciation	13.97	12.46	26.42	13.35	14.92	17.10	13.97
Cost of capital	3.71	4.62	8.33	5.29	5.95	6.71	3.71
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	16.23	-	-	-	-	-	16.23
Depreciation	13.53	-	-	-	-	-	13.53
Cost of capital	2.69	-	-	-	-	-	2.69
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.45)	-	-	-	-	-	(1.45)
Depreciation	(0.43)	-	-	-	-	-	(0.43)
Cost of capital	(1.01)	-	-	-	-	-	(1.01)
Cost of leasing	-	-	-	-	-	-	-



Croatia did not establish a terminal charging zone for RP3.

COSTS BY NEW MAJOR INVESTMENTS						CROATIA	Croatia Control
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date	
Total costs of investments	0.87	2.01	3.38	5.38	8.11	0.87	
1 COOPANS baseline, new FDP, new HMI and simulator	0.87	1.96	2.94	3.92	4.94	0.87	
2 Zadar multi-use centre	0.00	0.05	0.44	1.45	3.17	0.00	
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date	
Total costs of investments	0.44	-	-	-	-	0.44	
1 COOPANS baseline, new FDP, new HMI and simulator	0.44	-	-	-	-	0.44	
2 Zadar multi-use centre	-	-	-	-	-	-	
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date	
Total difference in costs of Investments	(0.43)	-	-	-	-	(0.43)	
1 COOPANS baseline, new FDP, new HMI and simulator	(0.43)	-	-	-	-	(0.43)	
2 Zadar multi-use centre	(0.00)	-	-	-	-	(0.00)	

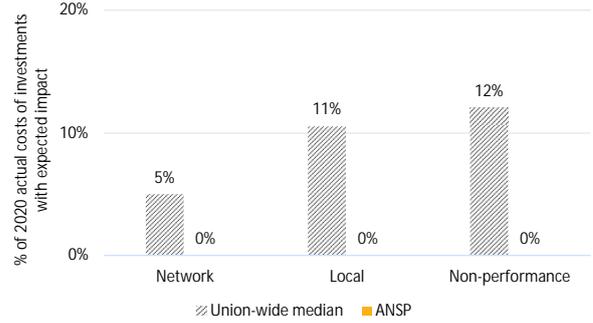
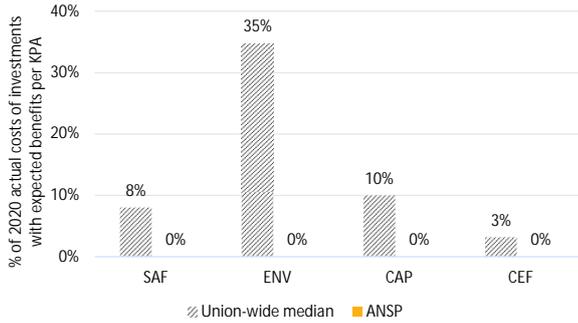


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

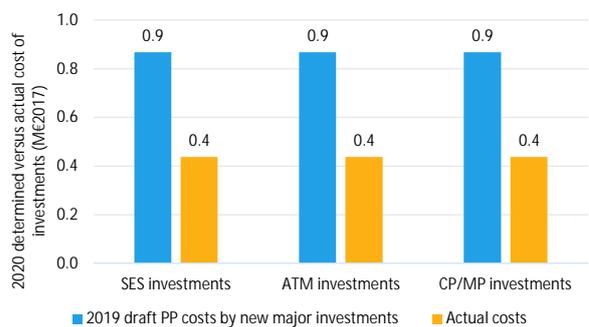
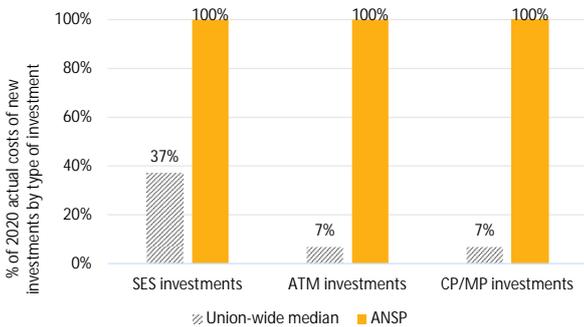
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT CROATIA | Croatia Control

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	COOPANS baseline, new FDP, new HMI and simulator				
2	Zadar multi-use centre				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	COOPANS baseline, new FDP, new HMI and simulator			
2	Zadar multi-use centre	X	X	



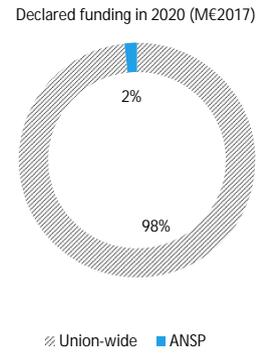
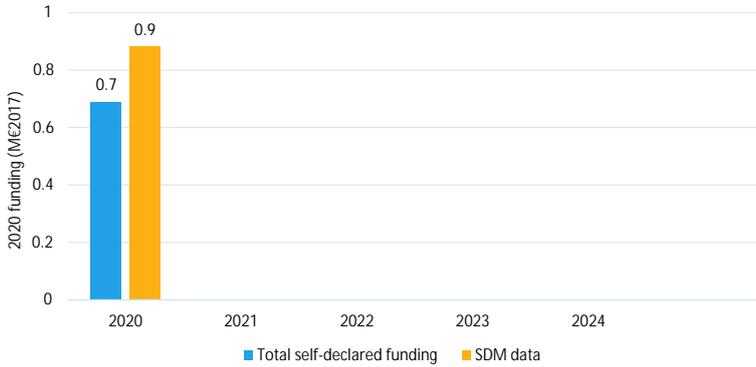
#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	COOPANS baseline, new FDP, new HMI and simulator	2024	Started	Yes	Yes	Yes	CP
2	Zadar multi-use centre	2023	Delayed	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.
 1. EOI date = Date of entry into operation
 2. CP/MP = Common Project and Master Plan
 The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.
 Croatia indicated that there are significant postponements of the investment plan and delayed new asset realisation and activation schedule compared to the 2019 draft performance plan, however, new dates of entry into operation were not provided.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) CROATIA | Croatia Control

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.69	-	-	-	-	0.69
- En route funding declared	0.69	-	-	-	-	0.69
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.69</i>	-	-	-	-	<i>0.69</i>
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>-</i>	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.19)	-	-	-	-	(0.19)
Total included in the funding declaration (reporting tables)	0.69	-	-	-	-	0.69
SDM payment	0.88	-	-	-	-	0.88



Croatia reported 0.7M€₂₀₁₇ funding in 2020, however SESAR Deployment Manager data indicates a payment of 0.9M€₂₀₁₇. The funding has been awarded for the project "CEF 2016 VCS". This project could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

5.5 Cyprus - DCAC Cyprus

Cyprus overspent 0.1M€₂₀₁₇ (+4%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Cyprus planned one new major investment for RP3, which has not started.

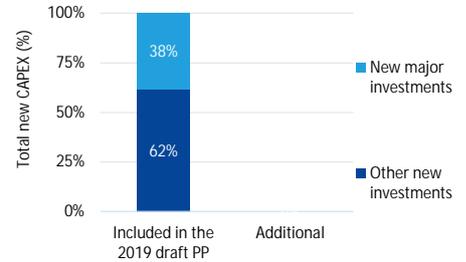
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

CYPRUS | DCAC Cyprus

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

Total CAPEX for new Investments	37.13	% of total
- New major investments (above 5M€ each)²	14.28	38%
- Included in the 2019 draft performance plan	14.28	38%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	22.85	62%
- Included in the 2019 draft performance plan	22.85	62%
- Additional	-	0%

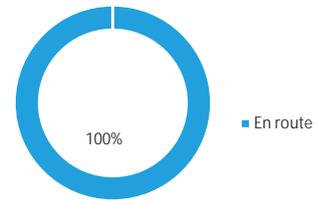


Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	14.28	% of total
- En route	14.28	100%
- Terminal	-	0%

Total CAPEX of new major investments (%)

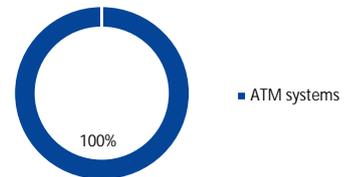


Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

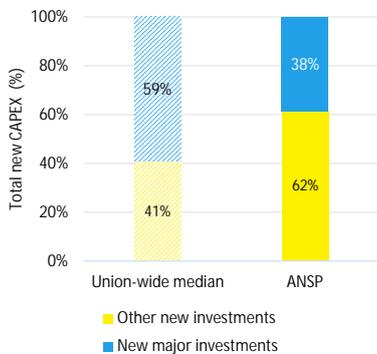
Total CAPEX for new major Investments	14.28	% of total
- ATM systems	14.28	100%
- CNS systems	-	0%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

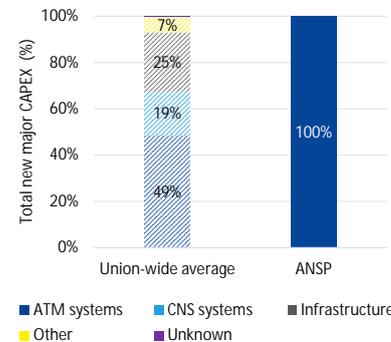
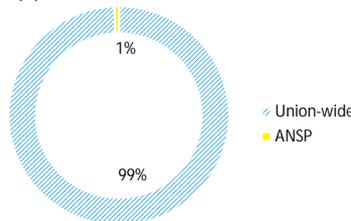


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

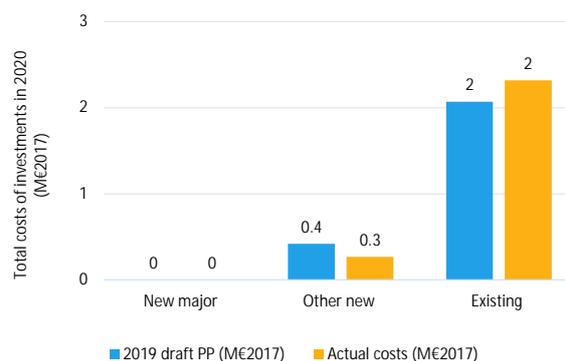
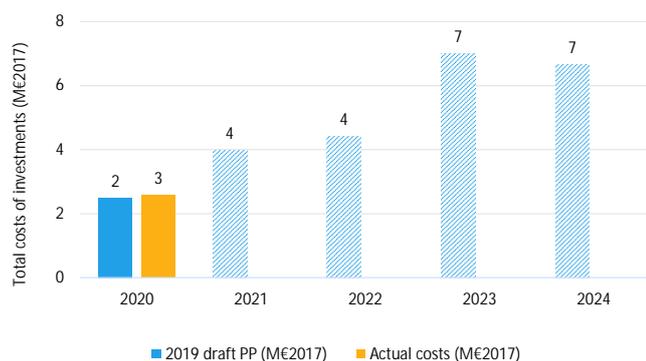
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

CYPRUS | DCAC Cyprus

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	2.49	3.98	4.41	7.01	6.66	2.49
- New major investments	-	-	-	2.28	2.19	-
- % New major investments in total costs of investments	0%	0%	0%	33%	33%	0%
- Other new investments	0.42	2.57	3.22	3.68	3.56	0.42
- % Other new investments in total costs of investments	17%	65%	73%	52%	53%	17%
- Existing investments	2.07	1.40	1.18	1.05	0.91	2.07
- % Existing investments in total costs of investments	83%	35%	27%	15%	14%	83%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	2.59	-	-	-	-	2.59
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	0.27	-	-	-	-	0.27
- % Other new investments in total costs of investments	10%	-	-	-	-	10%
- Existing investments	2.32	-	-	-	-	2.32
- % Existing investments in total costs of investments	90%	-	-	-	-	90%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	0.09	-	-	-	-	0.09
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	(0.15)	-	-	-	-	(0.15)
- % change of actual with respect to 2019 draft PP	-37%	-	-	-	-	-37%
- Existing investments	0.25	-	-	-	-	0.25
- % change of actual with respect to 2019 draft PP	12%	-	-	-	-	12%

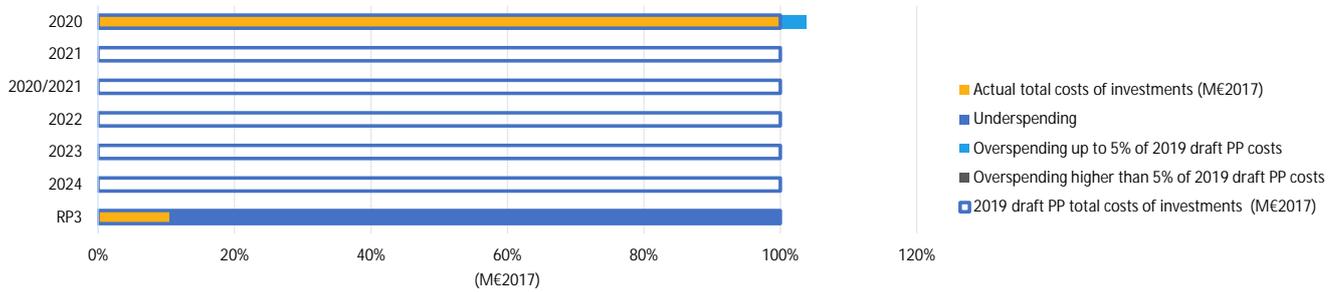


1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

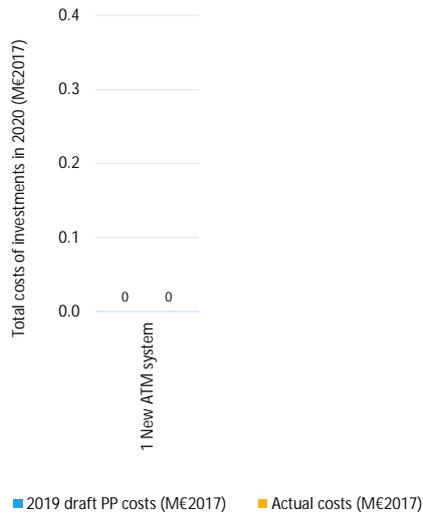
CYPRUS - En route | DCAC Cyprus

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	2.49	3.98	6.47	4.41	7.01	6.66	2.49
Depreciation	1.98	2.83	4.81	3.18	4.95	4.89	1.98
Cost of capital	0.51	1.15	1.66	1.22	2.06	1.77	0.51
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	2.59	-	-	-	-	-	2.59
Depreciation	1.90	-	-	-	-	-	1.90
Cost of capital	0.69	-	-	-	-	-	0.69
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	0.09	-	-	-	-	-	0.09
Depreciation	(0.08)	-	-	-	-	-	(0.08)
Cost of capital	0.18	-	-	-	-	-	0.18
Cost of leasing	-	-	-	-	-	-	-



Cyprus did not establish a terminal charging zone for RP3.

COSTS BY NEW MAJOR INVESTMENTS						CYPRUS DCAC Cyprus
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	-	-	-	2.28	2.19	-
1 New ATM system	-	-	-	2.28	2.19	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 New ATM system	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	-	-	-	-	-	-
1 New ATM system	-	-	-	-	-	-

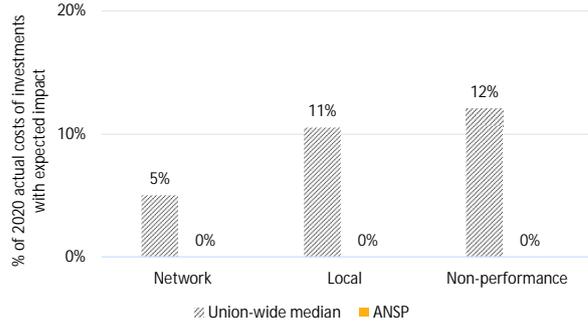
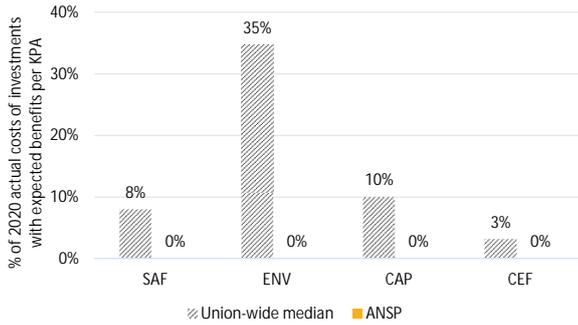


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

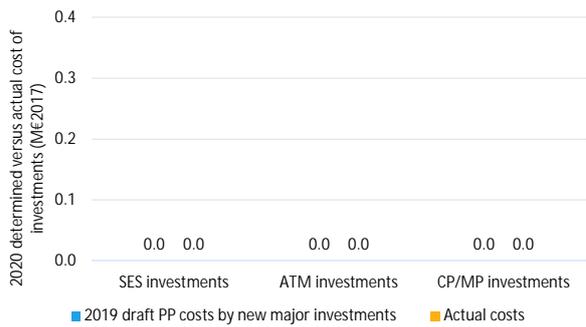
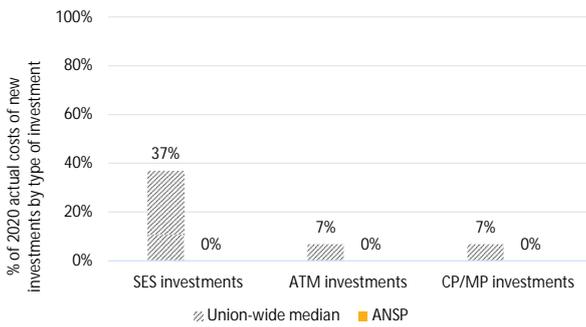
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT CYPRUS | DCAC Cyprus

# New major Investments	Expected benefit per KPA			
	SAF	ENV	CAP	CEF
1 New ATM system	X		X	(-X)

# New major Investments	Expected impact		
	Network	Local	Non-performance
1 New ATM system	X	X	X



# New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
					ATM sytem	CP/MP ²
1 New ATM system	2024	Not started	Yes	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

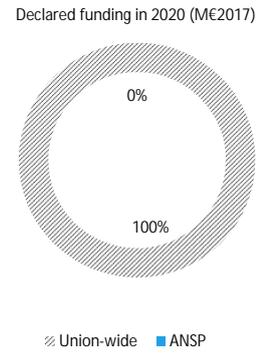
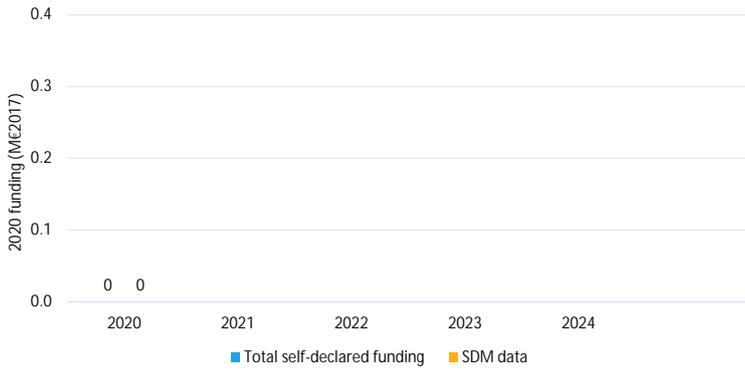
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) CYPRUS | DCAC Cyprus

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



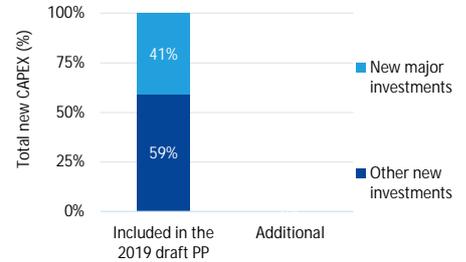
Cyprus did not declare any funding in 2020.

The Czech Republic underspent 11.3M€₂₀₁₇ (-29%) in costs related to investments in 2020 compared to the 2019 draft performance plan. The Czech Republic planned four new major investments for RP3, one of which has started, two have not started and one has been postponed.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ CZECH REPUBLIC | ANS CR

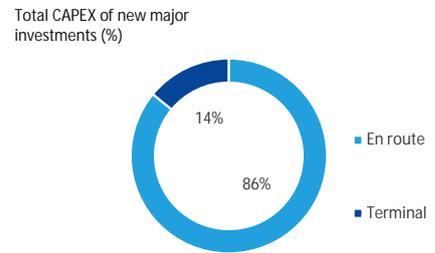
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	162.33	% of total
- New major investments (above 5M€ each)²	66.81	41%
- Included in the 2019 draft performance plan	66.81	41%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	95.52	59%
- Included in the 2019 draft performance plan	95.52	59%
- Additional	-	0%



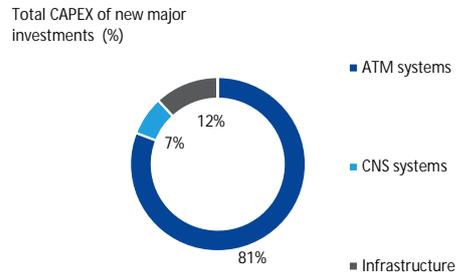
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major investments	66.81	% of total
- En route	57.42	86%
- Terminal	9.39	14%

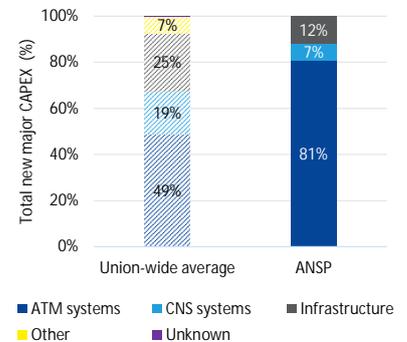
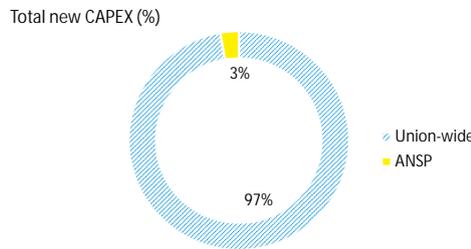
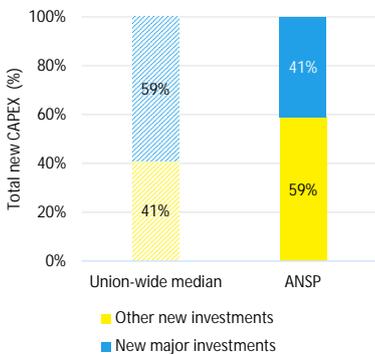


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	66.81	% of total
- ATM systems	54.03	81%
- CNS systems	4.83	7%
- Infrastructure	7.95	12%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

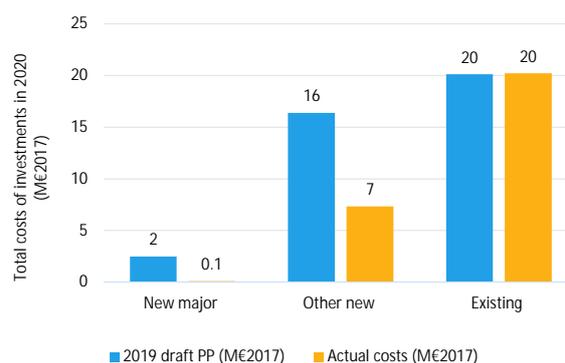
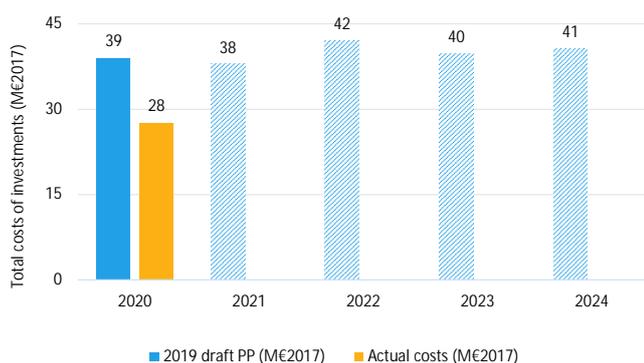
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

CZECH REPUBLIC | ANS CR

2019 draft PP costs: new and existing investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	39.00	37.92	42.06	39.74	40.66	39.00
- New major investments	2.48	6.19	10.80	17.19	21.25	2.48
- % New major investments in total costs of investments	6%	16%	26%	43%	52%	6%
- Other new investments	16.39	18.22	25.77	18.03	15.58	16.39
- % Other new investments in total costs of investments	42%	48%	61%	45%	38%	42%
- Existing investments	20.13	13.51	5.49	4.52	3.82	20.13
- % Existing investments in total costs of investments	52%	36%	13%	11%	9%	52%

Actual costs: new and existing investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	27.64	-	-	-	-	27.64
- New major investments	0.08	-	-	-	-	0.08
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	7.33	-	-	-	-	7.33
- % Other new investments in total costs of investments	27%	-	-	-	-	27%
- Existing investments	20.23	-	-	-	-	20.23
- % Existing investments in total costs of investments	73%	-	-	-	-	73%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(11.36)	-	-	-	-	(11.36)
- New major investments	(2.40)	-	-	-	-	(2.40)
- % change of actual with respect to 2019 draft PP	-97%	-	-	-	-	-97%
- Other new investments	(9.06)	-	-	-	-	(9.06)
- % change of actual with respect to 2019 draft PP	-55%	-	-	-	-	-55%
- Existing investments	0.10	-	-	-	-	0.10
- % change of actual with respect to 2019 draft PP	0%	-	-	-	-	0%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

CZECH REPUBLIC - En route | ANS CR

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	32.67	31.01	63.68	35.35	32.17	33.27	32.67
Depreciation	23.81	22.00	45.81	26.34	23.42	24.77	23.81
Cost of capital	8.86	9.01	17.87	9.00	8.75	8.51	8.86
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	22.64	-	-	-	-	-	22.64
Depreciation	16.67	-	-	-	-	-	16.67
Cost of capital	5.97	-	-	-	-	-	5.97
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(10.03)	-	-	-	-	-	(10.03)
Depreciation	(7.13)	-	-	-	-	-	(7.13)
Cost of capital	(2.90)	-	-	-	-	-	(2.90)
Cost of leasing	-	-	-	-	-	-	-



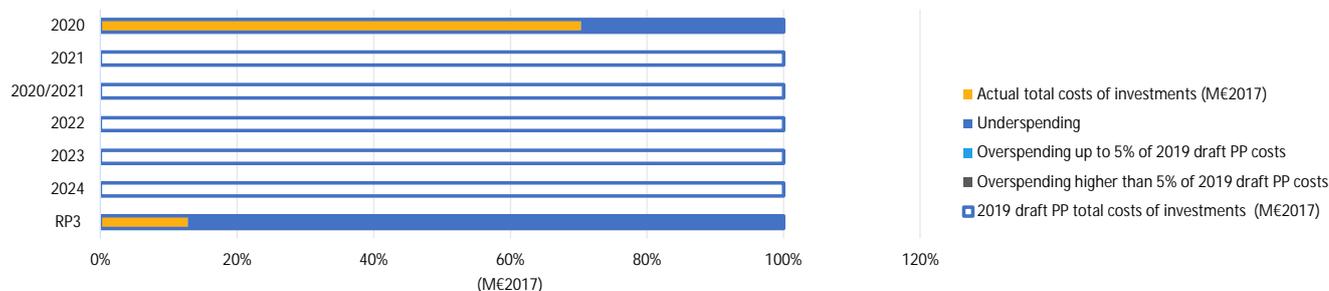
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

CZECH REPUBLIC - Terminal | ANS CR

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	6.33	6.91	13.23	6.71	7.56	7.38	6.33
Depreciation	4.50	5.03	9.54	4.78	5.58	5.37	4.50
Cost of capital	1.82	1.87	3.70	1.93	1.98	2.01	1.82
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	4.45	-	-	-	-	-	4.45
Depreciation	4.45	-	-	-	-	-	4.45
Cost of capital	-	-	-	-	-	-	-
Cost of leasing	-	-	-	-	-	-	-

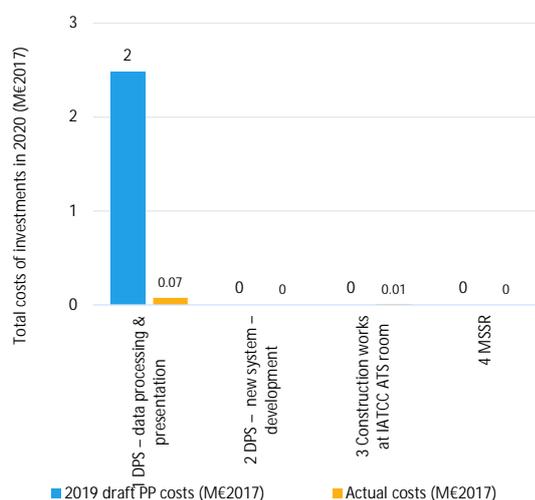
Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.88)	-	-	-	-	-	(1.88)
Depreciation	(0.05)	-	-	-	-	-	(0.05)
Cost of capital	(1.82)	-	-	-	-	-	(1.82)
Cost of leasing	-	-	-	-	-	-	-



COSTS BY NEW MAJOR INVESTMENTS

CZECH REPUBLIC | ANS CR

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	2.48	6.19	10.80	17.19	21.25	2.48
1 DPS – data processing and presentation	2.48	6.07	9.81	15.42	18.17	2.48
2 DPS – new system – development	-	-	0.65	1.31	1.94	-
3 Construction works at IATCC ATS room	-	0.12	0.34	0.46	0.69	-
4 MSSR	-	-	-	-	0.45	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.08	-	-	-	-	0.08
1 DPS – data processing and presentation	0.07	-	-	-	-	0.07
2 DPS – new system – development	-	-	-	-	-	-
3 Construction works at IATCC ATS room	0.01	-	-	-	-	0.01
4 MSSR	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(2.40)	-	-	-	-	(2.40)
1 DPS – data processing and presentation	(2.40)	-	-	-	-	(2.40)
2 DPS – new system – development	-	-	-	-	-	-
3 Construction works at IATCC ATS room	0.01	-	-	-	-	0.01
4 MSSR	-	-	-	-	-	-

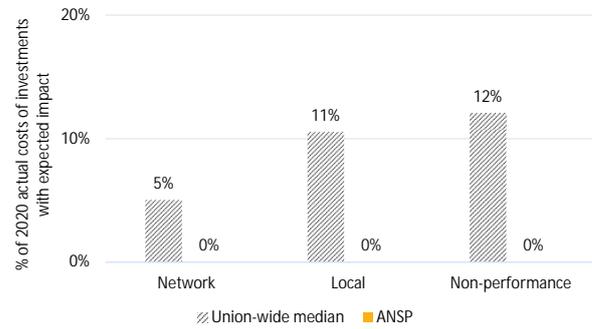
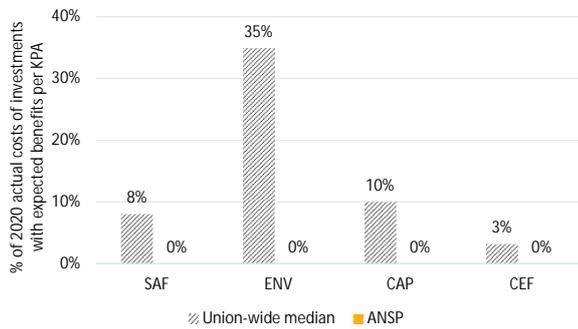


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

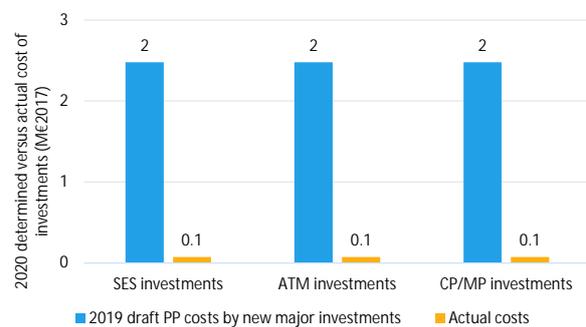
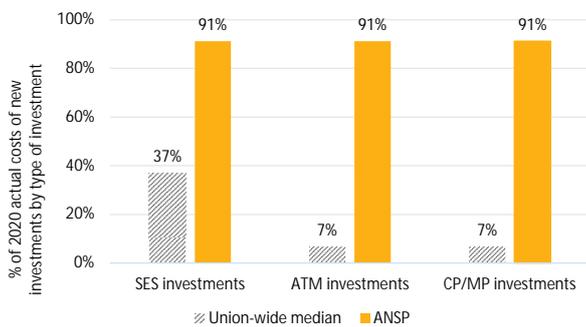
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT CZECH REPUBLIC | ANS CR

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	DPS – data processing and presentation				
2	DPS – new system – development				
3	Construction works at IATCC ATS room				
4	MSSR				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	DPS – data processing and presentation			
2	DPS – new system – development			
3	Construction works at IATCC ATS room			
4	MSSR			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	CP/MP ²
1	DPS – data processing and presentation	2020 - 2025	Started	Yes	No	Yes	MP
2	DPS – new system – development	2021 - 2024	Not started	Yes	No	Yes	MP
3	Construction works at IATCC ATS room	2020 - 2024	Not started	No	No	No	-
4	MSSR	2024 - 2025	Postponed	Yes	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

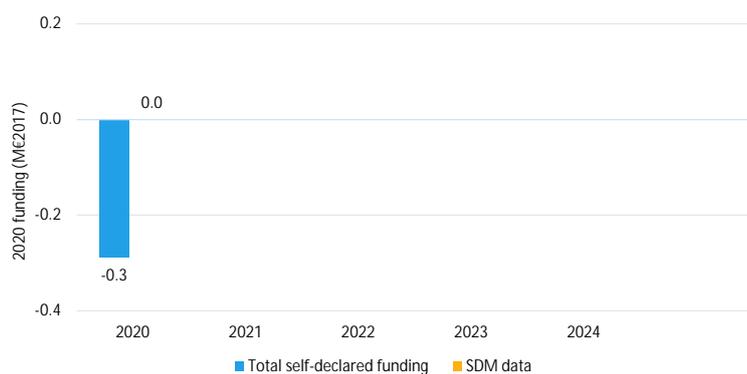
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

The Czech Republic indicated that the investment "MSSR" was put on hold in order to mitigate the costs of ANS CR during the pandemic and that the whole project has been postponed to RP4 (in 2025).

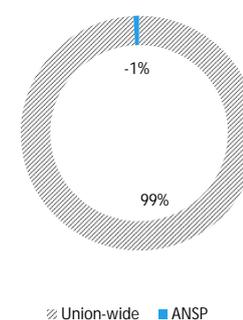
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

CZECH REPUBLIC | ANS CR

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	(0.29)	-	-	-	-	(0.29)
- En route funding declared	(0.29)	-	-	-	-	(0.29)
<i>En route funding that could not be assigned to a specific investment</i>	<i>(0.29)</i>	-	-	-	-	<i>(0.29)</i>
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>-</i>	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.29)	-	-	-	-	(0.29)
Total included in the funding declaration (reporting tables)	(0.29)	-	-	-	-	(0.29)
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



The Czech Republic reported that the amounts that have been reimbursed in 2020 exceed the amounts received, therefore making the total funding negative. The amounts received and/or reimbursed correspond to nine different projects. These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

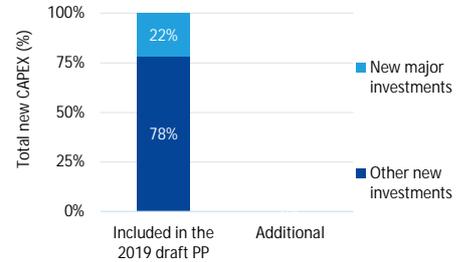
5.7 Denmark - NAVIAIR

Denmark overspent 0.1M€₂₀₁₇ (+0.3%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Denmark planned two new major investments for RP3, neither of which has started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ DENMARK | NAVIAIR

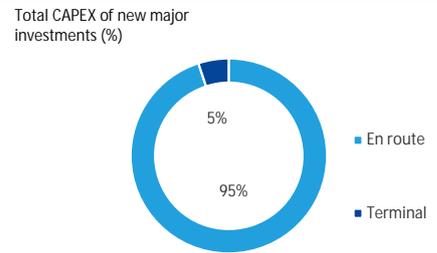
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	79.81	% of total
- New major investments (above 5M€ each)²	17.51	22%
- Included in the 2019 draft performance plan	17.51	22%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	62.29	78%
- Included in the 2019 draft performance plan	62.29	78%
- Additional	-	0%



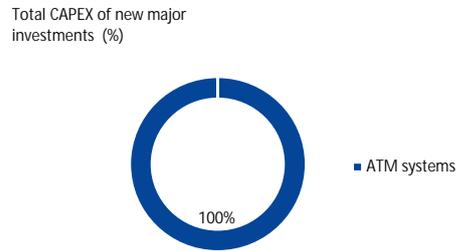
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	17.51	% of total
- En route	16.64	95%
- Terminal	0.88	5%

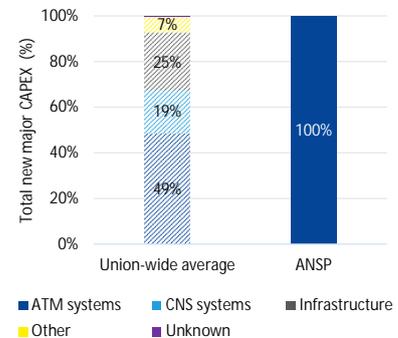
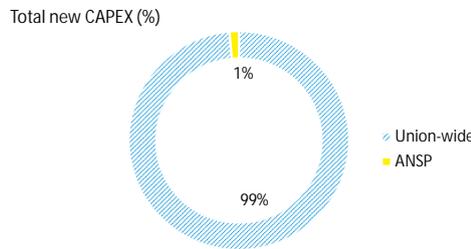
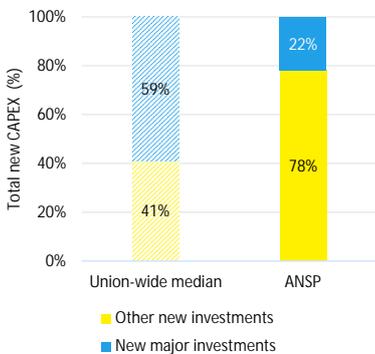


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	17.51	% of total
- ATM systems	17.51	100%
- CNS systems	-	0%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

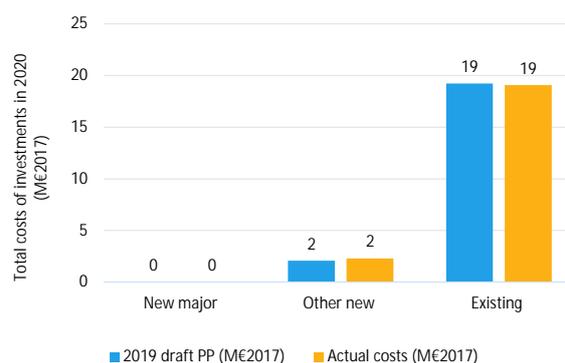
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

DENMARK | NAVIAIR

2019 draft PP costs: new and existing investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	21.30	22.44	23.63	24.19	25.52	21.30
- New major investments	-	-	0.23	0.72	1.42	-
- % New major investments in total costs of investments	0%	0%	1%	3%	6%	0%
- Other new investments	2.06	3.94	5.57	6.55	8.70	2.06
- % Other new investments in total costs of investments	10%	18%	24%	27%	34%	10%
- Existing investments	19.23	18.51	17.82	16.93	15.40	19.23
- % Existing investments in total costs of investments	90%	82%	75%	70%	60%	90%

Actual costs: new and existing investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	21.36	-	-	-	-	21.36
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	2.28	-	-	-	-	2.28
- % Other new investments in total costs of investments	11%	-	-	-	-	11%
- Existing investments	19.08	-	-	-	-	19.08
- % Existing investments in total costs of investments	89%	-	-	-	-	89%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	0.06	-	-	-	-	0.06
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	0.22	-	-	-	-	0.22
- % change of actual with respect to 2019 draft PP	10%	-	-	-	-	10%
- Existing investments	(0.15)	-	-	-	-	(0.15)
- % change of actual with respect to 2019 draft PP	-1%	-	-	-	-	-1%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

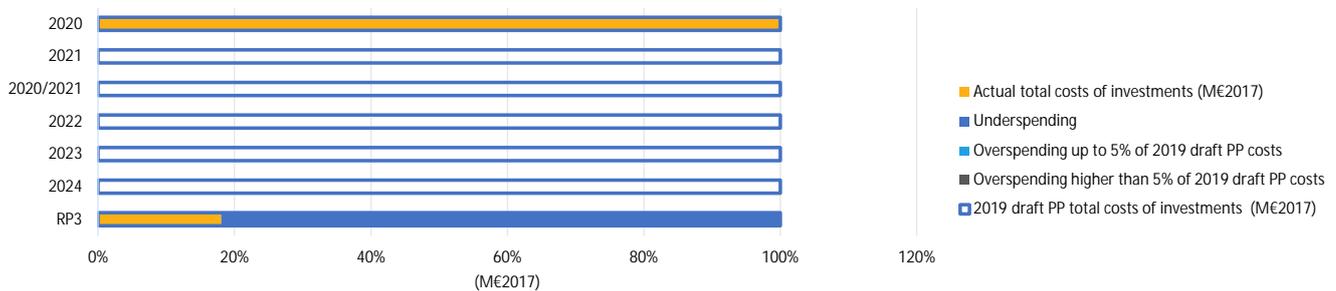
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

DENMARK - En route | NAVIAIR

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	17.64	18.64	36.28	19.70	20.33	21.45	17.64
Depreciation	11.65	12.33	23.99	13.28	13.75	14.71	11.65
Cost of capital	5.99	6.30	12.29	6.41	6.58	6.74	5.99
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	17.64	-	-	-	-	-	17.64
Depreciation	11.81	-	-	-	-	-	11.81
Cost of capital	5.82	-	-	-	-	-	5.82
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.00)	-	-	-	-	-	(0.00)
Depreciation	0.16	-	-	-	-	-	0.16
Cost of capital	(0.16)	-	-	-	-	-	(0.16)
Cost of leasing	-	-	-	-	-	-	-



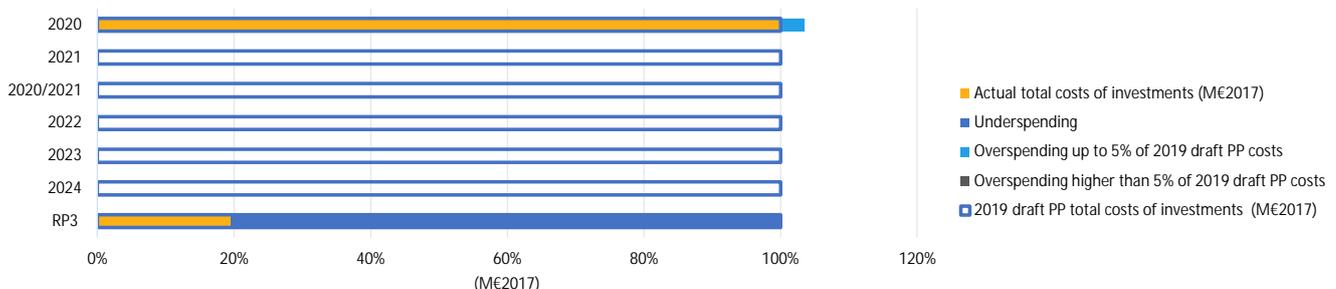
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

DENMARK - Terminal | NAVIAIR

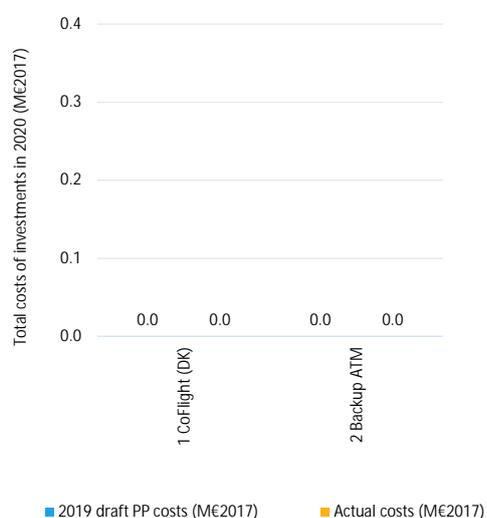
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	3.66	3.81	7.46	3.93	3.86	4.07	3.66
Depreciation	1.88	1.94	3.82	2.04	1.91	2.08	1.88
Cost of capital	1.77	1.87	3.64	1.90	1.94	1.99	1.77
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	3.78	-	-	-	-	-	3.78
Depreciation	2.07	-	-	-	-	-	2.07
Cost of capital	1.72	-	-	-	-	-	1.72
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	0.13	-	-	-	-	-	0.13
Depreciation	0.19	-	-	-	-	-	0.19
Cost of capital	(0.06)	-	-	-	-	-	(0.06)
Cost of leasing	-	-	-	-	-	-	-



COSTS BY NEW MAJOR INVESTMENTS						DENMARK NAVIAIR
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	-	-	0.23	0.72	1.42	-
1 CoFlight (DK)	-	-	0.23	0.72	1.09	-
2 Backup ATM	-	-	-	-	0.33	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 CoFlight (DK)	-	-	-	-	-	-
2 Backup ATM	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	-	-	-	-	-	-
1 CoFlight (DK)	-	-	-	-	-	-
2 Backup ATM	-	-	-	-	-	-

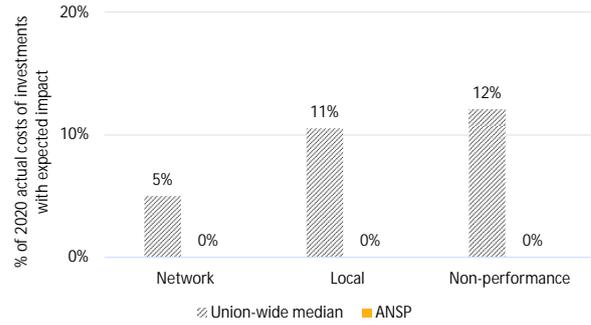
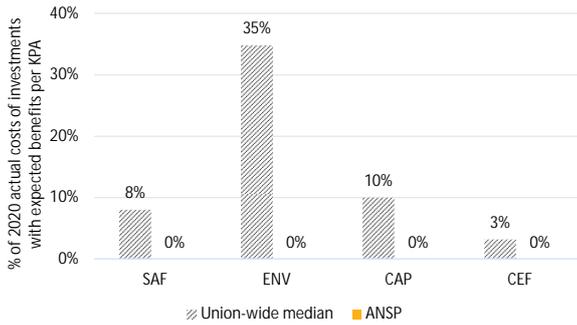


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

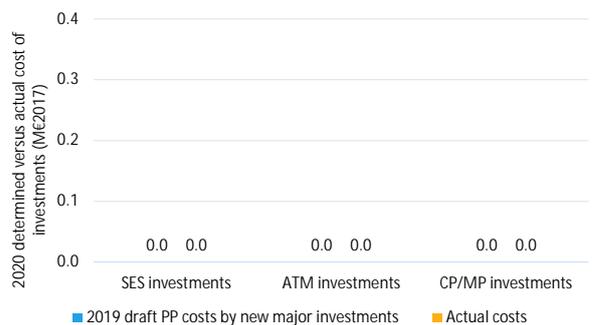
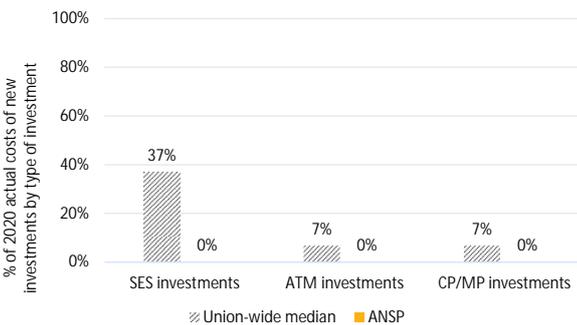
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT DENMARK | NAVIAIR

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	CoFlight (DK)				
2	Backup ATM				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	CoFlight (DK)			
2	Backup ATM	X	X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	CoFlight (DK)	01/07/2022	Not started	Yes	Yes	Yes	CP
2	Backup ATM	01/07/2024	Not started	No	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

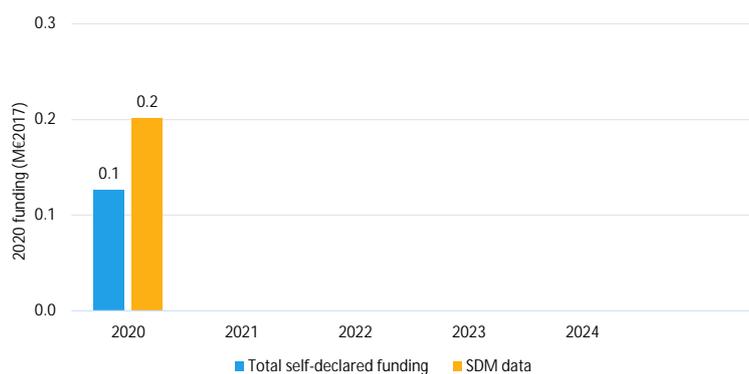
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

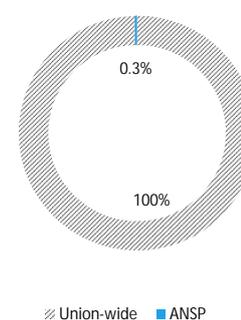
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) DENMARK | NAVIAIR

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.13	-	-	-	-	0.13
- En route funding declared	0.13	-	-	-	-	0.13
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.13</i>	-	-	-	-	<i>0.13</i>
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>-</i>	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.08)	-	-	-	-	(0.08)
Total included in the funding declaration (reporting tables)	0.13	-	-	-	-	0.13
SDM payment	0.20	-	-	-	-	0.20



Declared funding in 2020 (M€2017)



The amounts received and/or reimbursed by Denmark correspond to three different projects "JPO", "Synchronised PBN Implementation" and "European Deployment Roadmap for Flight Object Interoperability". These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

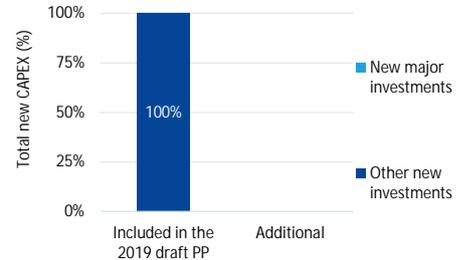
5.8 Estonia - EANS

Estonia underspent 2.6M€₂₀₁₇ (-45%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Estonia did not plan any new major investment for RP3.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ ESTONIA | EANS

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	26.04	% of total
- New major investments (above 5M€ each) ²	-	0%
- Included in the 2019 draft performance plan	-	0%
- Additional ³	-	0%
- Other new Investments (below 5M€ each) ⁴	26.04	100%
- Included in the 2019 draft performance plan	26.04	100%
- Additional	-	0%



Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	N/A	% of total
- En route	N/A	N/A
- Terminal	N/A	N/A

Total CAPEX of new major investments (%)

Not applicable

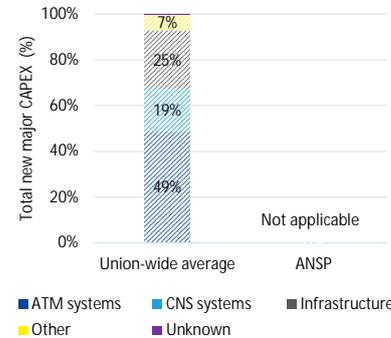
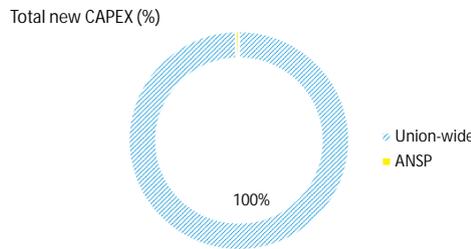
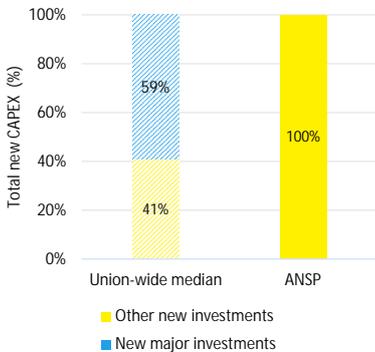
Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	-	% of total
- ATM systems	-	N/A
- CNS systems	-	N/A
- Infrastructure	-	N/A
- Other	-	N/A
- Unknown	-	N/A

Total CAPEX of new major investments (%)

Not applicable

New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

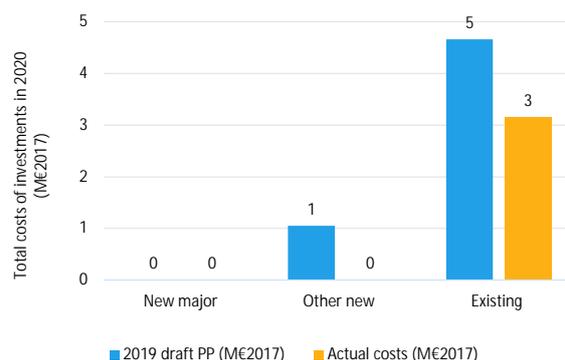
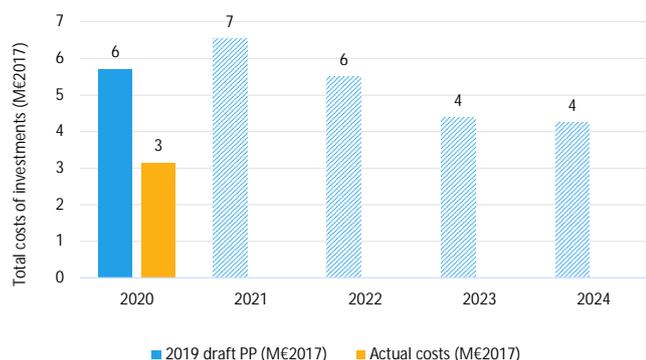
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ESTONIA | EANS

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	5.71	6.55	5.51	4.39	4.26	5.71
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	0%	0%	0%	0%	0%
- Other new investments	1.05	2.08	2.58	2.81	3.10	1.05
- % <i>Other new investments in total costs of investments</i>	18%	32%	47%	64%	73%	18%
- Existing investments	4.66	4.47	2.93	1.58	1.16	4.66
- % <i>Existing investments in total costs of investments</i>	82%	68%	53%	36%	27%	82%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	3.15	-	-	-	-	3.15
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	-	-	-	-	0%
- Other new investments	-	-	-	-	-	-
- % <i>Other new investments in total costs of investments</i>	0%	-	-	-	-	0%
- Existing investments	3.15	-	-	-	-	3.15
- % <i>Existing investments in total costs of investments</i>	100%	-	-	-	-	100%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(2.56)	-	-	-	-	(2.56)
- New major investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Other new investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Existing investments	(1.51)	-	-	-	-	(1.51)
- % <i>change of actual with respect to 2019 draft PP</i>	-32%	-	-	-	-	-32%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

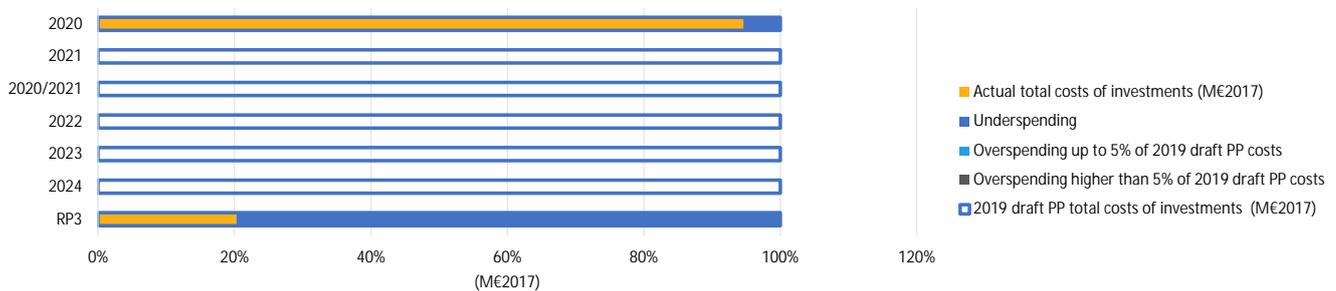
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ESTONIA - En route | EANS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	5.96	6.75	12.70	5.75	4.78	4.55	5.96
Depreciation	4.81	5.52	10.32	4.64	3.70	3.58	4.81
Cost of capital	1.15	1.23	2.38	1.11	1.08	0.96	1.15
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	5.63	-	-	-	-	-	5.63
Depreciation	4.67	-	-	-	-	-	4.67
Cost of capital	0.97	-	-	-	-	-	0.97
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.32)	-	-	-	-	-	(0.32)
Depreciation	(0.14)	-	-	-	-	-	(0.14)
Cost of capital	(0.18)	-	-	-	-	-	(0.18)
Cost of leasing	-	-	-	-	-	-	-



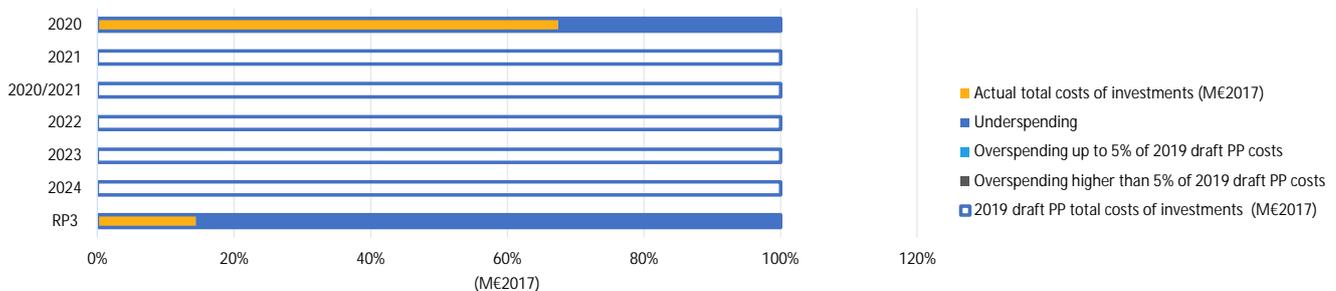
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ESTONIA - Terminal | EANS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	1.17	1.32	2.50	1.13	0.95	0.91	1.17
Depreciation	0.90	1.04	1.94	0.87	0.70	0.68	0.90
Cost of capital	0.27	0.29	0.56	0.26	0.26	0.23	0.27
Cost of leasing	-	-	-	-	-	-	-

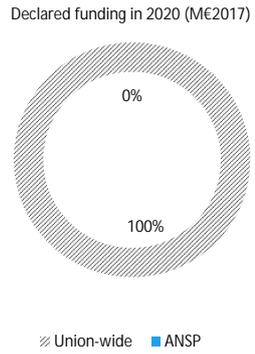
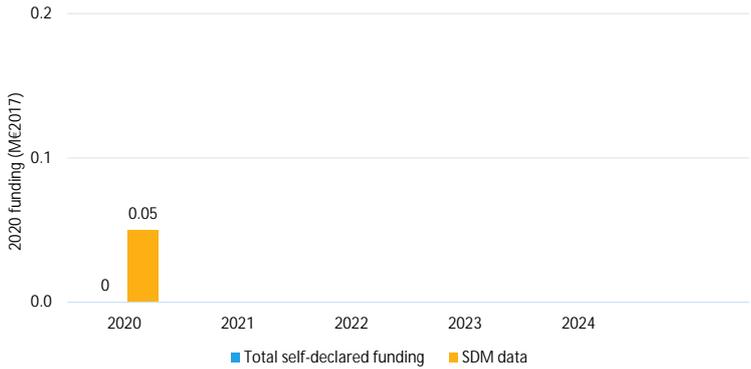
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	0.79	-	-	-	-	-	0.79
Depreciation	0.60	-	-	-	-	-	0.60
Cost of capital	0.19	-	-	-	-	-	0.19
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.38)	-	-	-	-	-	(0.38)
Depreciation	(0.30)	-	-	-	-	-	(0.30)
Cost of capital	(0.08)	-	-	-	-	-	(0.08)
Cost of leasing	-	-	-	-	-	-	-



PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) ESTONIA | EANS

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.05)	-	-	-	-	(0.05)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	0.05	-	-	-	-	0.05



Estonia did not report any funding in 2020, however SESAR Deployment Manager data indicates a payment of 0.05M€₂₀₁₇.

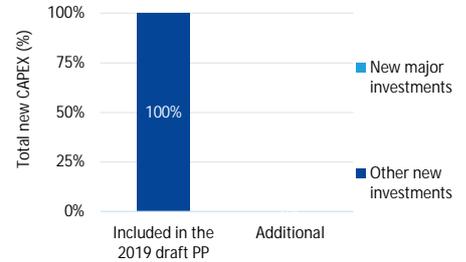
5.9 Finland - ANS Finland

Finland underspent 1.4M€₂₀₁₇ (-19%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Finland did not plan any new major investment for RP3.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ FINLAND | ANS Finland

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	55.17	% of total
- New major investments (above 5M€ each)²	-	0%
- Included in the 2019 draft performance plan	-	0%
- Additional ³	-	0%
- Other new Investments (below 5M€ each)⁴	55.17	100%
- Included in the 2019 draft performance plan	55.17	100%
- Additional	-	0%



Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	N/A	% of total
- En route	N/A	N/A
- Terminal	N/A	N/A

Total CAPEX of new major investments (%)

Not applicable

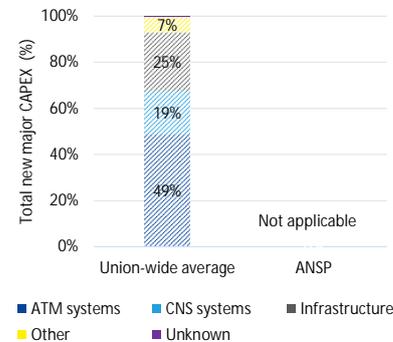
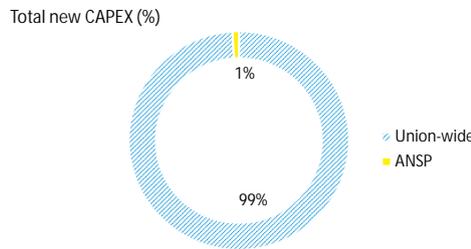
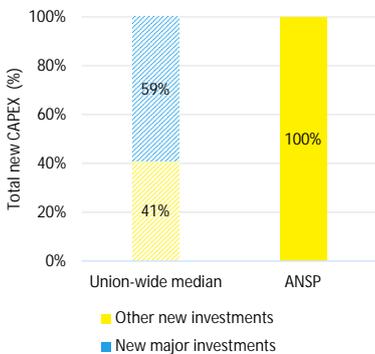
Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	-	% of total
- ATM systems	-	N/A
- CNS systems	-	N/A
- Infrastructure	-	N/A
- Other	-	N/A
- Unknown	-	N/A

Total CAPEX of new major investments (%)

Not applicable

New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

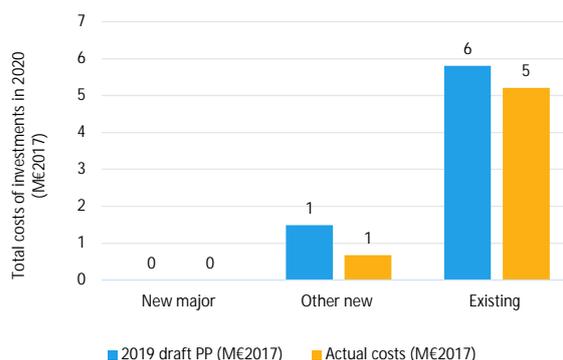
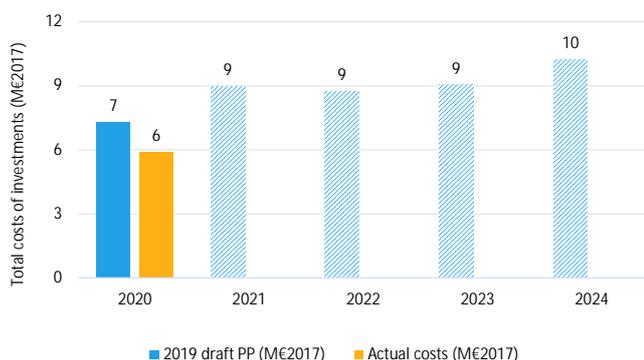
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

FINLAND | ANS Finland

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	7.30	8.97	8.74	9.03	10.25	7.30
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	0%	0%	0%	0%	0%
- Other new investments	1.49	3.49	5.59	6.69	8.12	1.49
- % Other new investments in total costs of investments	20%	39%	64%	74%	79%	20%
- Existing investments	5.81	5.49	3.15	2.34	2.13	5.81
- % Existing investments in total costs of investments	80%	61%	36%	26%	21%	80%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	5.89	-	-	-	-	5.89
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	0.68	-	-	-	-	0.68
- % Other new investments in total costs of investments	12%	-	-	-	-	12%
- Existing investments	5.21	-	-	-	-	5.21
- % Existing investments in total costs of investments	88%	-	-	-	-	88%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.40)	-	-	-	-	(1.40)
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	(0.81)	-	-	-	-	(0.81)
- % change of actual with respect to 2019 draft PP	-54%	-	-	-	-	-54%
- Existing investments	(0.60)	-	-	-	-	(0.60)
- % change of actual with respect to 2019 draft PP	-10%	-	-	-	-	-10%



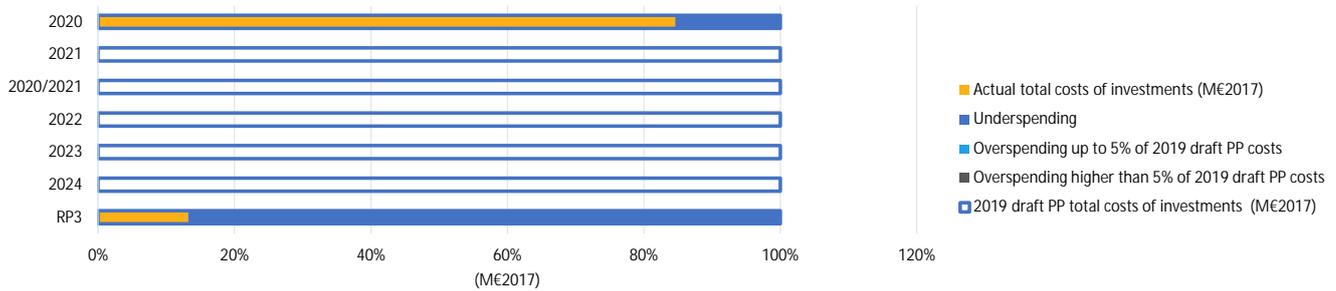
1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN FINLAND - En route | ANS Finland

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	5.49	6.93	12.42	6.95	7.35	8.55	5.49
Depreciation	4.01	4.96	8.97	4.65	4.80	5.85	4.01
Cost of capital	0.98	1.27	2.25	1.46	1.63	1.75	0.98
Cost of leasing	0.50	0.70	1.20	0.84	0.92	0.96	0.50

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	4.65	-	-	-	-	-	4.65
Depreciation	3.38	-	-	-	-	-	3.38
Cost of capital	0.61	-	-	-	-	-	0.61
Cost of leasing	0.66	-	-	-	-	-	0.66

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.85)	-	-	-	-	-	(0.85)
Depreciation	(0.63)	-	-	-	-	-	(0.63)
Cost of capital	(0.38)	-	-	-	-	-	(0.38)
Cost of leasing	0.16	-	-	-	-	-	0.16

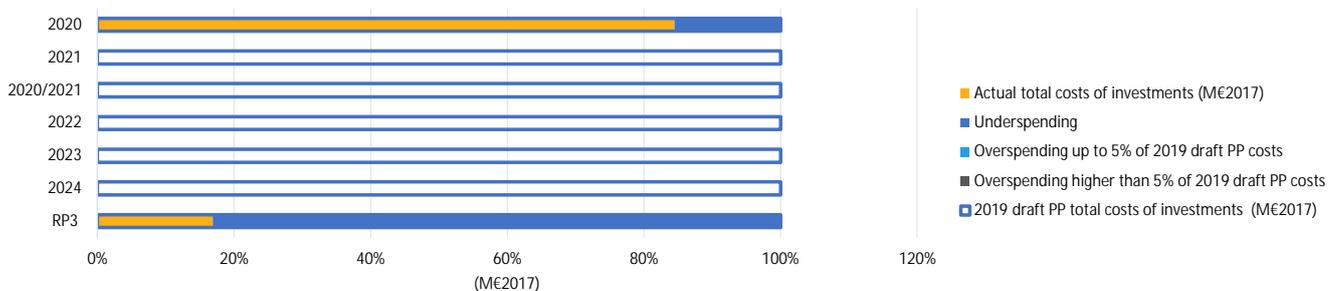


COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN FINLAND - Terminal | ANS Finland

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	1.80	2.04	3.85	1.79	1.68	1.70	1.80
Depreciation	0.69	0.72	1.41	0.35	0.25	0.25	0.69
Cost of capital	0.12	0.13	0.25	0.10	0.09	0.08	0.12
Cost of leasing	0.99	1.20	2.19	1.34	1.34	1.37	0.99

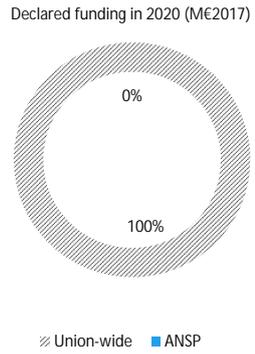
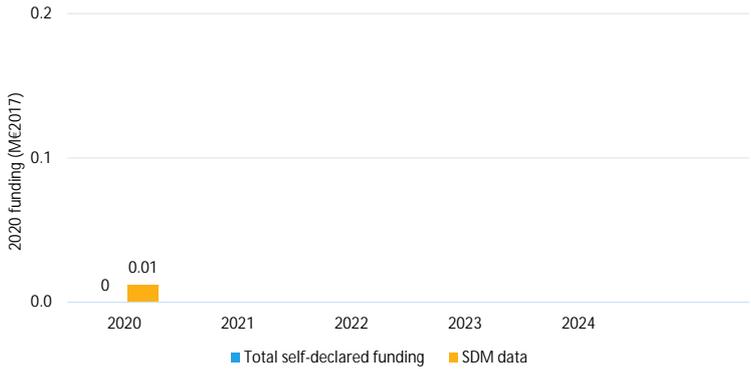
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.52	-	-	-	-	-	1.52
Depreciation	0.62	-	-	-	-	-	0.62
Cost of capital	0.12	-	-	-	-	-	0.12
Cost of leasing	0.78	-	-	-	-	-	0.78

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.28)	-	-	-	-	-	(0.28)
Depreciation	(0.07)	-	-	-	-	-	(0.07)
Cost of capital	(0.01)	-	-	-	-	-	(0.01)
Cost of leasing	(0.21)	-	-	-	-	-	(0.21)



PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) FINLAND | ANS Finland

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.01)	-	-	-	-	(0.01)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	0.01	-	-	-	-	0.01



Finland did not report any funding in 2020, however SESAR Deployment Manager data indicates a payment of 0.01M€₂₀₁₇.

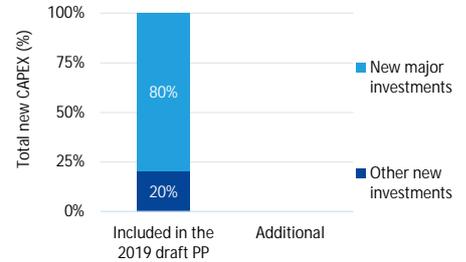
5.10 France - DSNA

France underspent 20.5M€₂₀₁₇ (-6%) in costs related to investments in 2020 compared to the 2019 draft performance plan. The underspending reported by France in the reporting tables (24.8M€₂₀₁₇) is higher due to different accounting rules being applied in the monitoring report and reporting tables to operating costs related to CAPEX called "T3 Technic". France planned eight new major investments for RP3, all of which have started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ FRANCE | DSNA

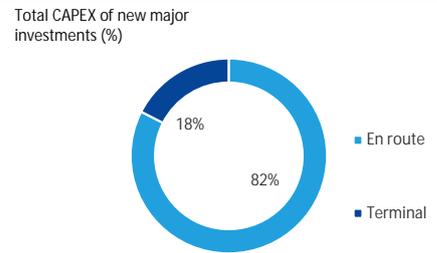
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	1,523.53	% of total
- New major investments (above 5M€ each)²	1,213.66	80%
- Included in the 2019 draft performance plan	1,213.66	80%
- Additional ³	-	0%
- Other new Investments (below 5M€ each)⁴	309.87	20%
- Included in the 2019 draft performance plan	309.87	20%
- Additional	-	0%



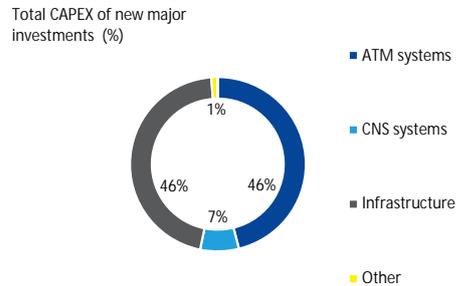
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	1,213.66	% of total
- En route	1,001.06	82%
- Terminal	212.60	18%

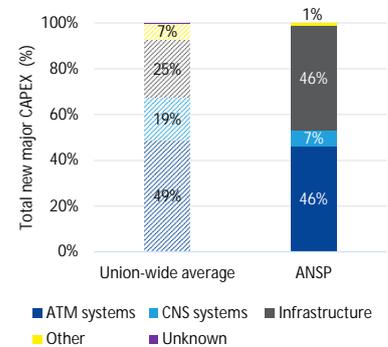
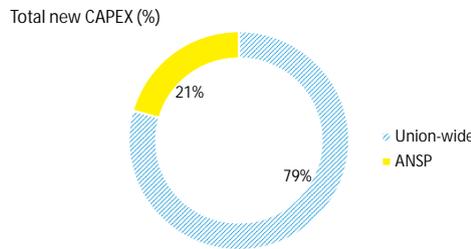
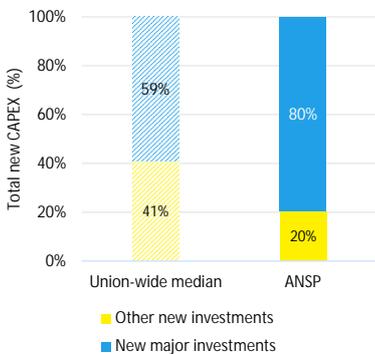


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	1,213.66	% of total
- ATM systems	560.29	46%
- CNS systems	85.87	7%
- Infrastructure	552.77	46%
- Other	14.73	1%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

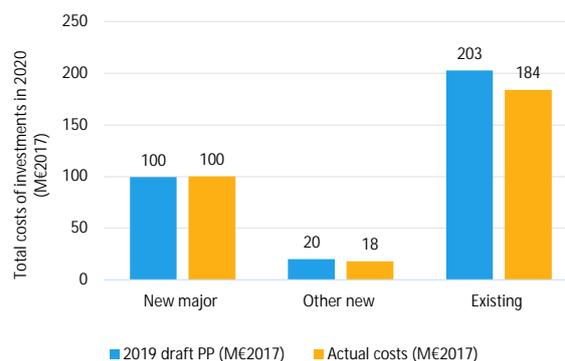
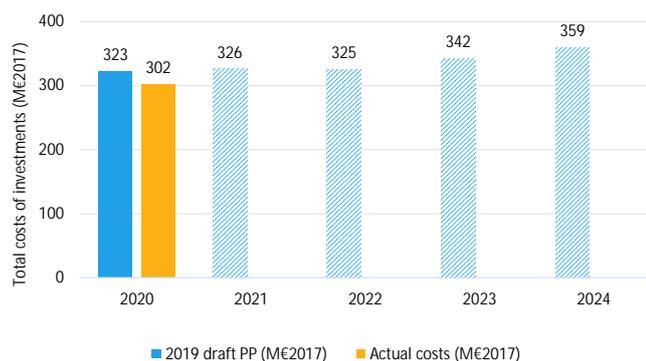
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

FRANCE | DSNA

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	322.50	326.07	325.11	342.18	359.28	322.50
- New major investments	99.55	122.54	151.82	181.67	203.48	99.55
- % New major investments in total costs of investments	31%	38%	47%	53%	57%	31%
- Other new investments	20.22	24.75	31.91	37.78	44.74	20.22
- % Other new investments in total costs of investments	6%	8%	10%	11%	12%	6%
- Existing investments	202.73	178.78	141.37	122.73	111.06	202.73
- % Existing investments in total costs of investments	63%	55%	43%	36%	31%	63%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	302.02	-	-	-	-	302.02
- New major investments	100.17	-	-	-	-	100.17
- % New major investments in total costs of investments	33%	-	-	-	-	33%
- Other new investments	18.03	-	-	-	-	18.03
- % Other new investments in total costs of investments	6%	-	-	-	-	6%
- Existing investments	183.83	-	-	-	-	183.83
- % Existing investments in total costs of investments	61%	-	-	-	-	61%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(20.48)	-	-	-	-	(20.48)
- New major investments	0.62	-	-	-	-	0.62
- % change of actual with respect to 2019 draft PP	1%	-	-	-	-	1%
- Other new investments	(2.20)	-	-	-	-	(2.20)
- % change of actual with respect to 2019 draft PP	-11%	-	-	-	-	-11%
- Existing investments	(18.91)	-	-	-	-	(18.91)
- % change of actual with respect to 2019 draft PP	-9%	-	-	-	-	-9%

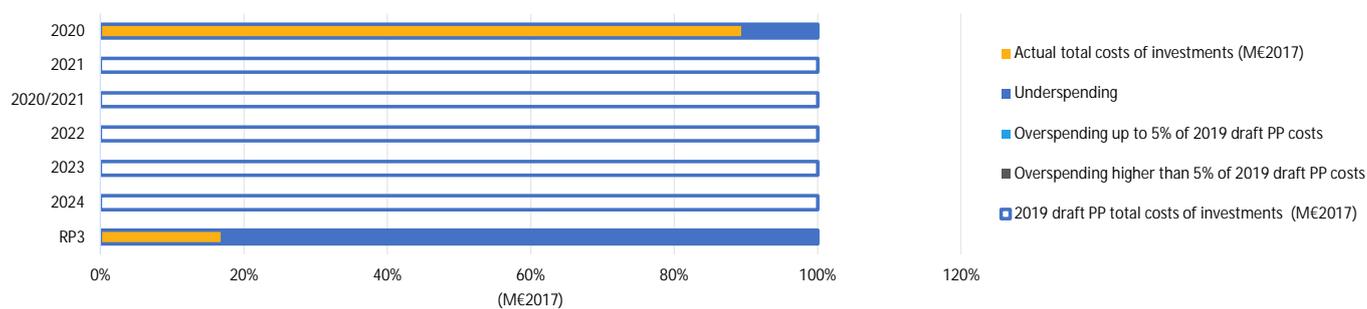


1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

FRANCE - En route | DSNA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	196.66	205.06	401.72	209.16	213.24	224.96	196.66
Depreciation	153.56	161.23	314.79	164.66	168.09	179.61	153.56
Cost of capital	43.10	43.83	86.93	44.50	45.15	45.34	43.10
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	175.68	-	-	-	-	-	175.68
Depreciation	132.12	-	-	-	-	-	132.12
Cost of capital	43.56	-	-	-	-	-	43.56
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(20.98)	-	-	-	-	-	(20.98)
Depreciation	(21.44)	-	-	-	-	-	(21.44)
Cost of capital	0.46	-	-	-	-	-	0.46
Cost of leasing	-	-	-	-	-	-	-

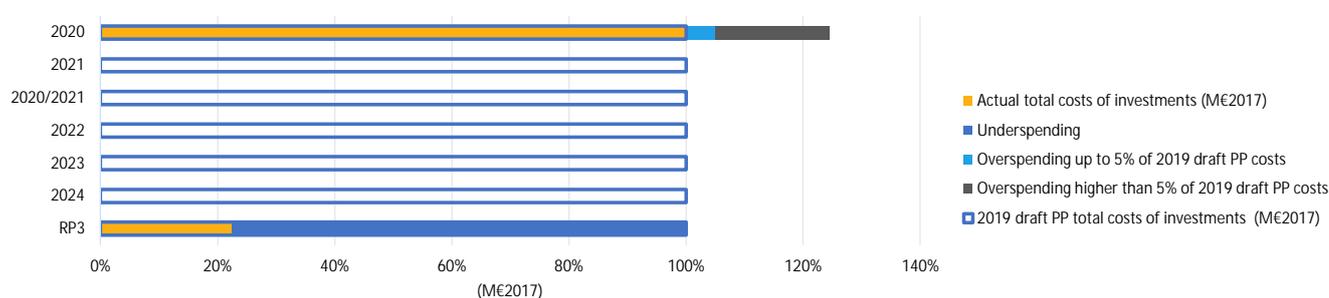


1. The data on costs of investments is based on the data submitted in the reporting tables.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

FRANCE TCZ 1 - Terminal | DSNA

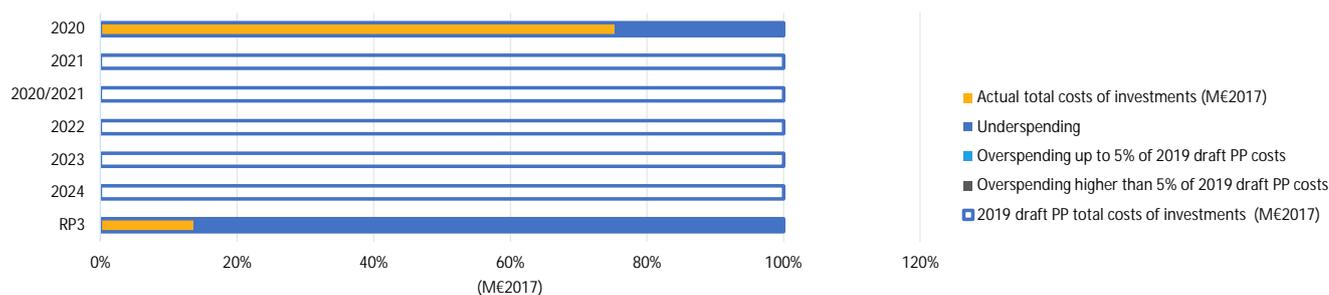
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	8.12	8.58	16.70	8.72	9.42	10.23	8.12
Depreciation	6.59	6.89	13.48	6.89	7.45	8.13	6.59
Cost of capital	1.53	1.69	3.22	1.83	1.97	2.10	1.53
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	10.12	-	-	-	-	-	10.12
Depreciation	9.10	-	-	-	-	-	9.10
Cost of capital	1.02	-	-	-	-	-	1.02
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	1.99	-	-	-	-	-	1.99
Depreciation	2.51	-	-	-	-	-	2.51
Cost of capital	(0.52)	-	-	-	-	-	(0.52)
Cost of leasing	-	-	-	-	-	-	-



COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

FRANCE TCZ 2 - Terminal | DSNA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	23.43	24.54	47.97	25.19	27.28	29.30	23.43
Depreciation	18.14	18.83	36.97	19.00	20.73	22.51	18.14
Cost of capital	5.29	5.71	11.00	6.19	6.56	6.80	5.29
Cost of leasing	-	-	-	-	-	-	-
Actual costs by type of cost (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	17.63	-	-	-	-	-	17.63
Depreciation	14.77	-	-	-	-	-	14.77
Cost of capital	2.86	-	-	-	-	-	2.86
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(5.81)	-	-	-	-	-	(5.81)
Depreciation	(3.37)	-	-	-	-	-	(3.37)
Cost of capital	(2.43)	-	-	-	-	-	(2.43)
Cost of leasing	-	-	-	-	-	-	-



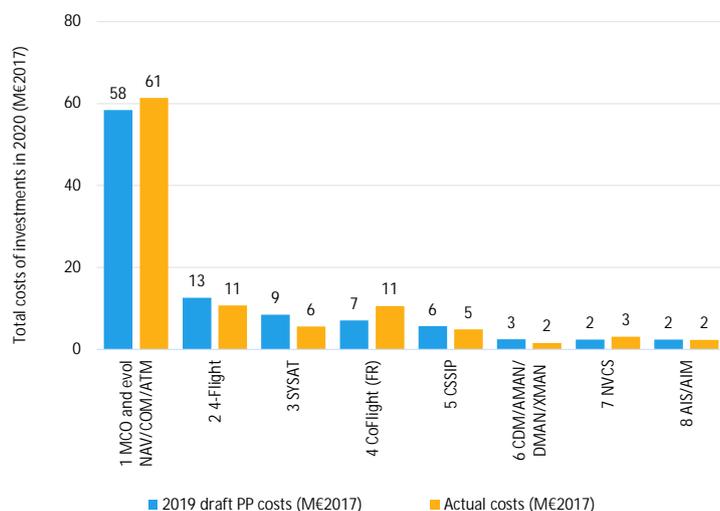
1. The data on costs of investments is based on the data submitted in the reporting tables.

France established two terminal charging zones for RP3. TCZ 1 includes the Paris Charles de Gaulle and Paris Orly airports, while TCZ 2 includes the Nice Côte d'Azur, Lyon-Saint Exupéry, Marseille Provence, Toulouse-Bagnac and Basel-Mulhouse-Freiburg airports.

COSTS BY NEW MAJOR INVESTMENTS

FRANCE | DSNA

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	99.55	122.54	151.82	181.67	203.48	99.55
1 MCO and evol NAV/COM/ATM	58.42	59.92	71.11	83.89	93.04	58.42
2 4-Flight	12.63	21.14	28.06	34.47	41.34	12.63
3 SYSAT	8.50	14.44	18.70	23.13	27.43	8.50
4 CoFlight (FR)	7.06	11.57	15.79	18.81	17.99	7.06
5 CSSIP	5.69	5.60	5.88	6.21	6.52	5.69
6 CDM/AMAN/DMAN/XMAN	2.50	4.56	5.24	6.69	7.78	2.50
7 NVCS	2.37	3.48	4.83	6.16	7.41	2.37
8 AIS/AIM	2.37	1.83	2.21	2.31	1.98	2.37
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	100.17	-	-	-	-	100.17
1 MCO and evol NAV/COM/ATM	61.39	-	-	-	-	61.39
2 4-Flight	10.74	-	-	-	-	10.74
3 SYSAT	5.61	-	-	-	-	5.61
4 CoFlight (FR)	10.58	-	-	-	-	10.58
5 CSSIP	4.89	-	-	-	-	4.89
6 CDM/AMAN/DMAN/XMAN	1.55	-	-	-	-	1.55
7 NVCS	3.08	-	-	-	-	3.08
8 AIS/AIM	2.35	-	-	-	-	2.35
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	0.62	-	-	-	-	0.62
1 MCO and evol NAV/COM/ATM	2.97	-	-	-	-	2.97
2 4-Flight	(1.89)	-	-	-	-	(1.89)
3 SYSAT	(2.89)	-	-	-	-	(2.89)
4 CoFlight (FR)	3.52	-	-	-	-	3.52
5 CSSIP	(0.80)	-	-	-	-	(0.80)
6 CDM/AMAN/DMAN/XMAN	(0.96)	-	-	-	-	(0.96)
7 NVCS	0.70	-	-	-	-	0.70
8 AIS/AIM	(0.03)	-	-	-	-	(0.03)



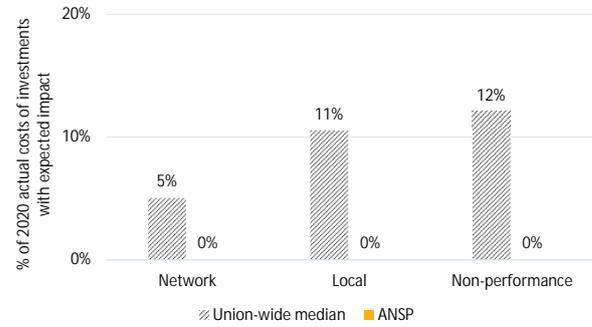
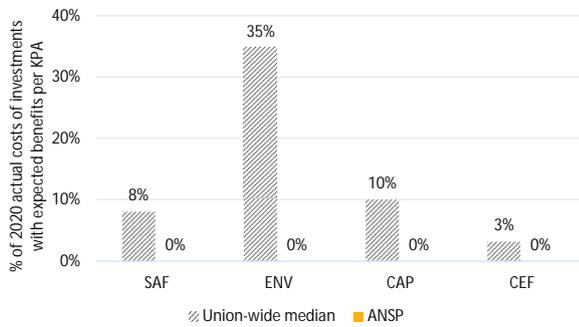
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

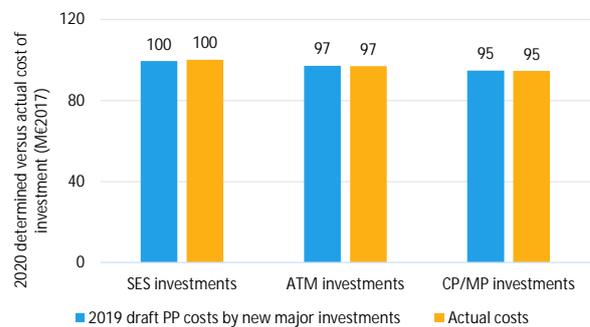
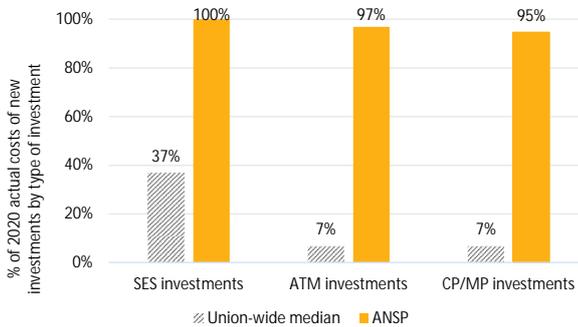
FRANCE | DSNA

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	MCO and evol NAV/COM/ATM				
2	4-Flight				
3	SYSAT				
4	CoFlight (FR)				
5	CSSIP				
6	CDM/AMAN/DMAN/XMAN				
7	NVCS				
8	AIS/AIM				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	MCO and evol NAV/COM/ATM			
2	4-Flight			
3	SYSAT			
4	CoFlight (FR)			
5	CSSIP			
6	CDM/AMAN/DMAN/XMAN			
7	NVCS			
8	AIS/AIM			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	MCO and evol NAV/COM/ATM	2019-2028	Started	Yes	No	Yes	CP
2	4-Flight	2020-2029	Started	Yes	No	Yes	CP
3	SYSAT	2019-2025	Started	Yes	No	Yes	CP
4	CoFlight (FR)	2020-2028	Started	Yes	Yes	Yes	CP
5	CSSIP	2020-2026	Started	Yes	No	Yes	CP
6	CDM/AMAN/DMAN/XMAN	2019-2025	Started	Yes	Yes	Yes	CP
7	NVCS	2019-2027	Started	Yes	Yes	No	-
8	AIS/AIM	2019-2026	Started	Yes	Yes	Yes	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

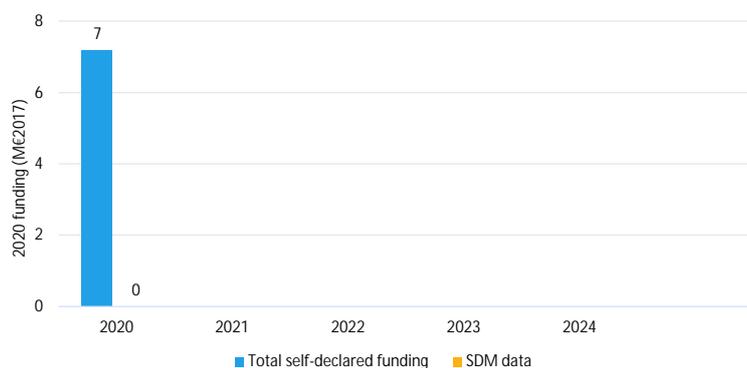
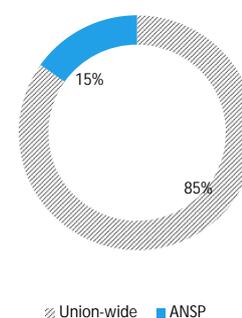
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

FRANCE | DSNA

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	7.18	-	-	-	-	7.18
- En route funding declared	7.18	-	-	-	-	7.18
<i>En route funding that could not be assigned to a specific investment</i>	5.67	-	-	-	-	5.67
2 4-FLIGHT	-	-	-	-	-	-
3 SYSAT	-	-	-	-	-	-
4 CoFlight (FR)	0.71	-	-	-	-	0.71
6 CDM/AMAN/DMAN/XMAN	0.80	-	-	-	-	0.80
7 NVCS	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	7.18	-	-	-	-	7.18
Total included in the funding declaration (reporting tables)	7.18	-	-	-	-	7.18
SDM payment	-	-	-	-	-	-

Declared funding in 2020 (M€₂₀₁₇)

France reported 7.18M€₂₀₁₇ funding in 2020. The funding was awarded for 37 projects. Some of these projects could be linked to the investments "4-FLIGHT", "SYSAT", "CoFlight(FR)", "CDM/AMAN/DMAN/XMAN" and "NVCS".

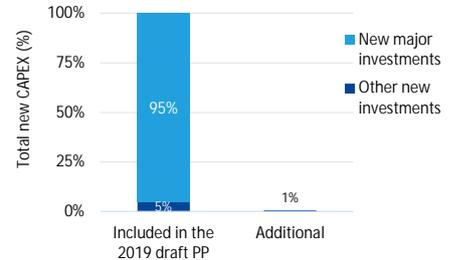
5.11 Germany - DFS

Germany underspent 2.9M€₂₀₁₇ (-3%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Germany planned seven new major investments for RP3, two of which have started, three have been postponed, one has not started and one has been replaced.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ GERMANY | DFS

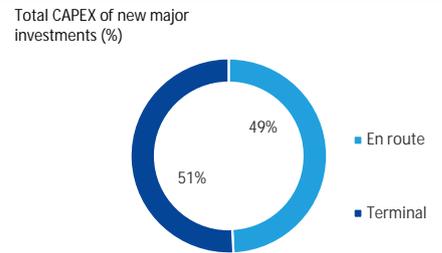
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	395.58	% of total
- New major investments (above 5M€ each)²	373.17	94%
- Included in the 2019 draft performance plan	373.17	94%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	22.41	6%
- Included in the 2019 draft performance plan	19.22	5%
- Additional	3.19	1%



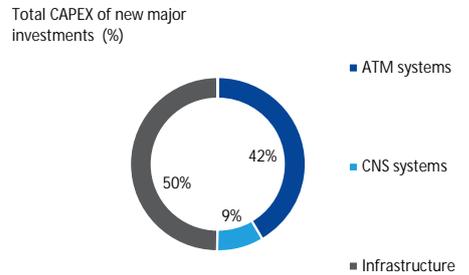
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	373.17	% of total
- En route	183.81	49%
- Terminal	189.36	51%

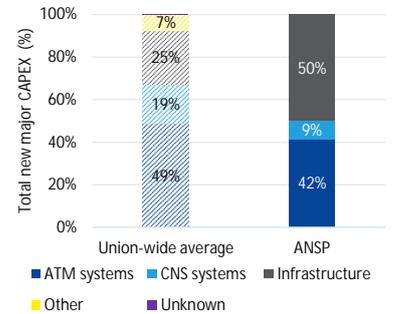
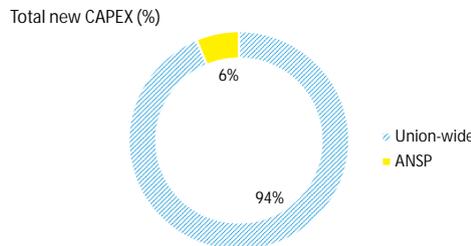
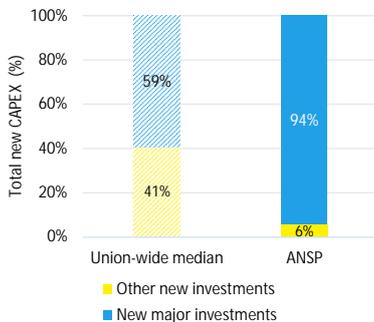


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	373.17	% of total
- ATM systems	154.90	42%
- CNS systems	32.13	9%
- Infrastructure	186.14	50%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

Germany is proposing to revise its investment plan according to its 2020 monitoring report. The values for CAPEX presented above are the values included in the 2019 draft performance plans. More details regarding the proposed changes to the investments of Germany are included in the following sections.

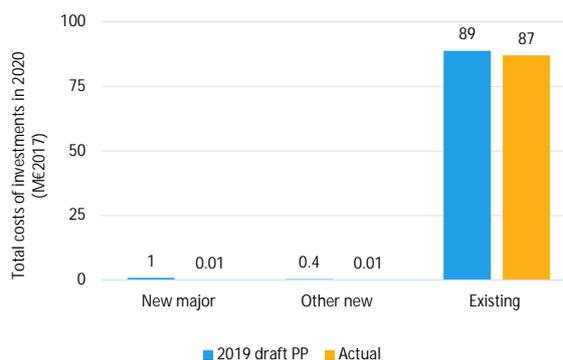
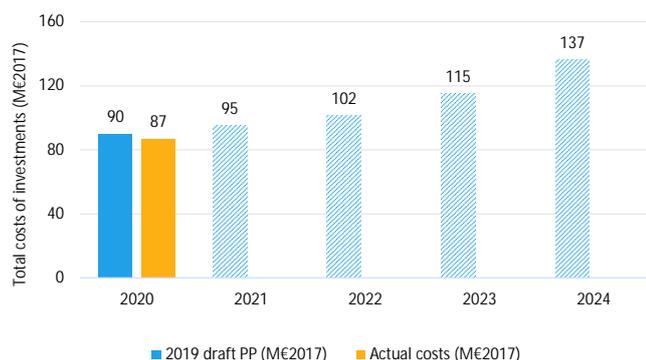
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

GERMANY | DFS

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	90.04	95.11	101.84	114.91	136.52	90.04
- New major investments	0.85	4.37	10.62	22.42	44.68	0.85
- % New major investments in total costs of investments	1%	5%	10%	20%	33%	1%
- Other new investments	0.37	0.88	1.35	1.56	2.08	0.37
- % Other new investments in total costs of investments	0%	1%	1%	1%	2%	0%
- Existing investments	88.82	89.86	89.88	90.94	89.76	88.82
- % Existing investments in total costs of investments	99%	94%	88%	79%	66%	99%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	87.13	-	-	-	-	87.13
- New major investments	0.01	-	-	-	-	0.01
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	0.01	-	-	-	-	0.01
- % Other new investments in total costs of investments	0%	-	-	-	-	0%
- Existing investments	87.11	-	-	-	-	87.11
- % Existing investments in total costs of investments	100%	-	-	-	-	100%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(2.91)	-	-	-	-	(2.91)
- New major investments	(0.84)	-	-	-	-	(0.84)
- % change of actual with respect to 2019 draft PP	-99%	-	-	-	-	-99%
- Other new investments	(0.36)	-	-	-	-	(0.36)
- % change of actual with respect to 2019 draft PP	-97%	-	-	-	-	-97%
- Existing investments	(1.71)	-	-	-	-	(1.71)
- % change of actual with respect to 2019 draft PP	-2%	-	-	-	-	-2%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

Germany included adjustments to the determined costs of investments, under the name of "Experience-based DFS management correction". These adjustments have been deducted from the costs of existing investments. A detailed breakdown of the technical adjustments per year is available in the following page.

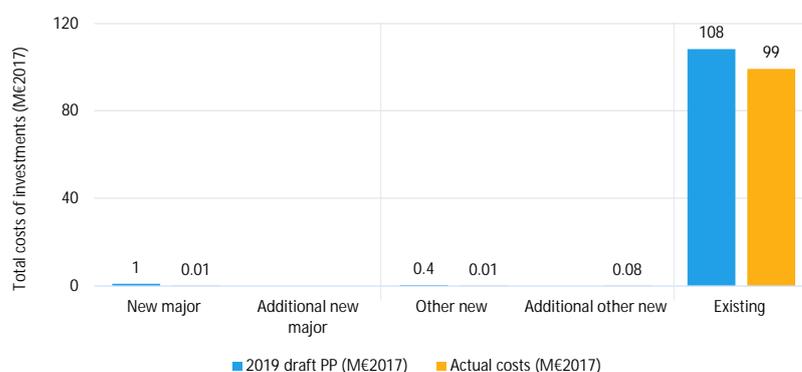
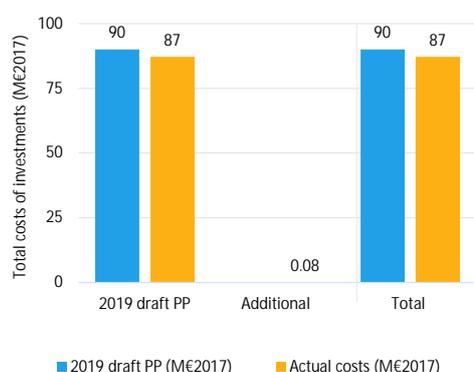
COST RELATED TO INVESTMENTS: 2019 DRAFT PERFORMANCE PLAN AND ADDITIONAL INVESTMENTS

GERMANY | DFS

2019 draft PP costs: planned and additional investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	90.04	95.11	101.84	114.91	136.52	90.04
2019 draft performance plan	90.04	95.11	101.84	114.91	136.52	90.04
- New major investments	0.85	4.37	10.62	22.42	44.68	0.85
- Other new investments	0.37	0.88	1.35	1.56	2.08	0.37
- Existing investments	108.27	115.66	123.50	132.73	140.79	108.27
- Technical adjustments	(19.45)	(25.81)	(33.63)	(41.79)	(51.03)	(19.45)
Additional²	-	-	-	-	-	-
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	-	-	-	-	-	-

Actual costs: planned and additional investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	87.21	-	-	-	-	87.21
2019 draft performance plan	87.13	-	-	-	-	87.13
- New major investments	0.01	-	-	-	-	0.01
- Other new investments	0.01	-	-	-	-	0.01
- Existing investments	99.26	-	-	-	-	99.26
- Technical adjustments	(12.15)	-	-	-	-	(12.15)
Additional	0.08	-	-	-	-	0.08
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	0.08	-	-	-	-	0.08

Actual versus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3
Total difference	(2.83)	(95.11)	(101.84)	(114.91)	(136.52)	(2.83)
2019 draft performance plan	(10.22)	-	-	-	-	(10.22)
- New major investments	(0.84)	-	-	-	-	(0.84)
- Other new investments	(0.36)	-	-	-	-	(0.36)
- Existing investments	(9.02)	-	-	-	-	(9.02)
Additional	0.08	-	-	-	-	0.08
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	0.08	-	-	-	-	0.08



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

2. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

Germany reported proposed additional other new investments that were not included in the 2019 draft performance plan.

The technical adjustments are detailed by Germany as an "adaption is being made on the assumption of a conservative planning and the experience that the full amount normally will not be needed due to e.g. the application of more innovative and cost-effective systems and services, risks that do not occur or achievements of the purchasing department."

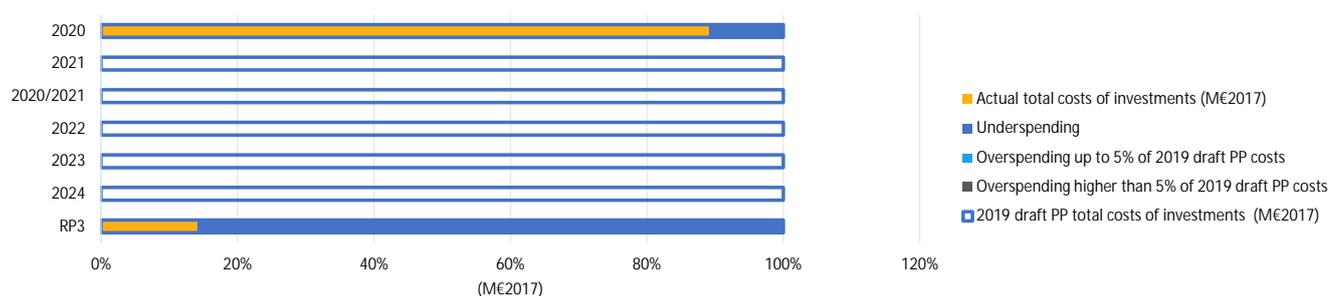
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

GERMANY - En route | DFS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	80.09	97.41	177.50	104.07	108.89	115.84	80.09
Depreciation	66.07	67.67	133.74	71.26	76.95	87.99	66.07
Cost of capital	14.02	29.74	43.76	32.81	31.94	27.85	14.02
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	71.36	-	-	-	-	-	71.36
Depreciation	64.98	-	-	-	-	-	64.98
Cost of capital	6.38	-	-	-	-	-	6.38
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(8.73)	-	-	-	-	-	(8.73)
Depreciation	(1.09)	-	-	-	-	-	(1.09)
Cost of capital	(7.64)	-	-	-	-	-	(7.64)
Cost of leasing	-	-	-	-	-	-	-



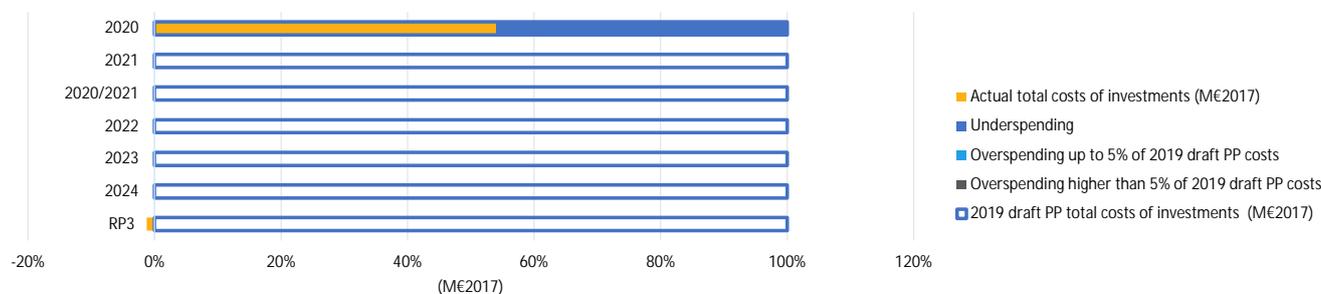
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

GERMANY - Terminal | DFS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	(26.67)	(52.81)	(79.48)	(146.24)	1,193.69	186.84	(26.67)
Depreciation	23.97	27.44	51.41	30.58	37.96	48.53	23.97
Cost of capital	(50.64)	(80.25)	(130.89)	(176.82)	1,155.73	138.30	(50.64)
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	(14.41)	-	-	-	-	-	(14.41)
Depreciation	22.22	-	-	-	-	-	22.22
Cost of capital	(36.64)	-	-	-	-	-	(36.64)
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	12.25	-	-	-	-	-	12.25
Depreciation	(1.75)	-	-	-	-	-	(1.75)
Cost of capital	14.00	-	-	-	-	-	14.00
Cost of leasing	-	-	-	-	-	-	-

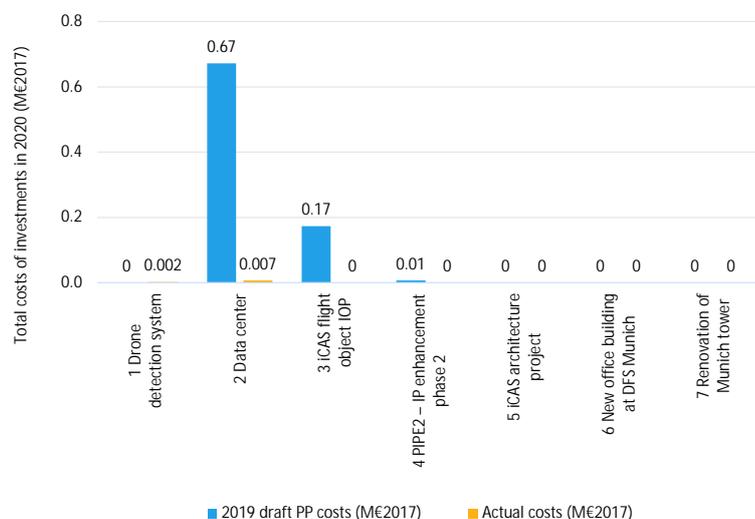


Germany reported negative values for the terminal cost of capital. This is due to calculating the cost of capital as the difference between the determined costs and planned costs by reason of a 'bottom-up' planning of DFS due to the decision to carry on the determined unit rate from 2019 over the whole RP3. The return on equity is not explicitly defined and it is shown in the reporting tables as a result of the carry-on determined unit rate. The planned costs exceed the revenues, therefore a 'negative' return on equity is included in calculating the terminal cost of capital.

COSTS BY NEW MAJOR INVESTMENTS

GERMANY | DFS

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.85	4.37	10.62	22.42	44.68	0.85
1 Drone detection system	-	1.60	3.20	8.00	17.60	-
2 Data center	0.67	1.34	3.17	6.97	9.67	0.67
3 iCAS flight object IOP	0.17	0.74	1.96	3.18	6.66	0.17
4 PIPE2 – IP enhancement phase 2	0.01	0.50	1.50	2.60	3.60	0.01
5 iCAS architecture project	-	0.04	0.19	0.37	3.86	-
6 New construction of an office building at the DFS campus in Munich	-	0.15	0.60	1.13	1.48	-
7 Renovation of the tower at the Munich airport	-	-	-	0.17	1.81	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	0.01	-	-	-	-	0.01
1 Drone detection system	0.00	-	-	-	-	0.00
2 Data center	0.01	-	-	-	-	0.01
3 iCAS flight object IOP	-	-	-	-	-	-
4 PIPE2 – IP enhancement phase 2	-	-	-	-	-	-
5 iCAS architecture project	-	-	-	-	-	-
6 New construction of an office building at the DFS campus in Munich	-	-	-	-	-	-
7 Renovation of the tower at the Munich airport	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.84)	-	-	-	-	(0.84)
1 Drone detection system	0.00	-	-	-	-	0.00
2 Data center	(0.67)	-	-	-	-	(0.67)
3 iCAS flight object IOP	(0.17)	-	-	-	-	(0.17)
4 PIPE2 – IP enhancement phase 2	(0.01)	-	-	-	-	(0.01)
5 iCAS architecture project	-	-	-	-	-	-
6 New construction of an office building at the DFS campus in Munich	-	-	-	-	-	-
7 Renovation of the tower at the Munich airport	-	-	-	-	-	-



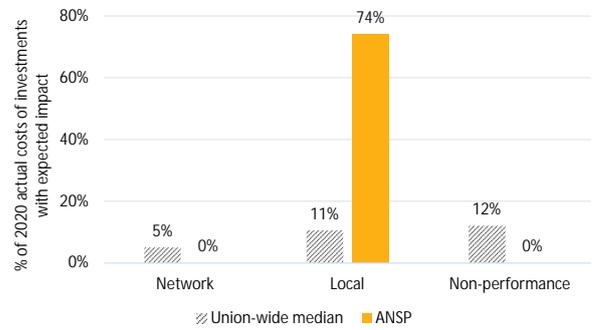
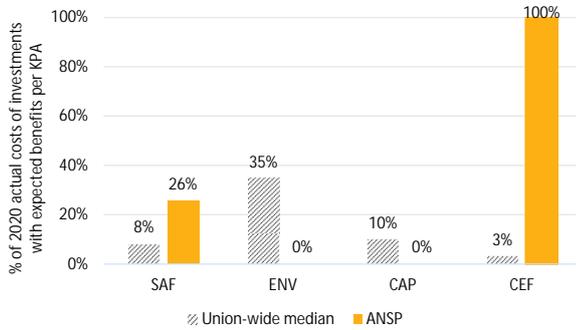
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

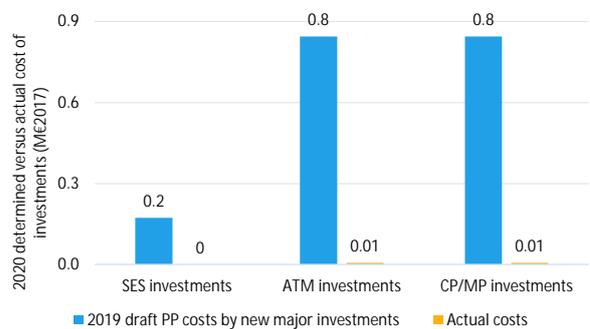
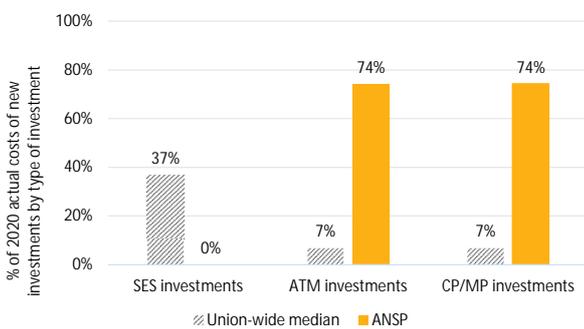
GERMANY | DFS

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Drone detection system	X			(-X)
2	Data center				X
3	iCAS flight object IOP	X	X	X	X
4	PIPE2 – IP enhancement phase 2	X		X	X
5	iCAS architecture project				X
6	New construction of an office building at the DFS campus in Munich				
7	Renovation of the tower at the Munich airport				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Drone detection system			
2	Data center		X	
3	iCAS flight object IOP	X	X	
4	PIPE2 – IP enhancement phase 2		X	
5	iCAS architecture project	X	X	
6	New construction of an office building at the DFS campus in Munich		X	
7	Renovation of the tower at the Munich airport			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	Drone detection system	2023	Not started	No	No	No	-
2	Data center	2022	Started	No	No	Yes	MP
3	iCAS flight object IOP	2029	Postponed	Yes	Yes	Yes	CP
4	PIPE2 – IP enhancement phase 2	2027	Started	No	No	No	-
5	iCAS architecture project	2025	Postponed	No	Yes	Yes	MP
6	New construction of an office building at the DFS campus in Munich	2030	Postponed	No	No	No	-
7	Renovation of the tower at the Munich airport	2025	Replaced	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

- EOI date = Date of entry into operation
- CP/MP = Common Project and Master Plan

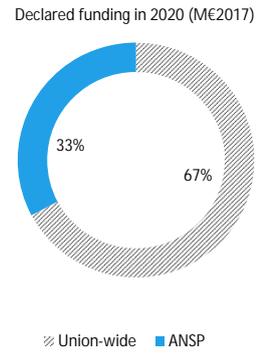
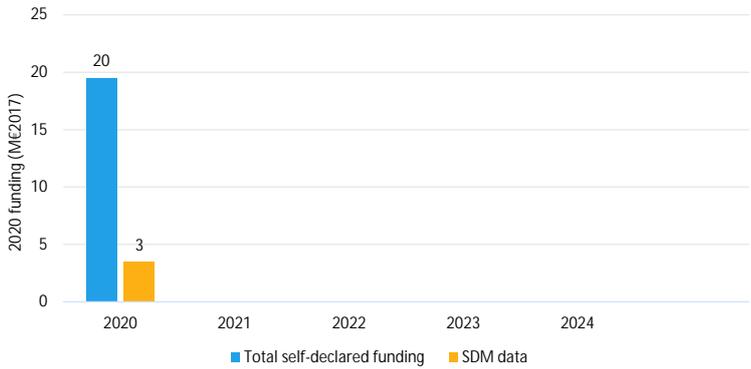
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Due to proposed changes in the investment plans, the dates of entry into operation for several investments differ from the initial dates. The name of the investment "Renovation of the Tower at the Munich airport" has changed to "Virtual Tower Munich (ViTo-MUC)". The proposed changes in the investments are subject to the approval of the revised RP3 performance plans that will be submitted in October 2021.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) GERMANY | DFS

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	19.54	-	-	-	-	19.54
- En route funding declared	17.60	-	-	-	-	17.60
<i>En route funding that could not be assigned to a specific investment</i>	6.33	-	-	-	-	6.33
3 <i>iCAS flight object IOP</i>	5.63	-	-	-	-	5.63
5 <i>iCAS architecture project</i>	5.63	-	-	-	-	5.63
- Terminal funding	1.94	-	-	-	-	1.94
<i>Terminal funding that could not be assigned to a specific investment</i>	1.94	-	-	-	-	1.94

Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	16.07	-	-	-	-	16.07
Total included in the funding declaration (reporting tables)	19.54	-	-	-	-	19.54
SDM payment	3.47	-	-	-	-	3.47



Germany reported 19.54M€₂₀₁₇ funding in 2020. The funding was awarded for 33 projects. Some of these projects could be linked to the investments "iCAS Flight Object IOP" and "iCAS architecture project", however the exact amount could not be determined, therefore the amount is divided equally between the two investments.

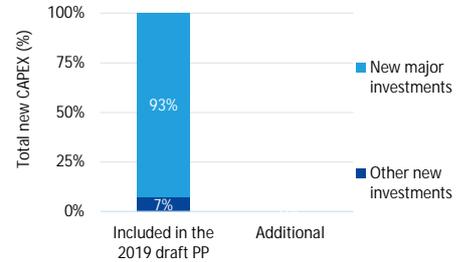
5.12 Greece - HCAA

Greece underspent 1M€₂₀₁₇ (-38%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Greece planned six new major investments for RP3, none of which have started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ GREECE | HCAA

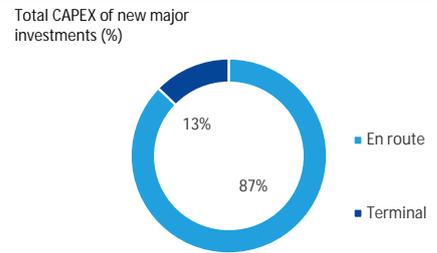
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	142.71	% of total
- New major investments (above 5M€ each)²	132.53	93%
- Included in the 2019 draft performance plan	132.53	93%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	10.18	7%
- Included in the 2019 draft performance plan	10.18	7%
- Additional	-	0%



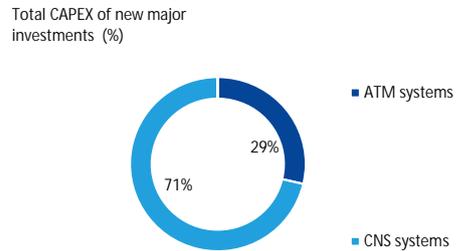
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	132.53	% of total
- En route	115.60	87%
- Terminal	16.93	13%

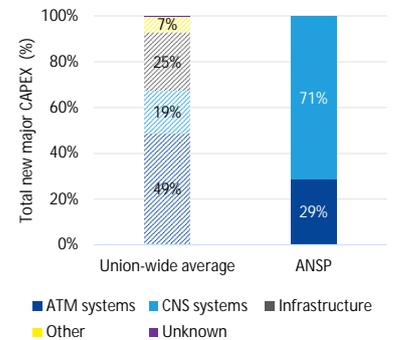
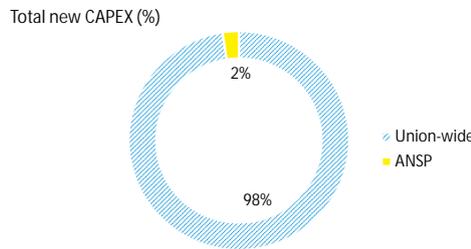
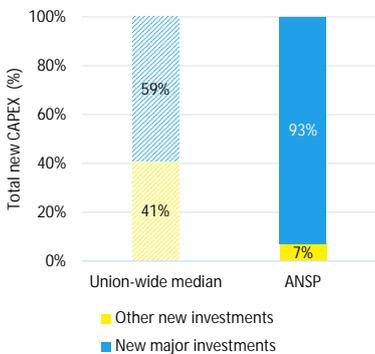


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	132.53	% of total
- ATM systems	37.94	29%
- CNS systems	94.59	71%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

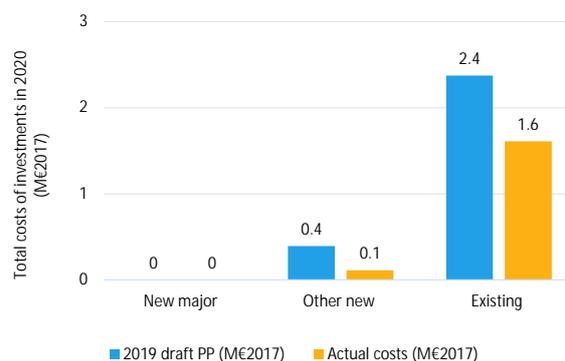
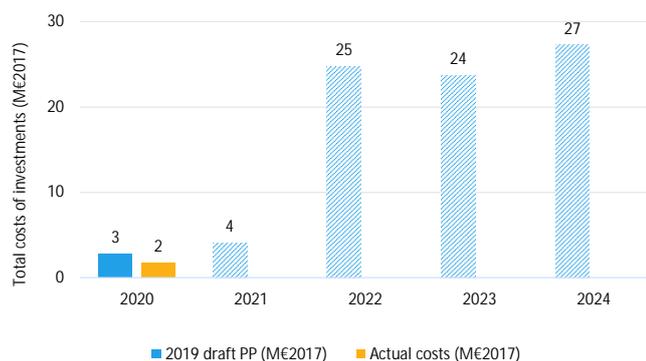
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

GREECE | HCAA

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	2.77	4.01	24.75	23.72	27.27	2.77
- New major investments	-	-	18.60	17.85	21.59	-
- % New major investments in total costs of investments	0%	0%	75%	75%	79%	0%
- Other new investments	0.39	1.03	1.37	1.57	1.59	0.39
- % Other new investments in total costs of investments	14%	26%	6%	7%	6%	14%
- Existing investments	2.37	2.99	4.78	4.30	4.08	2.37
- % Existing investments in total costs of investments	86%	74%	19%	18%	15%	86%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	1.73	-	-	-	-	1.73
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	0.11	-	-	-	-	0.11
- % Other new investments in total costs of investments	7%	-	-	-	-	7%
- Existing investments	1.61	-	-	-	-	1.61
- % Existing investments in total costs of investments	93%	-	-	-	-	93%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.04)	-	-	-	-	(1.04)
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	(0.28)	-	-	-	-	(0.28)
- % change of actual with respect to 2019 draft PP	-71%	-	-	-	-	-71%
- Existing investments	(0.76)	-	-	-	-	(0.76)
- % change of actual with respect to 2019 draft PP	-32%	-	-	-	-	-32%



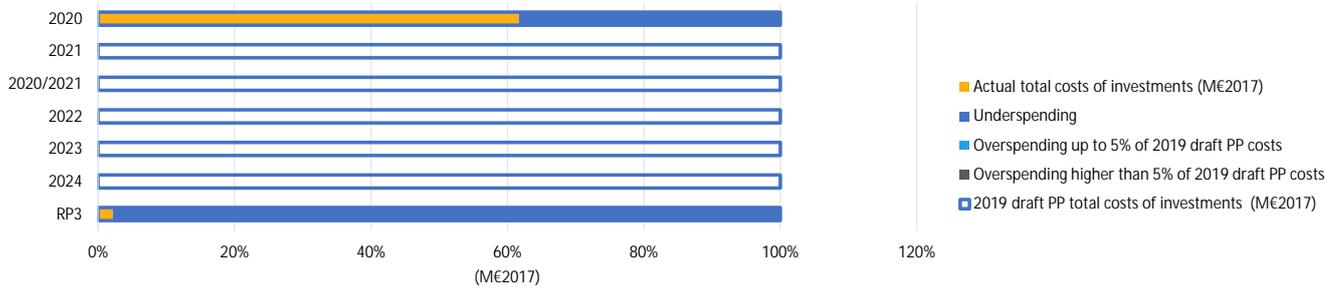
1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN GREECE - En route | HCAA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	2.72	2.92	5.64	23.70	22.72	26.31	2.72
Depreciation	2.08	2.31	4.40	17.31	17.22	20.48	2.08
Cost of capital	0.63	0.61	1.24	6.39	5.50	5.83	0.63
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.67	-	-	-	-	-	1.67
Depreciation	1.34	-	-	-	-	-	1.34
Cost of capital	0.34	-	-	-	-	-	0.34
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.04)	-	-	-	-	-	(1.04)
Depreciation	(0.75)	-	-	-	-	-	(0.75)
Cost of capital	(0.29)	-	-	-	-	-	(0.29)
Cost of leasing	-	-	-	-	-	-	-

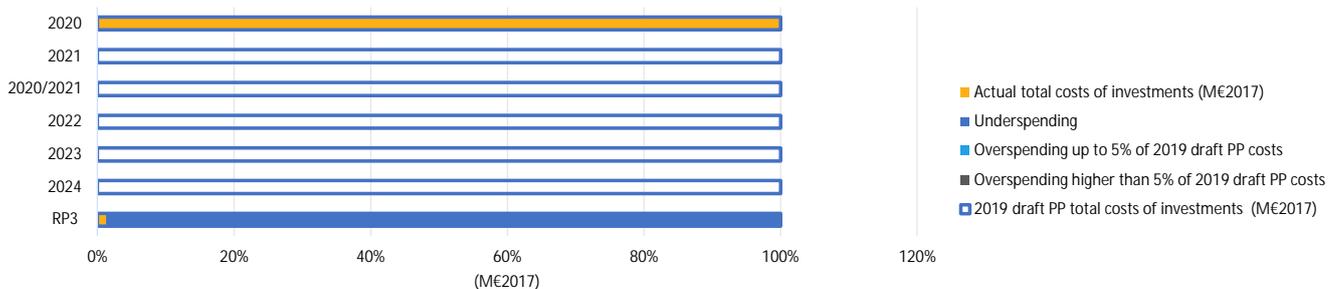


COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN GREECE - Terminal | HCAA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	0.05	1.09	1.14	1.05	1.00	0.96	0.05
Depreciation	0.04	0.79	0.83	0.79	0.79	0.79	0.04
Cost of capital	0.01	0.30	0.31	0.26	0.21	0.17	0.01
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	0.05	-	-	-	-	-	0.05
Depreciation	0.04	-	-	-	-	-	0.04
Cost of capital	0.01	-	-	-	-	-	0.01
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	0.00	-	-	-	-	-	0.00
Depreciation	0.00	-	-	-	-	-	0.00
Cost of capital	0.00	-	-	-	-	-	0.00
Cost of leasing	-	-	-	-	-	-	-

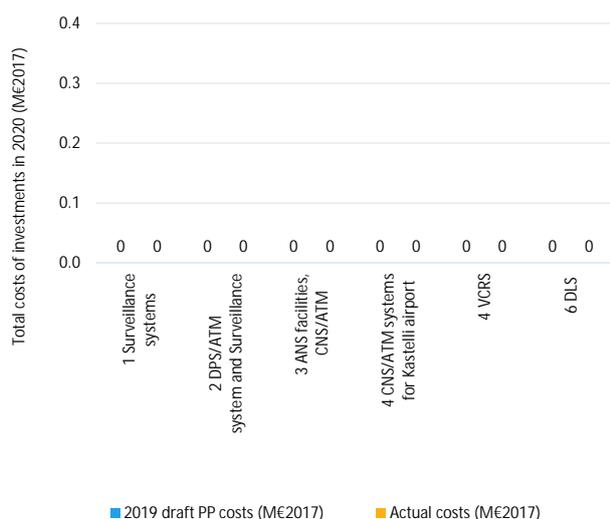


COSTS BY NEW MAJOR INVESTMENTS	GREECE HCAA
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2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	-	-	18.60	17.85	21.59	-
1 Procurement of 8 surveillance systems	-	-	8.13	7.80	7.48	-
2 Procurement of new DPS/ATM system and 7 surveillance systems	-	-	6.61	6.35	6.08	-
3 Procurement of new ANS facilities equipped with CNS/ATM infrastructure	-	-	1.77	1.70	1.63	-
4 Procurement and installation of CNS/ATM systems for new Kastelli airport	-	-	-	-	4.50	-
5 Procurement of 19 voice communication and recording systems (VCRS) for 5	-	-	1.11	1.07	1.02	-
6 Procurement of DLS	-	-	0.97	0.93	0.89	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 Procurement of 8 surveillance systems	-	-	-	-	-	-
2 Procurement of new DPS/ATM system and 7 surveillance systems	-	-	-	-	-	-
3 Procurement of new ANS facilities equipped with CNS/ATM infrastructure	-	-	-	-	-	-
4 Procurement and installation of CNS/ATM systems for new Kastelli airport	-	-	-	-	-	-
5 Procurement of 19 voice communication and recording systems (VCRS) for 5	-	-	-	-	-	-
6 Procurement of DLS	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	-	-	-	-	-	-
1 Procurement of 8 surveillance systems	-	-	-	-	-	-
2 Procurement of new DPS/ATM system and 7 surveillance systems	-	-	-	-	-	-
3 Procurement of new ANS facilities equipped with CNS/ATM infrastructure	-	-	-	-	-	-
4 Procurement and installation of CNS/ATM systems for new Kastelli airport	-	-	-	-	-	-
5 Procurement of 19 voice communication and recording systems (VCRS) for 5	-	-	-	-	-	-
6 Procurement of DLS	-	-	-	-	-	-



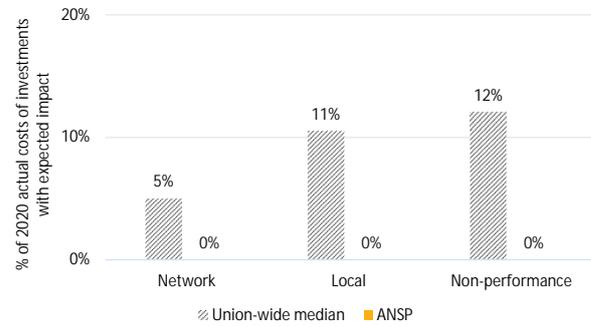
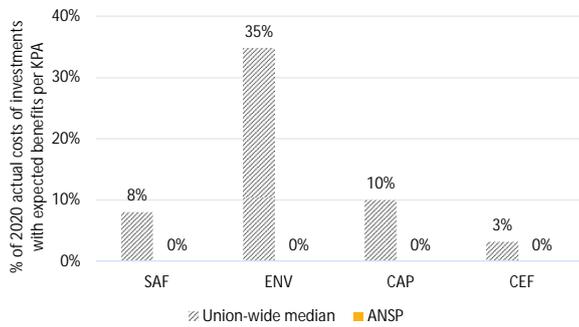
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

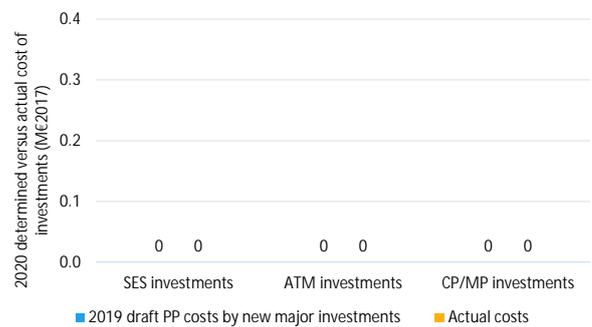
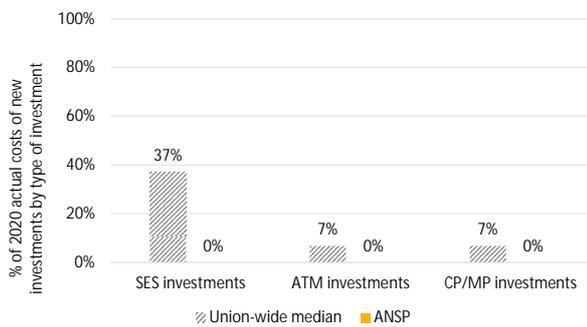
GREECE | HCAA

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Procurement of 8 surveillance systems	X	X	X	X
2	Procurement of new DPS/ATM system and 7 surveillance systems	X	X	X	X
3	Procurement of new ANS facilities equipped with CNS/ATM infrastructure	X	X	X	X
4	Procurement and installation of CNS/ATM systems for new Kastelli airport	X	X	X	X
5	Procurement of 19 voice communication and recording systems (VCRS) for 5 major and 14 national airports	X	X	X	X
6	Procurement of DLS	X	X	X	X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Procurement of 8 surveillance systems		X	
2	Procurement of new DPS/ATM system and 7 surveillance systems		X	
3	Procurement of new ANS facilities equipped with CNS/ATM infrastructure		X	
4	Procurement and installation of CNS/ATM systems for new Kastelli airport		X	
5	Procurement of 19 voice communication and recording systems (VCRS) for 5 major and 14 national airports		X	
6	Procurement of DLS		X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Procurement of 8 surveillance systems	2022	Not started	Yes	No	Yes	MP
2	Procurement of new DPS/ATM system and 7 surveillance systems	2022	Not started	Yes	No	Yes	CP
3	Procurement of new ANS facilities equipped with CNS/ATM infrastructure	2024	Not started	Yes	No	No	-
4	Procurement and installation of CNS/ATM systems for new Kastelli airport	2022	Not started	Yes	No	Yes	-
5	Procurement of 19 voice communication and recording systems (VCRS) for 5 major and 14 national airports	2022	Not started	Yes	No	Yes	MP
6	Procurement of DLS	2022	Not started	Yes	No	Yes	CP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

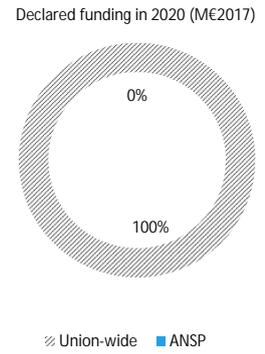
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) GREECE | HCAA

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Greece did not report any funding in 2020.

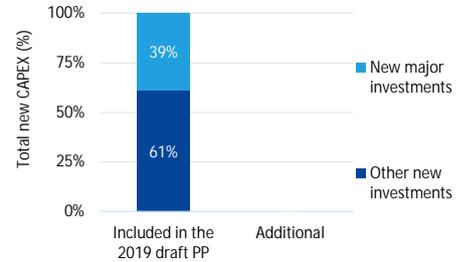
5.13 Hungary - HungaroControl

Hungary underspent 5.4M€₂₀₁₇ (-18%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Hungary planned five new major investments for RP3, three of which have started and two have not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ HUNGARY | HungaroControl

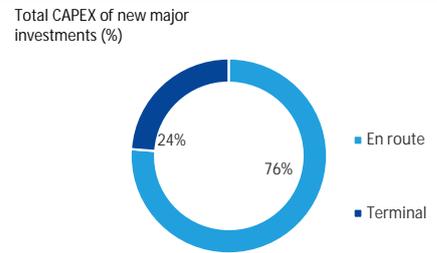
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	160.67	% of total
- New major investments (above 5M€ each)²	62.89	39%
- Included in the 2019 draft performance plan	62.89	39%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	97.77	61%
- Included in the 2019 draft performance plan	97.77	61%
- Additional	-	0%



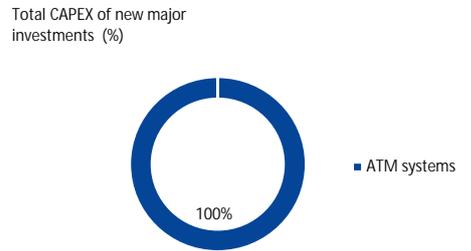
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	62.89	% of total
- En route	47.86	76%
- Terminal	15.03	24%

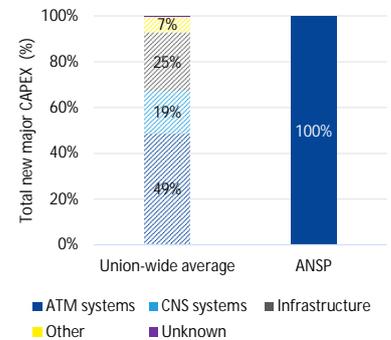
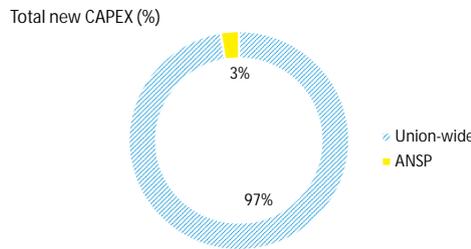
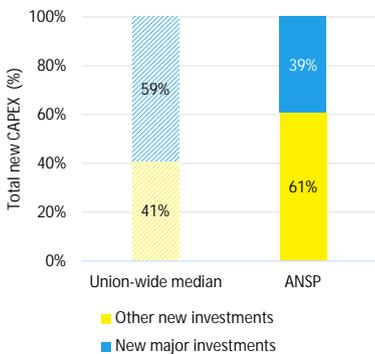


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	62.89	% of total
- ATM systems	62.89	100%
- CNS systems	-	0%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

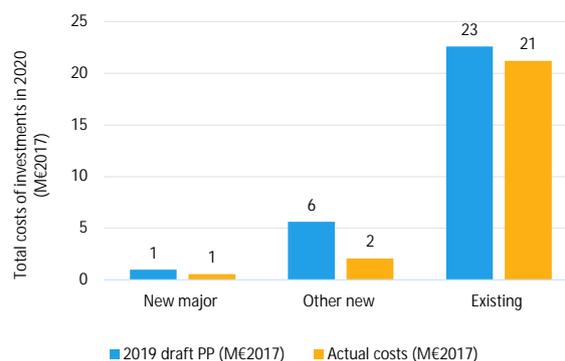
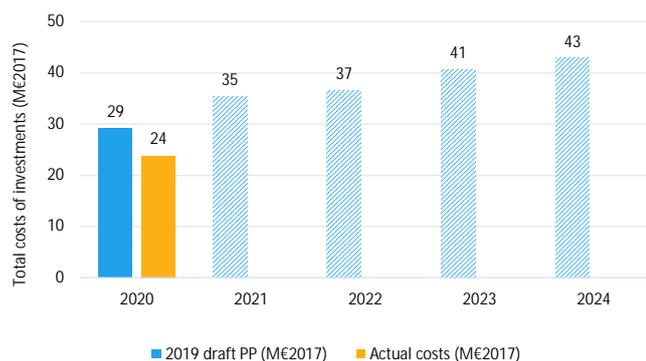
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

HUNGARY | HungaroControl

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	29.19	35.32	36.56	40.70	42.89	29.19
- New major investments	0.98	3.90	6.14	8.79	10.49	0.98
- % New major investments in total costs of investments	3%	11%	17%	22%	24%	3%
- Other new investments	5.62	11.17	15.08	18.91	19.99	5.62
- % Other new investments in total costs of investments	19%	32%	41%	46%	47%	19%
- Existing investments	22.59	20.25	15.34	13.00	12.41	22.59
- % Existing investments in total costs of investments	77%	57%	42%	32%	29%	77%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	23.84	-	-	-	-	23.84
- New major investments	0.55	-	-	-	-	0.55
- % New major investments in total costs of investments	2%	-	-	-	-	2%
- Other new investments	2.07	-	-	-	-	2.07
- % Other new investments in total costs of investments	9%	-	-	-	-	9%
- Existing investments	21.22	-	-	-	-	21.22
- % Existing investments in total costs of investments	89%	-	-	-	-	89%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(5.36)	-	-	-	-	(5.36)
- New major investments	(0.44)	-	-	-	-	(0.44)
- % change of actual with respect to 2019 draft PP	-44%	-	-	-	-	-44%
- Other new investments	(3.54)	-	-	-	-	(3.54)
- % change of actual with respect to 2019 draft PP	-63%	-	-	-	-	-63%
- Existing investments	(1.38)	-	-	-	-	(1.38)
- % change of actual with respect to 2019 draft PP	-6%	-	-	-	-	-6%



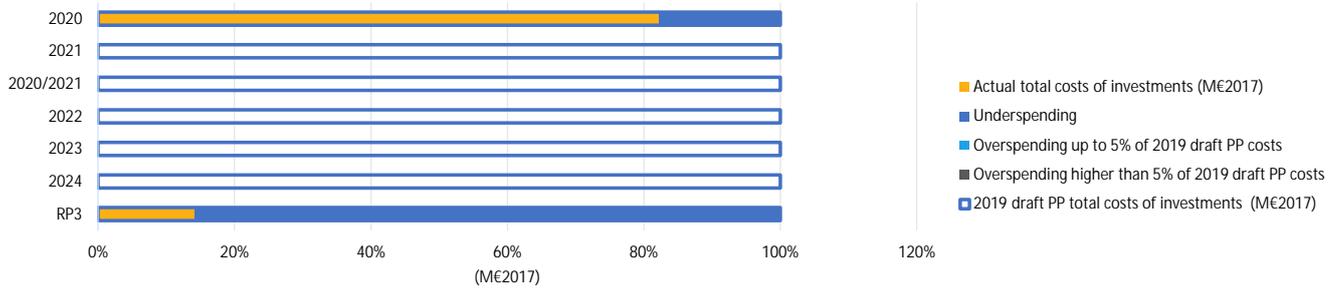
1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN HUNGARY - En route | HungaroControl

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	24.38	28.48	52.86	27.82	29.70	31.61	24.38
Depreciation	10.13	12.54	22.66	13.20	14.12	14.99	10.13
Cost of capital	8.89	10.61	19.51	9.13	10.03	11.03	8.89
Cost of leasing	5.36	5.33	10.69	5.49	5.55	5.60	5.36

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	20.03	-	-	-	-	-	20.03
Depreciation	11.64	-	-	-	-	-	11.64
Cost of capital	2.73	-	-	-	-	-	2.73
Cost of leasing	5.66	-	-	-	-	-	5.66

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(4.35)	-	-	-	-	-	(4.35)
Depreciation	1.52	-	-	-	-	-	1.52
Cost of capital	(6.16)	-	-	-	-	-	(6.16)
Cost of leasing	0.30	-	-	-	-	-	0.30

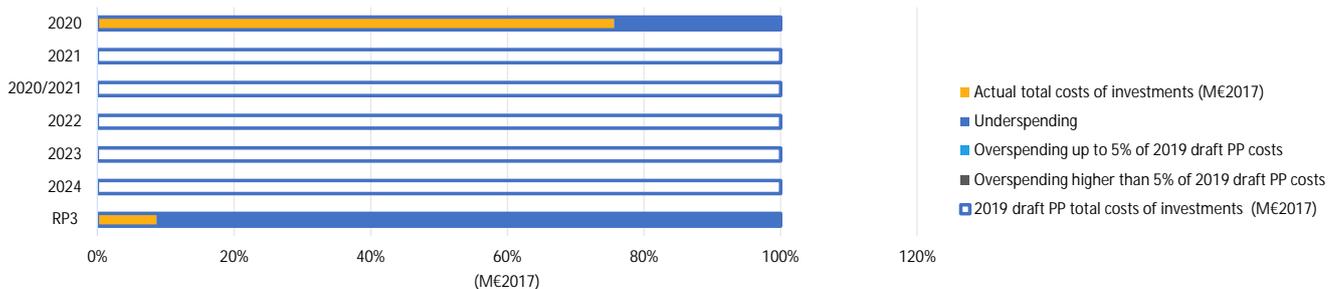


COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN HUNGARY - Terminal | HungaroControl

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	5.03	7.10	12.13	9.01	11.31	11.60	5.03
Depreciation	2.61	3.71	6.31	5.07	6.19	6.65	2.61
Cost of capital	2.01	2.99	5.01	3.49	4.67	4.50	2.01
Cost of leasing	0.41	0.40	0.81	0.45	0.45	0.45	0.41

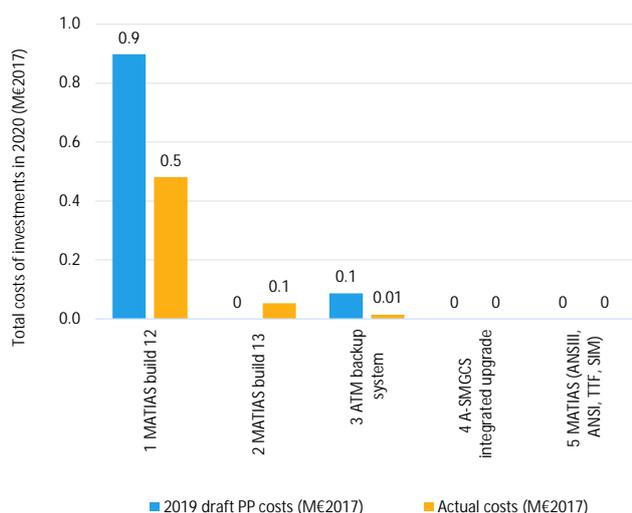
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	3.80	-	-	-	-	-	3.80
Depreciation	2.69	-	-	-	-	-	2.69
Cost of capital	0.60	-	-	-	-	-	0.60
Cost of leasing	0.52	-	-	-	-	-	0.52

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.23)	-	-	-	-	-	(1.23)
Depreciation	0.08	-	-	-	-	-	0.08
Cost of capital	(1.42)	-	-	-	-	-	(1.42)
Cost of leasing	0.11	-	-	-	-	-	0.11



COSTS BY NEW MAJOR INVESTMENTS HUNGARY | HungaroControl

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.98	3.90	6.14	8.79	10.49	0.98
1 MATIAS system build 12	0.90	3.09	3.62	3.43	3.24	0.90
2 MATIAS build 13 ANS I HW replacement PCP, new TWR interface	-	0.29	1.02	3.32	3.77	-
3 ATM backup system build 1	0.09	0.30	1.00	1.13	1.07	0.09
4 A-SMGCS integrated upgrade	-	0.22	0.51	0.91	1.54	-
5 New MATIAS system (ANSIII, ANSI, TTF), new simulator	-	-	-	-	0.87	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	0.55	-	-	-	-	0.55
1 MATIAS system build 12	0.48	-	-	-	-	0.48
2 MATIAS build 13 ANS I HW replacement PCP, new TWR interface	0.05	-	-	-	-	0.05
3 ATM backup system build 1	0.01	-	-	-	-	0.01
4 A-SMGCS integrated upgrade	-	-	-	-	-	-
5 New MATIAS system (ANSIII, ANSI, TTF), new simulator	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.44)	-	-	-	-	(0.44)
1 MATIAS system build 12	(0.42)	-	-	-	-	(0.42)
2 MATIAS build 13 ANS I HW replacement PCP, new TWR interface	0.05	-	-	-	-	0.05
3 ATM backup system build 1	(0.07)	-	-	-	-	(0.07)
4 A-SMGCS integrated upgrade	-	-	-	-	-	-
5 New MATIAS system (ANSIII, ANSI, TTF), new simulator	-	-	-	-	-	-

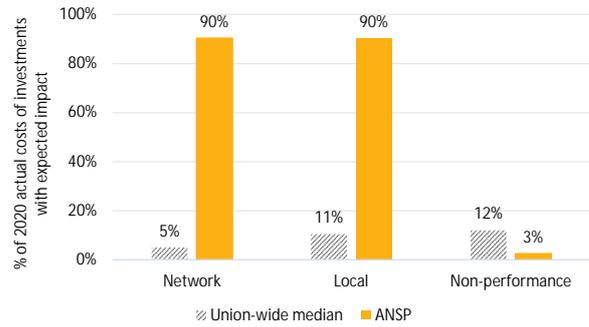
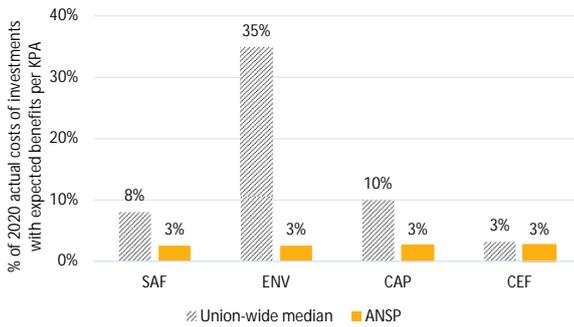


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

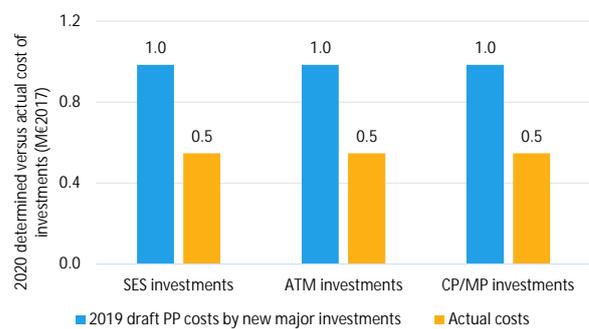
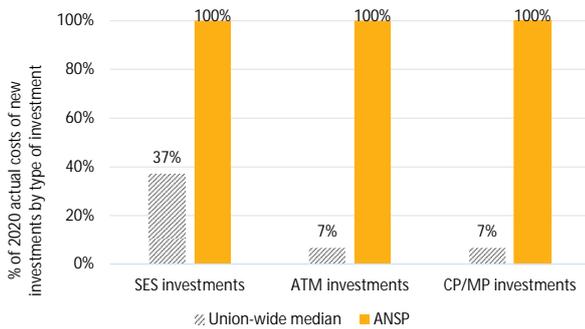
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	MATIAS system build 12				
2	MATIAS build 13 ANS I HW replacement PCP, new TWR interface				
3	ATM backup system build 1	X	X	X	X
4	A-SMGCS integrated upgrade				
5	New MATIAS system (ANSIII, ANSI, TTF), new simulator				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	MATIAS system build 12	X	X	
2	MATIAS build 13 ANS I HW replacement PCP, new TWR interface			
3	ATM backup system build 1	X	X	X
4	A-SMGCS integrated upgrade			
5	New MATIAS system (ANSIII, ANSI, TTF), new simulator			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	MATIAS system build 12	2021	Started	Yes	No	Yes	CP
2	MATIAS build 13 ANS I HW replacement PCP, new TWR interface	2023	Started	Yes	No	Yes	CP
3	ATM backup system build 1	2022	Started	Yes	Yes	Yes	MP
4	A-SMGCS integrated upgrade	2023	Not started	Yes	No	Yes	CP
5	New MATIAS system (ANSIII, ANSI, TTF), new simulator	2026	Not started	Yes	No	Yes	CP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

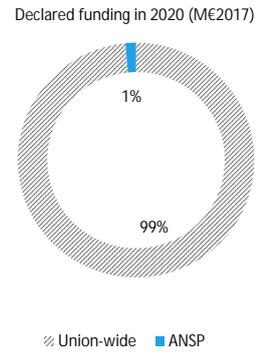
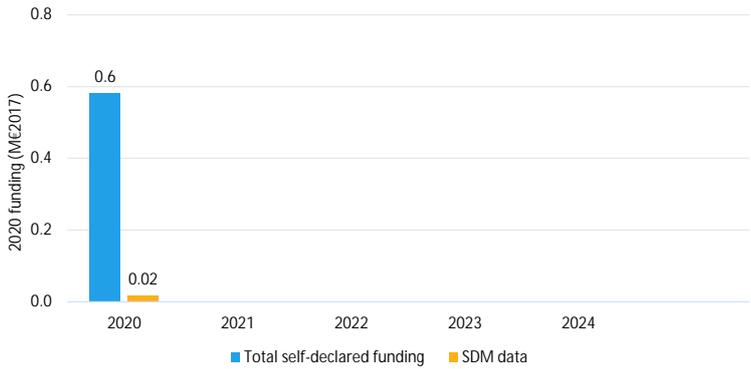
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) HUNGARY | HungaroControl

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.58	-	-	-	-	0.58
- En route funding declared	0.50	-	-	-	-	0.50
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.50</i>	-	-	-	-	<i>0.50</i>
- Terminal funding	0.08	-	-	-	-	0.08
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.08</i>	-	-	-	-	<i>0.08</i>

Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	0.56	-	-	-	-	0.56
Total included in the funding declaration (reporting tables)	0.58	-	-	-	-	0.58
SDM payment	0.02	-	-	-	-	0.02



Hungary reported 0.58M€₂₀₁₇ funding in 2020. The funding was awarded for three projects: "Modular Integrated Remote Tower Air Traffic Management System", "Greener Air Traffic Operations-GREAT" and "SESAR Wave2". These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

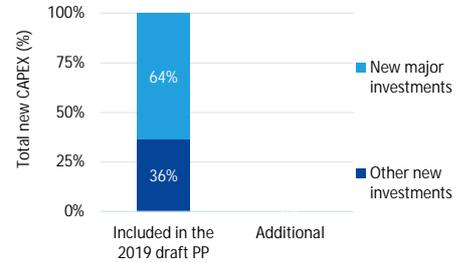
5.14 Ireland - IAA ANSP

Ireland underspent 13.4M€₂₀₁₇ (-53%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Ireland planned nine new major investments for RP3, four of which have been possibly delayed, one has started and four have not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ IRELAND | IAA ANSP

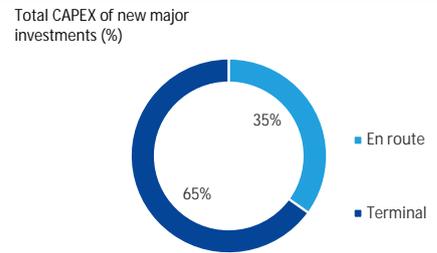
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	164.49	% of total
- New major investments (above 5M€ each)²	104.86	64%
- Included in the 2019 draft performance plan	104.86	64%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	59.63	36%
- Included in the 2019 draft performance plan	59.63	36%
- Additional	-	0%



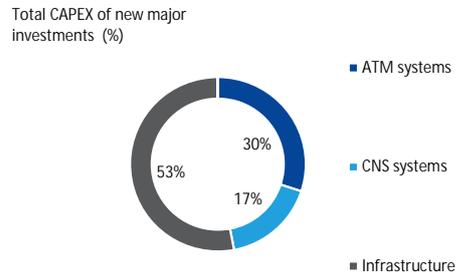
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	104.86	% of total
- En route	36.66	35%
- Terminal	68.20	65%

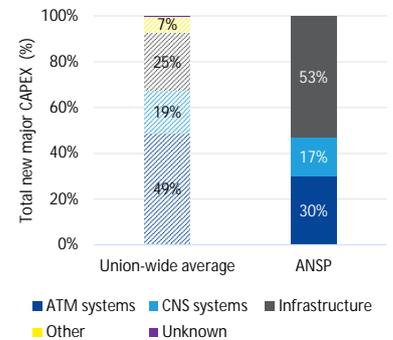
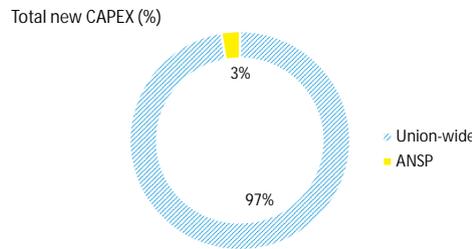
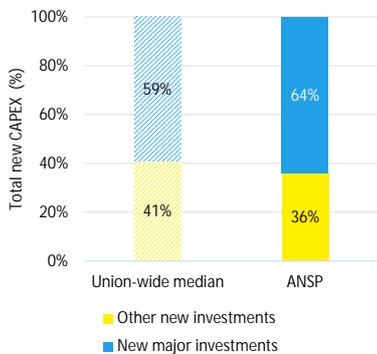


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	104.86	% of total
- ATM systems	31.50	30%
- CNS systems	17.85	17%
- Infrastructure	55.52	53%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

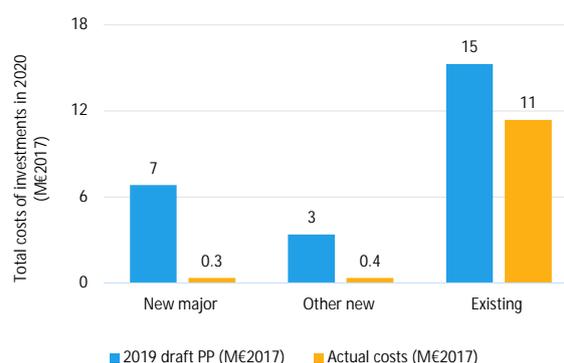
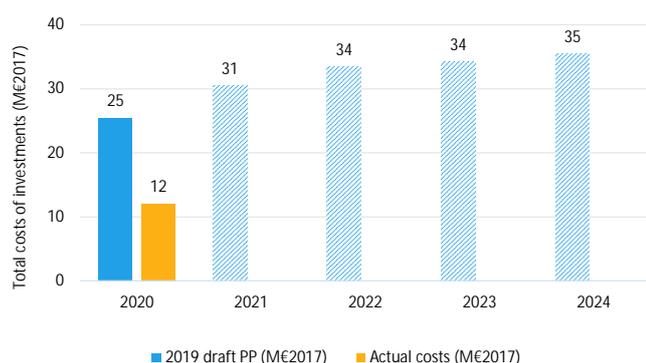
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

IRELAND | IAA ANSP

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	25.50	30.53	33.53	34.32	35.45	25.50
- New major investments	6.83	11.78	14.70	15.31	17.05	6.83
- % <i>New major investments in total costs of investments</i>	27%	39%	44%	45%	48%	27%
- Other new investments	3.40	4.89	7.10	9.86	11.96	3.40
- % <i>Other new investments in total costs of investments</i>	13%	16%	21%	29%	34%	13%
- Existing investments	15.27	13.86	11.74	9.15	6.44	15.27
- % <i>Existing investments in total costs of investments</i>	60%	45%	35%	27%	18%	60%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	12.07	-	-	-	-	12.07
- New major investments	0.35	-	-	-	-	0.35
- % <i>New major investments in total costs of investments</i>	3%	-	-	-	-	3%
- Other new investments	0.35	-	-	-	-	0.35
- % <i>Other new investments in total costs of investments</i>	3%	-	-	-	-	3%
- Existing investments	11.37	-	-	-	-	11.37
- % <i>Existing investments in total costs of investments</i>	94%	-	-	-	-	94%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(13.43)	-	-	-	-	(13.43)
- New major investments	(6.48)	-	-	-	-	(6.48)
- % <i>change of actual with respect to 2019 draft PP</i>	-95%	-	-	-	-	-95%
- Other new investments	(3.04)	-	-	-	-	(3.04)
- % <i>change of actual with respect to 2019 draft PP</i>	-90%	-	-	-	-	-90%
- Existing investments	(3.90)	-	-	-	-	(3.90)
- % <i>change of actual with respect to 2019 draft PP</i>	-26%	-	-	-	-	-26%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

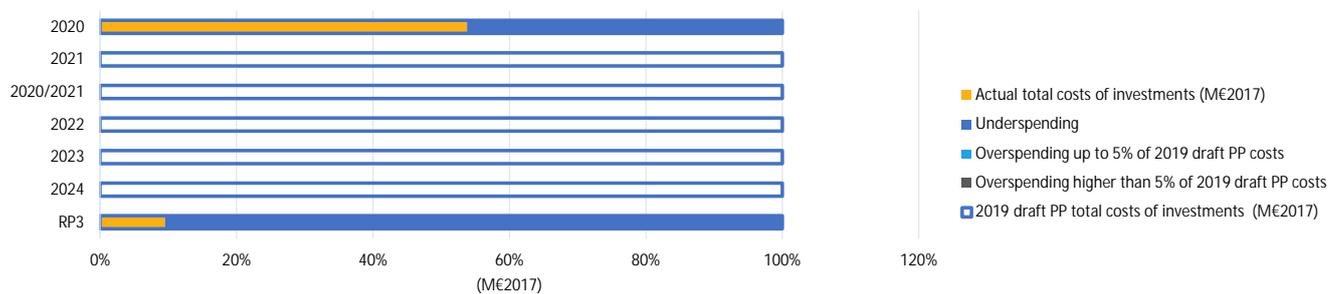
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

IRELAND - En route | IAA ANSP

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	15.71	16.99	32.70	18.04	18.73	19.58	15.71
Depreciation	11.12	12.10	23.22	13.02	13.76	14.45	11.12
Cost of capital	4.60	4.88	9.48	5.02	4.97	5.13	4.60
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	8.45	-	-	-	-	-	8.45
Depreciation	6.61	-	-	-	-	-	6.61
Cost of capital	1.85	-	-	-	-	-	1.85
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(7.26)	-	-	-	-	-	(7.26)
Depreciation	(4.51)	-	-	-	-	-	(4.51)
Cost of capital	(2.75)	-	-	-	-	-	(2.75)
Cost of leasing	-	-	-	-	-	-	-



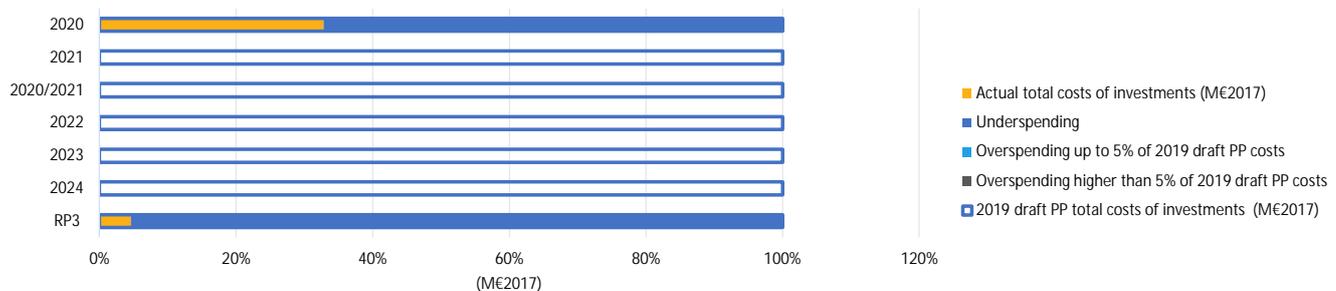
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

IRELAND - Terminal | IAA ANSP

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	9.79	13.54	23.32	15.49	15.59	15.87	9.79
Depreciation	5.98	8.02	14.00	9.33	9.67	10.18	5.98
Cost of capital	3.81	5.52	9.33	6.16	5.92	5.69	3.81
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	3.21	-	-	-	-	-	3.21
Depreciation	2.48	-	-	-	-	-	2.48
Cost of capital	0.73	-	-	-	-	-	0.73
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(6.58)	-	-	-	-	-	(6.58)
Depreciation	(3.50)	-	-	-	-	-	(3.50)
Cost of capital	(3.08)	-	-	-	-	-	(3.08)
Cost of leasing	-	-	-	-	-	-	-



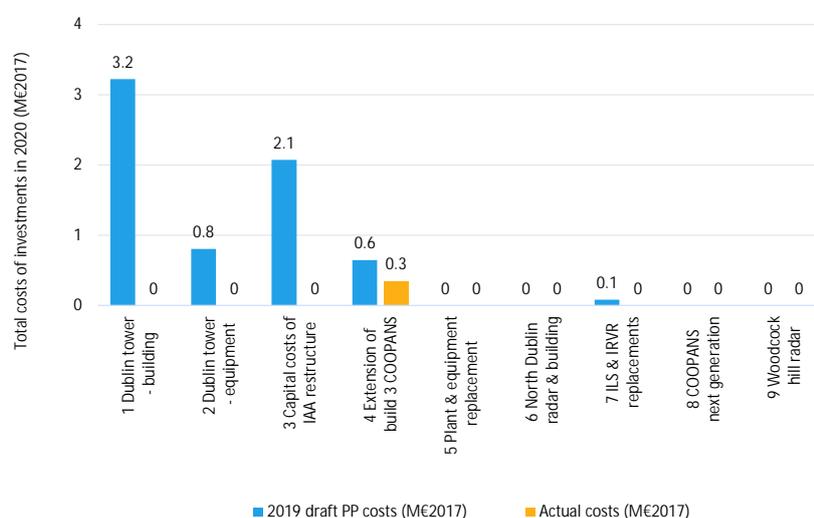
COSTS BY NEW MAJOR INVESTMENTS

IRELAND | IAA ANSP

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	6.83	11.78	14.70	15.31	17.05	6.83
1 Dublin tower - building	3.22	4.51	4.46	4.36	4.23	3.22
2 Dublin tower - equipment	0.81	2.45	3.90	3.74	3.56	0.81
3 Capital costs of IAA restructure	2.07	2.76	2.63	2.47	2.32	2.07
4 Extension of build 3 COOPANS	0.65	1.11	1.23	1.31	1.27	0.65
5 Plant & equipment replacement	-	0.14	0.70	1.23	1.73	-
6 North Dublin RADAR - building & RADAR	-	0.42	1.10	1.07	1.02	-
7 ILS & IRVR replacements	0.08	0.40	0.69	0.88	1.11	0.08
8 COOPANS next generation	-	-	-	0.26	1.03	-
9 Woodcock hill radar replacement	-	-	-	-	0.78	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.35	-	-	-	-	0.35
1 Dublin tower - building	-	-	-	-	-	-
2 Dublin tower - equipment	-	-	-	-	-	-
3 Capital costs of IAA restructure	-	-	-	-	-	-
4 Extension of build 3 COOPANS	0.35	-	-	-	-	0.35
5 Plant & equipment replacement	-	-	-	-	-	-
6 North Dublin RADAR - building & RADAR	-	-	-	-	-	-
7 ILS & IRVR replacements	-	-	-	-	-	-
8 COOPANS next generation	-	-	-	-	-	-
9 Woodcock hill radar replacement	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(6.48)	-	-	-	-	(6.48)
1 Dublin tower - building	(3.22)	-	-	-	-	(3.22)
2 Dublin tower - equipment	(0.81)	-	-	-	-	(0.81)
3 Capital costs of IAA restructure	(2.07)	-	-	-	-	(2.07)
4 Extension of build 3 COOPANS	(0.30)	-	-	-	-	(0.30)
5 Plant & equipment replacement	-	-	-	-	-	-
6 North Dublin RADAR - building & RADAR	-	-	-	-	-	-
7 ILS & IRVR replacements	(0.08)	-	-	-	-	(0.08)
8 COOPANS next generation	-	-	-	-	-	-
9 Woodcock hill radar replacement	-	-	-	-	-	-



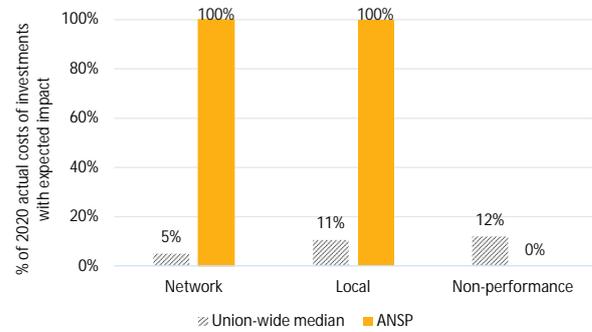
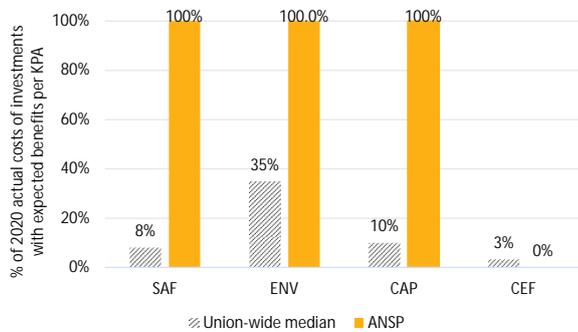
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

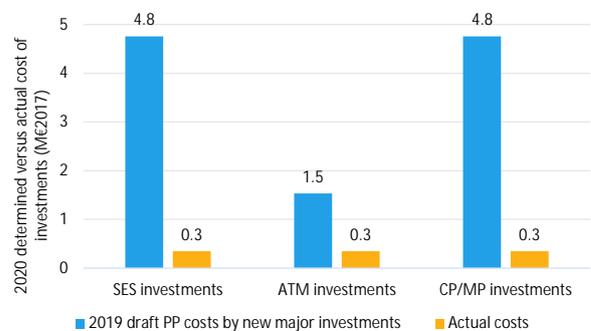
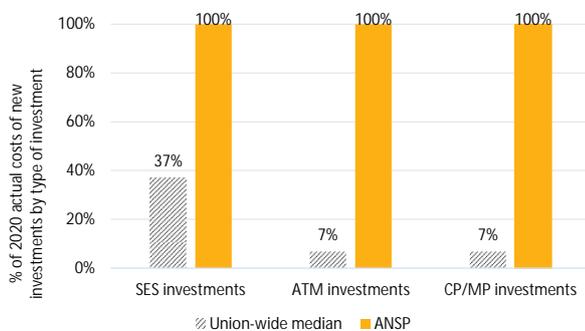
IRELAND | IAA ANSP

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Dublin tower - building			X	
2	Dublin tower - equipment			X	
3	Capital costs of IAA restructure		X		X
4	Extension of build 3 COOPANS	X	X	X	
5	Plant & equipment replacement		X	X	X
6	North Dublin RADAR - building & RADAR			X	
7	ILS & IRVR replacements			X	
8	COOPANS next generation				
9	Woodcock hill radar replacement			X	

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Dublin tower - building	X	X	
2	Dublin tower - equipment	X	X	
3	Capital costs of IAA restructure		X	
4	Extension of build 3 COOPANS	X	X	
5	Plant & equipment replacement		X	X
6	North Dublin RADAR - building & RADAR	X	X	
7	ILS & IRVR replacements	X	X	
8	COOPANS next generation	X	X	
9	Woodcock hill radar replacement	X	X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	CP/MP ²
1	Dublin tower - building	2020	Delayed	Yes	No	No	MP
2	Dublin tower - equipment	2021	Delayed	Yes	No	Yes	MP
3	Capital costs of IAA restructure	2020	Delayed	No	No	No	-
4	Extension of build 3 COOPANS	2024	Started	Yes	Yes	Yes	CP
5	Plant & equipment replacement	2024	Not started	No	No	No	-
6	North Dublin RADAR - building & RADAR	2021	Not started	Yes	No	Yes	MP
7	ILS & IRVR replacements	2024	Delayed	Yes	No	Yes	MP
8	COOPANS next generation	2023	Not started	Yes	Yes	Yes	MP
9	Woodcock hill radar replacement	2024	Not started	Yes	Yes	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

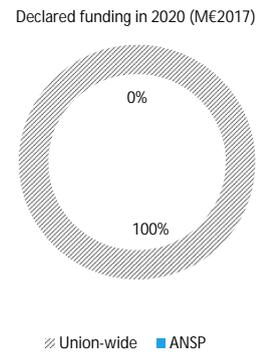
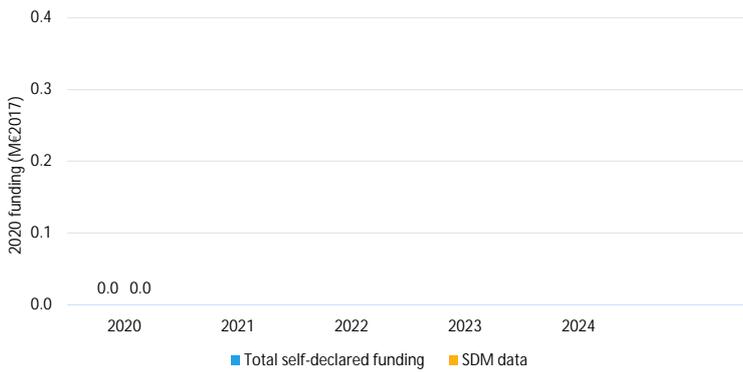
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Four investments have been marked as delayed, due to not recording actual costs of investments in 2020.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) IRELAND | IAA ANSP

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Ireland did not report any funding in 2020.

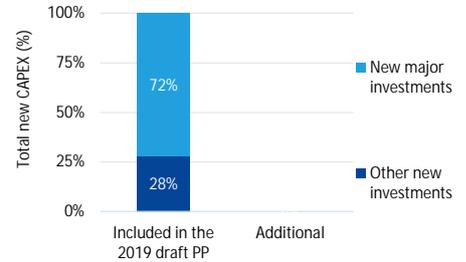
5.15 Italy - ENAV

Italy underspent 46.7 M€₂₀₁₇ (-38%) in costs related to investments in 2020 compared to the 2019 draft performance plan. The underspending reported by Italy in the reporting tables (34.5M€₂₀₁₇) is lower. Italy did not explain the reason for the difference in the reported amounts. Italy planned 15 new major investments for RP3, all of which have started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ ITALY | ENAV

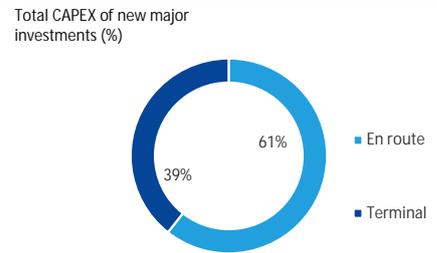
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	468.39	% of total
- New major investments (above 5M€ each)²	338.57	72%
- Included in the 2019 draft performance plan	338.57	72%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	129.81	28%
- Included in the 2019 draft performance plan	129.81	28%
- Additional	-	0%



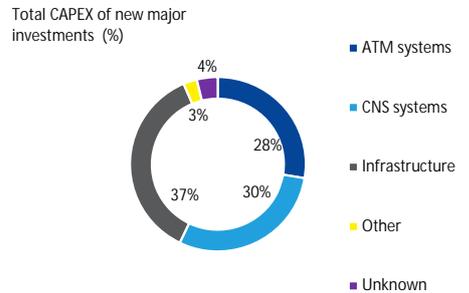
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	338.57	% of total
- En route	205.34	61%
- Terminal	133.23	39%

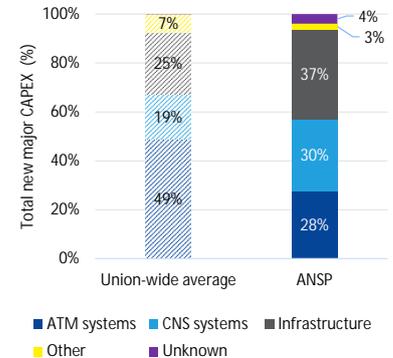
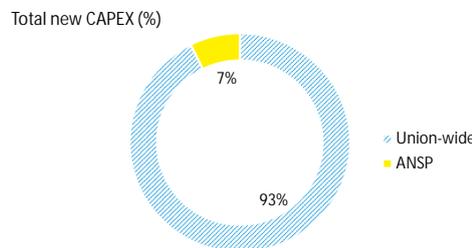
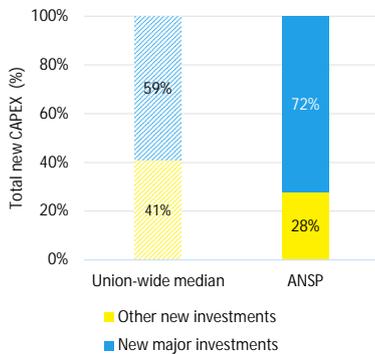


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	338.57	% of total
- ATM systems	93.33	28%
- CNS systems	100.13	30%
- Infrastructure	123.64	37%
- Other	8.48	3%
- Unknown	12.99	4%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

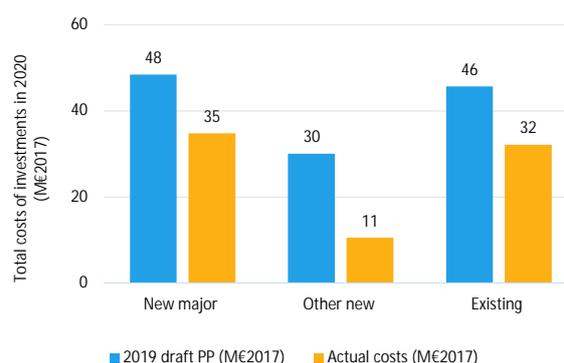
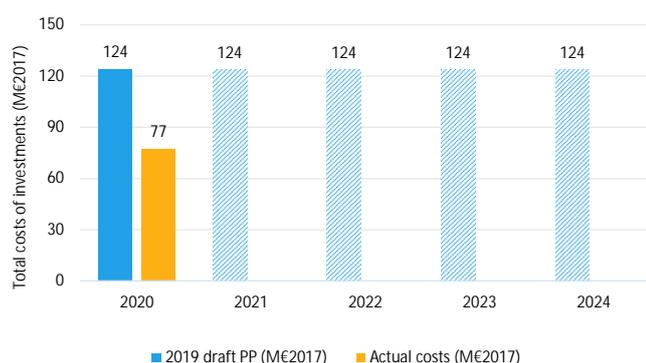
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ITALY | ENAV

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	124.21	124.05	123.95	123.98	123.71	124.21
- New major investments	48.42	56.26	63.96	82.91	87.02	48.42
- % <i>New major investments in total costs of investments</i>	39%	45%	52%	67%	70%	39%
- Other new investments	30.05	28.86	31.11	20.86	18.94	30.05
- % <i>Other new investments in total costs of investments</i>	24%	23%	25%	17%	15%	24%
- Existing investments	45.74	38.93	28.87	20.22	17.75	45.74
- % <i>Existing investments in total costs of investments</i>	37%	31%	23%	16%	14%	37%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	77.49	-	-	-	-	77.49
- New major investments	34.82	-	-	-	-	34.82
- % <i>New major investments in total costs of investments</i>	45%	-	-	-	-	45%
- Other new investments	10.58	-	-	-	-	10.58
- % <i>Other new investments in total costs of investments</i>	14%	-	-	-	-	14%
- Existing investments	32.10	-	-	-	-	32.10
- % <i>Existing investments in total costs of investments</i>	41%	-	-	-	-	41%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(46.71)	-	-	-	-	(46.71)
- New major investments	(13.60)	-	-	-	-	(13.60)
- % <i>change of actual with respect to 2019 draft PP</i>	-28%	-	-	-	-	-28%
- Other new investments	(19.47)	-	-	-	-	(19.47)
- % <i>change of actual with respect to 2019 draft PP</i>	-65%	-	-	-	-	-65%
- Existing investments	(13.64)	-	-	-	-	(13.64)
- % <i>change of actual with respect to 2019 draft PP</i>	-30%	-	-	-	-	-30%

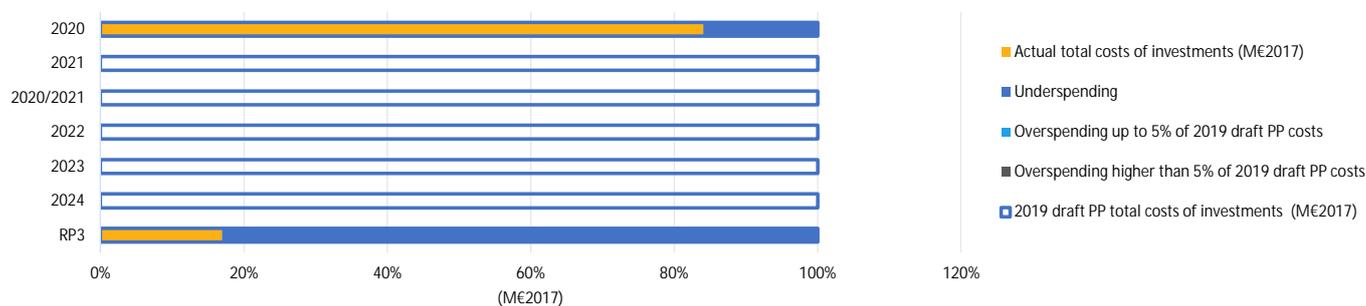


1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ITALY - En route | ENAV

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	165.30	164.98	330.28	164.81	163.81	162.81	165.30
Depreciation	97.94	97.63	195.57	97.45	96.45	95.45	97.94
Cost of capital	67.36	67.36	134.71	67.36	67.36	67.36	67.36
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	138.93	-	-	-	-	-	138.93
Depreciation	91.26	-	-	-	-	-	91.26
Cost of capital	47.67	-	-	-	-	-	47.67
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(26.37)	-	-	-	-	-	(26.37)
Depreciation	(6.68)	-	-	-	-	-	(6.68)
Cost of capital	(19.68)	-	-	-	-	-	(19.68)
Cost of leasing	-	-	-	-	-	-	-



1. The data on costs of investments is based on the data submitted in the reporting tables.

Italy did not report the determined cost of capital in the 2019 draft performance plan or in the monitoring report of 2020, therefore the monetary value of the cost of capital has been calculated by multiplying the net book value of the assets (NBV) with the weighted average cost of capital (WACC).

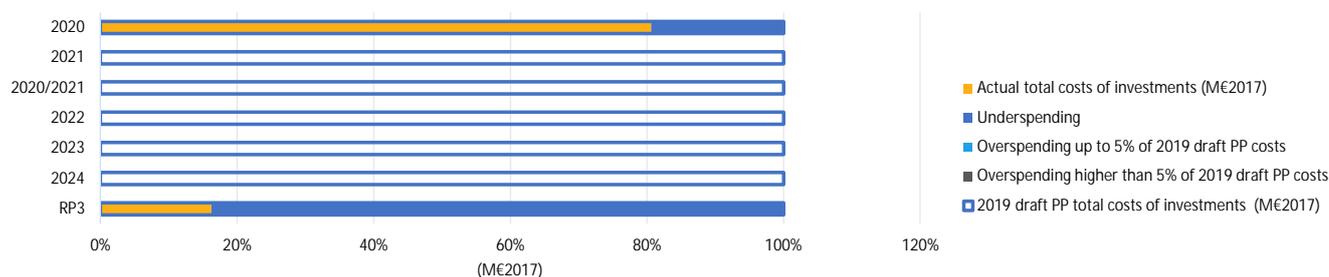
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ITALY TCZ 1 - Terminal | ENAV

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	14.89	14.68	29.57	14.79	14.79	14.79	14.89
Depreciation	7.99	7.78	15.78	7.89	7.89	7.89	7.99
Cost of capital	6.90	6.90	13.80	6.90	6.90	6.90	6.90
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	12.00	-	-	-	-	-	12.00
Depreciation	6.24	-	-	-	-	-	6.24
Cost of capital	5.77	-	-	-	-	-	5.77
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(2.89)	-	-	-	-	-	(2.89)
Depreciation	(1.76)	-	-	-	-	-	(1.76)
Cost of capital	(1.13)	-	-	-	-	-	(1.13)
Cost of leasing	-	-	-	-	-	-	-



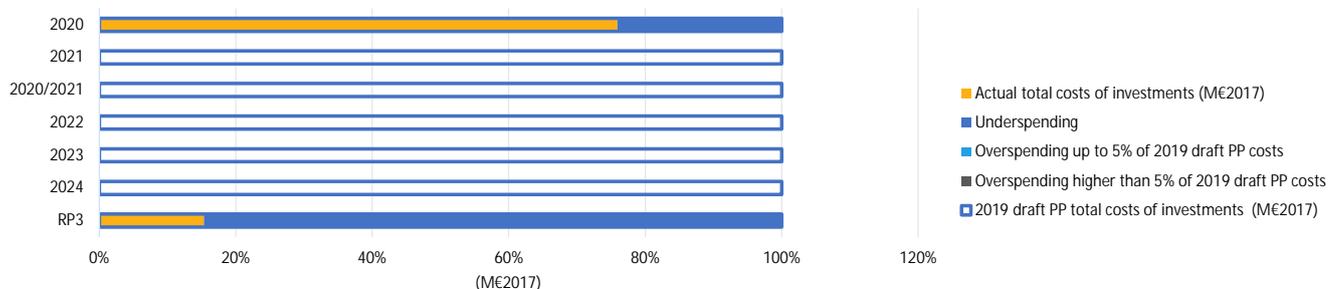
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ITALY TCZ 2 - Terminal | ENAV

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	21.85	21.51	43.36	21.68	21.68	21.68	21.85
Depreciation	13.07	12.73	25.80	12.90	12.90	12.90	13.07
Cost of capital	8.78	8.78	17.56	8.78	8.78	8.78	8.78
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	16.59	-	-	-	-	-	16.59
Depreciation	11.58	-	-	-	-	-	11.58
Cost of capital	5.01	-	-	-	-	-	5.01
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(5.26)	-	-	-	-	-	(5.26)
Depreciation	(1.49)	-	-	-	-	-	(1.49)
Cost of capital	(3.77)	-	-	-	-	-	(3.77)
Cost of leasing	-	-	-	-	-	-	-



1. The data on costs of investments is based on the data submitted in the reporting tables.

Italy did not report the determined cost of capital in the 2019 draft performance plan or in the monitoring report of 2020, therefore the monetary value of the cost of capital has been calculated by multiplying the net book value of the assets (NBV) with the weighted average cost of capital (WACC).

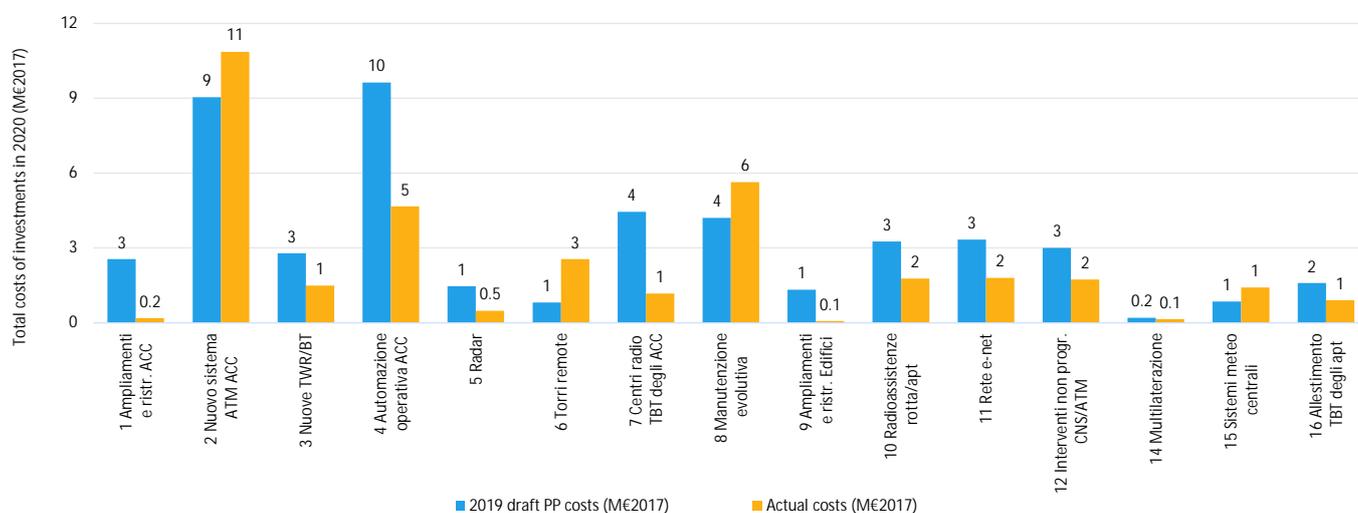
Italy established two terminal charging zones for RP3. TCZ 1 includes the Roma Fiumicino airport, while TCZ 2 includes the Milano Malpensa, Milano Bergamo, Milano Linate and Venice Marco Polo airports.

COSTS BY NEW MAJOR INVESTMENTS						ITALY ENAV
2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	48.42	56.26	63.96	82.91	87.02	48.42
1 Ampliamenti e ristr. ACC	2.55	4.20	6.79	15.83	15.14	2.55
2 Nuovo sistema ATM ACC	9.04	6.50	6.94	7.95	11.27	9.04
3 Nuove TWR/BT	2.78	3.53	7.78	12.87	13.99	2.78
4 Automazione operativa ACC	9.62	10.43	6.34	2.95	3.69	9.62
5 Radar	1.46	4.40	8.76	9.98	6.97	1.46
6 Torri remote	0.80	0.90	2.46	7.55	12.04	0.80
7 Centri radio TBT degli ACC	4.44	5.40	5.66	4.68	2.50	4.44
8 Manutenzione evolutiva	4.20	4.20	4.20	3.00	3.00	4.20
9 Ampliamenti e ristr. Edifici	1.32	2.75	3.37	3.21	3.76	1.32
10 Radioassistenze rotta/apt	3.25	3.00	2.43	2.41	2.80	3.25
11 Rete e-net	3.33	4.70	2.95	1.33	1.21	3.33
12 Interventi non progr. CNS/ATM	3.00	2.80	2.76	2.31	2.12	3.00
13 Multilaterazione	0.20	1.20	1.23	3.18	4.52	0.20
14 Sistemi meteo centrali	0.85	1.75	1.71	2.17	2.00	0.85
15 Allestimento TBT degli apt	1.59	0.50	0.57	3.47	2.00	1.59
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	34.82	-	-	-	-	34.82
1 Ampliamenti e ristr. ACC	0.18	-	-	-	-	0.18
2 Nuovo sistema ATM ACC	10.86	-	-	-	-	10.86
3 Nuove TWR/BT	1.48	-	-	-	-	1.48
4 Automazione operativa ACC	4.67	-	-	-	-	4.67
5 Radar	0.47	-	-	-	-	0.47
6 Torri remote	2.54	-	-	-	-	2.54
7 Centri radio TBT degli ACC	1.17	-	-	-	-	1.17
8 Manutenzione evolutiva	5.63	-	-	-	-	5.63
9 Ampliamenti e ristr. Edifici	0.07	-	-	-	-	0.07
10 Radioassistenze rotta/apt	1.77	-	-	-	-	1.77
11 Rete e-net	1.80	-	-	-	-	1.80
12 Interventi non progr. CNS/ATM	1.73	-	-	-	-	1.73
13 Multilaterazione	0.14	-	-	-	-	0.14
14 Sistemi meteo centrali	1.41	-	-	-	-	1.41
15 Allestimento TBT degli apt	0.89	-	-	-	-	0.89

COSTS OF NEW MAJOR INVESTMENTS

ITALY | ENAV

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(13.60)	-	-	-	-	(13.60)
1 Ampliamenti e ristr. ACC	(2.37)	-	-	-	-	(2.37)
2 Nuovo sistema ATM ACC	1.82	-	-	-	-	1.82
3 Nuove TWR/BT	(1.30)	-	-	-	-	(1.30)
4 Automazione operativa ACC	(4.96)	-	-	-	-	(4.96)
5 Radar	(0.98)	-	-	-	-	(0.98)
6 Torri remote	1.74	-	-	-	-	1.74
7 Centri radio TBT degli ACC	(3.27)	-	-	-	-	(3.27)
8 Manutenzione evolutiva	1.44	-	-	-	-	1.44
9 Ampliamenti e ristr. Edifici	(1.25)	-	-	-	-	(1.25)
10 Radioassistenze rotta/apt	(1.48)	-	-	-	-	(1.48)
11 Rete e-net	(1.53)	-	-	-	-	(1.53)
12 Interventi non progr. CNS/ATM	(1.27)	-	-	-	-	(1.27)
13 Multilaterazione	(0.06)	-	-	-	-	(0.06)
14 Sistemi meteo centrali	0.56	-	-	-	-	0.56
15 Allestimento TBT degli apt	(0.69)	-	-	-	-	(0.69)

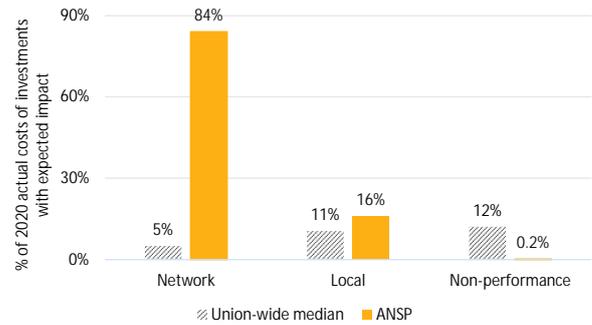
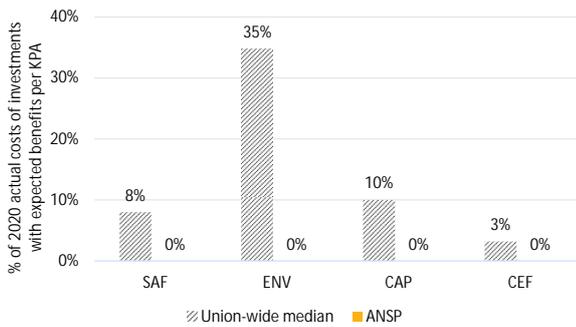


EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

ITALY | ENAV

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Ampliamenti e ristr. ACC				
2	Nuovo sistema ATM ACC				
3	Nuove TWR/BT				
4	Automazione operativa ACC				
5	Radar				
6	Torri remote				
7	Centri radio TBT degli ACC				
8	Manutenzione evolutiva				
9	Ampliamenti e ristr. Edifici				
10	Radioassistenze rotta/apt				
11	Rete e-net				
12	Interventi non progr. CNS/ATM				
13	Multilaterazione				
14	Sistemi meteo centrali				
15	Allestimento TBT degli apt				

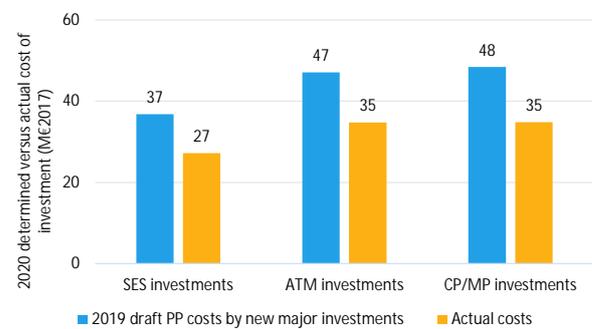
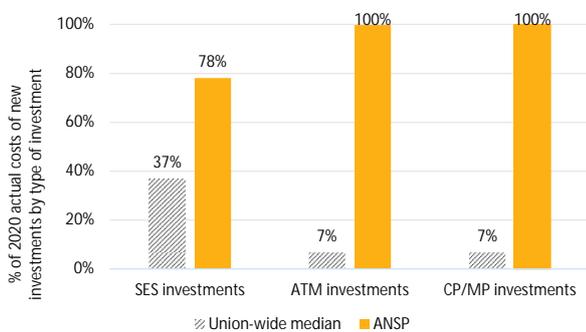
#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Ampliamenti e ristr. ACC	X		
2	Nuovo sistema ATM ACC	X		
3	Nuove TWR/BT		X	
4	Automazione operativa ACC	X		
5	Radar		X	
6	Torri remote		X	
7	Centri radio TBT degli ACC	X		
8	Manutenzione evolutiva	X		
9	Ampliamenti e ristr. Edifici	X		X
10	Radioassistenze rotta/apt	X		
11	Rete e-net	X		
12	Interventi non progr. CNS/ATM	X		
13	Multilaterazione		X	
14	Sistemi meteo centrali	X		
15	Allestimento TBT degli apt		X	



EXPECTED IMPACT AND BENEFIT PER NEW MAJOR INVESTMENT

ITALY | ENAV

#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	Ampliamenti e ristr. ACC	2025	Started	Yes	No	Yes	CP
2	Nuovo sistema ATM ACC	2024	Started	Yes	No	Yes	CP
3	Nuove TWR/BT	2023	Started	Yes	No	Yes	MP
4	Automazione operativa ACC	2020	Started	Yes	No	Yes	CP
5	Radar	2020	Started	No	No	Yes	CP
6	Torri remote	2023	Started	No	No	Yes	MP
7	Centri radio TBT degli ACC	2020	Started	Yes	No	Yes	CP
8	Manutenzione evolutiva	2023	Started	Yes	No	Yes	CP
9	Ampliamenti e ristr. Edifici	2022	Started	No	No	No	MP
10	Radioassistenze rotta/apt	2020	Started	No	No	Yes	MP
11	Rete e-net	2020	Started	Yes	No	Yes	CP
12	Interventi non progr. CNS/ATM	2020	Started	No	No	Yes	CP
13	Multilaterazione	2024	Started	No	No	Yes	CP
14	Sistemi meteo centrali	2021	Started	Yes	No	Yes	CP
15	Allestimento TBT degli apt	2024	Started	No	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

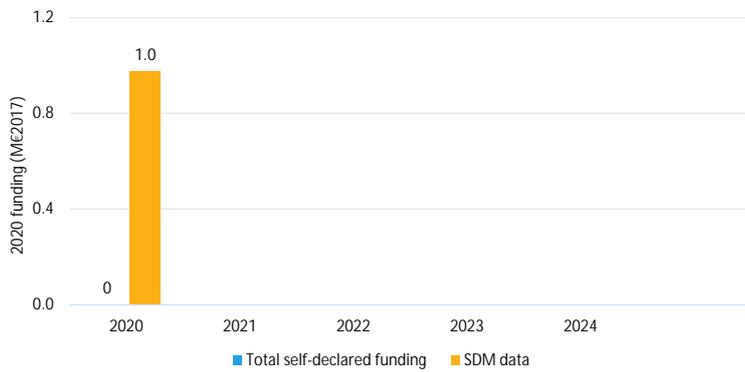
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Italy mentioned that the reduction in the actual costs of investments is due to lower implementation activities due to the pandemic and the subsequent national lockdown.

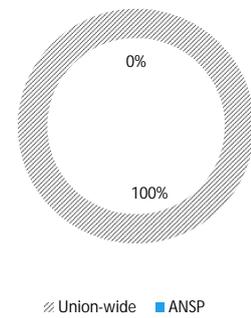
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

ITALY | ENAV

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.98)	-	-	-	-	(0.98)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	0.98	-	-	-	-	0.98



Declared funding in 2020 (M€2017)



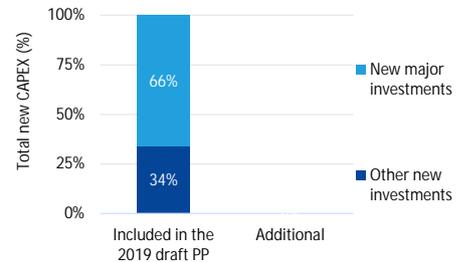
5.16 Latvia - LGS

Latvia underspent 5.9 M€₂₀₁₇ (-62%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Latvia planned four new major investments for RP3, two of which have started, one has been delayed and one has not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ LATVIA | LGS

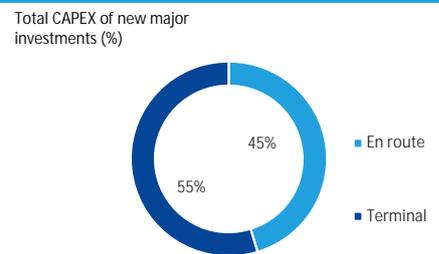
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	50.35	% of total
- New major investments (above 5M€ each)²	33.24	66%
- Included in the 2019 draft performance plan	33.24	66%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	17.11	34%
- Included in the 2019 draft performance plan	17.11	34%
- Additional	-	0%



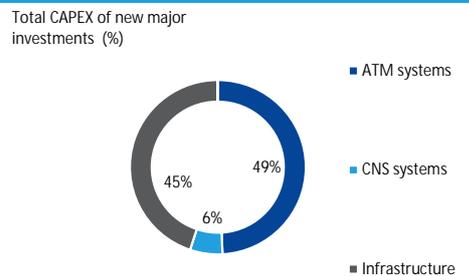
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major investments	33.24	% of total
- En route	15.04	45%
- Terminal	18.20	55%

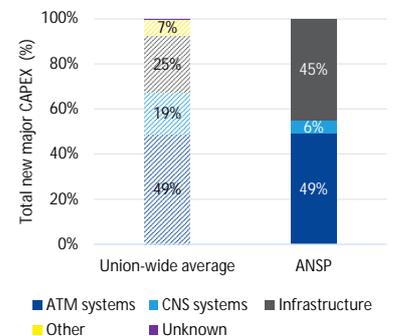
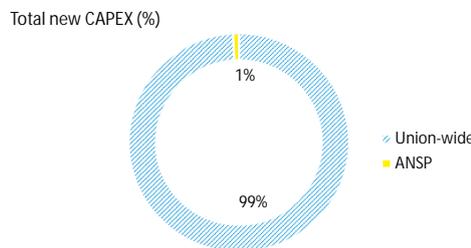
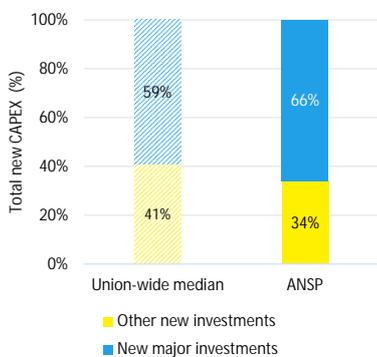


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	33.24	% of total
- ATM systems	16.32	49%
- CNS systems	2.00	6%
- Infrastructure	14.91	45%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

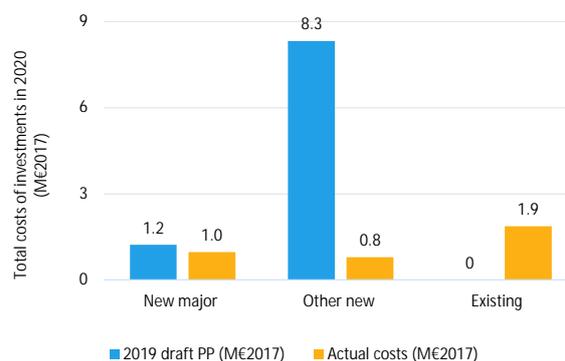
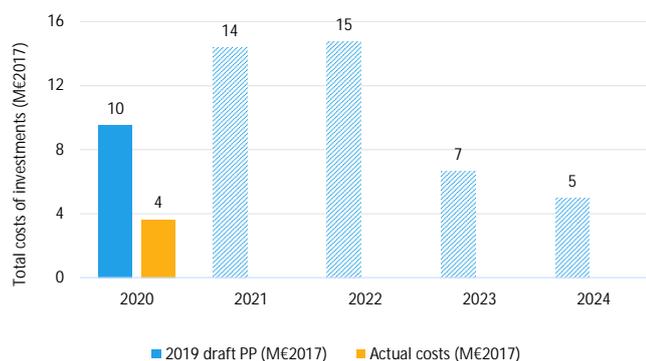
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LATVIA | LGS

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	9.54	14.39	14.76	6.66	4.99	9.54
- New major investments	1.22	10.19	13.07	5.08	3.68	1.22
- % New major investments in total costs of investments	13%	71%	89%	76%	74%	13%
- Other new investments	8.32	4.20	1.68	1.59	1.32	8.32
- % Other new investments in total costs of investments	87%	29%	11%	24%	26%	87%
- Existing investments	-	-	-	-	-	-
- % Existing investments in total costs of investments	0%	0%	0%	0%	0%	0%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	3.63	-	-	-	-	3.63
- New major investments	0.97	-	-	-	-	0.97
- % New major investments in total costs of investments	27%	-	-	-	-	27%
- Other new investments	0.79	-	-	-	-	0.79
- % Other new investments in total costs of investments	22%	-	-	-	-	22%
- Existing investments	1.87	-	-	-	-	1.87
- % Existing investments in total costs of investments	51%	-	-	-	-	51%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(5.91)	-	-	-	-	(5.91)
- New major investments	(0.25)	-	-	-	-	(0.25)
- % change of actual with respect to 2019 draft PP	-20%	-	-	-	-	-20%
- Other new investments	(7.53)	-	-	-	-	(7.53)
- % change of actual with respect to 2019 draft PP	-91%	-	-	-	-	-91%
- Existing investments	1.87	-	-	-	-	1.87
- % change of actual with respect to 2019 draft PP	N/A	-	-	-	-	N/A



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

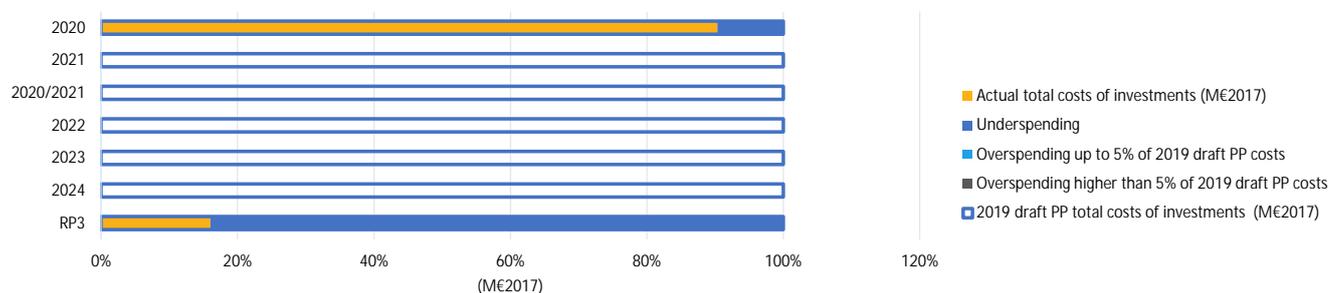
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LATVIA - En route | LGS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	3.65	4.16	7.81	3.55	4.32	4.94	3.65
Depreciation	2.71	2.97	5.68	2.14	2.87	3.56	2.71
Cost of capital	0.94	1.19	2.13	1.41	1.45	1.37	0.94
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	3.30	-	-	-	-	-	3.30
Depreciation	2.00	-	-	-	-	-	2.00
Cost of capital	1.30	-	-	-	-	-	1.30
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.35)	-	-	-	-	-	(0.35)
Depreciation	(0.72)	-	-	-	-	-	(0.72)
Cost of capital	0.36	-	-	-	-	-	0.36
Cost of leasing	-	-	-	-	-	-	-



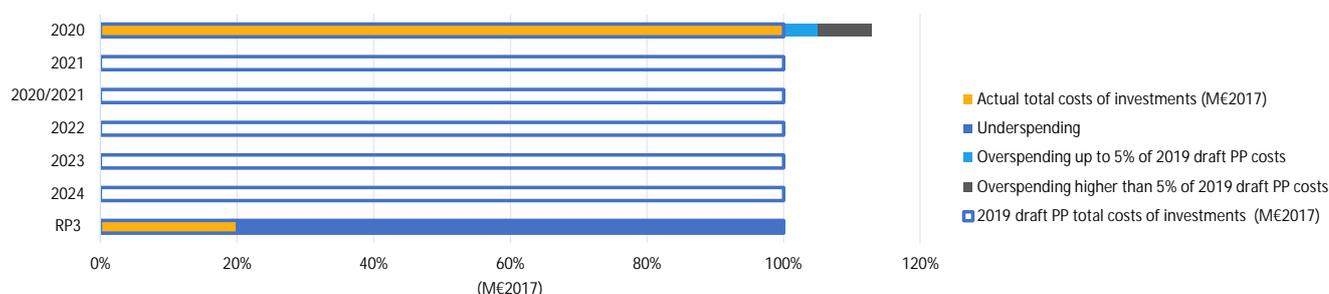
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LATVIA - Terminal | LGS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	1.64	1.88	3.51	1.64	1.95	2.23	1.64
Depreciation	1.22	1.34	2.55	0.96	1.29	1.60	1.22
Cost of capital	0.42	0.54	0.96	0.67	0.66	0.63	0.42
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.85	-	-	-	-	-	1.85
Depreciation	1.49	-	-	-	-	-	1.49
Cost of capital	0.36	-	-	-	-	-	0.36
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	0.21	-	-	-	-	-	0.21
Depreciation	0.27	-	-	-	-	-	0.27
Cost of capital	(0.06)	-	-	-	-	-	(0.06)
Cost of leasing	-	-	-	-	-	-	-

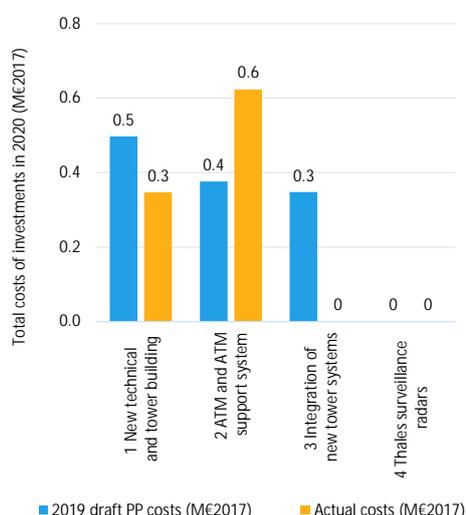


COSTS BY NEW MAJOR INVESTMENTS LATVIA | LGS

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	1.22	10.19	13.07	5.08	3.68	1.22
1 New technical and tower building	0.50	6.96	7.46	-	-	0.50
2 ATM and ATM support system modernization	0.38	1.59	2.64	2.09	1.67	0.38
3 Integration of new tower systems	0.35	1.64	2.98	2.98	-	0.35
4 Modernization of Thales surveillance radars 2024+	-	-	-	-	2.00	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.97	-	-	-	-	0.97
1 New technical and tower building	0.35	-	-	-	-	0.35
2 ATM and ATM support system modernization	0.62	-	-	-	-	0.62
3 Integration of new tower systems	-	-	-	-	-	-
4 Modernization of Thales surveillance radars 2024+	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.25)	-	-	-	-	(0.25)
1 New technical and tower building	(0.15)	-	-	-	-	(0.15)
2 ATM and ATM support system modernization	0.25	-	-	-	-	0.25
3 Integration of new tower systems	(0.35)	-	-	-	-	(0.35)
4 Modernization of Thales surveillance radars 2024+	-	-	-	-	-	-



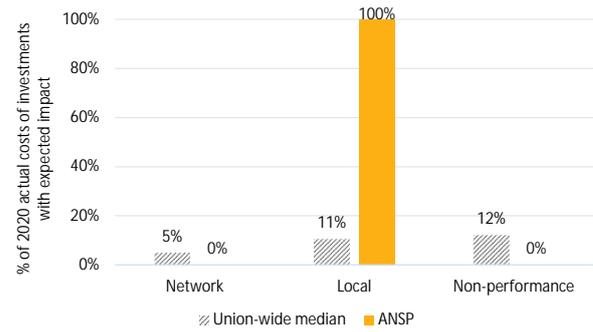
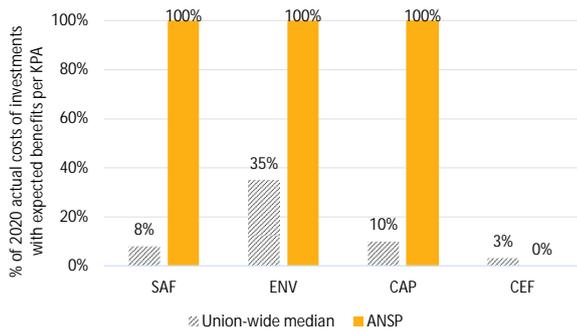
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

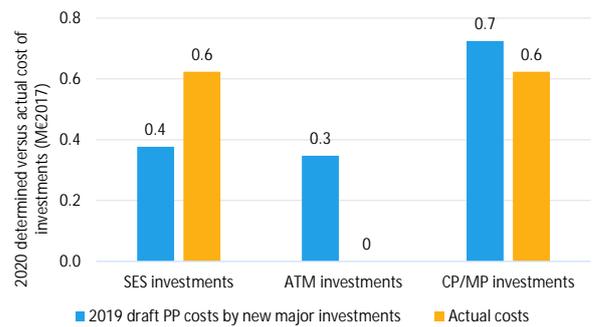
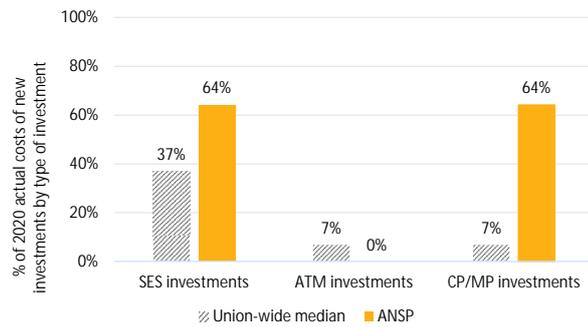
LATVIA | LGS

# New major Investments	Expected benefit per KPA			
	SAF	ENV	CAP	CEF
1 New technical and tower building	X	X	X	
2 ATM and ATM support system modernization	X	X	X	
3 Integration of new tower systems	X	X	X	
4 Modernization of Thales surveillance radars 2024+	X			

# New major Investments	Expected Impact		
	Network	Local	Non-performance
1 New technical and tower building		X	
2 ATM and ATM support system modernization		X	
3 Integration of new tower systems		X	
4 Modernization of Thales surveillance radars 2024+		X	



# New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
					ATM sytem	CP/ MP ²
1 New technical and tower building	2023	Started	No	No	No	-
2 ATM and ATM support system modernization	2024	Started	Yes	No	No	CP
3 Integration of new tower systems	Various	Delayed	No	No	Yes	MP
4 Modernization of Thales surveillance radars 2024+	2027	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

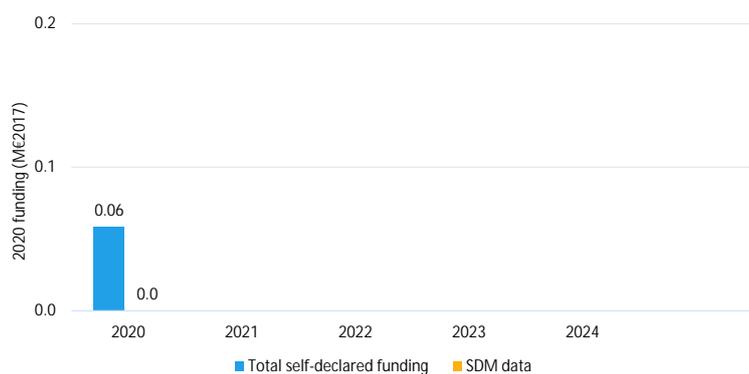
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

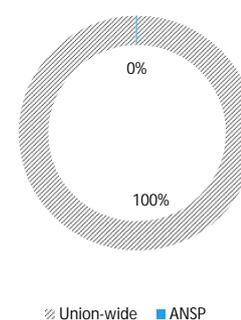
One investment has been marked as delayed due to not recording actual costs of investments in 2020.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) LATVIA | LGS

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.06	-	-	-	-	0.06
- En route funding declared	0.03	-	-	-	-	0.03
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.03</i>	-	-	-	-	<i>0.03</i>
- Terminal funding	0.03	-	-	-	-	0.03
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.03</i>	-	-	-	-	<i>0.03</i>
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	0.06	-	-	-	-	0.06
Total included in the funding declaration (reporting tables)	0.06	-	-	-	-	0.06
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



Latvia reported 0.06M€₂₀₁₇ funding in 2020. The funding was awarded for the projects: "CPDLC (SF13)", "KPI-16/131 (SF4)", "Borealis FRA Part-1 (SF5)", "Borealis FRA Part-2 (SF6)", "A-CDM Riga (SF7)", "CPDLC II (SF8.1)" and "DLS Impl. Path1 (SF8.2)". These projects could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

5.17 Lithuania - SE Oro Navigacija

Lithuania underspent 2.9M€₂₀₁₇ (-43%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Lithuania planned four new major investments for RP3, three of which have been possibly delayed and one has not started.

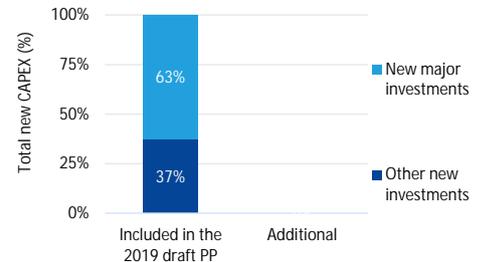
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

LITHUANIA | SE Oro Navigacija

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

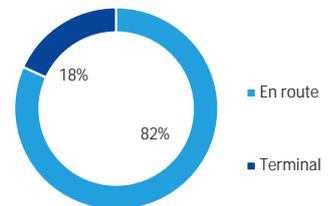
Total CAPEX for new Investments	27.90	% of total
- New major investments (above 5M€ each) ²	17.47	63%
Included in the 2019 draft performance plan	17.47	63%
Additional ³	-	0%
- Other new Investments (below 5M€ each) ⁴	10.43	37%
Included in the 2019 draft performance plan	10.43	37%
Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	17.47	% of total
- En route	14.28	82%
- Terminal	3.19	18%

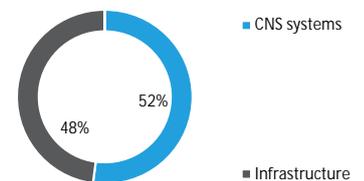
Total CAPEX of new major investments (%)

Planned CAPEX by type of Investment (M€₂₀₁₇)

RP3

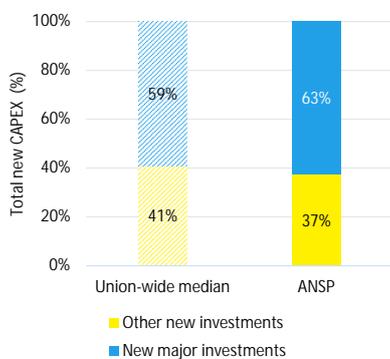
Total CAPEX for new major Investments	17.47	% of total
- ATM systems	-	0%
- CNS systems	9.11	52%
- Infrastructure	8.37	48%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

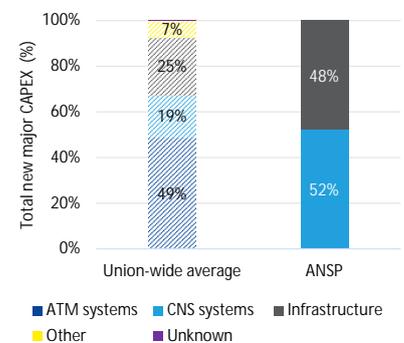
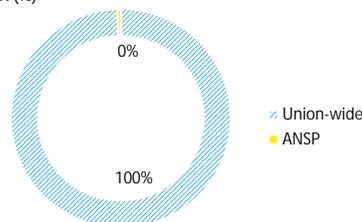


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

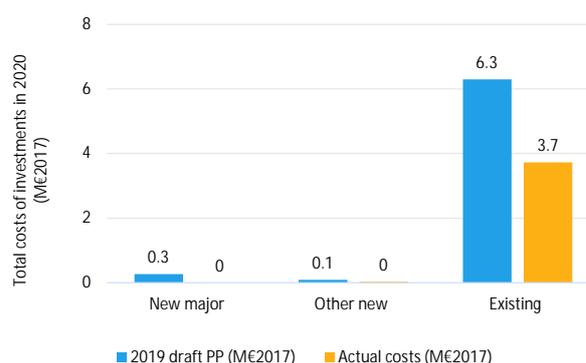
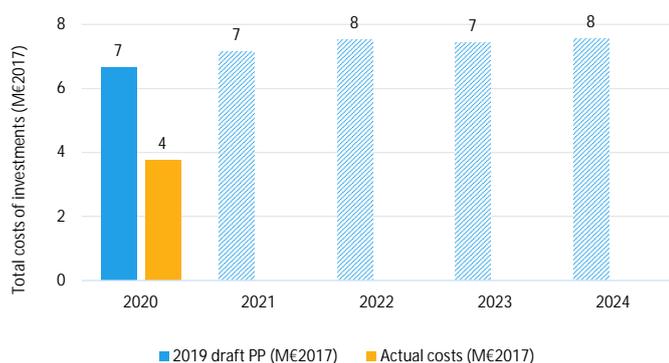
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LITHUANIA | SE Oro Navigacija

2019 draft PP costs: new and existing investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	6.65	7.14	7.51	7.44	7.54	6.65
- New major investments	0.26	0.79	1.15	1.28	1.65	0.26
- % <i>New major investments in total costs of investments</i>	4%	11%	15%	17%	22%	4%
- Other new investments	0.09	0.43	0.85	1.10	1.40	0.09
- % <i>Other new investments in total costs of investments</i>	1%	6%	11%	15%	19%	1%
- Existing investments	6.30	5.93	5.51	5.06	4.48	6.30
- % <i>Existing investments in total costs of investments</i>	95%	83%	73%	68%	59%	95%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	3.76	-	-	-	-	3.76
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	-	-	-	-	0%
- Other new investments	0.03	-	-	-	-	0.03
- % <i>Other new investments in total costs of investments</i>	1%	-	-	-	-	1%
- Existing investments	3.73	-	-	-	-	3.73
- % <i>Existing investments in total costs of investments</i>	99%	-	-	-	-	99%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(2.89)	-	-	-	-	(2.89)
- New major investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Other new investments	(0.06)	-	-	-	-	(0.06)
- % <i>change of actual with respect to 2019 draft PP</i>	-70%	-	-	-	-	-70%
- Existing investments	(2.57)	-	-	-	-	(2.57)
- % <i>change of actual with respect to 2019 draft PP</i>	-41%	-	-	-	-	-41%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

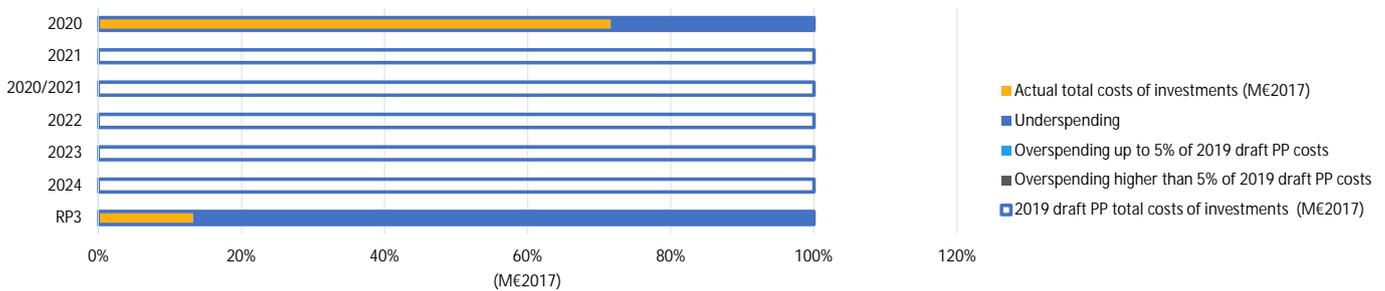
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LITHUANIA - En route | SE Oro Navigacija

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	5.07	5.41	10.48	5.66	5.61	5.65	5.07
Depreciation	3.72	4.06	7.77	4.34	4.39	4.47	3.72
Cost of capital	1.35	1.35	2.70	1.31	1.22	1.17	1.35
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing Investments	3.63	-	-	-	-	-	3.63
Depreciation	2.58	-	-	-	-	-	2.58
Cost of capital	1.05	-	-	-	-	-	1.05
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.44)	-	-	-	-	-	(1.44)
Depreciation	(1.14)	-	-	-	-	-	(1.14)
Cost of capital	(0.30)	-	-	-	-	-	(0.30)
Cost of leasing	-	-	-	-	-	-	-



Lithuania did not establish a terminal charging zone for RP3.

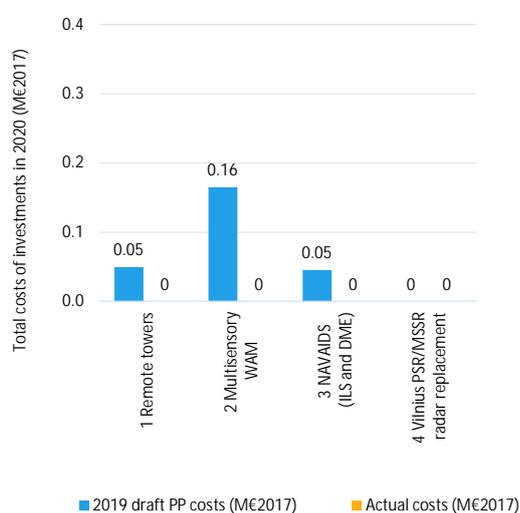
COSTS BY NEW MAJOR INVESTMENTS

LITHUANIA | SE Oro Navigacija

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of Investments	0.26	0.79	1.15	1.28	1.65	0.26
1 Remote tower technologies implementation in all Lithuanian aerodromes	0.05	0.25	0.50	0.65	0.86	0.05
2 Multisensory WAM system study and installation	0.16	0.36	0.38	0.37	0.36	0.16
3 NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement	0.05	0.18	0.26	0.25	0.24	0.05
4 Vilnius PSR/MSSR radar replacement	-	-	-	0.01	0.18	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	-	-	-	-	-	-
1 Remote tower technologies implementation in all Lithuanian aerodromes and	-	-	-	-	-	-
2 Multisensory WAM system study and installation	-	-	-	-	-	-
3 NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement	-	-	-	-	-	-
4 Vilnius PSR/MSSR radar replacement	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.26)	-	-	-	-	(0.26)
1 Remote tower technologies implementation in all Lithuanian aerodromes and	(0.05)	-	-	-	-	(0.05)
2 Multisensory WAM system study and installation	(0.16)	-	-	-	-	(0.16)
3 NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement	(0.05)	-	-	-	-	(0.05)
4 Vilnius PSR/MSSR radar replacement	-	-	-	-	-	-



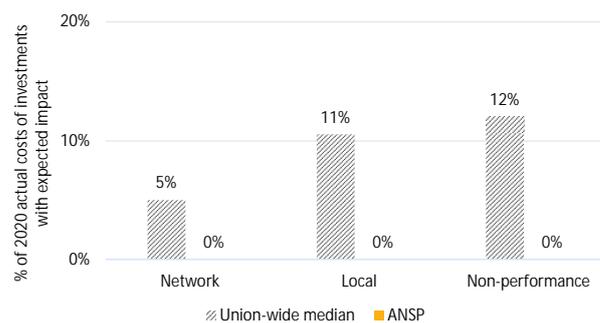
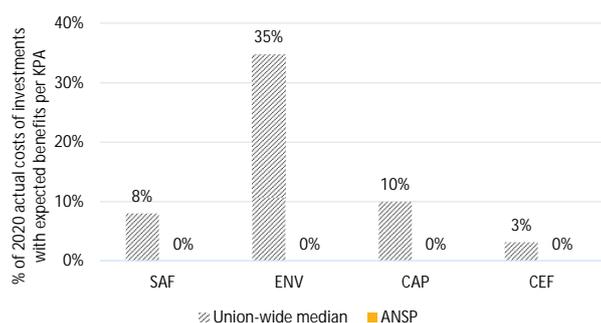
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

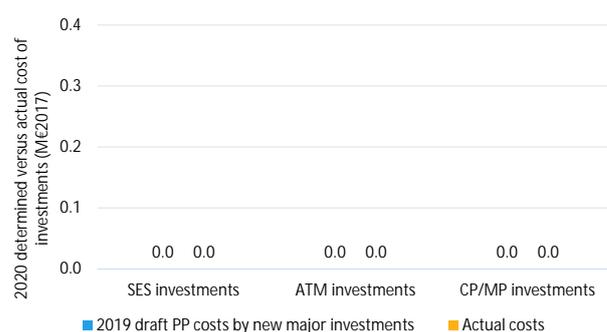
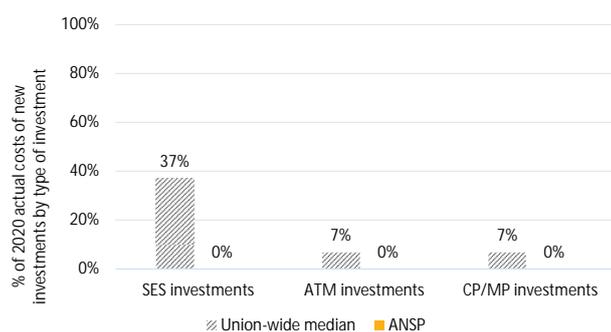
LITHUANIA | SE Oro Navigacija

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Remote tower technologies implementation in all Lithuanian aerodromes and	X			X
2	Multisensory WAM system study and installation	X			X
3	NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement				X
4	Vilnius PSR/MSSR radar replacement				X

#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Remote tower technologies implementation in all Lithuanian aerodromes and		X	
2	Multisensory WAM system study and installation		X	
3	NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement		X	
4	Vilnius PSR/MSSR radar replacement		X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Remote tower technologies implementation in all Lithuanian aerodromes and	2023	Delayed	No	No	No	-
2	Multisensory WAM system study and installation	2022	Delayed	No	No	No	-
3	NAVAIDS (ILS and DME) in Vilnius and Palanga aerodromes replacement	2022	Delayed	No	No	No	-
4	Vilnius PSR/MSSR radar replacement	2025	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

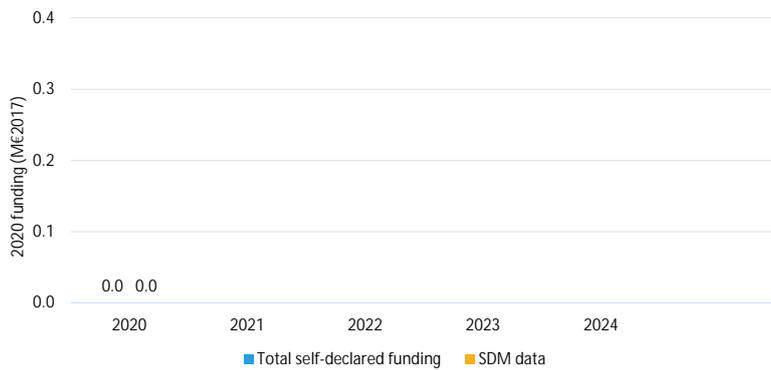
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Three investments have been marked as delayed due to not recording actual costs of investments in 2020.

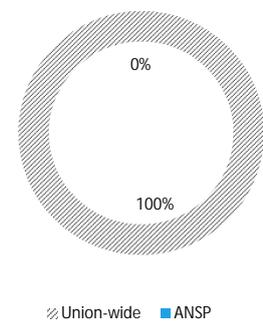
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

LITHUANIA | SE Oro Navigacija

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



5.18 Luxembourg - ANA LUX

Luxembourg underspent 0.9M€₂₀₁₇ (-29%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Luxembourg planned four new major investments for RP3, three of which have started and one has been possibly delayed.

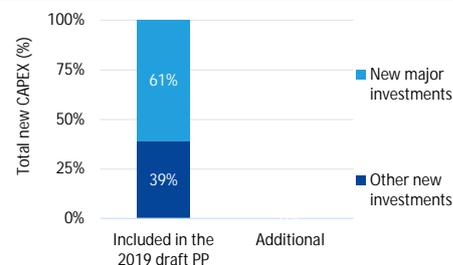
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

LUXEMBOURG | ANA LUX

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

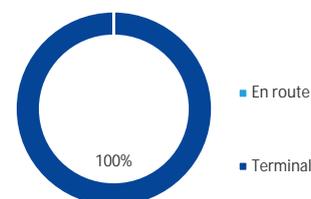
Total CAPEX for new Investments	18.71	% of total
- New major investments (above 5M€ each)²	11.36	61%
- Included in the 2019 draft performance plan	11.36	61%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	7.35	39%
- Included in the 2019 draft performance plan	7.35	39%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major investments	11.36	% of total
- En route	-	0%
- Terminal	11.36	100%

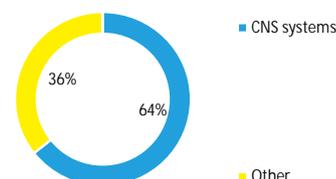
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

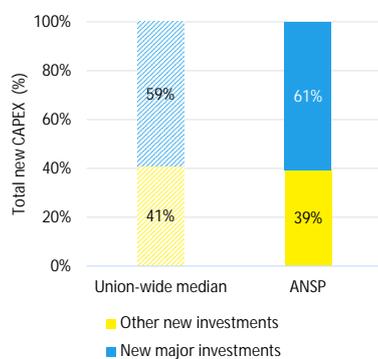
Total CAPEX for new major Investments	11.36	% of total
- ATM systems	-	0%
- CNS systems	7.31	64%
- Infrastructure	-	0%
- Other	4.05	36%
- Unknown	-	0%

Total CAPEX of new major investments (%)

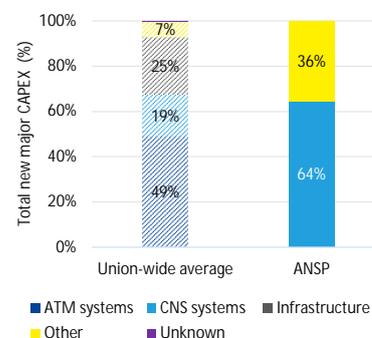
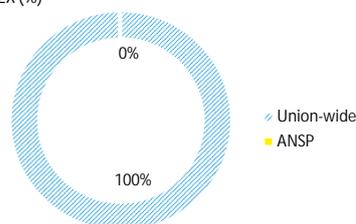


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

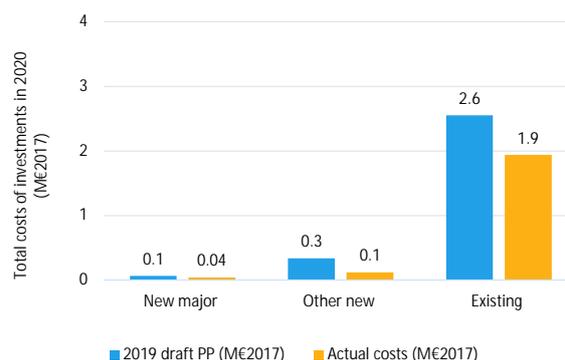
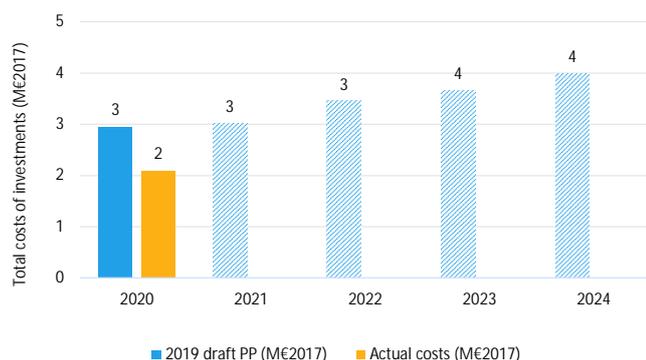
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LUXEMBOURG | ANA Lux

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	2.95	3.02	3.45	3.66	4.00	2.95
- New major investments	0.07	0.26	0.62	0.64	1.06	0.07
- % New major investments in total costs of investments	2%	8%	18%	17%	26%	2%
- Other new investments	0.34	0.63	0.67	1.00	1.00	0.34
- % Other new investments in total costs of investments	11%	21%	19%	27%	25%	11%
- Existing investments	2.55	2.13	2.17	2.03	1.93	2.55
- % Existing investments in total costs of investments	86%	71%	63%	55%	48%	86%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	2.09	-	-	-	-	2.09
- New major investments	0.04	-	-	-	-	0.04
- % New major investments in total costs of investments	2%	-	-	-	-	2%
- Other new investments	0.12	-	-	-	-	0.12
- % Other new investments in total costs of investments	6%	-	-	-	-	6%
- Existing investments	1.94	-	-	-	-	1.94
- % Existing investments in total costs of investments	93%	-	-	-	-	93%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(0.86)	-	-	-	-	(0.86)
- New major investments	(0.03)	-	-	-	-	(0.03)
- % change of actual with respect to 2019 draft PP	-42%	-	-	-	-	-42%
- Other new investments	(0.22)	-	-	-	-	(0.22)
- % change of actual with respect to 2019 draft PP	-65%	-	-	-	-	-65%
- Existing investments	(0.62)	-	-	-	-	(0.62)
- % change of actual with respect to 2019 draft PP	-24%	-	-	-	-	-24%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

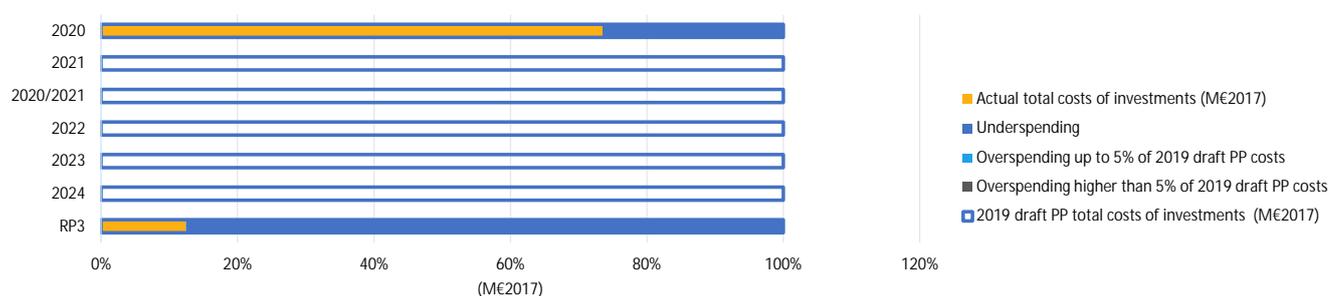
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LUXEMBOURG - En route | ANA Lux

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	0.87	0.89	1.76	1.02	1.08	1.27	0.87
Depreciation	0.73	0.81	1.54	0.86	0.93	1.12	0.73
Cost of capital	0.14	0.09	0.23	0.16	0.15	0.14	0.14
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	0.64	-	-	-	-	-	0.64
Depreciation	0.53	-	-	-	-	-	0.53
Cost of capital	0.11	-	-	-	-	-	0.11
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.23)	-	-	-	-	-	(0.23)
Depreciation	(0.20)	-	-	-	-	-	(0.20)
Cost of capital	(0.03)	-	-	-	-	-	(0.03)
Cost of leasing	-	-	-	-	-	-	-



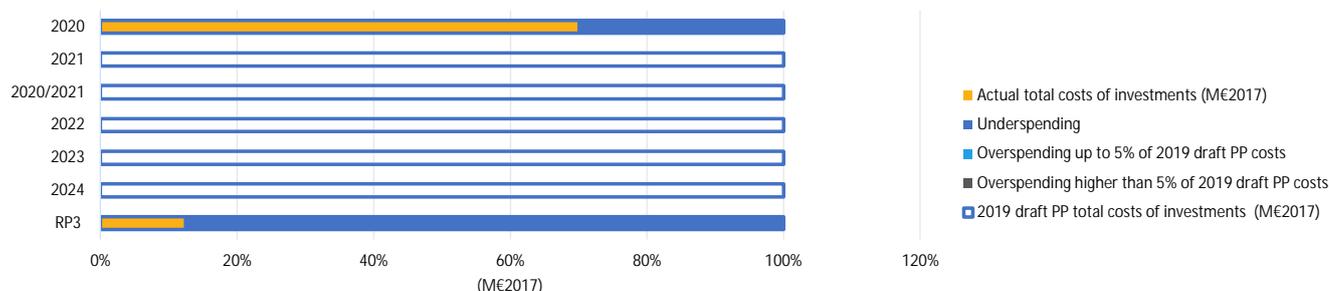
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

LUXEMBOURG - Terminal | ANA Lux

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	2.09	2.12	4.21	2.43	2.58	2.73	2.09
Depreciation	1.75	1.93	3.68	2.07	2.24	2.42	1.75
Cost of capital	0.33	0.19	0.53	0.37	0.34	0.31	0.33
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.46	-	-	-	-	-	1.46
Depreciation	1.20	-	-	-	-	-	1.20
Cost of capital	0.26	-	-	-	-	-	0.26
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.63)	-	-	-	-	-	(0.63)
Depreciation	(0.56)	-	-	-	-	-	(0.56)
Cost of capital	(0.07)	-	-	-	-	-	(0.07)
Cost of leasing	-	-	-	-	-	-	-

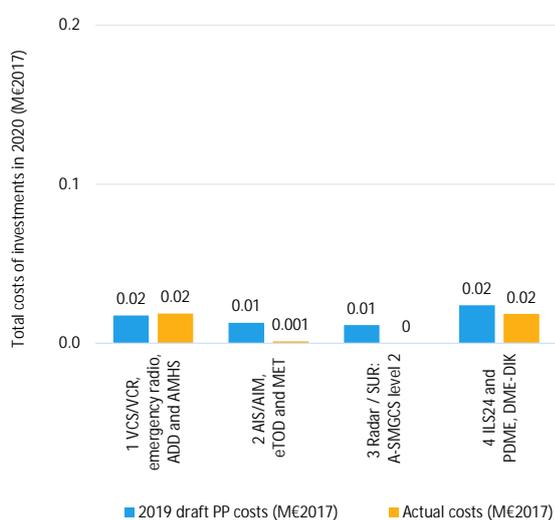


COSTS BY NEW MAJOR INVESTMENTS LUXEMBOURG | ANA Lux

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.07	0.26	0.62	0.64	1.06	0.07
1 Communication systems: VCS/VCR, emergency radio; ADD and AMHS	0.02	0.05	0.27	0.27	0.36	0.02
2 Aeronautical systems: AIS/AIM, eTOD and MET	0.01	0.06	0.07	0.08	0.41	0.01
3 Radar / SUR: A-SMGCS level 2 and updates	0.01	0.04	0.17	0.18	0.18	0.01
4 Navigation systems: ILS24 and PDME, DME-DIK	0.02	0.11	0.11	0.11	0.11	0.02

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.04	-	-	-	-	0.04
1 Communication systems: VCS/VCR, emergency radio; ADD and AMHS	0.02	-	-	-	-	0.02
2 Aeronautical systems: AIS/AIM, eTOD and MET	0.00	-	-	-	-	0.00
3 Radar / SUR: A-SMGCS level 2 and updates	-	-	-	-	-	-
4 Navigation systems: ILS24 and PDME, DME-DIK	0.02	-	-	-	-	0.02

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.03)	-	-	-	-	(0.03)
1 Communication systems: VCS/VCR, emergency radio; ADD and AMHS	0.00	-	-	-	-	0.00
2 Aeronautical systems: AIS/AIM, eTOD and MET	(0.01)	-	-	-	-	(0.01)
3 Radar / SUR: A-SMGCS level 2 and updates	(0.01)	-	-	-	-	(0.01)
4 Navigation systems: ILS24 and PDME, DME-DIK	(0.01)	-	-	-	-	(0.01)

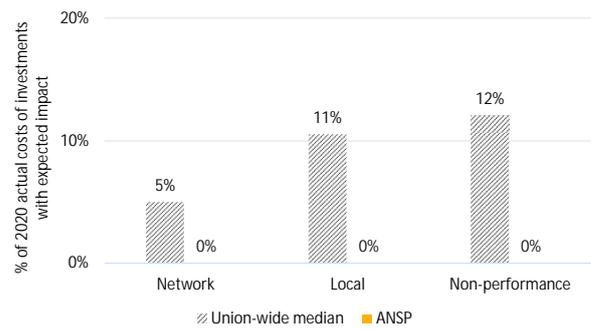
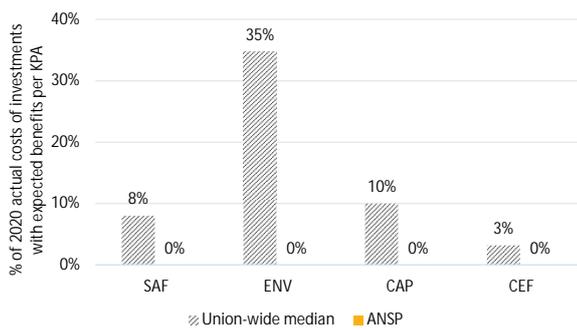


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

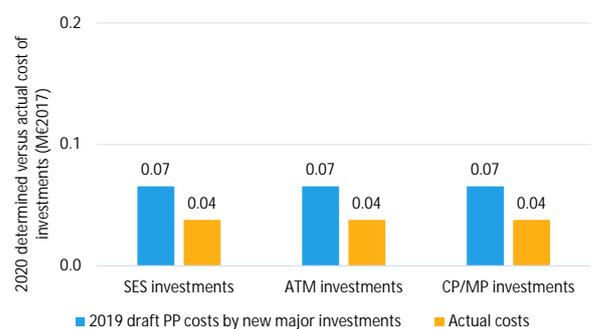
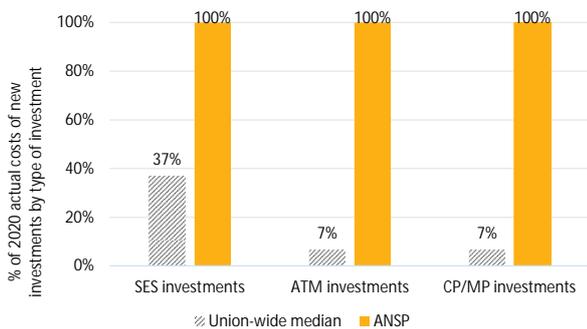
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Communication systems: VCS/VCR, emergency radio: ADD and AMHS				
2	Aeronautical systems: AIS/AIM, eTOD and MET				
3	Radar / SUR: A-SMGCS level 2 and updates				
4	Navigation systems: ILS24 and PDME, DME-DIK				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Communication systems: VCS/VCR, emergency radio: ADD and AMHS			
2	Aeronautical systems: AIS/AIM, eTOD and MET			
3	Radar / SUR: A-SMGCS level 2 and updates			
4	Navigation systems: ILS24 and PDME, DME-DIK			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Communication systems: VCS/VCR, emergency radio: ADD and AMHS	2024	Started	Yes	No	Yes	MP
2	Aeronautical systems: AIS/AIM, eTOD and MET	2021	Started	Yes	No	Yes	MP
3	Radar / SUR: A-SMGCS level 2 and updates	2021	Started	Yes	No	Yes	MP
4	Navigation systems: ILS24 and PDME, DME-DIK	2024	Started	Yes	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

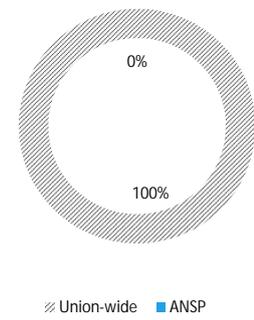
One investment has been marked as delayed due to not recording actual costs of investments in 2020.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) LUXEMBOURG | ANA Lux

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



Luxembourg did not report any funding in 2020.

5.19 Malta - MATS

Malta did not submit a monitoring report for 2020. The reporting tables indicate that Malta underspent 1.6M€₂₀₁₇ (-33%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Malta planned two new major investments for RP3, however their status was not reported.

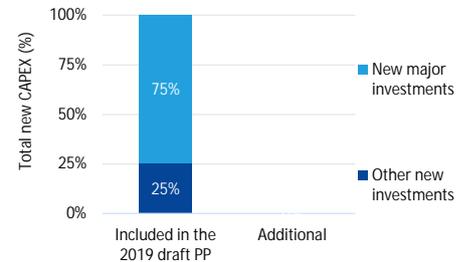
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

MALTA | MATS

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

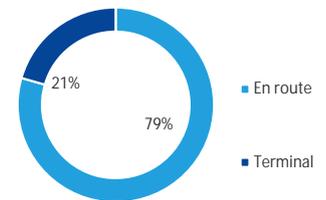
Total CAPEX for new Investments	76.88	% of total
- New major investments (above 5M€ each)²	57.50	75%
- Included in the 2019 draft performance plan	57.50	75%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	19.38	25%
- Included in the 2019 draft performance plan	19.38	25%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major investments	57.50	% of total
- En route	45.68	79%
- Terminal	11.83	21%

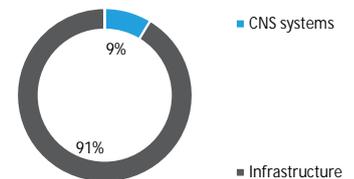
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

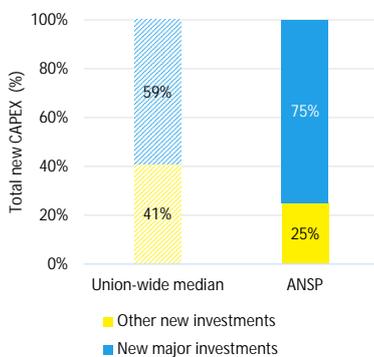
Total CAPEX for new major Investments	57.50	% of total
- ATM systems	-	0%
- CNS systems	5.00	9%
- Infrastructure	52.50	91%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

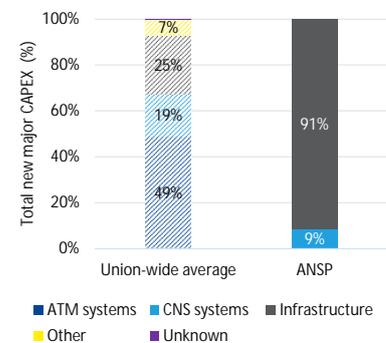
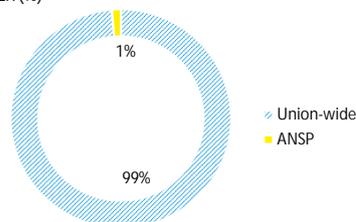


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

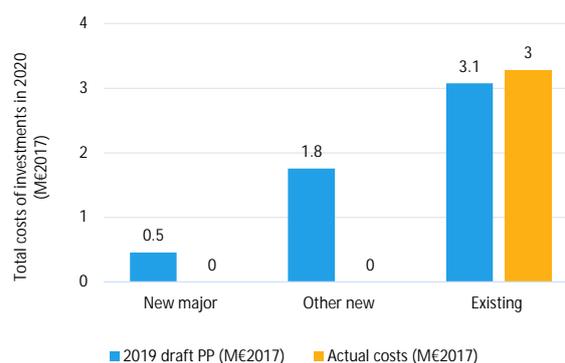
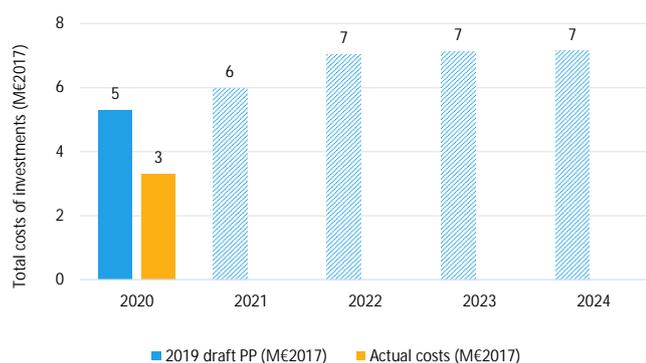
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

MALTA | MATS

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	5.29	5.98	7.05	7.14	7.14	5.29
- New major investments	0.46	1.81	0.70	0.18	0.11	0.46
- % New major investments in total costs of investments	9%	30%	10%	3%	2%	9%
- Other new investments	1.76	1.98	2.62	2.87	2.96	1.76
- % Other new investments in total costs of investments	33%	33%	37%	40%	41%	33%
- Existing investments	3.08	2.18	3.73	4.09	4.07	3.08
- % Existing investments in total costs of investments	58%	37%	53%	57%	57%	58%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	3.29	-	-	-	-	3.29
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	-	-	-	-	-	-
- % Other new investments in total costs of investments	0%	-	-	-	-	0%
- Existing investments	3.29	-	-	-	-	3.29
- % Existing investments in total costs of investments	100%	-	-	-	-	100%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(2.00)	-	-	-	-	(2.00)
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Existing investments	0.21	-	-	-	-	0.21
- % change of actual with respect to 2019 draft PP	7%	-	-	-	-	7%



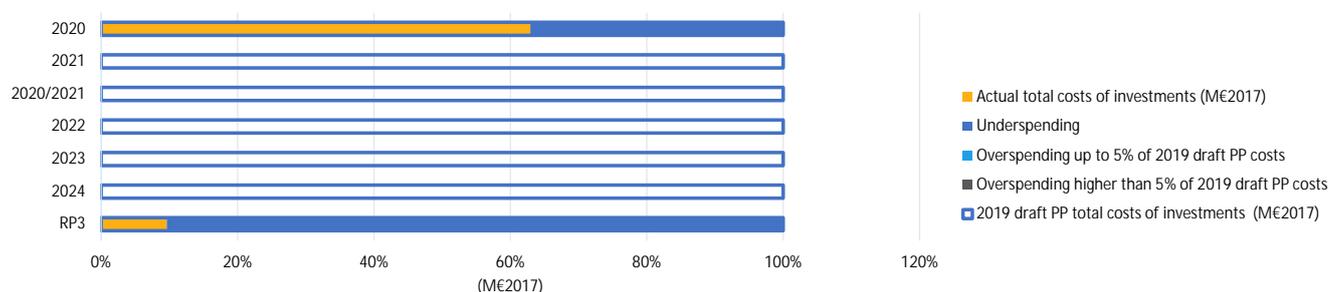
1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

The monitoring report submitted by Malta does not include the actual costs of investments, in any category. However, the report mentions that all investments have been suspended in 2020, following the COVID-19 pandemic, and the reporting tables include values for depreciation, cost of capital and cost of leasing, therefore it is assumed that these amounts correspond to existing investments.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

MALTA - En route | MATS

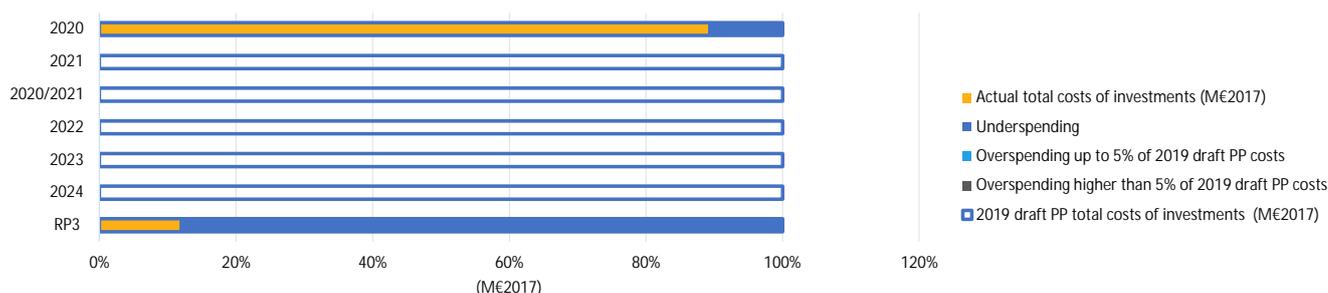
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	4.09	5.00	9.08	5.71	5.92	6.07	4.09
Depreciation	3.29	3.60	6.89	3.59	3.65	3.73	3.29
Cost of capital	0.79	1.40	2.19	2.12	2.27	2.34	0.79
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	2.57	-	-	-	-	-	2.57
Depreciation	2.18	-	-	-	-	-	2.18
Cost of capital	0.39	-	-	-	-	-	0.39
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.52)	-	-	-	-	-	(1.52)
Depreciation	(1.11)	-	-	-	-	-	(1.11)
Cost of capital	(0.41)	-	-	-	-	-	(0.41)
Cost of leasing	-	-	-	-	-	-	-



COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

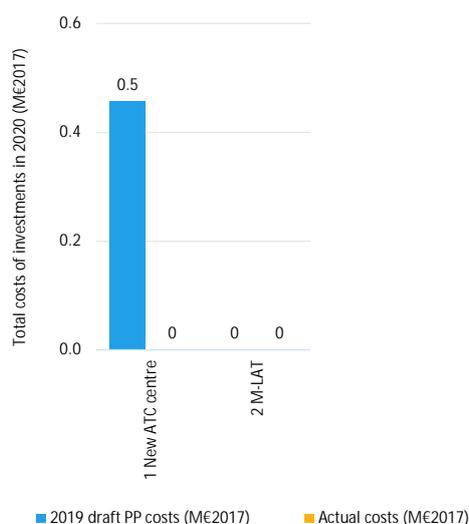
MALTA - Terminal | MATS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	0.80	1.05	1.85	1.39	1.45	1.43	0.80
Depreciation	0.65	0.77	1.41	0.99	1.05	1.06	0.65
Cost of capital	0.16	0.28	0.44	0.40	0.40	0.37	0.16
Cost of leasing	-	-	-	-	-	-	-
Actual costs by nature (M€₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	0.72	-	-	-	-	-	0.72
Depreciation	0.62	-	-	-	-	-	0.62
Cost of capital	0.10	-	-	-	-	-	0.10
Cost of leasing	-	-	-	-	-	-	-
Actual minus 2019 draft PP cost (M€₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.09)	-	-	-	-	-	(0.09)
Depreciation	(0.03)	-	-	-	-	-	(0.03)
Cost of capital	(0.06)	-	-	-	-	-	(0.06)
Cost of leasing	-	-	-	-	-	-	-



Malta did not report the determined cost of capital in the 2019 draft performance plan or in the monitoring report of 2020, therefore the monetary value of the cost of capital has been calculated by multiplying the net book value of the assets (NBV) with the weighted average cost of capital (WACC).

COSTS BY NEW MAJOR INVESTMENTS						MALTA MATS
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.46	1.81	0.70	0.18	0.11	0.46
1 New ATC centre	0.46	0.96	0.70	0.18	0.11	0.46
2 M-LAT	-	0.86	-	-	-	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 New ATC centre	-	-	-	-	-	-
2 M-LAT	-	-	-	-	-	-
Actual minus 2019 draft PP costs of investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(0.46)	-	-	-	-	(0.46)
1 New ATC centre	(0.46)	-	-	-	-	(0.46)
2 M-LAT	-	-	-	-	-	-



1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

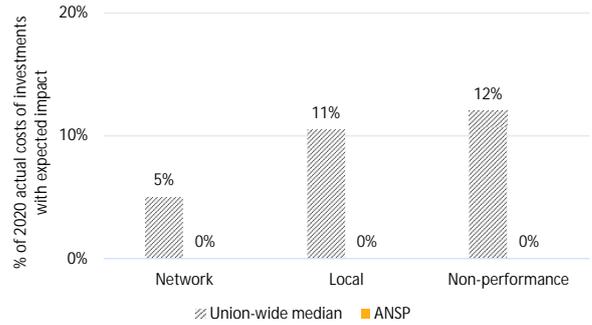
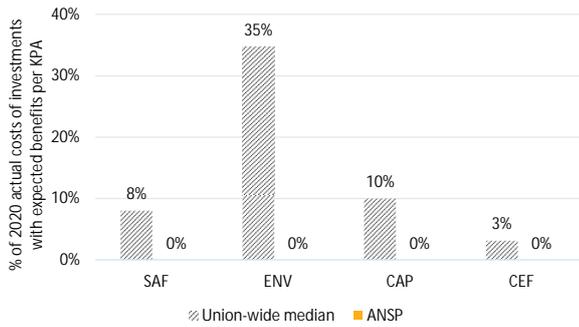
Malta noted that all the investments have been suspended in 2020 as a result of the COVID-19 pandemic.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

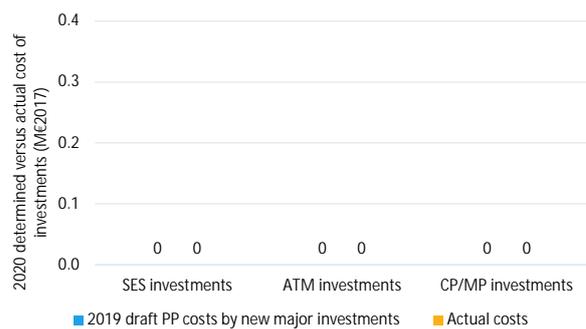
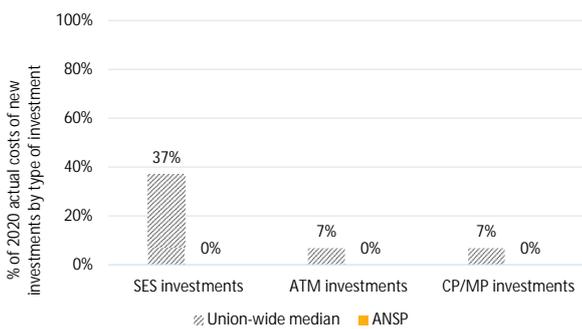
MALTA | MATS

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	New ATC centre	X	X	X	X
2	M-LAT	X		X	X

#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	New ATC centre	X	X	X
2	M-LAT		X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	New ATC centre	2024	Delayed	No	No	No	-
2	M-LAT	2024	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

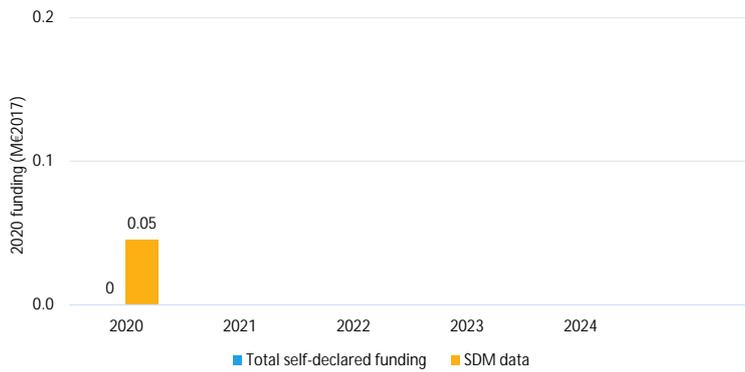
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

The new major "New ATC centre" investment has been marked as delayed due to not recording actual costs in 2020.

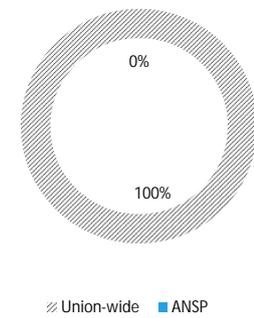
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

MALTA | MATS

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(0.05)	-	-	-	-	(0.05)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	0.05	-	-	-	-	0.05



Declared funding in 2020 (M€2017)



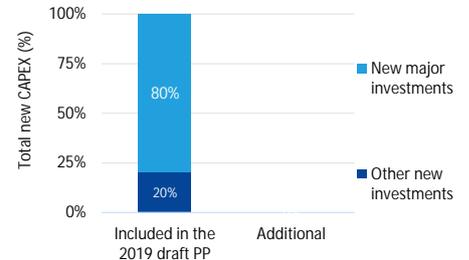
5.20 Maastricht Upper Area Control Centre (MUAC)

MUAC underspent 1.2M€₂₀₁₇ (-11%) in 2020 in cost of capital and depreciation with respect to the 2019 draft performance plan. MUAC planned five new major investments for RP3, three of which have started and two have not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ MUAC

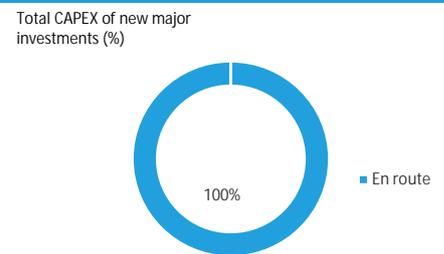
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	76.95	% of total
- New major investments (above 5M€ each)²	61.34	80%
- Included in the 2019 draft performance plan	61.34	80%
- Additional ³	-	0%
- Other new Investments (below 5M€ each)⁴	16	20%
- Included in the 2019 draft performance plan	16	20%
- Additional	-	0%



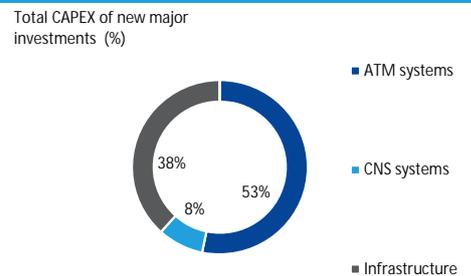
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	61.34	% of total
- En route	61.34	100%
- Terminal	-	0%

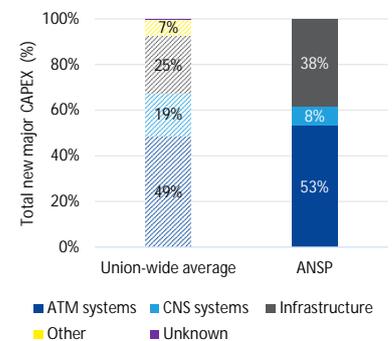
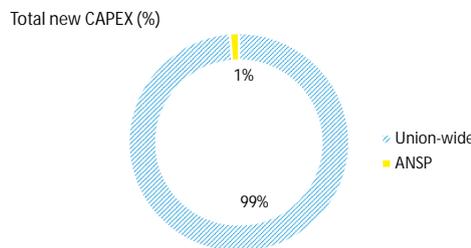
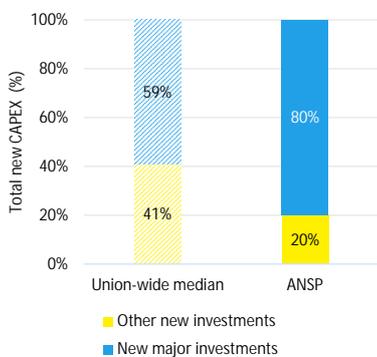


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	61.34	% of total
- ATM systems	32.65	53%
- CNS systems	5.20	8%
- Infrastructure	23.49	38%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

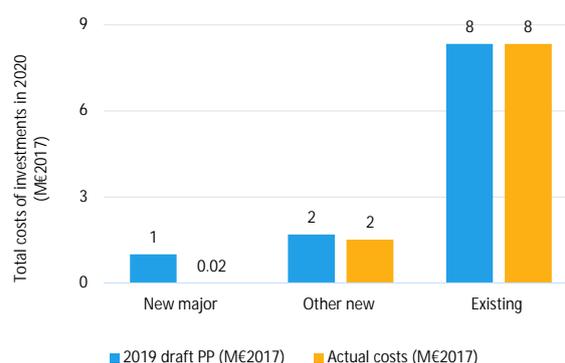
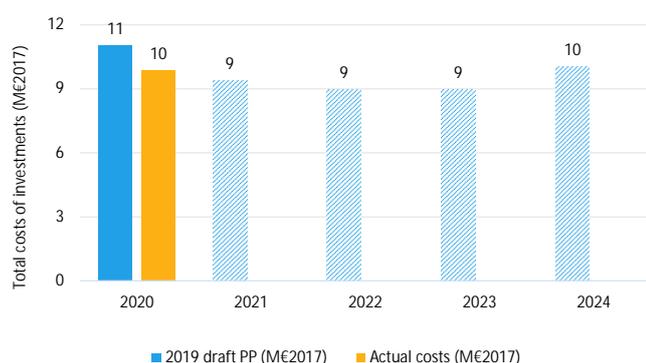
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

MUAC

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	11.04	9.37	8.98	8.97	10.05	11.04
- New major investments	1.00	2.00	1.98	1.96	3.35	1.00
- % New major investments in total costs of investments	9%	21%	22%	22%	33%	9%
- Other new investments	1.70	3.02	3.22	3.34	3.58	1.70
- % Other new investments in total costs of investments	15%	32%	36%	37%	36%	15%
- Existing investments	8.34	4.34	3.78	3.67	3.12	8.34
- % Existing investments in total costs of investments	76%	46%	42%	41%	31%	76%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	9.88	-	-	-	-	9.88
- New major investments	0.02	-	-	-	-	0.02
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	1.52	-	-	-	-	1.52
- % Other new investments in total costs of investments	15%	-	-	-	-	15%
- Existing investments	8.34	-	-	-	-	8.34
- % Existing investments in total costs of investments	84%	-	-	-	-	84%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(1.16)	-	-	-	-	(1.16)
- New major investments	(0.98)	-	-	-	-	(0.98)
- % change of actual with respect to 2019 draft PP	-98%	-	-	-	-	-98%
- Other new investments	(0.18)	-	-	-	-	(0.18)
- % change of actual with respect to 2019 draft PP	-11%	-	-	-	-	-11%
- Existing investments	0.00	-	-	-	-	0.00
- % change of actual with respect to 2019 draft PP	0%	-	-	-	-	0%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

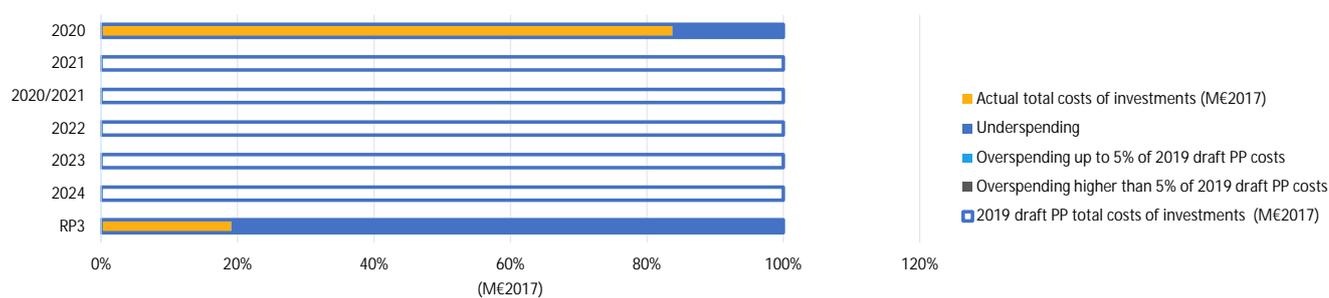
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

En route | MUAC

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	11.04	9.37	20.41	8.98	8.97	10.08	11.04
Depreciation	10.50	8.77	19.27	8.34	8.27	9.29	10.50
Cost of capital	0.54	0.59	1.14	0.65	0.70	0.79	0.54
Cost of leasing	-	-	-	-	-	-	-

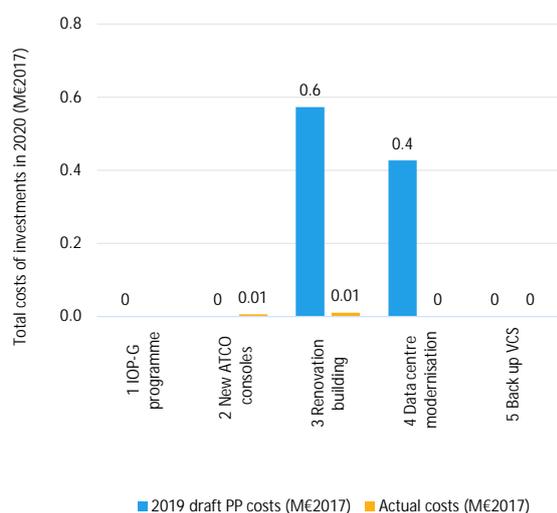
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	9.24	-	-	-	-	-	9.24
Depreciation	9.10	-	-	-	-	-	9.10
Cost of capital	0.14	-	-	-	-	-	0.14
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.79)	-	-	-	-	-	(1.79)
Depreciation	(1.40)	-	-	-	-	-	(1.40)
Cost of capital	(0.40)	-	-	-	-	-	(0.40)
Cost of leasing	-	-	-	-	-	-	-



Any under / overspending by MUAC is reimbursed to or collected from airspace users as part of the charging zones of Belgium-Luxembourg, the Netherlands, and Germany.

COSTS BY NEW MAJOR INVESTMENTS						MUAC
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	1.00	2.00	1.98	1.96	3.35	1.00
1 IOP-G programme (IOPG)	-	-	-	-	-	-
2 New ATCO consoles (NCON)	-	-	-	-	1.03	-
3 Renovation building (RENV)	0.57	1.15	1.14	1.13	1.12	0.57
4 Data centre modernisation (DCMO)	0.43	0.85	0.85	0.84	0.83	0.43
5 Back up voice communication system (BVCS)	-	-	-	-	0.38	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	0.02	-	-	-	-	0.02
1 IOP-G programme (IOPG)	-	-	-	-	-	-
2 New ATCO consoles (NCON)	0.01	-	-	-	-	0.01
3 Renovation building (RENV)	0.01	-	-	-	-	0.01
4 Data centre modernisation (DCMO)	-	-	-	-	-	-
5 Back up voice communication system (BVCS)	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(0.98)	-	-	-	-	(0.98)
1 IOP-G programme (IOPG)	-	-	-	-	-	-
2 New ATCO consoles (NCON)	0.01	-	-	-	-	0.01
3 Renovation building (RENV)	(0.56)	-	-	-	-	(0.56)
4 Data centre modernisation (DCMO)	(0.43)	-	-	-	-	(0.43)
5 Back up voice communication system (BVCS)	-	-	-	-	-	-

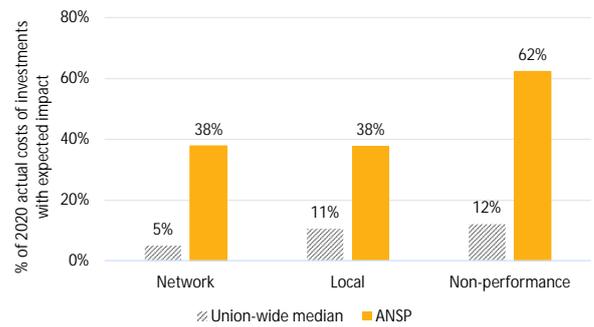
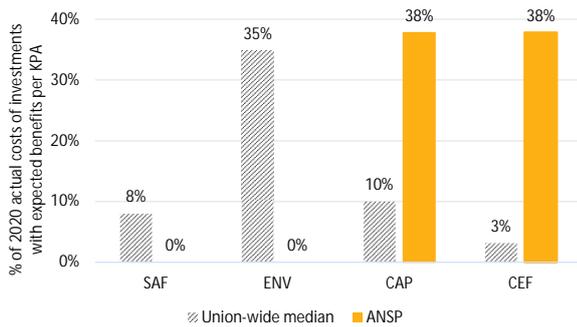


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

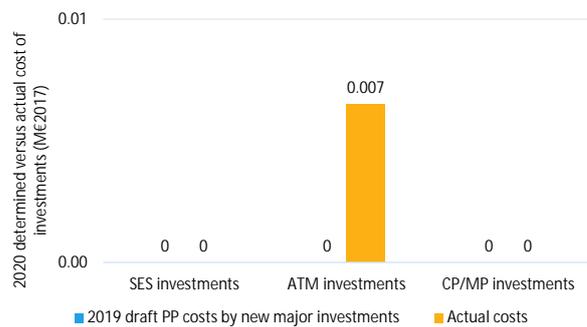
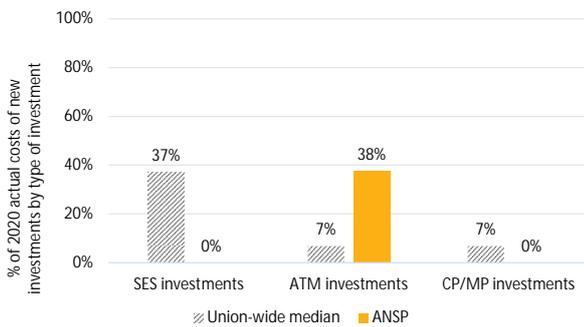
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT **MUAC**

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	IOP-G programme (IOPG)				
2	New ATCO consoles (NCON)			X	X
3	Renovation building (RENV)				
4	Data centre modernisation (DCMO)		X		
5	Back up voice communication system (BVCS)				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	IOP-G programme (IOPG)			
2	New ATCO consoles (NCON)	X	X	
3	Renovation building (RENV)			X
4	Data centre modernisation (DCMO)			X
5	Back up voice communication system (BVCS)			X



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	IOP-G programme (IOPG)	2019-2028	Not started	Yes	Yes	Yes	CP
2	New ATCO consoles (NCON)	2020-2029	Not started	No	No	Yes	-
3	Renovation building (RENV)	2019-2025	Started	No	No	No	-
4	Data centre modernisation (DCMO)	2020-2028	Started	No	No	No	-
5	Back up voice communication system (BVCS)	2020-2026	Not started	No	Yes	Yes	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

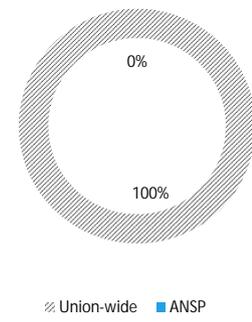
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) MUAC

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



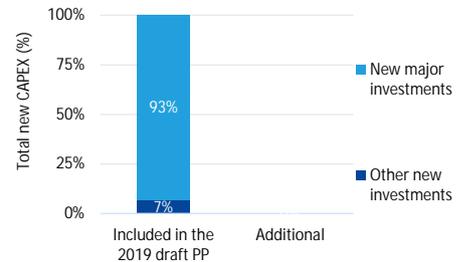
5.21 The Netherlands - LVNL

The Netherlands underspent 0.5M€₂₀₁₇ (-2%) in costs related to investments in 2020 compared to the 2019 draft performance plan. The Netherlands planned eight new major investments for RP3, five of which have started, two may have been delayed and one has not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ NETHERLANDS | LVNL

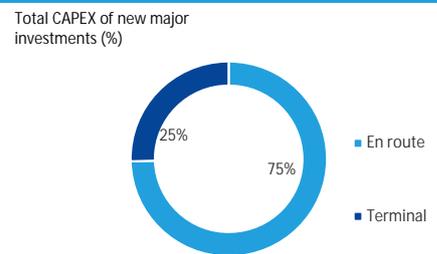
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	423.84	% of total
- New major investments (above 5M€ each)²	394.06	93%
- Included in the 2019 draft performance plan	394.06	93%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	29.78	7%
- Included in the 2019 draft performance plan	29.78	7%
- Additional	-	0%



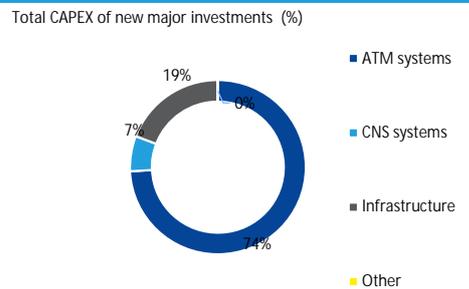
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major investments	394.06	% of total
- En route	294.02	75%
- Terminal	100.04	25%

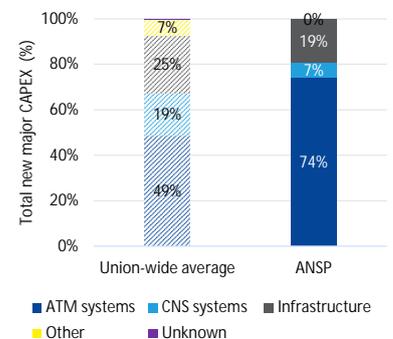
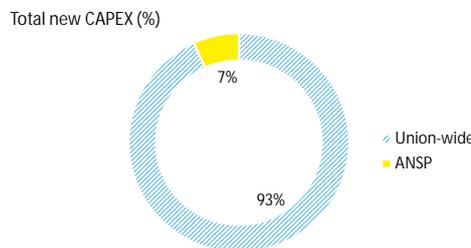
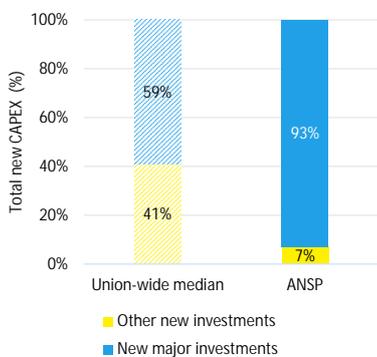


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	394.06	% of total
- ATM systems	292.70	74%
- CNS systems	25.70	7%
- Infrastructure	75.66	19%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

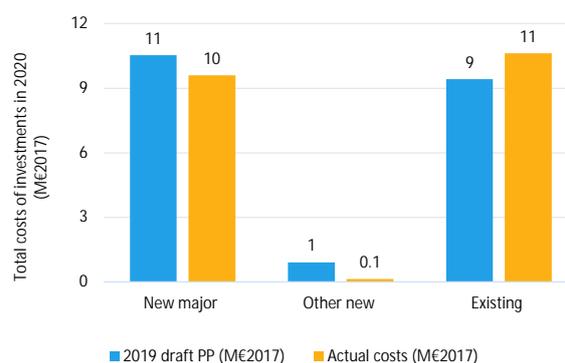
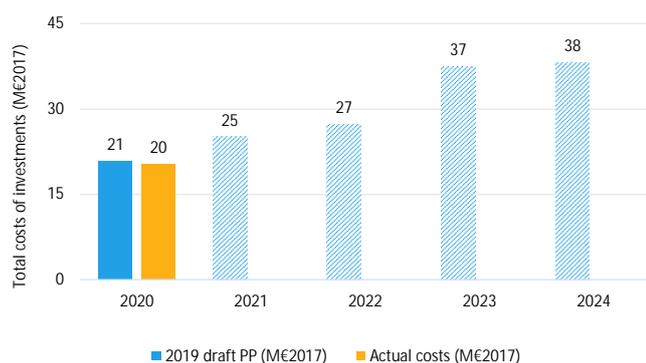
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NETHERLANDS | LVNL

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	20.85	25.12	27.23	37.50	38.15	20.85
- New major investments	10.53	14.60	17.69	27.17	28.60	10.53
- % New major investments in total costs of investments	50%	58%	65%	72%	75%	50%
- Other new investments	0.91	2.29	3.02	4.05	4.62	0.91
- % Other new investments in total costs of investments	4%	9%	11%	11%	12%	4%
- Existing investments	9.42	8.24	6.51	6.28	4.93	9.42
- % Existing investments in total costs of investments	45%	33%	24%	17%	13%	45%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	20.36	-	-	-	-	20.36
- New major investments	9.60	-	-	-	-	9.60
- % New major investments in total costs of investments	47%	-	-	-	-	47%
- Other new investments	0.14	-	-	-	-	0.14
- % Other new investments in total costs of investments	1%	-	-	-	-	1%
- Existing investments	10.62	-	-	-	-	10.62
- % Existing investments in total costs of investments	52%	-	-	-	-	52%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(0.50)	-	-	-	-	(0.50)
- New major investments	(0.93)	-	-	-	-	(0.93)
- % change of actual with respect to 2019 draft PP	-9%	-	-	-	-	-9%
- Other new investments	(0.77)	-	-	-	-	(0.77)
- % change of actual with respect to 2019 draft PP	-85%	-	-	-	-	-85%
- Existing investments	1.21	-	-	-	-	1.21
- % change of actual with respect to 2019 draft PP	13%	-	-	-	-	13%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

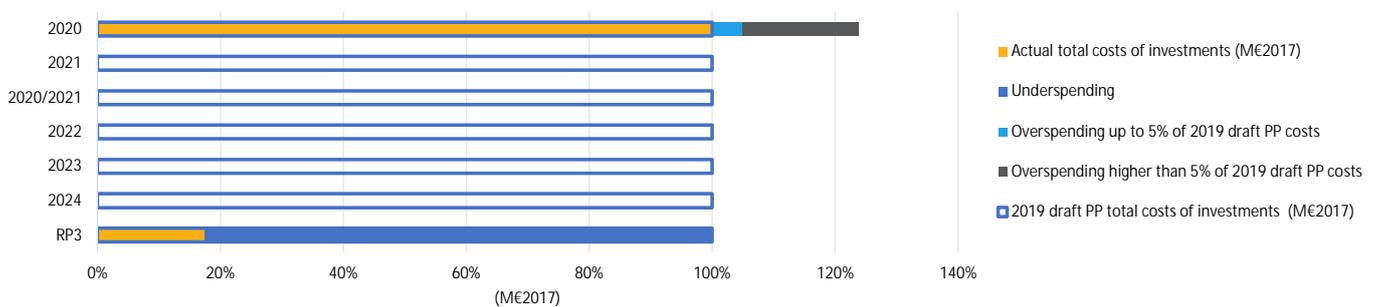
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NETHERLANDS - En route | LVNL

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	14.08	16.99	31.07	18.02	25.20	25.68	14.08
Depreciation	13.53	16.21	29.74	16.98	23.18	23.51	13.53
Cost of capital	0.55	0.78	1.32	1.04	2.02	2.17	0.55
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	17.44	-	-	-	-	-	17.44
Depreciation	17.14	-	-	-	-	-	17.14
Cost of capital	0.30	-	-	-	-	-	0.30
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	3.36	-	-	-	-	-	3.36
Depreciation	3.61	-	-	-	-	-	3.61
Cost of capital	(0.25)	-	-	-	-	-	(0.25)
Cost of leasing	-	-	-	-	-	-	-



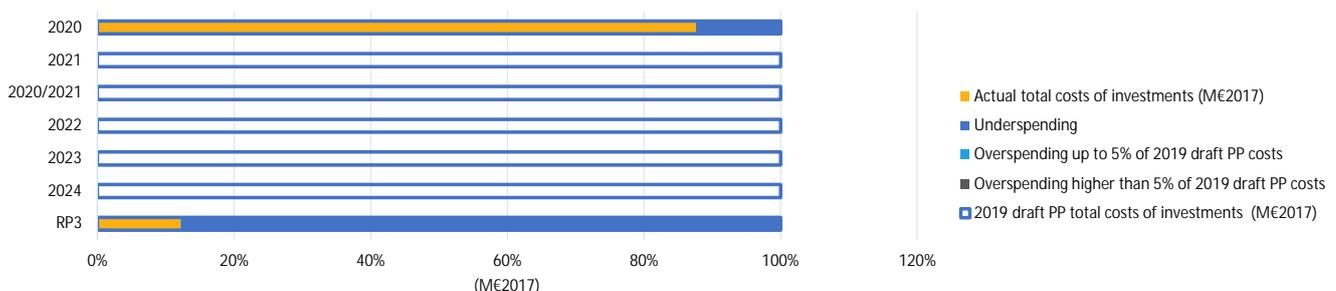
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NETHERLANDS - Terminal | LVNL

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	6.78	8.13	14.90	9.20	12.30	12.47	6.78
Depreciation	6.51	7.75	14.26	8.70	11.34	11.45	6.51
Cost of capital	0.26	0.37	0.64	0.50	0.95	1.02	0.26
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	5.94	-	-	-	-	-	5.94
Depreciation	5.80	-	-	-	-	-	5.80
Cost of capital	0.13	-	-	-	-	-	0.13
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.84)	-	-	-	-	-	(0.84)
Depreciation	(0.71)	-	-	-	-	-	(0.71)
Cost of capital	(0.13)	-	-	-	-	-	(0.13)
Cost of leasing	-	-	-	-	-	-	-

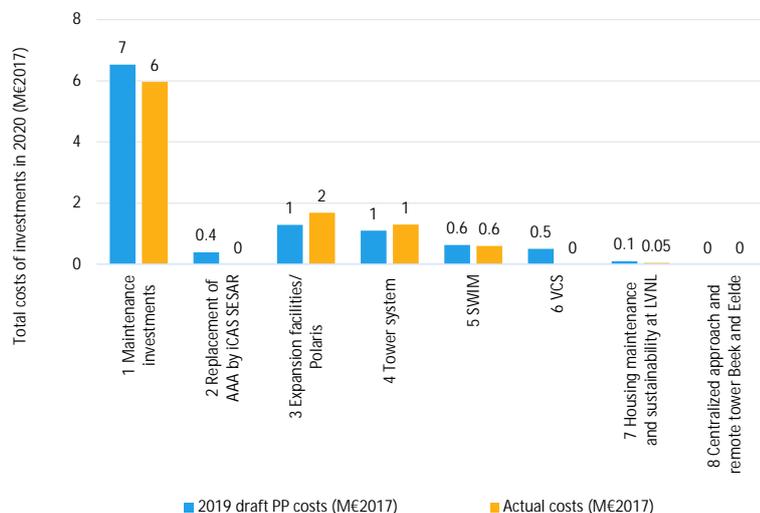


COSTS BY NEW MAJOR INVESTMENTS NETHERLANDS | LVNL

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	10.53	14.60	17.69	27.17	28.60	10.53
1 Maintenance investments	6.53	9.66	11.54	12.51	12.15	6.53
2 Replacement of AAA by iCAS and SESAR deployment of trajectory based ope	0.39	0.34	(0.18)	7.20	7.77	0.39
3 Expansion facilities/ Polaris	1.28	1.28	1.28	1.21	1.32	1.28
4 Tower system	1.10	1.09	1.07	1.06	1.59	1.10
5 System wide information management (SWIM)	0.63	0.62	0.91	1.53	1.93	0.63
6 Common voice communication system (VCS)	0.50	1.00	0.99	0.98	0.97	0.50
7 Housing maintenance and sustainability at LVNL	0.10	0.36	0.80	1.40	1.60	0.10
8 Centralized approach and remote tower Beek and Eelde	-	0.25	1.29	1.28	1.29	-

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	9.60	-	-	-	-	9.60
1 Maintenance investments	5.97	-	-	-	-	5.97
2 Replacement of AAA by iCAS and SESAR deployment of trajectory based ope	-	-	-	-	-	-
3 Expansion facilities/ Polaris	1.68	-	-	-	-	1.68
4 Tower system	1.30	-	-	-	-	1.30
5 System wide information management (SWIM)	0.60	-	-	-	-	0.60
6 Common voice communication system (VCS)	-	-	-	-	-	-
7 Housing maintenance and sustainability at LVNL	0.05	-	-	-	-	0.05
8 Centralized approach and remote tower Beek and Eelde	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(0.93)	-	-	-	-	(0.93)
1 Maintenance investments	(0.56)	-	-	-	-	(0.56)
2 Replacement of AAA by iCAS and SESAR deployment of trajectory based ope	(0.39)	-	-	-	-	(0.39)
3 Expansion facilities/ Polaris	0.40	-	-	-	-	0.40
4 Tower system	0.20	-	-	-	-	0.20
5 System wide information management (SWIM)	(0.03)	-	-	-	-	(0.03)
6 Common voice communication system (VCS)	(0.50)	-	-	-	-	(0.50)
7 Housing maintenance and sustainability at LVNL	(0.05)	-	-	-	-	(0.05)
8 Centralized approach and remote tower Beek and Eelde	-	-	-	-	-	-



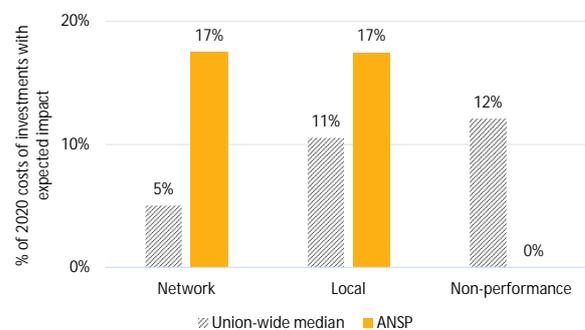
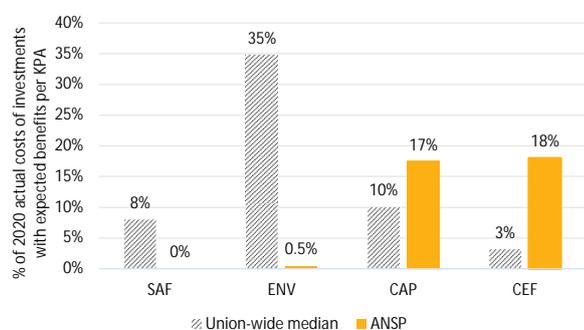
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

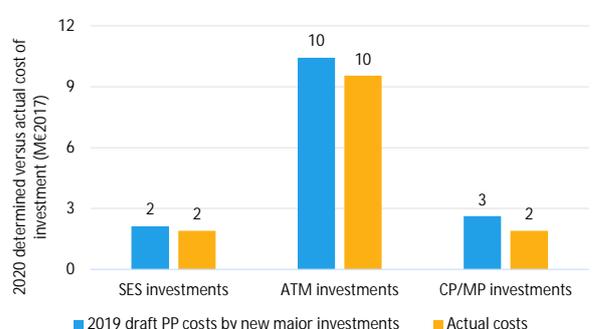
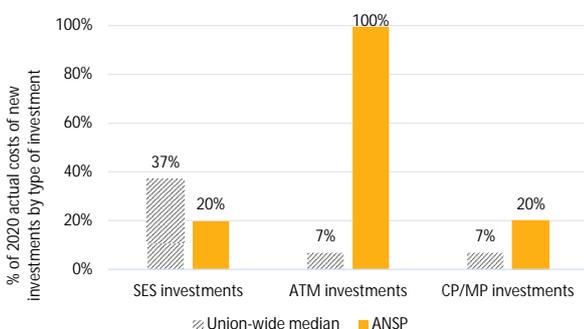
NETHERLANDS | LVNL

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Maintenance investments				
2	Replacement of AAA by iCAS and SESAR deployment of trajectory based operations				
3	Expansion facilities/ Polaris			X	X
4	Tower system				
5	System wide information management (SWIM)				
6	Common voice communication system (VCS)	X		X	X
7	Housing maintenance and sustainability at LVNL		X		X
8	Centralized approach and remote tower Beek and Eelde				X

#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Maintenance investments			
2	Replacement of AAA by iCAS and SESAR deployment of trajectory based operations			
3	Expansion facilities/ Polaris	X	X	
4	Tower system			
5	System wide information management (SWIM)			
6	Common voice communication system (VCS)	X		
7	Housing maintenance and sustainability at LVNL			
8	Centralized approach and remote tower Beek and Eelde		X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	Maintenance investments	2020-2024	Started	No	No	Yes	-
2	Replacement of AAA by iCAS and SESAR deployment of trajectory based operations	2022-2023	Delayed	Yes	Yes	Yes	CP
3	Expansion facilities/ Polaris	2019-2024	Started	No	Yes	Yes	-
4	Tower system	2020	Started	Yes	No	Yes	CP
5	System wide information management (SWIM)	2020-2024	Started	Yes	Yes	Yes	CP
6	Common voice communication system (VCS)	2020	Delayed	No	Yes	Yes	MP
7	Housing maintenance and sustainability at LVNL	2020-2024	Started	No	No	No	-
8	Centralized approach and remote tower Beek and Eelde	2020-2024	Not started	No	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

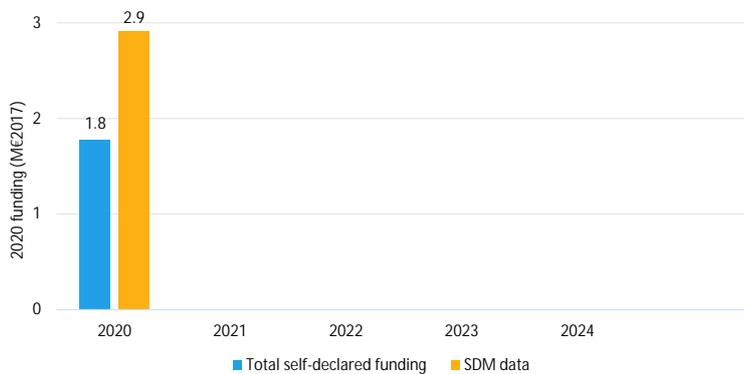
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

The Netherlands noted that the pandemic has caused issues with practical execution of the investments, travel of the suppliers and that the implementation of the Common voice communication system has been delayed.

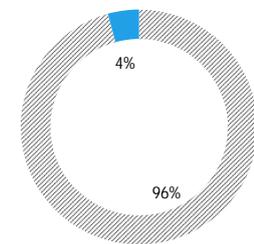
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

NETHERLANDS | LVNL

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	1.77	-	-	-	-	1.77
- En route funding declared	2.02	-	-	-	-	2.02
<i>En route funding that could not be assigned to a specific investment</i>	<i>(1.38)</i>	-	-	-	-	<i>(1.38)</i>
4 Tower system	0.49	-	-	-	-	0.49
2 Replacement of AAA by iCAS and SESAR deployment of trajectory bas	2.91	-	-	-	-	2.91
5 System wide information management (SWIM)	-	-	-	-	-	-
- Terminal funding	(0.25)	-	-	-	-	(0.25)
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>(0.75)</i>	-	-	-	-	<i>(0.75)</i>
2 Replacement of AAA by iCAS and SESAR Deployment of Trajectory Bas	-	-	-	-	-	-
5 System wide information management (SWIM)	-	-	-	-	-	-
8 Centralized Approach and remote tower Beek and Eelde	0.51	-	-	-	-	-
Actual funding declaration vs payments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(1.14)	-	-	-	-	(1.14)
Total included in the funding declaration (reporting tables)	1.77	-	-	-	-	1.77
SDM payment	2.91	-	-	-	-	2.91



Declared funding in 2020 (M€2017)



▨ Union-wide ■ ANSP

The Netherlands reported 1.8M€₂₀₁₇ funding in 2020. The funding was awarded for six different projects. Some of these projects could be directly linked to the investments "Tower System" and "Replacement of AAA by iCAS and SESAR Deployment of Trajectory Based Operations".

The en route and terminal funding that could not be assigned to a specific investment appears as a negative value due to the negatively reported grant "2015 INEA CIVMIL" (Co-locatie Schiphol). This funding was reported in 2019, but deducted in 2020.

5.22 Norway - Avinor

Norway overspent 3M€₂₀₁₇ (+15%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Norway planned four new major investments for RP3, two of which have started, one has been postponed and one has been included in the category of existing investments.

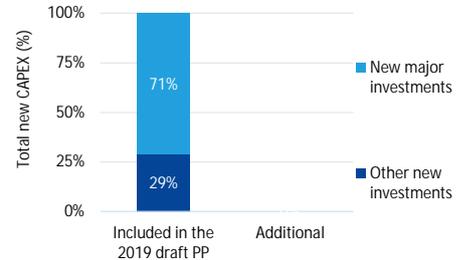
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

NORWAY | Avinor

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

Total CAPEX for new Investments	121.19	% of total
- New major investments (above 5M€ each)²	86.08	71%
- Included in the 2019 draft performance plan	86.08	71%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	35.11	29%
- Included in the 2019 draft performance plan	35.11	29%
- Additional	-	0%

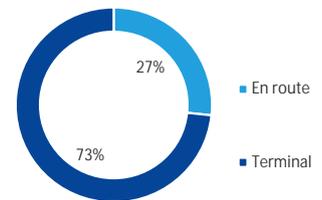


Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	86.08	% of total
- En route	22.98	27%
- Terminal	63.10	73%

Total CAPEX of new major investments (%)

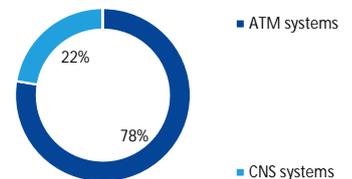


Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

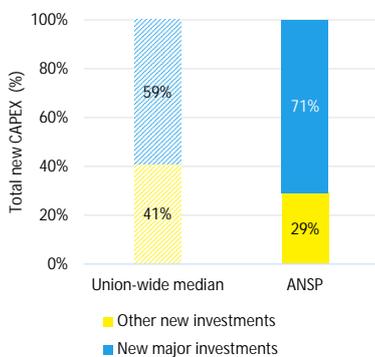
Total CAPEX for new major Investments	86.08	% of total
- ATM systems	66.79	78%
- CNS systems	19.28	22%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

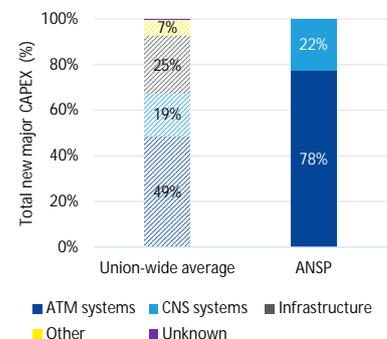
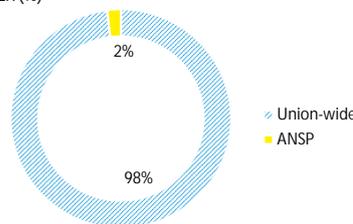


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

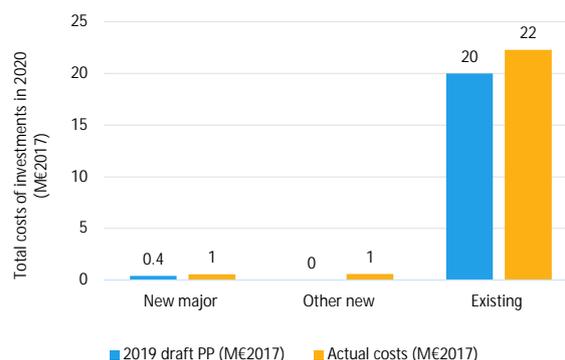
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NORWAY | Avinor

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	20.39	21.92	24.99	26.61	36.06	20.39
- New major investments	0.40	1.46	2.34	3.93	7.05	0.40
- % New major investments in total costs of investments	2%	7%	9%	15%	20%	2%
- Other new investments	-	-	0.23	1.05	1.46	-
- % Other new investments in total costs of investments	0%	0%	1%	4%	4%	0%
- Existing investments	19.99	20.46	22.42	21.63	27.54	19.99
- % Existing investments in total costs of investments	98%	93%	90%	81%	76%	98%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	23.45	-	-	-	-	23.45
- New major investments	0.57	-	-	-	-	0.57
- % New major investments in total costs of investments	2%	-	-	-	-	2%
- Other new investments	0.58	-	-	-	-	0.58
- % Other new investments in total costs of investments	2%	-	-	-	-	2%
- Existing investments	22.30	-	-	-	-	22.30
- % Existing investments in total costs of investments	95%	-	-	-	-	95%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	3.06	-	-	-	-	3.06
- New major investments	0.17	-	-	-	-	0.17
- % change of actual with respect to 2019 draft PP	41%	-	-	-	-	41%
- Other new investments	0.58	-	-	-	-	0.58
- % change of actual with respect to 2019 draft PP	N/A	-	-	-	-	N/A
- Existing investments	2.31	-	-	-	-	2.31
- % change of actual with respect to 2019 draft PP	12%	-	-	-	-	12%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

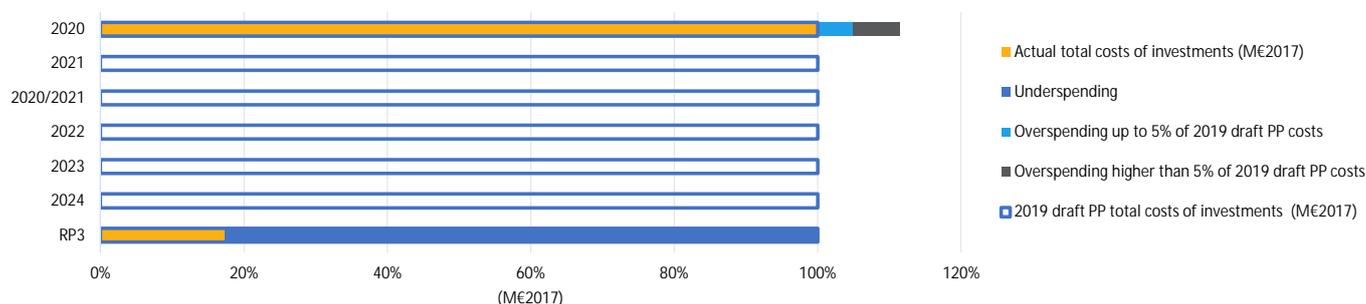
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NORWAY - En route | Avinor Flysikring AS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	14.30	15.19	29.49	17.78	18.96	25.70	14.30
Depreciation	8.41	8.38	16.79	9.99	10.11	16.42	8.41
Cost of capital	5.89	6.80	12.69	7.79	8.86	9.28	5.89
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	15.94	-	-	-	-	-	15.94
Depreciation	9.99	-	-	-	-	-	9.99
Cost of capital	5.95	-	-	-	-	-	5.95
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	1.64	-	-	-	-	-	1.64
Depreciation	1.58	-	-	-	-	-	1.58
Cost of capital	0.06	-	-	-	-	-	0.06
Cost of leasing	-	-	-	-	-	-	-



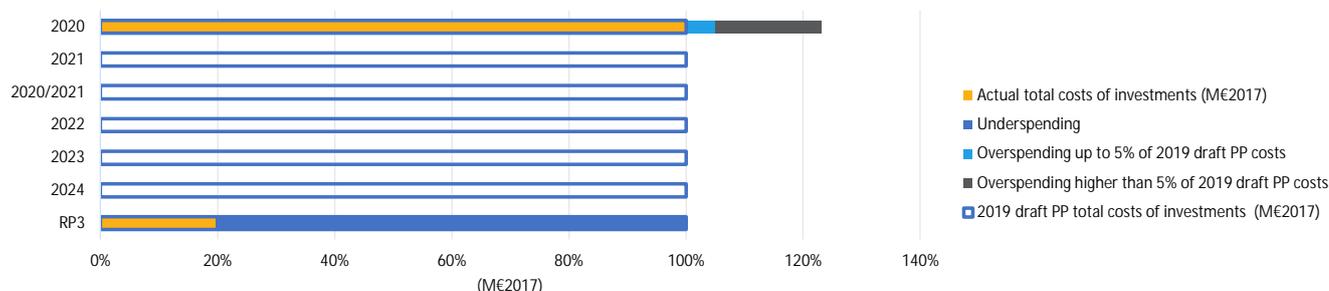
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

NORWAY - Terminal | Avinor AS

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	6.10	6.73	12.83	7.21	7.65	10.36	6.10
Depreciation	3.60	3.72	7.31	3.74	3.73	5.88	3.60
Cost of capital	2.50	3.02	5.52	3.47	3.92	4.48	2.50
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	7.51	-	-	-	-	-	7.51
Depreciation	4.27	-	-	-	-	-	4.27
Cost of capital	3.24	-	-	-	-	-	3.24
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	1.41	-	-	-	-	-	1.41
Depreciation	0.67	-	-	-	-	-	0.67
Cost of capital	0.74	-	-	-	-	-	0.74
Cost of leasing	-	-	-	-	-	-	-

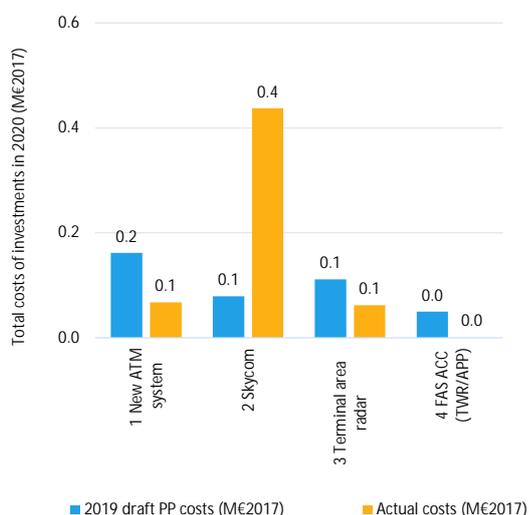


COSTS BY NEW MAJOR INVESTMENTS NORWAY | Avinor

2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.40	1.46	2.34	3.93	7.05	0.40
1 New ATM system OSL, NeTSO	0.16	0.58	1.11	1.64	4.37	0.16
2 Skycom	0.08	0.35	0.61	1.61	1.61	0.08
3 Terminal area radar OSL	0.11	0.42	0.42	0.41	0.40	0.11
4 FAS ACC (TWR/APP)	0.05	0.11	0.19	0.28	0.68	0.05

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	0.57	-	-	-	-	0.57
1 New ATM system OSL, NeTSO	0.07	-	-	-	-	0.07
2 Skycom	0.44	-	-	-	-	0.44
3 Terminal area radar OSL	0.06	-	-	-	-	0.06
4 FAS ACC (TWR/APP)	-	-	-	-	-	-

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	0.17	-	-	-	-	0.17
1 New ATM system OSL, NeTSO	(0.09)	-	-	-	-	(0.09)
2 Skycom	0.36	-	-	-	-	0.36
3 Terminal area radar OSL	(0.05)	-	-	-	-	(0.05)
4 FAS ACC (TWR/APP)	(0.05)	-	-	-	-	(0.05)

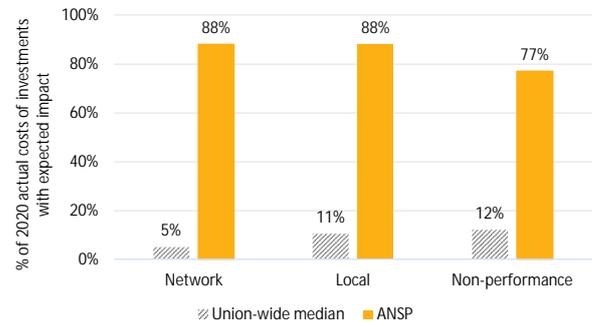
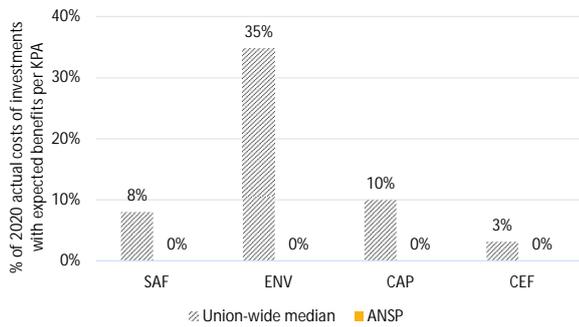


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

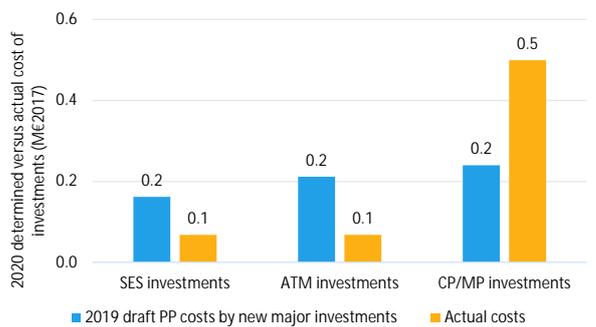
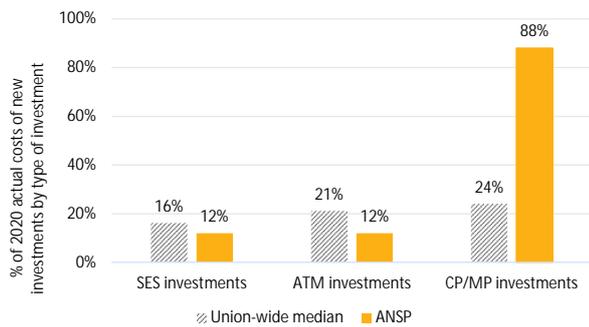
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT NORWAY | Avinor

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	New ATM system OSL, NeTSO				
2	Skycom				
3	Terminal area radar OSL				
4	FAS ACC (TWR/APP)				

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	New ATM system OSL, NeTSO			
2	Skycom	X	X	X
3	Terminal area radar OSL	X	X	
4	FAS ACC (TWR/APP)	X	X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/ MP ²
1	New ATM system OSL, NeTSO	2026	Postponed	Yes	No	Yes	-
2	Skycom	01/09/2023	Started	No	No	No	MP
3	Terminal area radar OSL	01/08/2024	Started	No	No	No	MP
4	FAS ACC (TWR/APP)	01/08/2024	Repurposed?	No	Yes	Yes	CP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

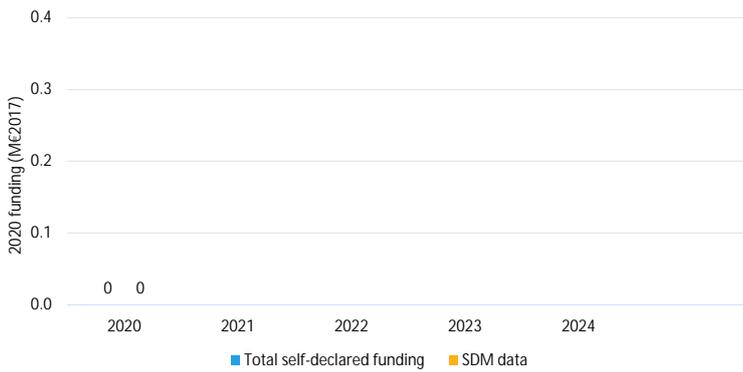
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

Norway indicated that the investment "FAS ACC" is no longer a new major investment and that its costs are included in the category of existing investments. The investment "New ATM system OSL, NeTSO" has been postponed to 2026 (initial date of entry into operation was 2024).

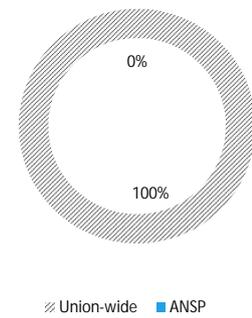
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) NORWAY | Avinor

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-

Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



Norway did not report any funding in 2020.

5.23 Poland - PANSA

Poland underspent 4.8M€₂₀₁₇ (-10%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Poland planned 18 new major investments for RP3. Two investments have started, eight have been postponed, seven have had a change of scope and one has been cancelled. Moreover, Poland added two additional new major investments which have started.

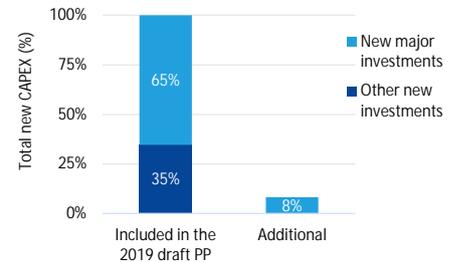
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

POLAND | PANSA

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

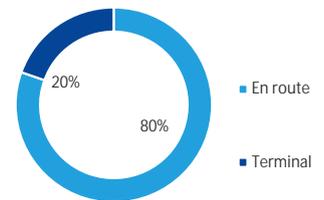
Total CAPEX for new Investments	321.65	% of total
- New major investments (above 5M€ each)²	218.52	68%
- Included in the 2019 draft performance plan	193.73	60%
- Additional ³	24.79	8%
- Other new investments (below 5M€ each)⁴	103.14	32%
- Included in the 2019 draft performance plan	103.14	32%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	218.52	% of total
- En route	175.83	80%
- Terminal	42.69	20%

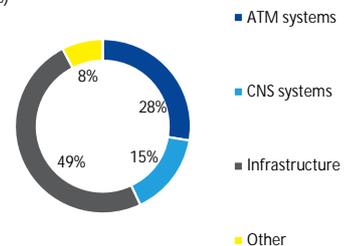
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

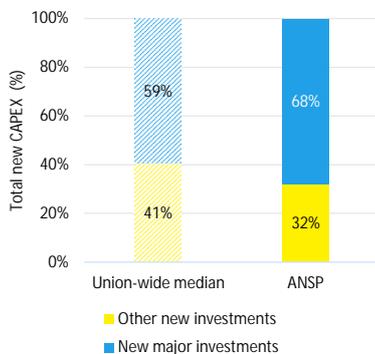
Total CAPEX for new major Investments	218.52	% of total
- ATM systems	60.33	28%
- CNS systems	33.54	15%
- Infrastructure	108.12	49%
- Other	16.53	8%
- Unknown	-	0%

Total CAPEX of new major investments (%)

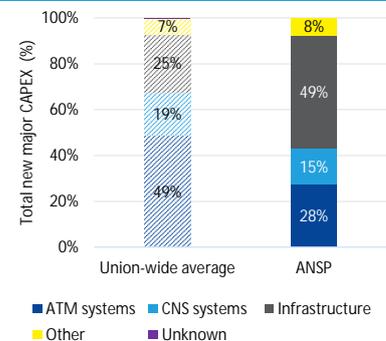
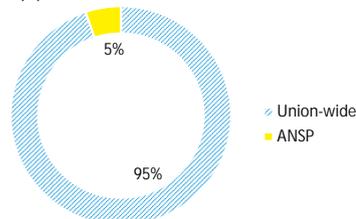


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

Poland reported two new major investments that were not initially included in the 2019 draft performance plan.

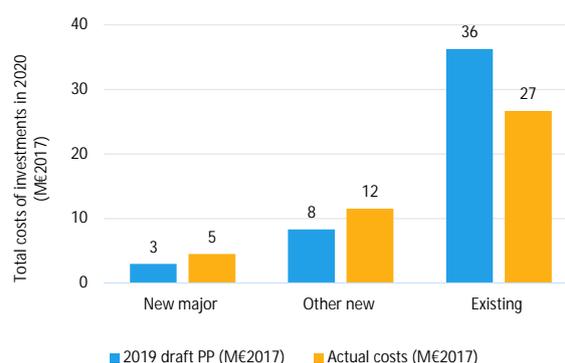
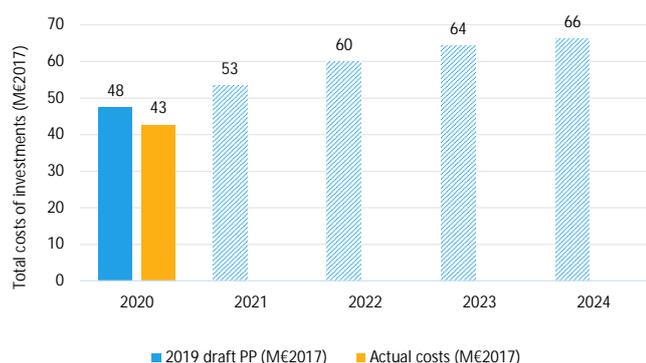
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

POLAND | PANSA

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	47.56	53.49	60.05	64.26	66.33	47.56
- New major investments	2.99	6.27	10.28	15.35	19.28	2.99
- % <i>New major investments in total costs of investments</i>	6%	12%	17%	24%	29%	6%
- Other new investments	8.29	14.31	19.14	21.82	22.51	8.29
- % <i>Other new investments in total costs of investments</i>	17%	27%	32%	34%	34%	17%
- Existing investments	36.28	32.92	30.63	27.08	24.53	36.28
- % <i>Existing investments in total costs of investments</i>	76%	62%	51%	42%	37%	76%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	42.69	-	-	-	-	42.69
- New major investments	4.52	-	-	-	-	4.52
- % <i>New major investments in total costs of investments</i>	11%	-	-	-	-	11%
- Other new investments	11.53	-	-	-	-	11.53
- % <i>Other new investments in total costs of investments</i>	27%	-	-	-	-	27%
- Existing investments	26.64	-	-	-	-	26.64
- % <i>Existing investments in total costs of investments</i>	62%	-	-	-	-	62%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(4.87)	-	-	-	-	(4.87)
- New major investments	1.53	-	-	-	-	1.53
- % <i>change of actual with respect to 2019 draft PP</i>	51%	-	-	-	-	51%
- Other new investments	3.23	-	-	-	-	3.23
- % <i>change of actual with respect to 2019 draft PP</i>	39%	-	-	-	-	39%
- Existing investments	(9.63)	-	-	-	-	(9.63)
- % <i>change of actual with respect to 2019 draft PP</i>	-27%	-	-	-	-	-27%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

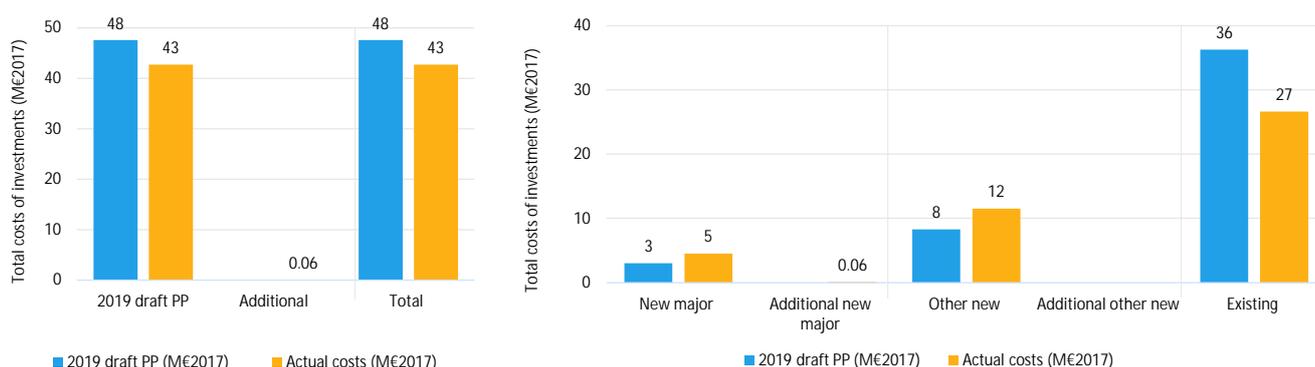
COST RELATED TO INVESTMENTS: 2019 DRAFT PERFORMANCE PLAN AND ADDITIONAL INVESTMENTS

POLAND - En route | PANSA

2019 draft PP costs: planned and additional Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	47.56	53.49	60.05	64.26	66.33	47.56
2019 draft performance plan	47.56	53.49	60.05	64.26	66.33	47.56
- New major investments	2.99	6.27	10.28	15.35	19.28	2.99
- Other new investments	8.29	14.31	19.14	21.82	22.51	8.29
- Existing investments	36.28	32.92	30.63	27.08	24.53	36.28
Additional²	-	-	-	-	-	-
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	-	-	-	-	-	-

Actual costs: planned and additional Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	42.75	-	-	-	-	42.75
2019 draft performance plan	42.69	-	-	-	-	42.69
- New major investments	4.52	-	-	-	-	4.52
- Other new investments	11.53	-	-	-	-	11.53
- Existing investments	26.64	-	-	-	-	26.64
Additional	0.06	-	-	-	-	0.06
- Additional new major investments	0.06	-	-	-	-	0.06
- Additional other new investments	-	-	-	-	-	-

Actual versus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3
Total difference	(4.81)	(53.49)	(60.05)	(64.26)	(66.33)	(4.81)
2019 draft performance plan	(4.87)	-	-	-	-	(4.87)
- New major investments	1.53	-	-	-	-	1.53
- Other new investments	3.23	-	-	-	-	3.23
- Existing investments	(9.63)	-	-	-	-	(9.63)
Additional	0.06	-	-	-	-	0.06
- Additional new major investments	0.06	-	-	-	-	0.06
- Additional other new investments	-	-	-	-	-	-



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

2. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

Poland reported two new major investments in 2020 that were not initially included in the 2019 draft performance plan.

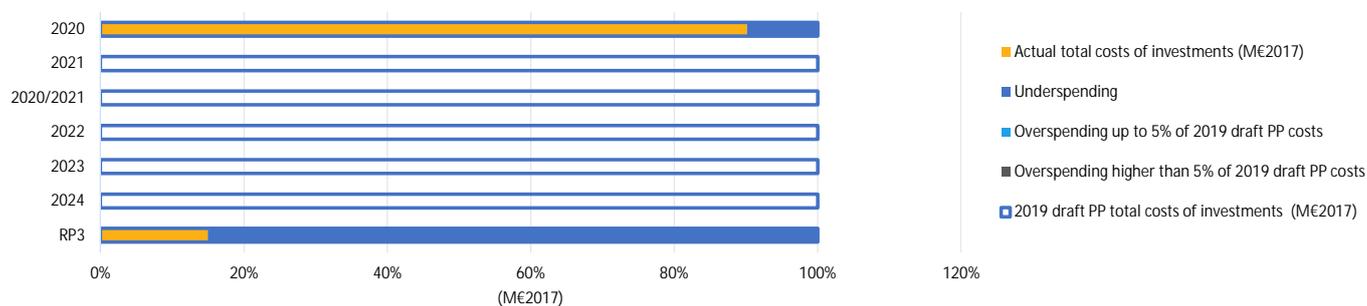
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

POLAND - En route | PANSA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	41.01	45.78	86.79	50.89	54.22	55.65	41.01
Depreciation	22.64	25.89	48.53	29.79	31.94	32.51	22.64
Cost of capital	16.92	18.46	35.38	19.67	20.92	21.82	16.92
Cost of leasing	1.45	1.43	2.88	1.43	1.36	1.33	1.45

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	36.96	-	-	-	-	-	36.96
Depreciation	23.17	-	-	-	-	-	23.17
Cost of capital	12.39	-	-	-	-	-	12.39
Cost of leasing	1.41	-	-	-	-	-	1.41

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(4.04)	-	-	-	-	-	(4.04)
Depreciation	0.53	-	-	-	-	-	0.53
Cost of capital	(4.53)	-	-	-	-	-	(4.53)
Cost of leasing	(0.04)	-	-	-	-	-	(0.04)



1. The data on costs of investments is based on the data submitted in the reporting tables.

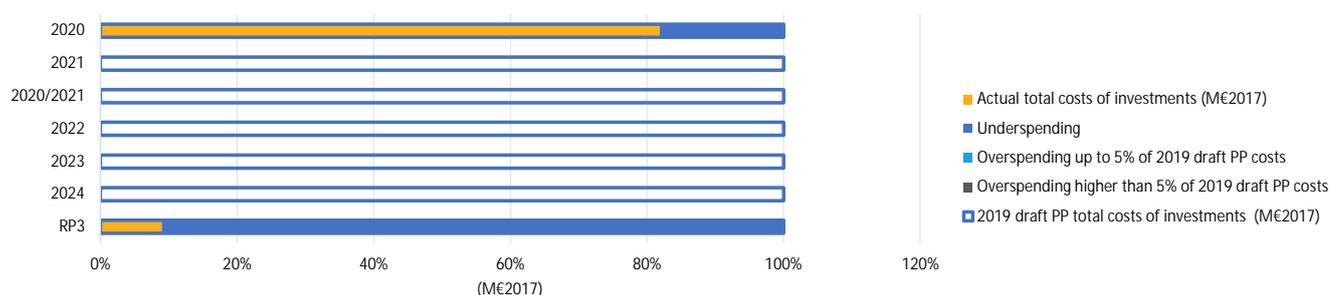
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

POLAND TCZ 1 - Terminal | PANSA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	1.45	1.92	3.37	2.71	3.29	3.93	1.45
Depreciation	0.80	0.93	1.73	1.37	1.83	2.09	0.80
Cost of capital	0.59	0.93	1.53	1.27	1.41	1.74	0.59
Cost of leasing	0.06	0.06	0.12	0.06	0.06	0.09	0.06

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.19	-	-	-	-	-	1.19
Depreciation	0.76	-	-	-	-	-	0.76
Cost of capital	0.38	-	-	-	-	-	0.38
Cost of leasing	0.05	-	-	-	-	-	0.05

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.26)	-	-	-	-	-	(0.26)
Depreciation	(0.04)	-	-	-	-	-	(0.04)
Cost of capital	(0.22)	-	-	-	-	-	(0.22)
Cost of leasing	(0.01)	-	-	-	-	-	(0.01)



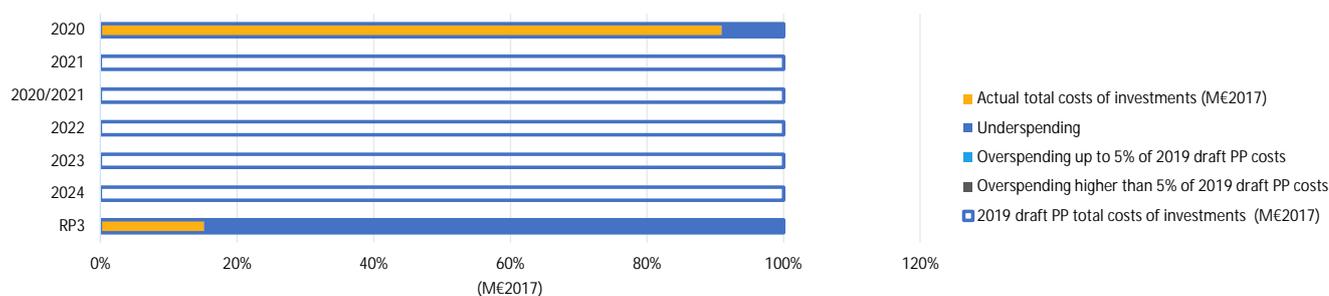
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

POLAND TCZ 2 - Terminal | PANSA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	5.06	5.69	10.74	6.42	6.63	6.54	5.06
Depreciation	2.84	3.24	6.08	3.90	4.16	4.16	2.84
Cost of capital	2.01	2.25	4.26	2.34	2.30	2.20	2.01
Cost of leasing	0.20	0.20	0.40	0.19	0.17	0.17	0.20

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	4.60	-	-	-	-	-	4.60
Depreciation	2.90	-	-	-	-	-	2.90
Cost of capital	1.50	-	-	-	-	-	1.50
Cost of leasing	0.20	-	-	-	-	-	0.20

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.46)	-	-	-	-	-	(0.46)
Depreciation	0.06	-	-	-	-	-	0.06
Cost of capital	(0.52)	-	-	-	-	-	(0.52)
Cost of leasing	(0.00)	-	-	-	-	-	(0.00)



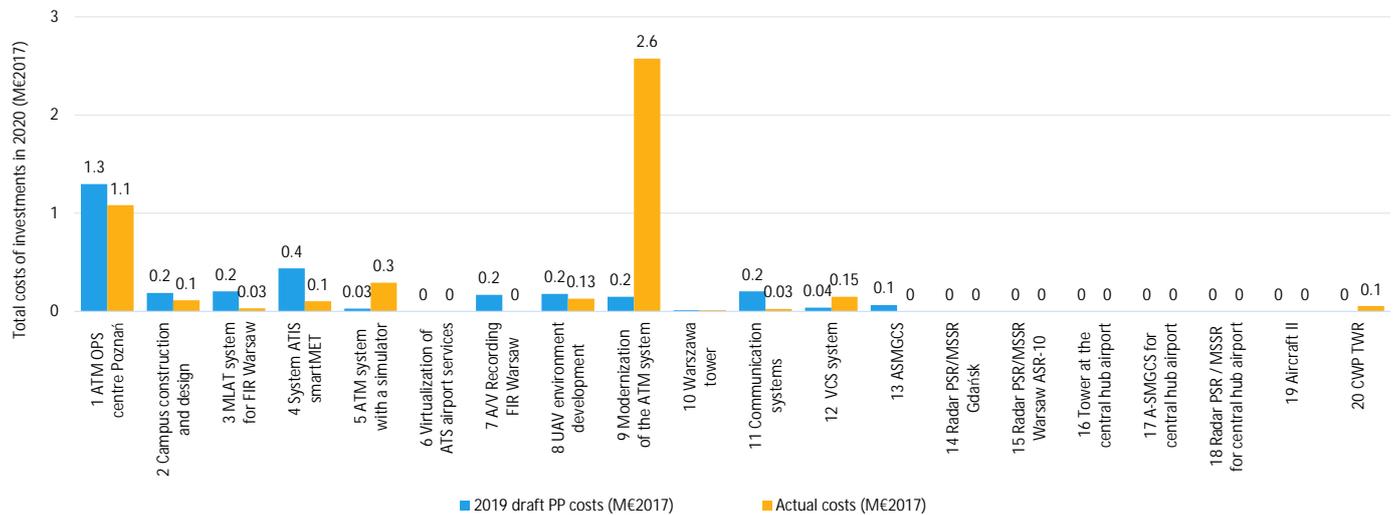
Poland established two terminal charging zones for RP3. TCZ 1 includes the Warsaw Chopin airport, while TCZ 2 includes the Bydgoszcz, Gdańsk Im. Lecha Wałęsy, Kraków-Balice, Katowice-Pyrzowice, Lublin, Łódź, Warszawa/Modlin, Poznań-Ławica, Radom-Sadków, Rzeszów-Jasionka, Szczecin-Goleniów, Wrocław-Strachowice, Zielona Góra-Babimost, Olsztyn-Mazury airports.

COSTS BY NEW MAJOR INVESTMENTS						POLAND PANSA
2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	2.99	6.27	10.28	15.35	19.28	2.99
1 21440701_ATM OPS centre Poznań	1.30	1.82	1.78	1.75	1.72	1.30
2 01440701_Campus - construction and design	0.19	0.21	0.51	2.27	4.69	0.19
3 IT440732_MLAT system for FIR Warsaw	0.21	0.61	1.03	1.24	1.25	0.21
4 IT460706_System ATIS smartMET/NAV EPLL, EPMO, EPSY, EPRA and EPLB	0.44	0.71	0.93	0.96	0.92	0.44
5 03440701_ATM system with a simulator	0.03	0.23	0.44	1.16	1.86	0.03
6 IR470208_Virtualization of ATS airport services	0.00	0.08	0.53	1.24	1.66	0.00
7 IT480904_A/V Recording FIR Warsaw	0.17	0.65	0.85	0.82	0.78	0.17
8 IP470701_UAV environment development (U-Space Programme)	0.18	0.43	0.65	0.79	0.92	0.18
9 IT430900_Modernization of the ATM system	0.15	0.40	0.71	0.84	0.81	0.15
10 IO450701_Warszawa tower	0.01	0.19	0.54	1.00	0.97	0.01
11 02440701_Communication systems	0.20	0.39	0.69	0.69	0.67	0.20
12 06440701_VCS system	0.04	0.23	0.67	0.64	0.62	0.04
13 IA480139_ASMGCS	0.07	0.23	0.51	0.69	0.66	0.07
14 IT430803_Radar PSR/MSSR Gdańsk	0.00	0.04	0.23	0.59	0.69	0.00
15 IT410120_Radar PSR/MSSR Warsaw ASR-10	0.00	0.04	0.21	0.61	0.64	0.00
16 IT170202_Tower at the central hub airport	0.00	0.00	0.00	0.06	0.35	0.00
17 IT470405_A-SMGCS for central hub airport	0.00	0.00	0.00	0.00	0.04	0.00
18 IT470203_Radar PSR / MSSR for central hub airport	0.00	0.00	0.00	0.00	0.00	0.00
19 IA490011_Aircraft II	-	-	-	-	-	-
20 IR470209_CWP TWR	-	-	-	-	-	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of Investments	4.58	-	-	-	-	4.58
1 21440701_ATM OPS centre Poznań	1.08	-	-	-	-	1.08
2 01440701_Campus - construction and design	0.11	-	-	-	-	0.11
3 IT440732_MLAT system for FIR Warsaw	0.03	-	-	-	-	0.03
4 IT460706_System ATIS smartMET/NAV EPLL, EPMO, EPSY, EPRA and EPLB	0.10	-	-	-	-	0.10
5 03440701_ATM system with a simulator	0.29	-	-	-	-	0.29
6 IR470208_Virtualization of ATS airport services	-	-	-	-	-	-
7 IT480904_A/V Recording FIR Warsaw	-	-	-	-	-	-
8 IP470701_UAV environment development (U-Space Programme)	0.13	-	-	-	-	0.13
9 IT430900_Modernization of the ATM system	2.57	-	-	-	-	2.57
10 IO450701_Warszawa tower	0.01	-	-	-	-	0.01
11 02440701_Communication systems	0.03	-	-	-	-	0.03
12 06440701_VCS system	0.15	-	-	-	-	0.15
13 IA480139_ASMGCS	-	-	-	-	-	-
14 IT430803_Radar PSR/MSSR Gdańsk	0.00	-	-	-	-	0.00
15 IT410120_Radar PSR/MSSR Warsaw ASR-10	0.00	-	-	-	-	0.00
16 IT170202_Tower at the central hub airport	-	-	-	-	-	-
17 IT470405_A-SMGCS for central hub airport	-	-	-	-	-	-
18 IT470203_Radar PSR / MSSR for central hub airport	-	-	-	-	-	-
19 IA490011_Aircraft II	-	-	-	-	-	-
20 IR470209_CWP TWR	0.06	-	-	-	-	0.06

COSTS OF NEW MAJOR INVESTMENTS

POLAND | PANSA

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	1.59	-	-	-	-	1.59
1 21440701_ATM OPS centre Poznań	(0.22)	-	-	-	-	(0.22)
2 01440701_Campus - construction and design	(0.08)	-	-	-	-	(0.08)
3 IT440732_MLAT system for FIR Warsaw	(0.17)	-	-	-	-	(0.17)
4 IT460706_System ATIS smartMET/NAV EPLL, EPPO, EPSY, EPRA and EPLB	(0.34)	-	-	-	-	(0.34)
5 03440701_ATM system with a simulator	0.26	-	-	-	-	0.26
6 IR470208_Virtualization of ATS airport services	(0.00)	-	-	-	-	(0.00)
7 IT480904_A/V Recording FIR Warsaw	(0.17)	-	-	-	-	(0.17)
8 IP470701_UAV environment development (U-Space Programme)	(0.05)	-	-	-	-	(0.05)
9 IT430900_Modernization of the ATM system	2.42	-	-	-	-	2.42
10 IO450701_Warszawa tower	0.00	-	-	-	-	0.00
11 02440701_Communication systems	(0.18)	-	-	-	-	(0.18)
12 06440701_VCS system	0.11	-	-	-	-	0.11
13 IA480139_ASMGCS	(0.07)	-	-	-	-	(0.07)
14 IT430803_Radar PSR/MSSR Gdańsk	(0.00)	-	-	-	-	(0.00)
15 IT410120_Radar PSR/MSSR Warsaw ASR-10	0.00	-	-	-	-	0.00
16 IT170202_Tower at the central hub airport	(0.00)	-	-	-	-	(0.00)
17 IT470405_A-SMGCS for central hub airport	(0.00)	-	-	-	-	(0.00)
18 IT470203_Radar PSR / MSSR for central hub airport	(0.00)	-	-	-	-	(0.00)
19 IA490011_Aircraft II	-	-	-	-	-	-
20 IR470209_CWP TWR	0.06	-	-	-	-	0.06

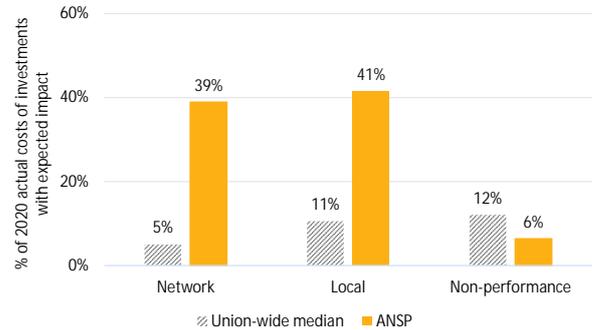
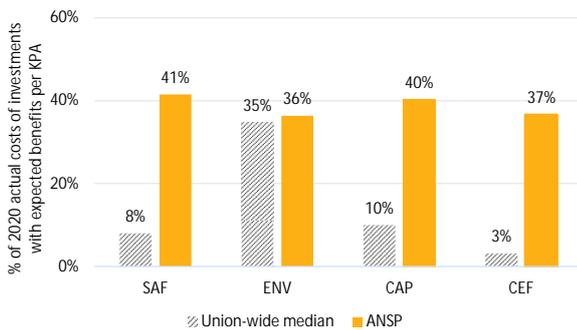


EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

POLAND | PANSA

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	21440701_ATM OPS centre Poznań	X	X	X	X
2	01440701_Campus - construction and design	X	X	X	X
3	IT440732_MLAT system for FIR Warsaw	X	X	X	
4	IT460706_System ATIS smartMET/NAV EPLL, EPMO, EPSY, EPRA and EPLB				
5	03440701_ATM system with a simulator	X	X	X	X
6	IR470208_Virtualization of ATS airport services	X		X	X
7	IT480904_A/V Recording FIR Warsaw	X			X
8	IP470701_UAV environment development (U-Space Programme)	X	X	X	X
9	IT430900_Modernization of the ATM system				
10	IO450701_Warszawa tower	X	X	X	
11	02440701_Communication systems	X		X	
12	06440701_VCS system	X		X	
13	IA480139_ASMGCS	X	X	X	
14	IT430803_Radar PSR/MSSR Gdańsk				
15	IT410120_Radar PSR/MSSR Warsaw ASR-10				
16	IT170202_Tower at the central hub airport	X		X	
17	IT470405_A-SMGCS for central hub airport	X	X	X	
18	IT470203_Radar PSR / MSSR for central hub airport	X	X	X	
19	IA490011_Aircraft II	X	X	X	X
20	IR470209_CWP TWR	X			X

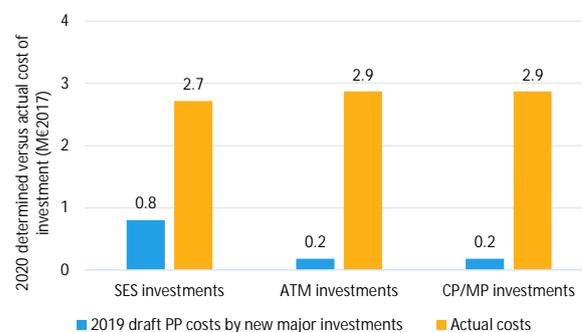
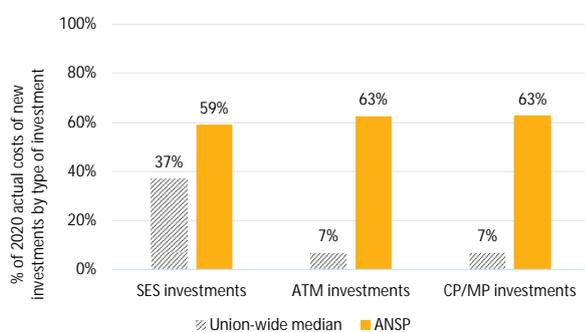
#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	21440701_ATM OPS centre Poznań	X	X	
2	01440701_Campus - construction and design	X	X	
3	IT440732_MLAT system for FIR Warsaw		X	
4	IT460706_System ATIS smartMET/NAV EPLL, EPMO, EPSY, EPRA and EPLB			
5	03440701_ATM system with a simulator	X	X	X
6	IR470208_Virtualization of ATS airport services	X	X	
7	IT480904_A/V Recording FIR Warsaw		X	
8	IP470701_UAV environment development (U-Space Programme)	X	X	
9	IT430900_Modernization of the ATM system			
10	IO450701_Warszawa tower	X	X	
11	02440701_Communication systems		X	
12	06440701_VCS system	X	X	
13	IA480139_ASMGCS	X	X	
14	IT430803_Radar PSR/MSSR Gdańsk			
15	IT410120_Radar PSR/MSSR Warsaw ASR-10			
16	IT170202_Tower at the central hub airport	X	X	
17	IT470405_A-SMGCS for central hub airport	X	X	
18	IT470203_Radar PSR / MSSR for central hub airport		X	
19	IA490011_Aircraft II		X	
20	IR470209_CWP TWR		X	



EXPECTED IMPACT AND BENEFIT PER NEW MAJOR INVESTMENT

POLAND | PANSA

#	New major Investments	EOI Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	21440701_ATM OPS centre Poznań	2020	Changed	No	No	No	-
2	01440701_Campus - construction and design	2024	Postponed	No	No	No	-
3	IT440732_MLAT system for FIR Warsaw	2023	Postponed	Yes	No	No	-
4	IT460706_System ATIS smartMET/NAV EPLL, EPMO, EPSY, EPRA and EPLB	2022	Changed	Yes	No	No	-
5	03440701_ATM system with a simulator	2023	Changed	No	Yes	Yes	MP
6	IR470208_Virtualization of ATS airport services	2023	Postponed	No	No	Yes	MP
7	IT480904_A/V Recording FIR Warsaw	2021	Changed	No	No	No	-
8	IP470701_UAV environment development (U-Space Programme)	after RP3	Started	No	Yes	No	-
9	IT430900_Modernization of the ATM system	2022	Started	Yes	No	Yes	MP
10	IO450701_Warszawa tower	2022	Cancelled	No	No	No	-
11	02440701_Communication systems	2021	Changed	No	No	No	-
12	06440701_VCS system	2021	Changed	No	No	No	-
13	IA480139_ASMGCS	2022	Postponed	No	Yes	No	-
14	IT430803_Radar PSR/MSSR Gdańsk	2023	Postponed	Yes	No	No	-
15	IT410120_Radar PSR/MSSR Warsaw ASR-10	2022	Changed	Yes	No	No	-
16	IT170202_Tower at the central hub airport	after RP3	Postponed	0	No	No	-
17	IT470405_A-SMGCS for central hub airport	after RP3	Started	No	No	No	-
18	IT470203_Radar PSR / MSSR for central hub airport	after RP3	Postponed	No	No	No	-
19	IA490011_Aircraft II	2023	Not started	No	No	No	-
20	IR470209_CWP TWR	2022	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

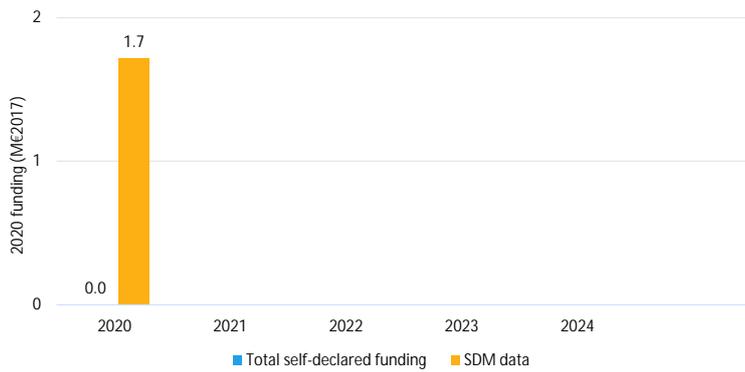
Poland reported proposed modifications to its investment plan for RP3. In the light of the pandemic, seven investments had a change of scope, seven investments have been postponed and the investment "IO450701_Warszawa Tower" has been cancelled.

The two additional new major investments proposed that were not initially included in the 2019 draft performance plan are an inspection aircraft and controller working positions at the Warsaw tower. These two investments have not started and are subject to the approval of revised RP3 performance plans to be submitted in October 2021.

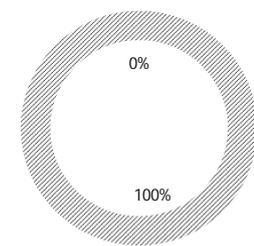
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

POLAND | PANSA

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	(1.72)	-	-	-	-	(1.72)
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	1.72	-	-	-	-	1.72



Declared funding in 2020 (M€2017)



▨ Union-wide ■ ANSP

5.24 Portugal - NAV Portugal

Portugal underspent 0.5M€₂₀₁₇ (-4%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Portugal planned four new major investments for RP3, neither of which have started.

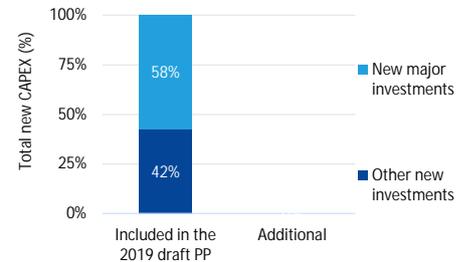
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

PORTUGAL | NAV Portugal

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

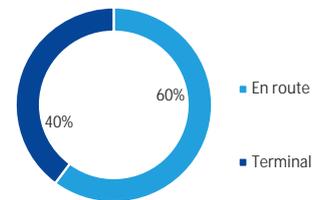
Total CAPEX for new Investments	151.91	% of total
- New major investments (above 5M€ each)²	87.45	58%
- Included in the 2019 draft performance plan	87.45	58%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	64.46	42%
- Included in the 2019 draft performance plan	64.46	42%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	87.45	% of total
- En route	52.61	60%
- Terminal	34.84	40%

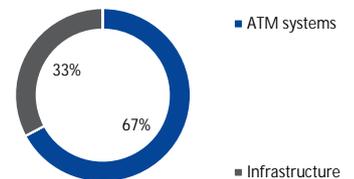
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

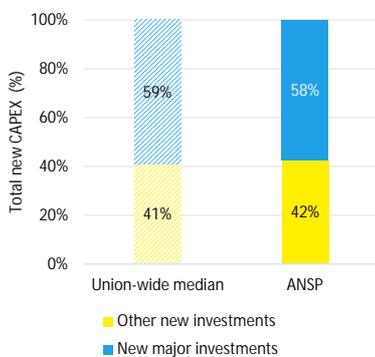
Total CAPEX for new major Investments	87.45	% of total
- ATM systems	58.83	67%
- CNS systems	-	0%
- Infrastructure	28.62	33%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

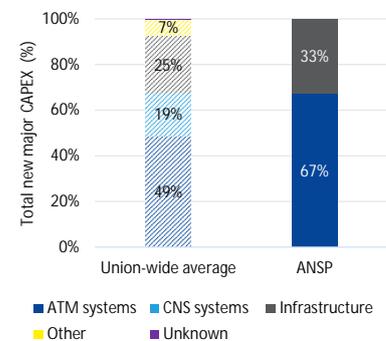
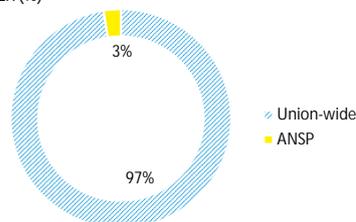


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

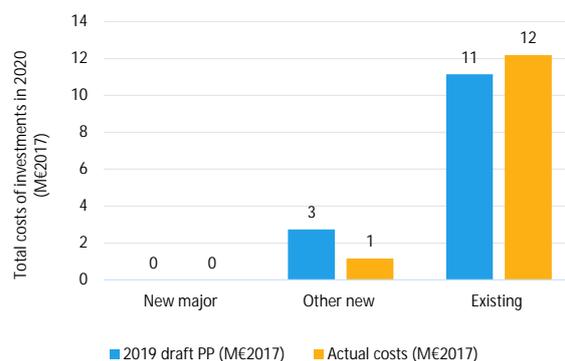
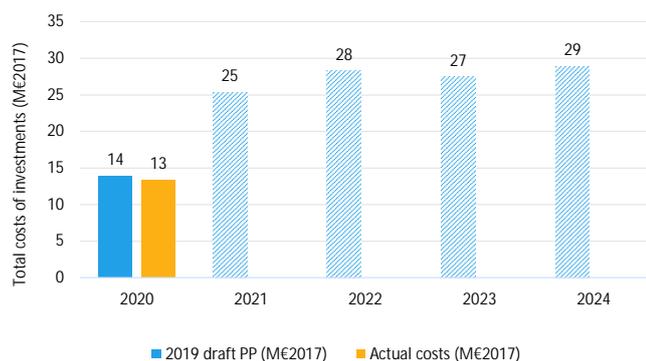
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

PORTUGAL | NAV Portugal

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	13.88	25.33	28.27	27.43	28.84	13.88
- New major investments	-	12.26	13.22	13.98	14.38	-
- % <i>New major investments in total costs of investments</i>	0%	48%	47%	51%	50%	0%
- Other new investments	2.74	2.65	5.02	6.67	7.29	2.74
- % <i>Other new investments in total costs of investments</i>	20%	10%	18%	24%	25%	20%
- Existing investments	11.14	10.42	10.03	6.78	7.16	11.14
- % <i>Existing investments in total costs of investments</i>	80%	41%	35%	25%	25%	80%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	13.36	-	-	-	-	13.36
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	-	-	-	-	0%
- Other new investments	1.17	-	-	-	-	1.17
- % <i>Other new investments in total costs of investments</i>	9%	-	-	-	-	9%
- Existing investments	12.20	-	-	-	-	12.20
- % <i>Existing investments in total costs of investments</i>	91%	-	-	-	-	91%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(0.51)	-	-	-	-	(0.51)
- New major investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Other new investments	(1.57)	-	-	-	-	(1.57)
- % <i>change of actual with respect to 2019 draft PP</i>	-57%	-	-	-	-	-57%
- Existing investments	1.05	-	-	-	-	1.05
- % <i>change of actual with respect to 2019 draft PP</i>	9%	-	-	-	-	9%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

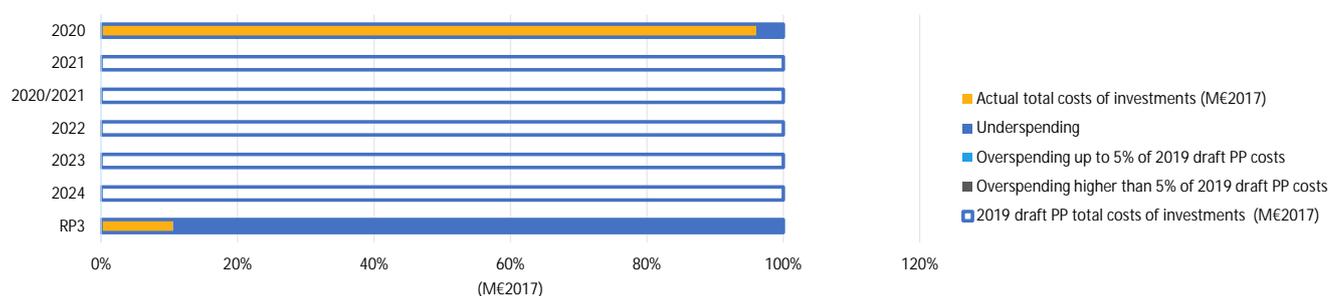
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

PORTUGAL - En route | NAV Portugal

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	9.91	20.72	30.64	21.41	18.95	19.26	9.91
Depreciation	7.24	14.14	21.39	14.98	12.79	13.45	7.24
Cost of capital	2.67	6.58	9.25	6.43	6.16	5.82	2.67
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	9.52	-	-	-	-	-	9.52
Depreciation	7.61	-	-	-	-	-	7.61
Cost of capital	1.91	-	-	-	-	-	1.91
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.39)	-	-	-	-	-	(0.39)
Depreciation	0.37	-	-	-	-	-	0.37
Cost of capital	(0.76)	-	-	-	-	-	(0.76)
Cost of leasing	-	-	-	-	-	-	-



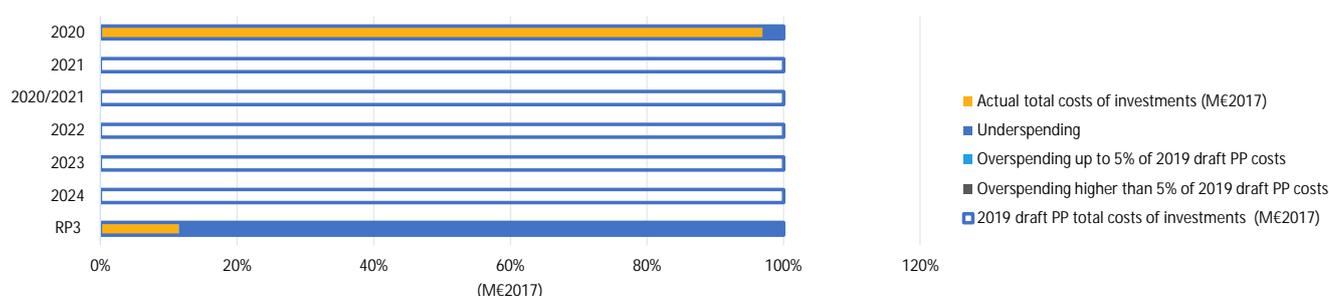
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

PORTUGAL - Terminal | NAV Portugal

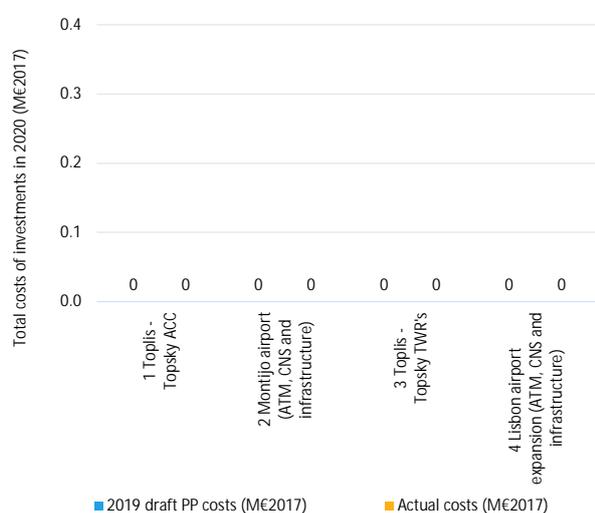
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	3.97	4.60	8.57	6.87	8.48	9.58	3.97
Depreciation	2.99	2.96	5.95	4.30	5.53	6.41	2.99
Cost of capital	0.98	1.65	2.62	2.57	2.96	3.16	0.98
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	3.84	-	-	-	-	-	3.84
Depreciation	3.11	-	-	-	-	-	3.11
Cost of capital	0.73	-	-	-	-	-	0.73
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.12)	-	-	-	-	-	(0.12)
Depreciation	0.12	-	-	-	-	-	0.12
Cost of capital	(0.24)	-	-	-	-	-	(0.24)
Cost of leasing	-	-	-	-	-	-	-



COSTS BY NEW MAJOR INVESTMENTS						PORTUGAL NAV Portugal
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	-	12.26	13.22	13.98	14.38	-
1 Toplis - topsky ACC	-	11.67	11.26	10.85	10.45	-
2 Montijo airport (ATM, CNS and Infrass)	-	-	1.04	1.70	1.91	-
3 Toplis - topsky TWR's	-	0.59	0.92	0.92	1.01	-
4 Lisbon airport expansion (ATM, CNS and Infrass)	-	-	-	0.50	1.02	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 Toplis - topsky ACC	-	-	-	-	-	-
2 Montijo airport (ATM, CNS and Infrass)	-	-	-	-	-	-
3 Toplis - topsky TWR's	-	-	-	-	-	-
4 Lisbon airport expansion (ATM, CNS and Infrass)	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	-	-	-	-	-	-
1 Toplis - topsky ACC	-	-	-	-	-	-
2 Montijo airport (ATM, CNS and Infrass)	-	-	-	-	-	-
3 Toplis - topsky TWR's	-	-	-	-	-	-
4 Lisbon airport expansion (ATM, CNS and Infrass)	-	-	-	-	-	-

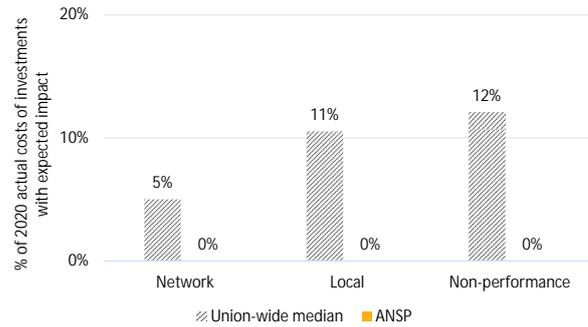
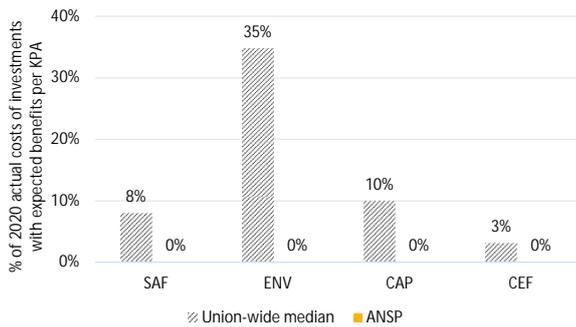


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

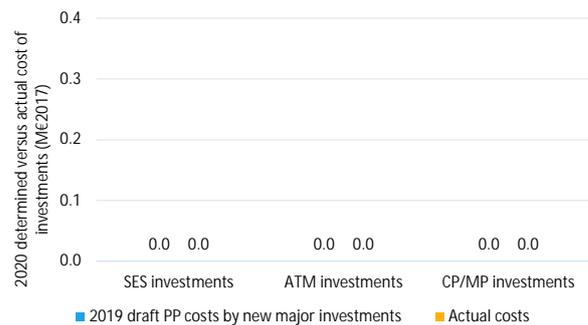
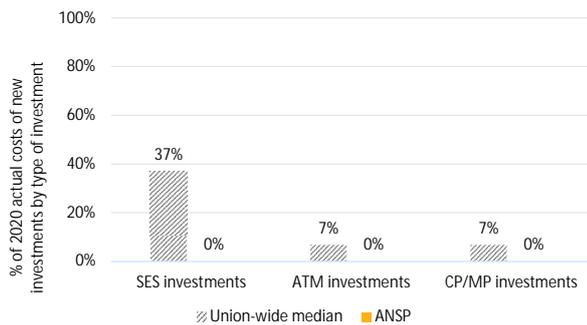
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Toplis - topsky ACC				
2	Montijo airport (ATM, CNS and Infrass)			X	X
3	Toplis - topsky TWR's				
4	Lisbon airport expansion (ATM, CNS and Infrass)			X	X

#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Toplis - topsky ACC			
2	Montijo airport (ATM, CNS and Infrass)	X	X	
3	Toplis - topsky TWR's			
4	Lisbon airport expansion (ATM, CNS and Infrass)	X	X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	Toplis - topsky ACC	2021	Not started	Yes	Yes	Yes	CP
2	Montijo airport (ATM, CNS and Infrass)	2022/2023	Not started	No	Yes	Yes	MP
3	Toplis - topsky TWR's	2021/2022	Not started	No	No	Yes	MP
4	Lisbon airport expansion (ATM, CNS and Infrass)	2023	Not started	No	Yes	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

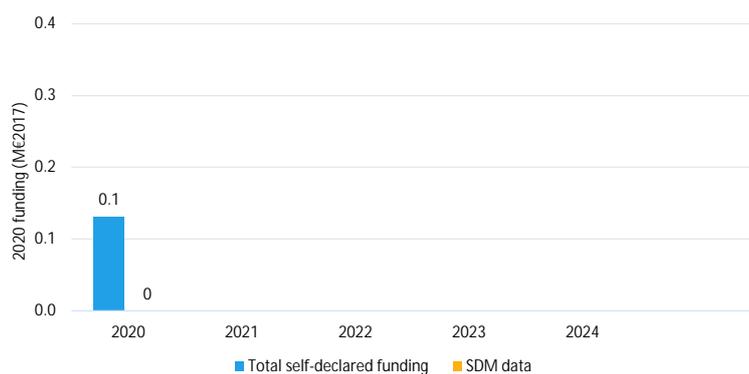
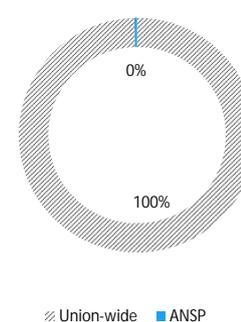
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) PORTUGAL | NAV Portugal

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.13	-	-	-	-	0.13
- En route funding declared	0.12	-	-	-	-	0.12
<i>En route funding that could not be assigned to a specific investment</i>	<i>0.12</i>	-	-	-	-	<i>0.12</i>
- Terminal funding	0.01	-	-	-	-	0.01
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.01</i>	-	-	-	-	<i>0.01</i>
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	0.13	-	-	-	-	0.13
Total included in the funding declaration (reporting tables)	0.13	-	-	-	-	0.13
SDM payment	-	-	-	-	-	-

Declared funding in 2020 (M€₂₀₁₇)

Portugal reported 0.13M€₂₀₁₇ funding in 2020. The funding was awarded for the project "ADS-B Deployment in SW FAB" (Two ADS-B stations and the sharing of one with Spain). This project could not be directly linked to the list of investments included in the 2019 draft performance plan or the monitoring report of 2020.

5.25 Romania - ROMATSA

Romania overspent 0.1M€₂₀₁₇ (+1%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Romania planned two new major investments for RP3, one of which has been delayed and one has not started.

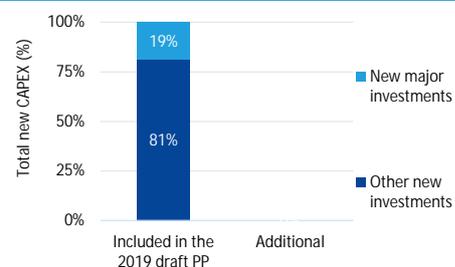
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

ROMANIA | ROMATSA

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

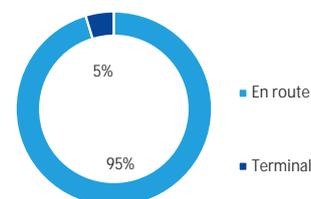
Total CAPEX for new Investments	84.78	% of total
- New major investments (above 5M€ each)²	15.94	19%
- Included in the 2019 draft performance plan	15.94	19%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	68.83	81%
- Included in the 2019 draft performance plan	68.83	81%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major Investments	15.94	% of total
- En route	15.21	95%
- Terminal	0.74	5%

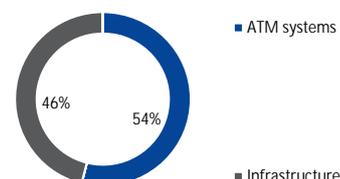
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

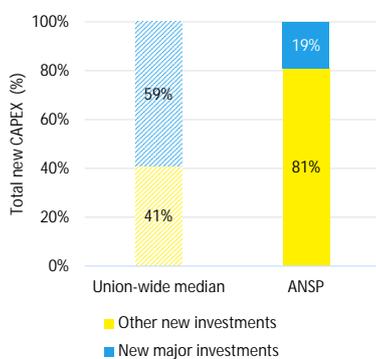
Total CAPEX for new major Investments	15.94	% of total
- ATM systems	8.59	54%
- CNS systems	-	0%
- Infrastructure	7.35	46%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

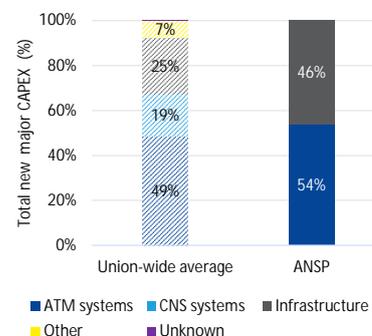
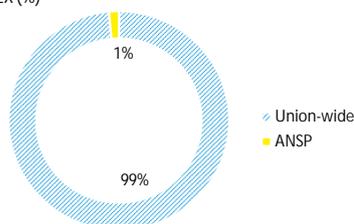


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

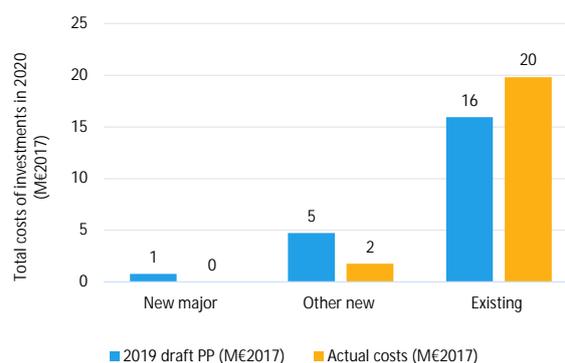
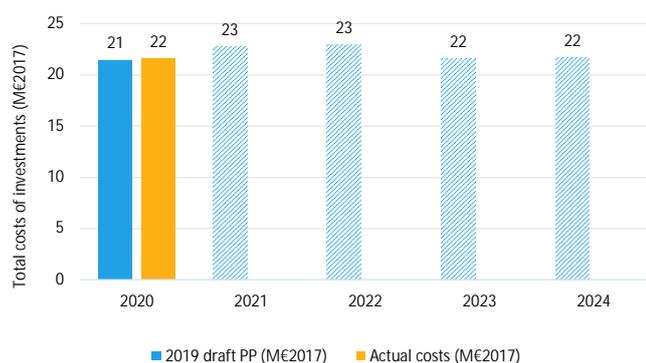
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ROMANIA | ROMATSA

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	21.45	22.79	22.97	21.60	21.71	21.45
- New major investments	0.78	1.65	1.58	1.48	1.37	0.78
- % New major investments in total costs of investments	4%	7%	7%	7%	6%	4%
- Other new investments	4.73	7.02	9.45	9.58	11.31	4.73
- % Other new investments in total costs of investments	22%	31%	41%	44%	52%	22%
- Existing investments	15.94	14.12	11.94	10.54	9.03	15.94
- % Existing investments in total costs of investments	74%	62%	52%	49%	42%	74%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	21.59	-	-	-	-	21.59
- New major investments	-	-	-	-	-	-
- % New major investments in total costs of investments	0%	-	-	-	-	0%
- Other new investments	1.75	-	-	-	-	1.75
- % Other new investments in total costs of investments	8%	-	-	-	-	8%
- Existing investments	19.83	-	-	-	-	19.83
- % Existing investments in total costs of investments	92%	-	-	-	-	92%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	0.14	-	-	-	-	0.14
- New major investments	-	-	-	-	-	-
- % change of actual with respect to 2019 draft PP	-	-	-	-	-	-
- Other new investments	(2.97)	-	-	-	-	(2.97)
- % change of actual with respect to 2019 draft PP	-63%	-	-	-	-	-63%
- Existing investments	3.89	-	-	-	-	3.89
- % change of actual with respect to 2019 draft PP	24%	-	-	-	-	24%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

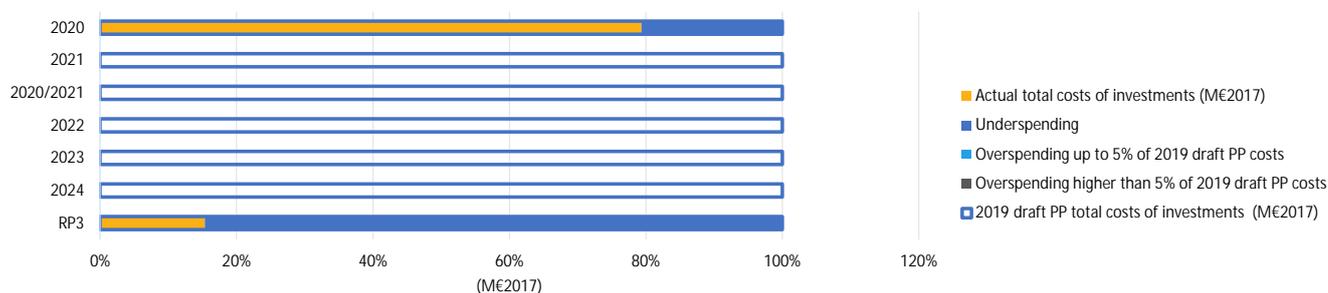
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ROMANIA - En route | ROMATSA

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	19.63	20.93	40.56	21.14	19.76	19.86	19.63
Depreciation	11.07	11.68	22.75	11.62	10.22	10.23	11.07
Cost of capital	8.53	9.23	17.76	9.50	9.52	9.62	8.53
Cost of leasing	0.03	0.02	0.05	0.02	0.02	0.01	0.03

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	15.58	-	-	-	-	-	15.58
Depreciation	8.45	-	-	-	-	-	8.45
Cost of capital	6.61	-	-	-	-	-	6.61
Cost of leasing	0.51	-	-	-	-	-	0.51

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(4.05)	-	-	-	-	-	(4.05)
Depreciation	(2.62)	-	-	-	-	-	(2.62)
Cost of capital	(1.92)	-	-	-	-	-	(1.92)
Cost of leasing	0.48	-	-	-	-	-	0.48



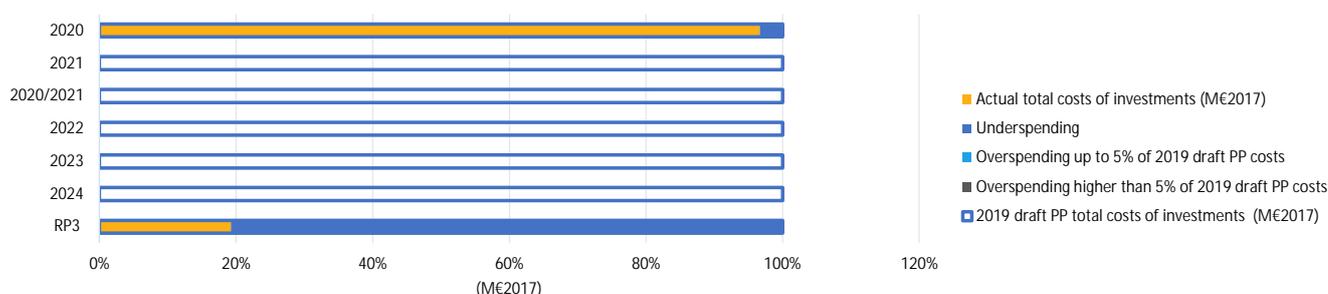
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

ROMANIA - Terminal | ROMATSA

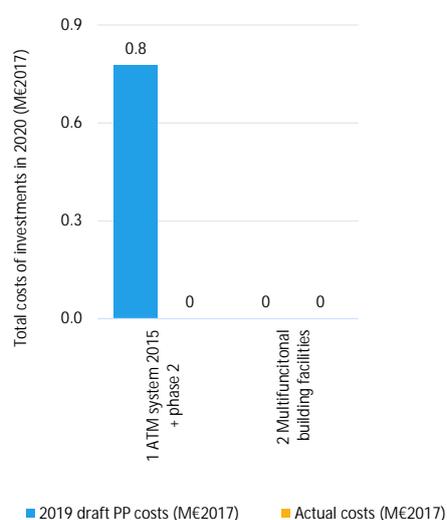
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	1.86	1.89	3.74	1.86	1.86	1.86	1.86
Depreciation	1.01	0.98	1.99	0.93	0.93	0.91	1.01
Cost of capital	0.84	0.90	1.74	0.92	0.92	0.95	0.84
Cost of leasing	0.01	0.01	0.02	0.01	0.01	0.01	0.01

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	1.79	-	-	-	-	-	1.79
Depreciation	0.91	-	-	-	-	-	0.91
Cost of capital	0.73	-	-	-	-	-	0.73
Cost of leasing	0.15	-	-	-	-	-	0.15

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.06)	-	-	-	-	-	(0.06)
Depreciation	(0.09)	-	-	-	-	-	(0.09)
Cost of capital	(0.11)	-	-	-	-	-	(0.11)
Cost of leasing	0.14	-	-	-	-	-	0.14



COSTS BY NEW MAJOR INVESTMENTS						ROMANIA ROMATSA
2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	0.78	1.65	1.58	1.48	1.37	0.78
1 ATM system 2015+ phase 2	0.78	1.65	1.58	1.46	0.90	0.78
2 Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)	-	-	-	0.01	0.47	-
Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 ATM system 2015+ phase 2	-	-	-	-	-	-
2 Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)	-	-	-	-	-	-
Actual minus 2019 draft PP costs of investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	(0.78)	-	-	-	-	(0.78)
1 ATM system 2015+ phase 2	(0.78)	-	-	-	-	(0.78)
2 Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)	-	-	-	-	-	-



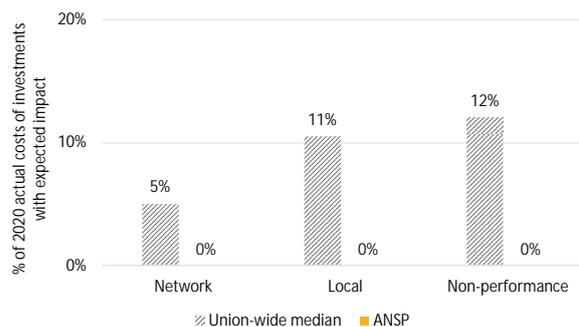
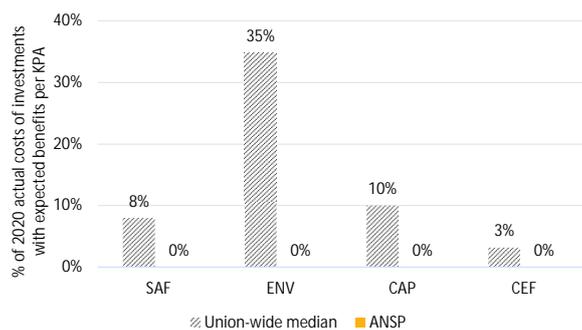
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

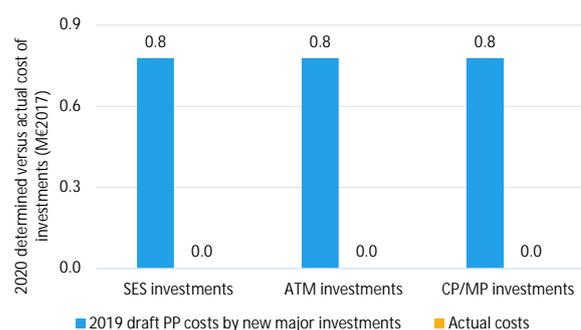
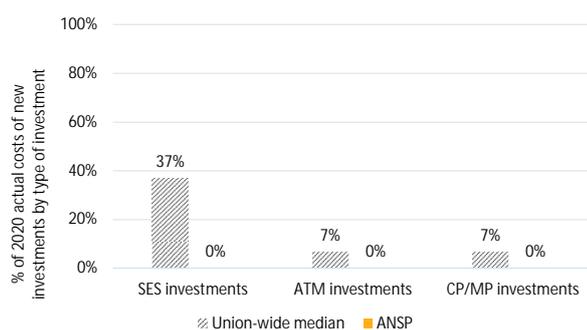
ROMANIA | ROMATSA

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	ATM system 2015+ phase 2				
2	Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)	X			X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	ATM system 2015+ phase 2			
2	Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	ATM system 2015+ phase 2	2022	Delayed	Yes	No	Yes	CP
2	Multifunctional building facilities (B-dul Ion Ionescu de la Brad no.5)	2025	Not started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

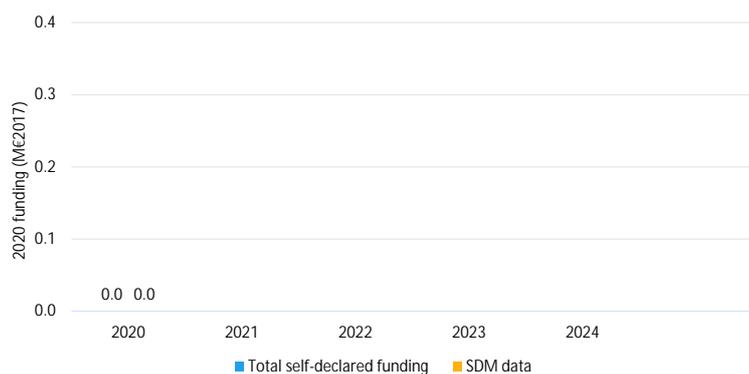
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

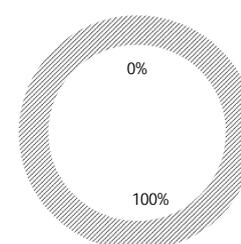
Romania indicated that the investment "ATM System 2015+ Phase 2" has been delayed to 2022 due to the pandemic.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) ROMANIA | ROMATSA

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



▨ Union-wide ■ ANSP

5.26 Slovakia - LPS SR

Slovakia underspent 0.9M€₂₀₁₇ (-12%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Slovakia planned one new major investment for RP3, which has not started.

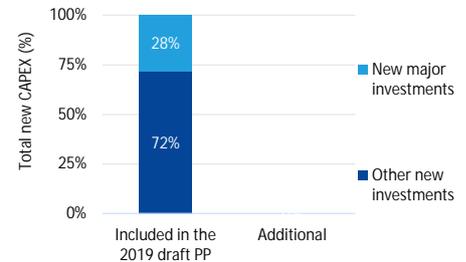
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

SLOVAKIA | LPS SR

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

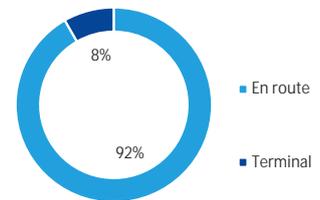
Total CAPEX for new Investments	20.73	% of total
- New major investments (above 5M€ each)²	5.87	28%
- Included in the 2019 draft performance plan	5.87	28%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	14.86	72%
- Included in the 2019 draft performance plan	14.86	72%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major investments	5.87	% of total
- En route	5.38	92%
- Terminal	0.49	8%

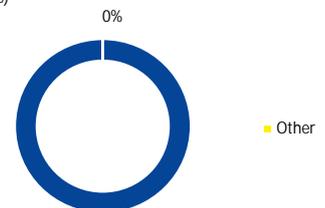
Total CAPEX of new major investments (%)

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

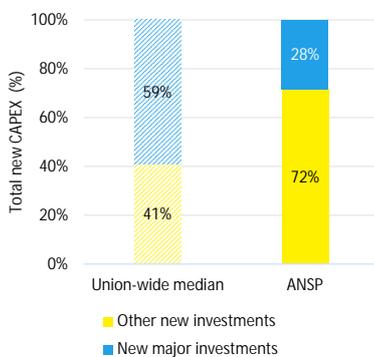
Total CAPEX for new major Investments	5.87	% of total
- ATM systems	5.87	100%
- CNS systems	-	0%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%

Total CAPEX of new major investments (%)

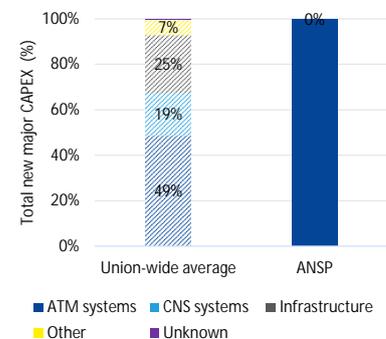
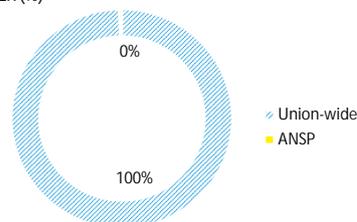


New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

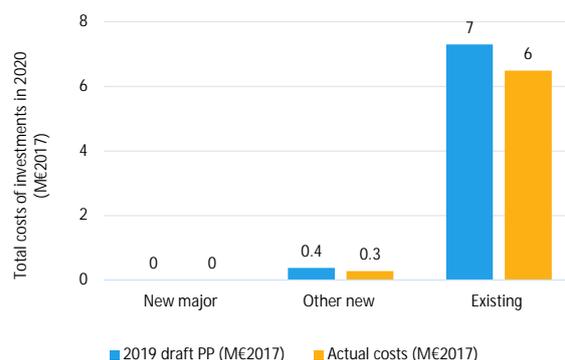
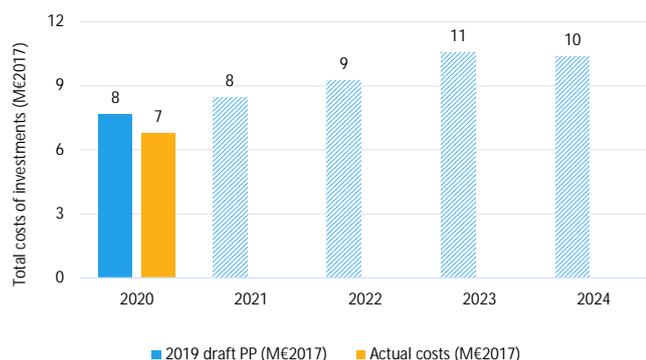
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SLOVAKIA | LPS SR

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	7.68	8.46	9.26	10.56	10.37	7.68
- New major investments	-	0.01	0.18	0.73	0.73	-
- % <i>New major investments in total costs of investments</i>	0%	0%	2%	7%	7%	0%
- Other new investments	0.38	1.32	2.40	2.33	2.36	0.38
- % <i>Other new investments in total costs of investments</i>	5%	16%	26%	22%	23%	5%
- Existing investments	7.30	7.13	6.69	7.49	7.28	7.30
- % <i>Existing investments in total costs of investments</i>	95%	84%	72%	71%	70%	95%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	6.77	-	-	-	-	6.77
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	-	-	-	-	0%
- Other new investments	0.28	-	-	-	-	0.28
- % <i>Other new investments in total costs of investments</i>	4%	-	-	-	-	4%
- Existing investments	6.49	-	-	-	-	6.49
- % <i>Existing investments in total costs of investments</i>	96%	-	-	-	-	96%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(0.91)	-	-	-	-	(0.91)
- New major investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Other new investments	(0.10)	-	-	-	-	(0.10)
- % <i>change of actual with respect to 2019 draft PP</i>	-26%	-	-	-	-	-26%
- Existing investments	(0.81)	-	-	-	-	(0.81)
- % <i>change of actual with respect to 2019 draft PP</i>	-11%	-	-	-	-	-11%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

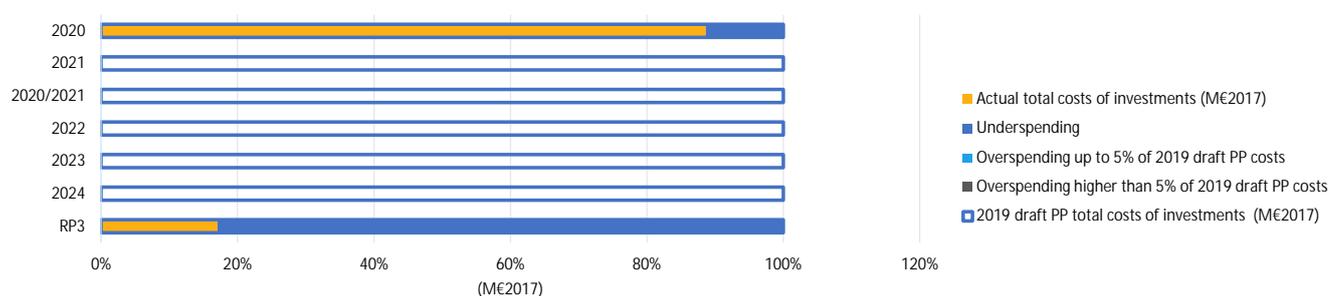
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SLOVAKIA - En route | LPS SR

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	7.47	7.74	15.21	7.87	7.73	8.01	7.47
Depreciation	5.18	5.42	10.60	5.59	5.56	5.61	5.18
Cost of capital	2.29	2.32	4.61	2.28	2.17	2.40	2.29
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	6.62	-	-	-	-	-	6.62
Depreciation	4.87	-	-	-	-	-	4.87
Cost of capital	1.76	-	-	-	-	-	1.76
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.85)	-	-	-	-	-	(0.85)
Depreciation	(0.31)	-	-	-	-	-	(0.31)
Cost of capital	(0.53)	-	-	-	-	-	(0.53)
Cost of leasing	-	-	-	-	-	-	-



Slovakia did not establish a terminal charging zone for RP3.

COSTS BY NEW MAJOR INVESTMENTS						SLOVAKIA LPS SR
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	-	0.01	0.18	0.73	0.73	-
1 Data link service implementation	-	0.01	0.18	0.73	0.73	-
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	-	-	-	-	-	-
1 Data link service implementation	-	-	-	-	-	-
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	-	-	-	-	-	-
1 Data link service implementation	-	-	-	-	-	-

1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision. Slovakia did not report any costs of new major investments in 2020. The cost of new major investments for Slovakia are planned to start in 2021.

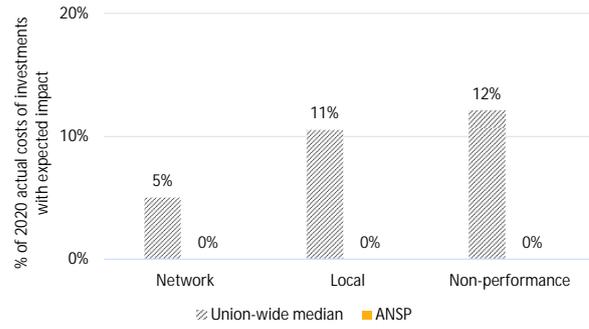
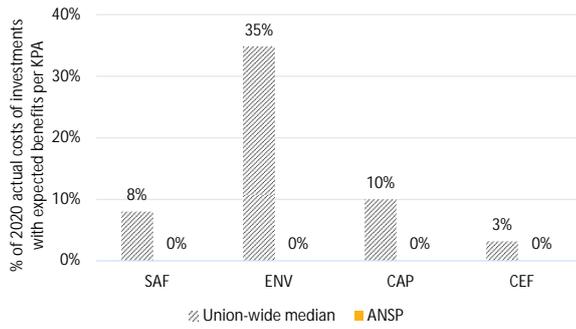
Slovakia did not report any costs of new major investments in 2020. The cost of new major investments for Slovakia are planned to start in 2021.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

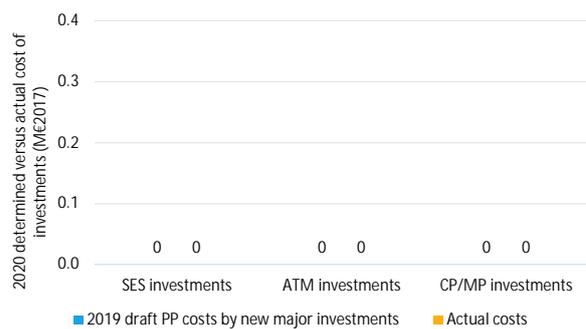
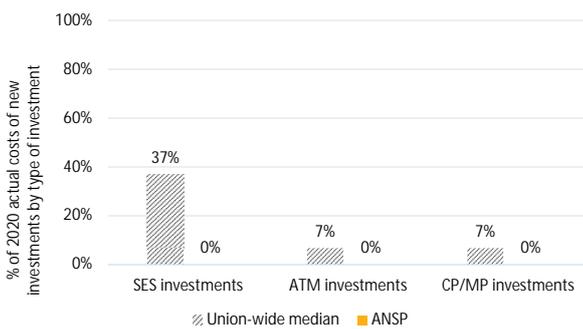
SLOVAKIA | LPS SR

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Data link service implementation				

#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Data link service implementation			



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Data link service implementation	31/12/2022	Not started	0	No	Yes	MP



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

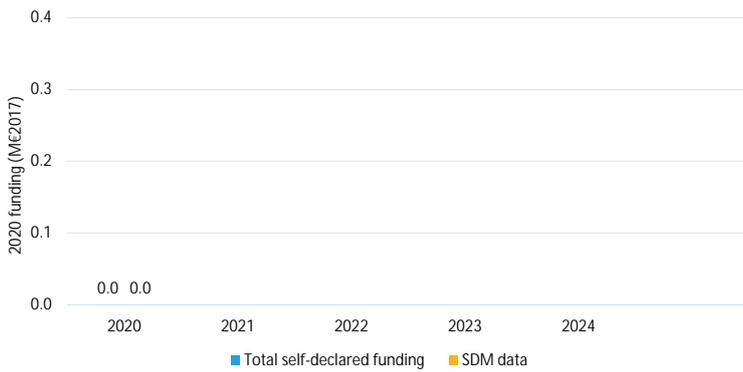
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

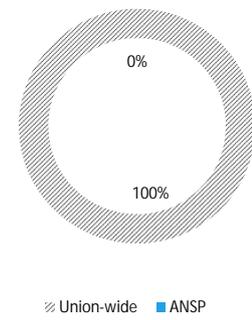
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) SLOVAKIA | LPS SR

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



Slovakia did not report any funding in 2020.

5.27 Slovenia - Slovenia Control

Slovenia underspent 2.9M€₂₀₁₇ (-59%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Slovenia did not plan any new major investments for RP3.

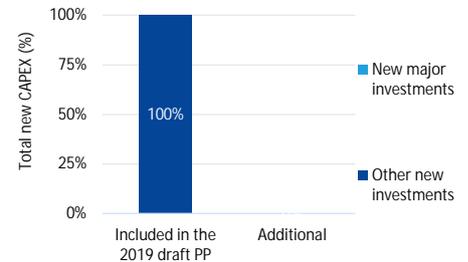
CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹

SLOVENIA | Slovenia Control

Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇)

RP3

Total CAPEX for new Investments	19.96	% of total
- New major investments (above 5M€ each)²	-	0%
- Included in the 2019 draft performance plan	-	0%
- Additional ³	-	0%
- Other new investments (below 5M€ each)⁴	19.96	100%
- Included in the 2019 draft performance plan	19.96	100%
- Additional	-	0%

Planned CAPEX: en route and terminal (M€₂₀₁₇)

RP3

Total CAPEX for new major investments	N/A	% of total
- En route	N/A	N/A
- Terminal	N/A	N/A

Total CAPEX of new major investments (%)

Not applicable

Planned CAPEX by type of investment (M€₂₀₁₇)

RP3

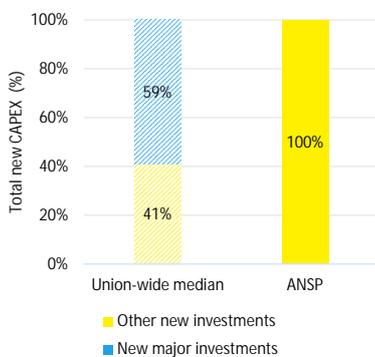
Total CAPEX for new major Investments	-	% of total
- ATM systems	-	N/A
- CNS systems	-	N/A
- Infrastructure	-	N/A
- Other	-	N/A
- Unknown	-	N/A

Total CAPEX of new major investments (%)

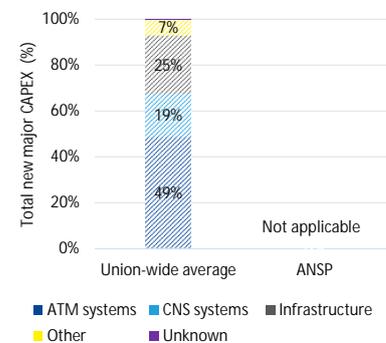
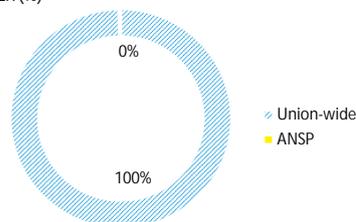
Not applicable

New CAPEX: ANSP compared to Union-wide

RP3



Total new CAPEX (%)



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.

2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).

3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

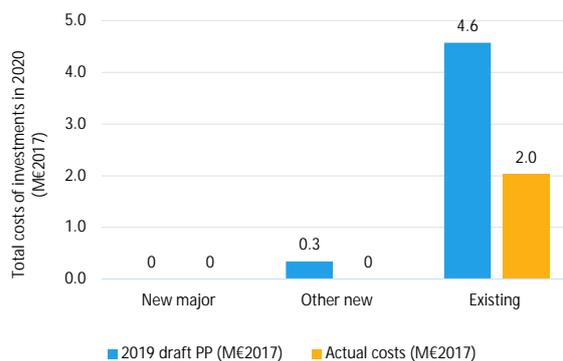
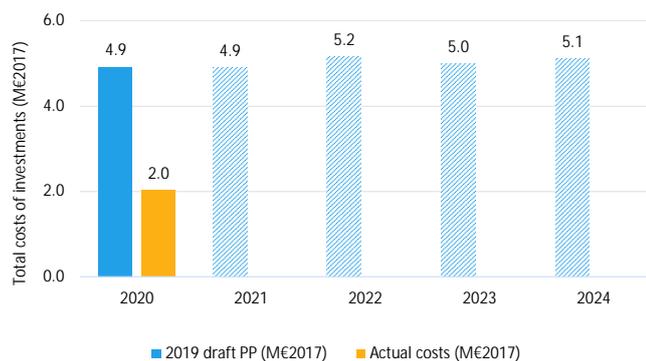
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SLOVENIA | Slovenia Control

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	4.92	4.90	5.16	4.99	5.11	4.92
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	0%	0%	0%	0%	0%
- Other new investments	0.34	1.14	1.95	2.53	2.97	0.34
- % <i>Other new investments in total costs of investments</i>	7%	23%	38%	51%	58%	7%
- Existing investments	4.57	3.76	3.21	2.47	2.14	4.57
- % <i>Existing investments in total costs of investments</i>	93%	77%	62%	49%	42%	93%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	2.03	-	-	-	-	2.03
- New major investments	-	-	-	-	-	-
- % <i>New major investments in total costs of investments</i>	0%	-	-	-	-	0%
- Other new investments	-	-	-	-	-	-
- % <i>Other new investments in total costs of investments</i>	0%	-	-	-	-	0%
- Existing investments	2.03	-	-	-	-	2.03
- % <i>Existing investments in total costs of investments</i>	100%	-	-	-	-	100%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(2.89)	-	-	-	-	(2.89)
- New major investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Other new investments	-	-	-	-	-	-
- % <i>change of actual with respect to 2019 draft PP</i>	-	-	-	-	-	-
- Existing investments	(2.55)	-	-	-	-	(2.55)
- % <i>change of actual with respect to 2019 draft PP</i>	-56%	-	-	-	-	-56%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

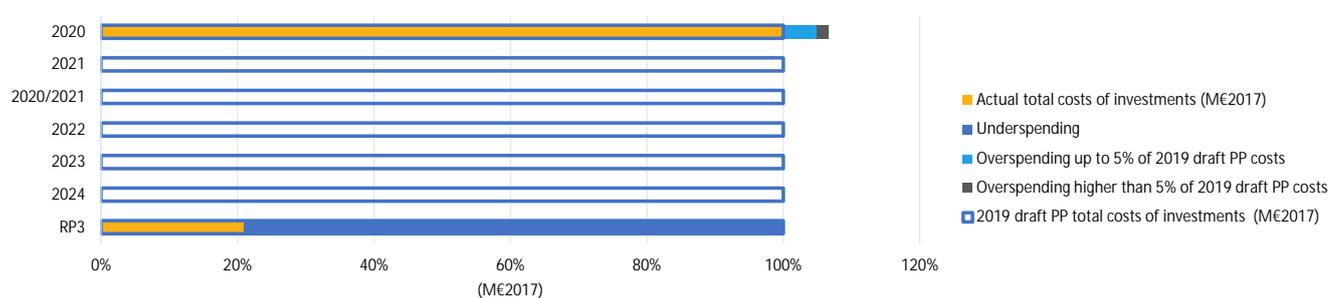
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SLOVENIA - En route | Slovenia Control

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	4.92	4.90	9.81	5.16	4.99	5.11	4.92
Depreciation	3.39	3.22	6.61	3.29	3.13	3.37	3.39
Cost of capital	1.53	1.67	3.20	1.87	1.86	1.74	1.53
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	5.24	-	-	-	-	-	5.24
Depreciation	3.80	-	-	-	-	-	3.80
Cost of capital	1.45	-	-	-	-	-	1.45
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	0.33	-	-	-	-	-	0.33
Depreciation	0.41	-	-	-	-	-	0.41
Cost of capital	(0.08)	-	-	-	-	-	(0.08)
Cost of leasing	-	-	-	-	-	-	-



Slovenia did not establish a terminal charging zone for RP3.

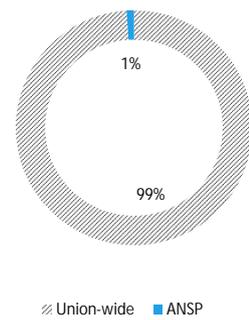
PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)

SLOVENIA | Slovenia Control

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	0.40	-	-	-	-	0.40
- En route funding declared	0.40	-	-	-	-	0.40
<i>En route funding that could not be assigned to a specific investment</i>	0.40	-	-	-	-	0.40
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	0.40	-	-	-	-	0.40
Total included in the funding declaration (reporting tables)	0.40	-	-	-	-	0.40
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



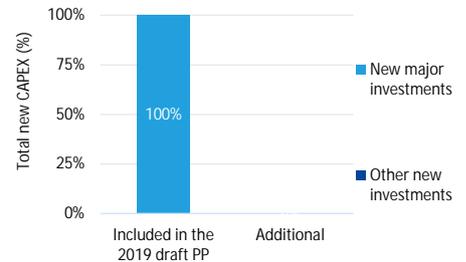
5.28 Spain - ENAIRE

Spain underspent 9.1M€₂₀₁₇ (-8%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Spain planned 18 new major investments for RP3, 17 of which have started and one has not started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ SPAIN | ENAIRE

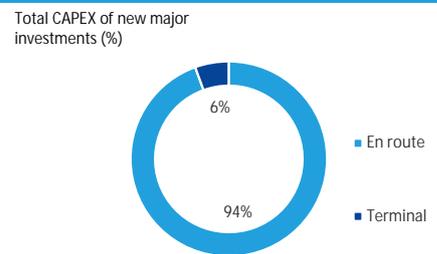
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	322.86	% of total
- New major investments (above 5M€ each)²	322.86	100%
- Included in the 2019 draft performance plan	322.86	100%
- Additional ³	-	0%
- Other new Investments (below 5M€ each)⁴	-	0%
- Included in the 2019 draft performance plan	Not reported	-
- Additional	-	0%



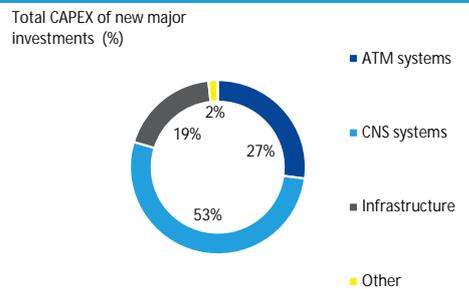
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	322.86	% of total
- En route	304.92	94%
- Terminal	17.94	6%

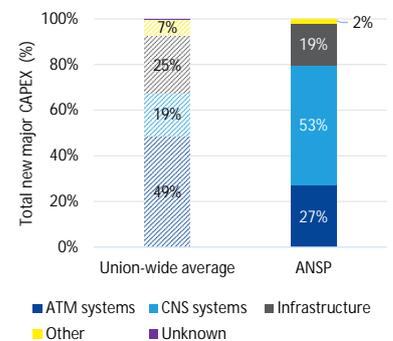
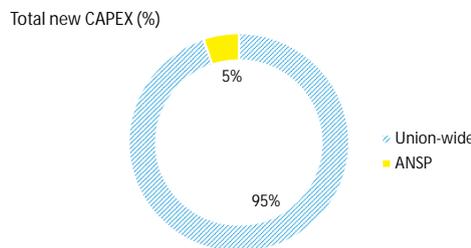
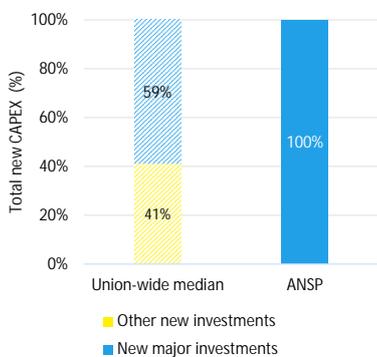


Planned CAPEX by type of investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	322.86	% of total
- ATM systems	87.46	27%
- CNS systems	169.88	53%
- Infrastructure	59.93	19%
- Other	5.59	2%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

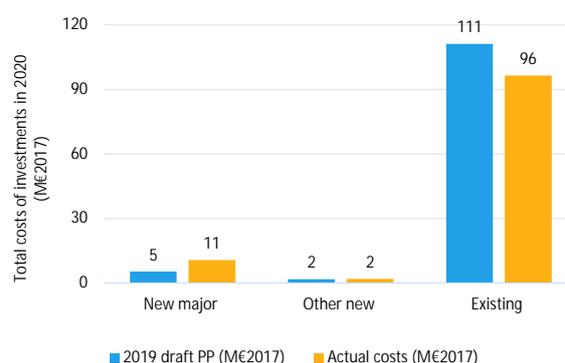
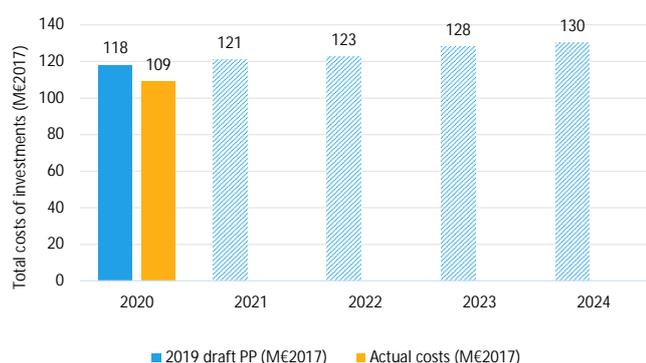
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SPAIN | ENAIRE

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	118.18	121.08	122.72	128.11	130.23	118.18
- New major investments	5.33	11.75	18.82	27.49	38.02	5.33
- % New major investments in total costs of investments	5%	10%	15%	21%	29%	5%
- Other new investments	1.74	2.51	2.92	3.51	3.51	1.74
- % Other new investments in total costs of investments	1%	2%	2%	3%	3%	1%
- Existing investments	111.11	106.81	100.98	97.11	88.70	111.11
- % Existing investments in total costs of investments	94%	88%	82%	76%	68%	94%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	109.06	-	-	-	-	109.06
- New major investments	10.62	-	-	-	-	10.62
- % New major investments in total costs of investments	10%	-	-	-	-	10%
- Other new investments	1.95	-	-	-	-	1.95
- % Other new investments in total costs of investments	2%	-	-	-	-	2%
- Existing investments	96.49	-	-	-	-	96.49
- % Existing investments in total costs of investments	88%	-	-	-	-	88%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(9.13)	-	-	-	-	(9.13)
- New major investments	5.29	-	-	-	-	5.29
- % change of actual with respect to 2019 draft PP	99%	-	-	-	-	99%
- Other new investments	0.21	-	-	-	-	0.21
- % change of actual with respect to 2019 draft PP	12%	-	-	-	-	12%
- Existing investments	(14.63)	-	-	-	-	(14.63)
- % change of actual with respect to 2019 draft PP	-13%	-	-	-	-	-13%



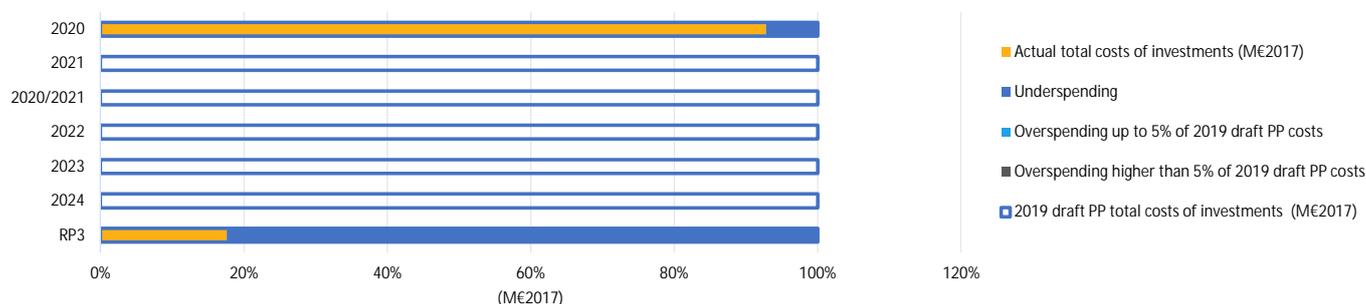
1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN SPAIN CONTINENTAL - En route | ENAIRE

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	96.55	99.28	195.83	100.55	105.04	107.12	96.55
Depreciation	72.18	74.61	146.79	74.98	77.85	78.10	72.18
Cost of capital	24.37	24.67	49.04	25.58	27.19	29.02	24.37
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	89.59	-	-	-	-	-	89.59
Depreciation	66.64	-	-	-	-	-	66.64
Cost of capital	22.95	-	-	-	-	-	22.95
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(6.96)	-	-	-	-	-	(6.96)
Depreciation	(5.54)	-	-	-	-	-	(5.54)
Cost of capital	(1.43)	-	-	-	-	-	(1.43)
Cost of leasing	-	-	-	-	-	-	-

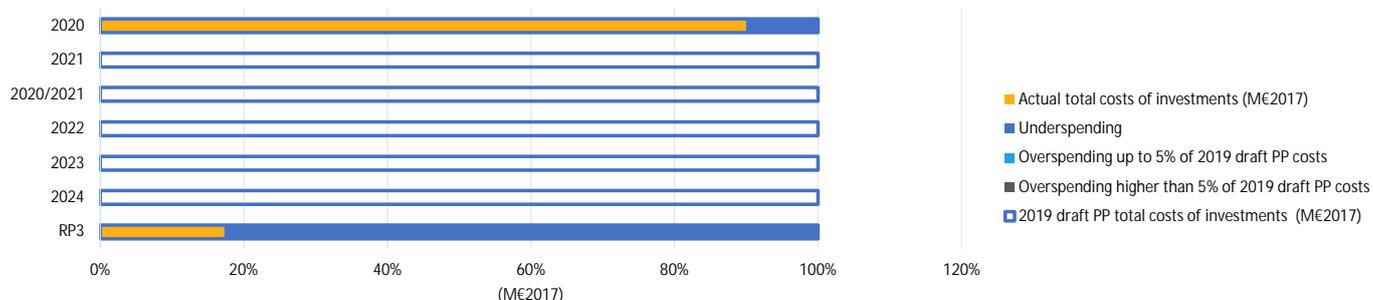


COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN SPAIN GRAN CANARIA- En route | ENAIRE

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	12.72	12.68	25.40	13.10	13.86	14.02	12.72
Depreciation	9.23	9.15	18.37	9.44	9.97	10.01	9.23
Cost of capital	3.50	3.53	7.03	3.66	3.89	4.01	3.50
Cost of leasing	-	-	-	-	-	-	-

Actual costs by type of cost (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	11.44	-	-	-	-	-	11.44
Depreciation	8.51	-	-	-	-	-	8.51
Cost of capital	2.93	-	-	-	-	-	2.93
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.28)	-	-	-	-	-	(1.28)
Depreciation	(0.72)	-	-	-	-	-	(0.72)
Cost of capital	(0.57)	-	-	-	-	-	(0.57)
Cost of leasing	-	-	-	-	-	-	-



1. The data on costs of investments is based on the data submitted in the reporting tables.

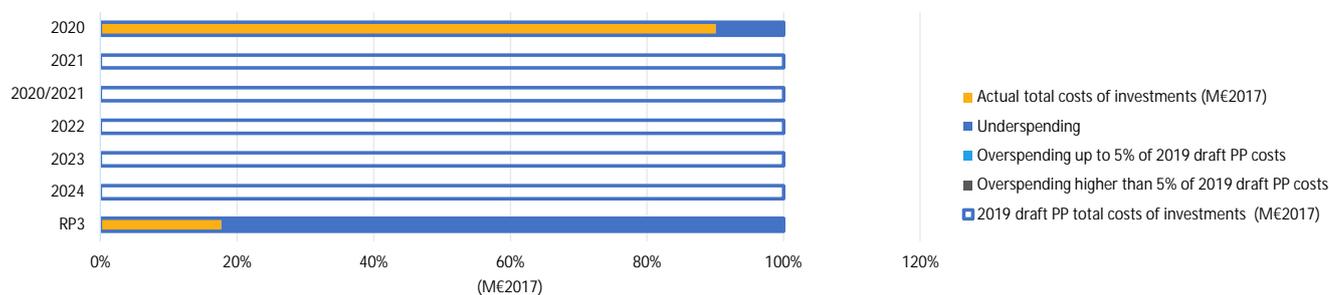
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SPAIN CONTINENTAL - Terminal | ENAIRE

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	8.91	9.12	18.02	9.06	9.20	9.09	8.91
Depreciation	6.79	6.99	13.78	6.88	6.90	6.64	6.79
Cost of capital	2.11	2.13	4.24	2.19	2.30	2.45	2.11
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	8.02	-	-	-	-	-	8.02
Depreciation	6.19	-	-	-	-	-	6.19
Cost of capital	1.83	-	-	-	-	-	1.83
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(0.88)	-	-	-	-	-	(0.88)
Depreciation	(0.60)	-	-	-	-	-	(0.60)
Cost of capital	(0.29)	-	-	-	-	-	(0.29)
Cost of leasing	-	-	-	-	-	-	-



1. The data on costs of investments is based on the data submitted in the reporting tables.

COSTS BY NEW MAJOR INVESTMENTS	SPAIN ENAIRE
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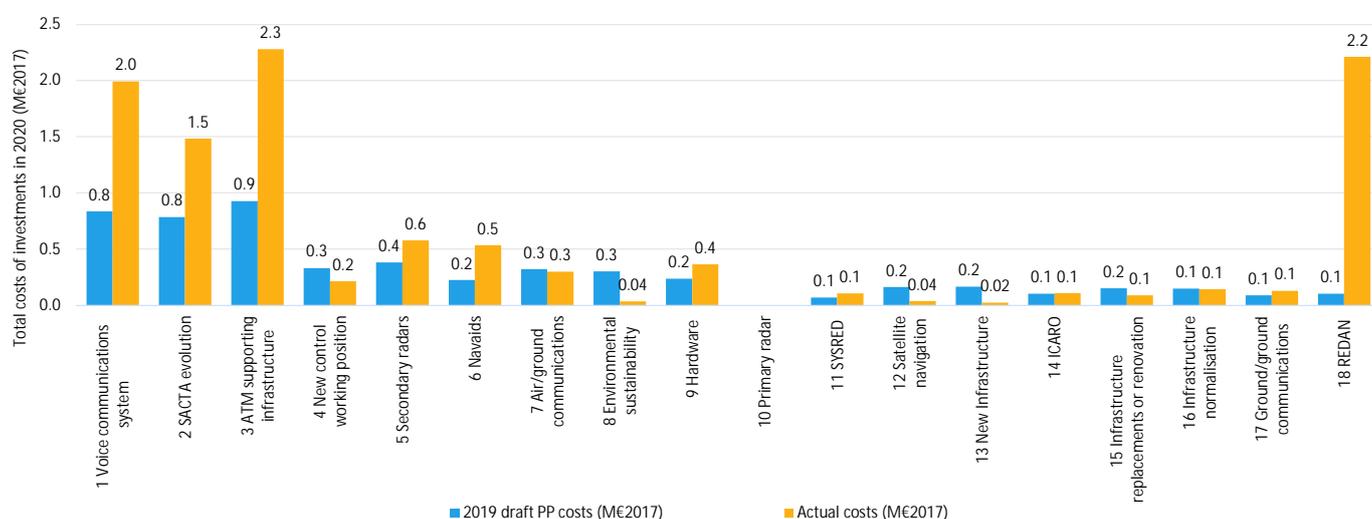
2019 draft PP costs (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	5.33	11.75	18.82	27.49	38.02	5.33
1 Voice communications system	0.84	2.37	3.73	5.74	8.77	0.84
2 SACTA evolution	0.78	1.87	2.95	3.51	4.57	0.78
3 ATM supporting infrastructure	0.93	1.22	2.44	3.82	4.85	0.93
4 New control working position	0.33	0.52	0.78	1.77	2.50	0.33
5 Secondary radars	0.38	0.77	1.15	1.26	1.34	0.38
6 Nav aids	0.23	0.58	0.96	1.38	1.71	0.23
7 Air/ground communications	0.32	0.50	0.93	1.42	1.67	0.32
8 Environmental sustainability	0.30	0.95	0.99	1.01	1.01	0.30
9 Hardware	0.24	0.38	0.62	1.02	1.41	0.24
10 Primary radar	-	0.08	0.38	1.03	2.06	-
11 SYSRED (national network data integration)	0.07	0.21	0.42	0.63	1.99	0.07
12 Satellite navigation	0.16	0.29	0.52	1.06	1.19	0.16
13 New infrastructure	0.17	0.37	0.51	0.78	1.31	0.17
14 ICARO	0.10	0.55	0.75	0.81	0.82	0.10
15 Infrastructure replacements or renovation	0.15	0.36	0.54	0.71	0.83	0.15
16 Infrastructure normalisation	0.15	0.31	0.54	0.65	0.75	0.15
17 Ground/ground communications	0.09	0.28	0.43	0.60	0.75	0.09
18 REDAN (air navigation data network)	0.10	0.13	0.18	0.27	0.48	0.10

Actual costs (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	10.62	-	-	-	-	10.62
1 Voice communications system	1.99	-	-	-	-	1.99
2 SACTA evolution	1.48	-	-	-	-	1.48
3 ATM supporting infrastructure	2.28	-	-	-	-	2.28
4 New control working position	0.21	-	-	-	-	0.21
5 Secondary radars	0.58	-	-	-	-	0.58
6 Nav aids	0.53	-	-	-	-	0.53
7 Air/ground communications	0.30	-	-	-	-	0.30
8 Environmental sustainability	0.04	-	-	-	-	0.04
9 Hardware	0.37	-	-	-	-	0.37
10 Primary radar	-	-	-	-	-	-
11 SYSRED (national network data integration)	0.11	-	-	-	-	0.11
12 Satellite navigation	0.04	-	-	-	-	0.04
13 New infrastructure	0.02	-	-	-	-	0.02
14 ICARO	0.11	-	-	-	-	0.11
15 Infrastructure replacements or renovation	0.09	-	-	-	-	0.09
16 Infrastructure normalisation	0.14	-	-	-	-	0.14
17 Ground/ground communications	0.13	-	-	-	-	0.13
18 REDAN (air navigation data network)	2.21	-	-	-	-	2.21

COSTS OF NEW MAJOR INVESTMENTS

SPAIN | ENAIRE

Actual minus 2019 draft PP costs of Investments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of investments	5.29	-	-	-	-	5.29
1 Voice communications system	1.16	-	-	-	-	1.16
2 SACTA evolution	0.70	-	-	-	-	0.70
3 ATM supporting infrastructure	1.35	-	-	-	-	1.35
4 New control working position	(0.12)	-	-	-	-	(0.12)
5 Secondary radars	0.20	-	-	-	-	0.20
6 Nav aids	0.31	-	-	-	-	0.31
7 Air/ground communications	(0.02)	-	-	-	-	(0.02)
8 Environmental sustainability	(0.27)	-	-	-	-	(0.27)
9 Hardware	0.13	-	-	-	-	0.13
10 Primary radar	-	-	-	-	-	-
11 SYSRED (national network data integration)	0.04	-	-	-	-	0.04
12 Satellite navigation	(0.12)	-	-	-	-	(0.12)
13 New infrastructure	(0.14)	-	-	-	-	(0.14)
14 ICARO	0.01	-	-	-	-	0.01
15 Infrastructure replacements or renovation	(0.06)	-	-	-	-	(0.06)
16 Infrastructure normalisation	(0.01)	-	-	-	-	(0.01)
17 Ground/ground communications	0.04	-	-	-	-	0.04
18 REDAN (air navigation data network)	2.11	-	-	-	-	2.11



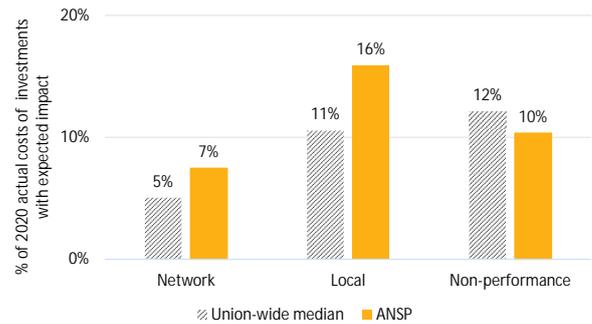
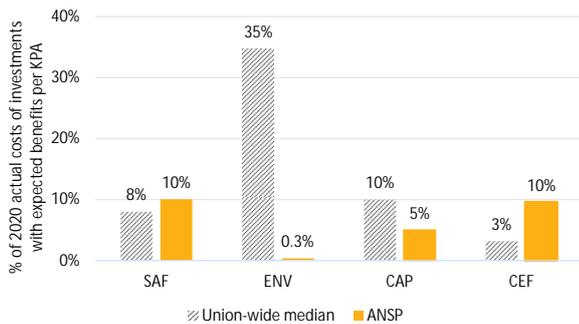
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

SPAIN | ENAIRE

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Voice communications system				
2	SACTA evolution				
3	ATM supporting infrastructure				
4	New control working position				
5	Secondary radars				
6	Nav aids	X		X	X
7	Air/ground communications	X			X
8	Environmental sustainability		X		X
9	Hardware				
10	Primary radar	X		X	X
11	SYSRED (national network data integration)	X			
12	Satellite navigation				
13	New infrastructure				X
14	ICARO				
15	Infrastructure replacements or renovation				
16	Infrastructure normalisation				
17	Ground/ground communications	X			X
18	REDAN (air navigation data network)				

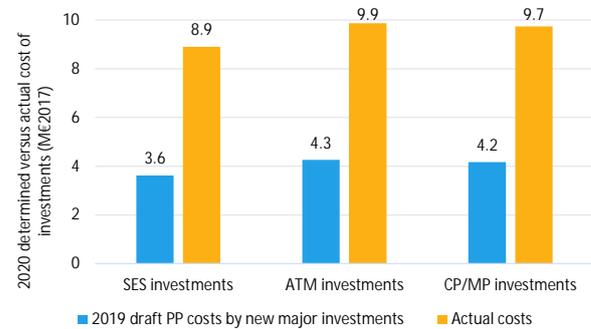
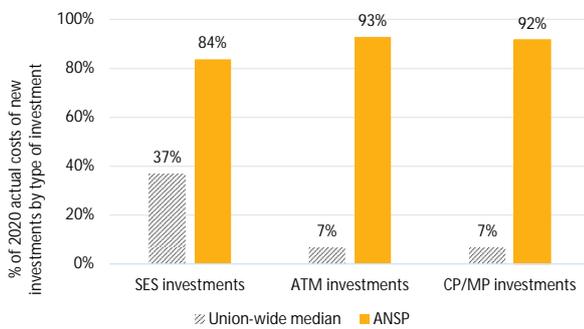
#	New major Investments	Expected impact		
		Network	Local	Non-performance
1	Voice communications system			
2	SACTA evolution			
3	ATM supporting infrastructure			
4	New control working position			
5	Secondary radars			
6	Nav aids		X	
7	Air/ground communications	X	X	X
8	Environmental sustainability			X
9	Hardware	X	X	X
10	Primary radar		X	
11	SYSRED (national network data integration)		X	X
12	Satellite navigation			
13	New infrastructure		X	X
14	ICARO			
15	Infrastructure replacements or renovation		X	
16	Infrastructure normalisation		X	X
17	Ground/ground communications	X	X	X
18	REDAN (air navigation data network)			



EXPECTED IMPACT AND BENEFIT PER NEW MAJOR INVESTMENT

SPAIN | ENAIRE

#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	Voice communications system	2019-2028	Started	Yes	No	Yes	CP
2	SACTA evolution	2020-2029	Started	Yes	No	Yes	CP
3	ATM supporting infrastructure	2019-2025	Started	Yes	No	Yes	CP
4	New control working position	2020-2028	Started	Yes	No	Yes	CP
5	Secondary radars	2020-2026	Started	Yes	No	Yes	MP
6	Nav aids	2019-2025	Started	No	No	Yes	MP
7	Air/ground communications	2019-2027	Started	No	No	Yes	MP
8	Environmental sustainability	2019-2026	Started	No	No	No	-
9	Hardware	2019-2027	Started	No	No	No	-
10	Primary radar	2022-2026	Not started	No	No	Yes	-
11	SYSRED (national network data integration)	2024-2026	Started	No	No	No	-
12	Satellite navigation	2020-2026	Started	Yes	No	Yes	CP
13	New infrastructure	2019-2026	Started	No	No	No	-
14	ICARO	2021-2025	Started	Yes	No	Yes	CP
15	Infrastructure replacements or renovation	2019-2026	Started	No	No	No	-
16	Infrastructure normalisation	2020-2026	Started	No	No	No	-
17	Ground/ground communications	2021-2026	Started	No	No	Yes	-
18	REDAN (air navigation data network)	2020-2027	Started	Yes	No	Yes	CP



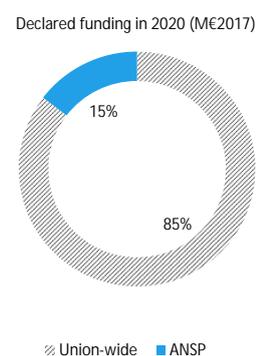
KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T)						SPAIN ENAIRE
Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	6.83	-	-	-	-	6.83
- En route funding declared	6.24	-	-	-	-	6.24
<i>En route funding that could not be assigned to a specific investment</i>	<i>1.96</i>	-	-	-	-	<i>1.96</i>
1 <i>Voice communications system</i>	<i>2.02</i>	-	-	-	-	<i>2.02</i>
2 <i>SACTA evolution</i>	<i>1.18</i>	-	-	-	-	<i>1.18</i>
4 <i>New control working position</i>	<i>0.62</i>	-	-	-	-	<i>0.62</i>
17 <i>Ground/ground communications</i>	<i>0.45</i>	-	-	-	-	<i>0.45</i>
- Terminal funding	0.59	-	-	-	-	0.59
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.59</i>	-	-	-	-	<i>0.59</i>
Actual funding declaration vs payments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	4.44	-	-	-	-	4.44
Total included in the funding declaration (reporting tables)	6.83	-	-	-	-	6.83
SDM payment	2.40	-	-	-	-	2.40



Spain reported 6.83M€₂₀₁₇ in 2020. The funding was awarded for 34 projects. Some of these projects could be linked to the investments "Voice Communications System", "SACTA evolution", "New control working position" and "Ground/Ground Communications".

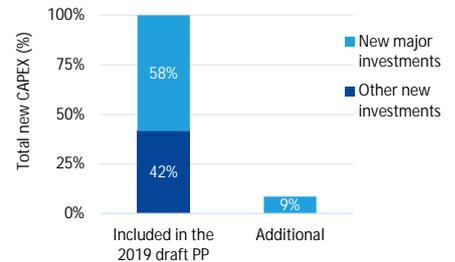
5.29 Sweden - LFV

Sweden underspent 4M€₂₀₁₇ (-21%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Sweden planned three new major investments for RP3, one of which has started, one has been delayed and one has not started. Sweden also reported additional new major investments that were not initially included in the 2019 draft performance plan. However, Sweden did not report the detailed information related to the additional new major investments.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ SWEDEN | LFV

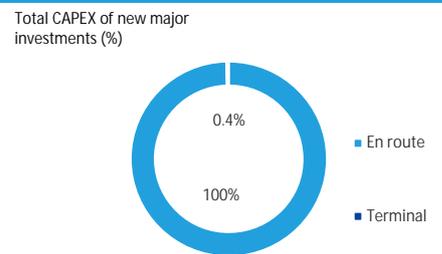
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	134.09	% of total
- New major investments (above 5M€ each)²	82.60	62%
- Included in the 2019 draft performance plan	71.97	54%
- Additional ³	10.63	8%
- Other new investments (below 5M€ each)⁴	51.49	38%
- Included in the 2019 draft performance plan	51.49	38%
- Additional	-	0%



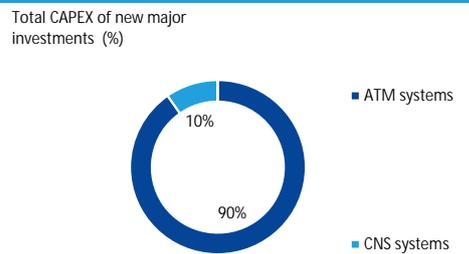
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	71.97	% of total
- En route	71.97	100%
- Terminal	0.28	0.4%

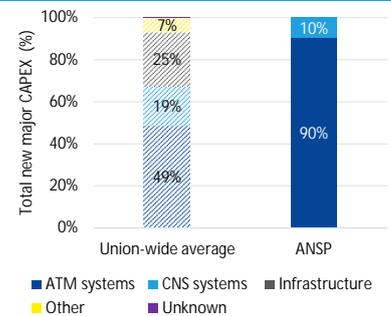
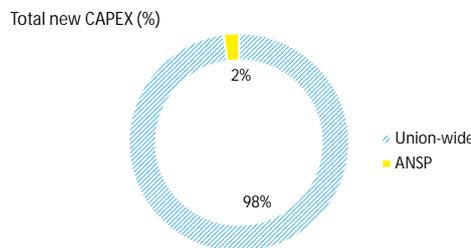
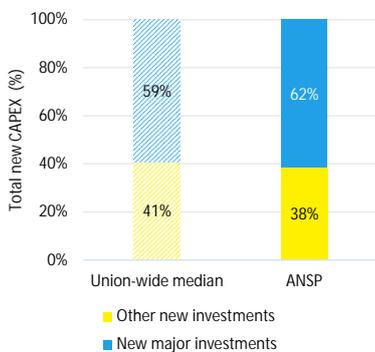


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	71.97	% of total
- ATM systems	64.98	90%
- CNS systems	6.99	10%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

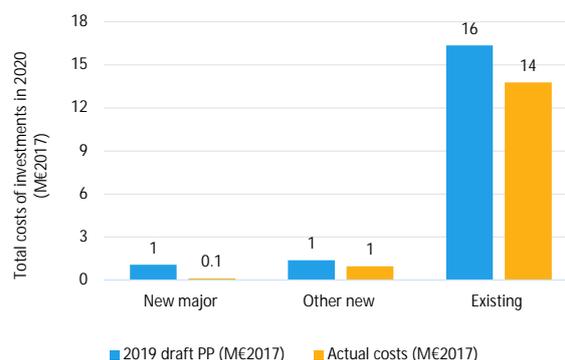
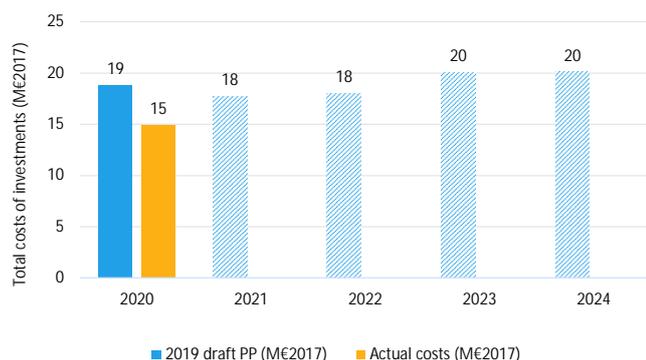
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SWEDEN | LfV

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	18.82	17.71	18.03	20.08	20.10	18.82
- New major investments	1.07	1.36	1.50	2.25	2.29	1.07
- % New major investments in total costs of investments	6%	8%	8%	11%	11%	6%
- Other new investments	1.39	1.64	1.87	3.15	3.42	1.39
- % Other new investments in total costs of investments	7%	9%	10%	16%	17%	7%
- Existing investments	16.37	14.71	14.67	14.68	14.40	16.37
- % Existing investments in total costs of investments	87%	83%	81%	73%	72%	87%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	14.88	-	-	-	-	14.88
- New major investments	0.12	-	-	-	-	0.12
- % New major investments in total costs of investments	1%	-	-	-	-	1%
- Other new investments	0.97	-	-	-	-	0.97
- % Other new investments in total costs of investments	6%	-	-	-	-	6%
- Existing investments	13.79	-	-	-	-	13.79
- % Existing investments in total costs of investments	93%	-	-	-	-	93%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(3.95)	-	-	-	-	(3.95)
- New major investments	(0.95)	-	-	-	-	(0.95)
- % change of actual with respect to 2019 draft PP	-88%	-	-	-	-	-88%
- Other new investments	(0.42)	-	-	-	-	(0.42)
- % change of actual with respect to 2019 draft PP	-30%	-	-	-	-	-30%
- Existing investments	(2.58)	-	-	-	-	(2.58)
- % change of actual with respect to 2019 draft PP	-16%	-	-	-	-	-16%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

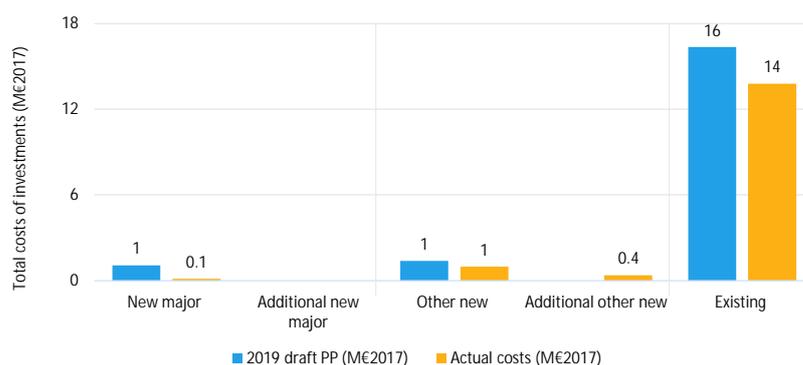
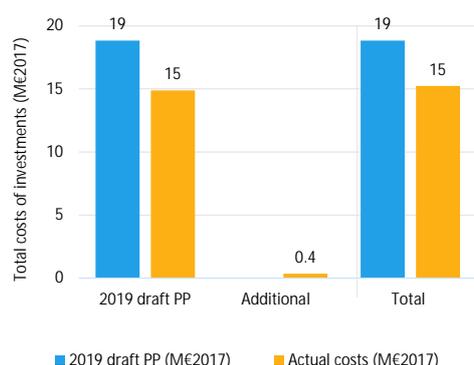
COST RELATED TO INVESTMENTS: 2019 DRAFT PERFORMANCE PLAN AND ADDITIONAL INVESTMENTS

SWEDEN | LfV

2019 draft PP costs: planned and additional investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	18.82	17.71	18.03	20.08	20.10	18.82
2019 draft performance plan	18.82	17.71	18.03	20.08	20.10	18.82
- New major investments	1.07	1.36	1.50	2.25	2.29	1.07
- Other new investments	1.39	1.64	1.87	3.15	3.42	1.39
- Existing investments	16.37	14.71	14.67	14.68	14.40	16.37
Additional²	-	-	-	-	-	-
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	-	-	-	-	-	-

Actual costs: planned and additional investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	15.24	-	-	-	-	15.24
2019 draft performance plan	14.88	-	-	-	-	14.88
- New major investments	0.12	-	-	-	-	0.12
- Other new investments	0.97	-	-	-	-	0.97
- Existing investments	13.79	-	-	-	-	13.79
Additional	0.37	-	-	-	-	0.37
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	0.37	-	-	-	-	0.37

Actual versus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3
Total difference	(3.58)	(17.71)	(18.03)	(20.08)	(20.10)	(3.58)
2019 draft performance plan	(3.95)	-	-	-	-	(3.95)
- New major investments	(0.95)	-	-	-	-	(0.95)
- Other new investments	(0.42)	-	-	-	-	(0.42)
- Existing investments	(2.58)	-	-	-	-	(2.58)
Additional	0.37	-	-	-	-	0.37
- Additional new major investments	-	-	-	-	-	-
- Additional other new investments	0.37	-	-	-	-	0.37



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

2. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.

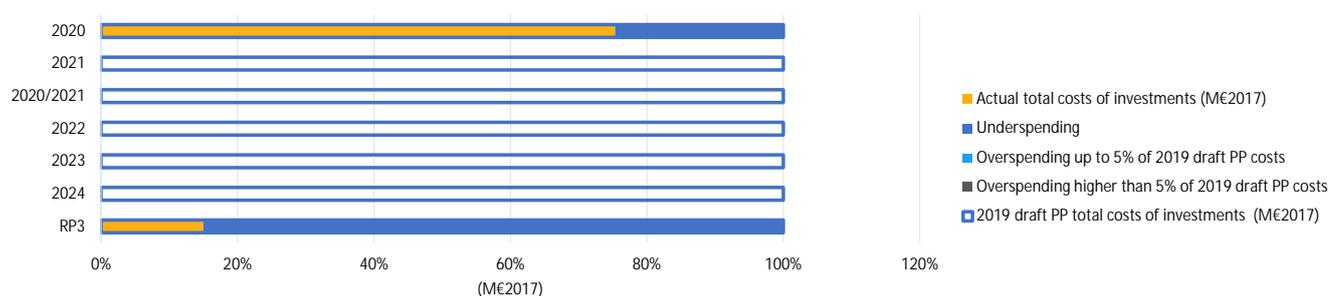
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SWEDEN - En route | LfV

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	21.61	20.59	42.20	20.94	22.86	22.70	21.61
Depreciation	15.20	14.27	29.48	14.66	16.60	16.49	15.20
Cost of capital	6.41	6.31	12.72	6.28	6.27	6.21	6.41
Cost of leasing	-	-	-	-	-	-	-

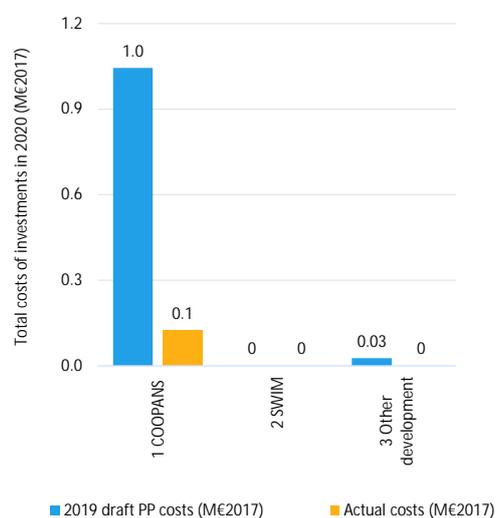
Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	16.28	-	-	-	-	-	16.28
Depreciation	13.87	-	-	-	-	-	13.87
Cost of capital	2.41	-	-	-	-	-	2.41
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(5.33)	-	-	-	-	-	(5.33)
Depreciation	(1.33)	-	-	-	-	-	(1.33)
Cost of capital	(4.00)	-	-	-	-	-	(4.00)
Cost of leasing	-	-	-	-	-	-	-



The costs related to investments in the terminal charging zone of Sweden are out of the scope of this report since they are not attributed to the main ANSP.

COSTS BY NEW MAJOR INVESTMENTS							SWEDEN LfV
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date	
Total costs of investments	1.07	1.36	1.50	2.25	2.29	1.07	
1 COOPANS (SE)	1.05	1.33	1.47	1.66	1.72	1.05	
2 SWIM	-	-	-	0.56	0.55	-	
3 Other development	0.03	0.03	0.03	0.03	0.03	0.03	
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date	
Total costs of investments	0.12	-	-	-	-	0.12	
1 COOPANS (SE)	0.12	-	-	-	-	0.12	
2 SWIM	-	-	-	-	-	-	
3 Other development	-	-	-	-	-	-	
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date	
Total difference in costs of Investments	(0.95)	-	-	-	-	(0.95)	
1 COOPANS (SE)	(0.92)	-	-	-	-	(0.92)	
2 SWIM	-	-	-	-	-	-	
3 Other development	(0.03)	-	-	-	-	(0.03)	



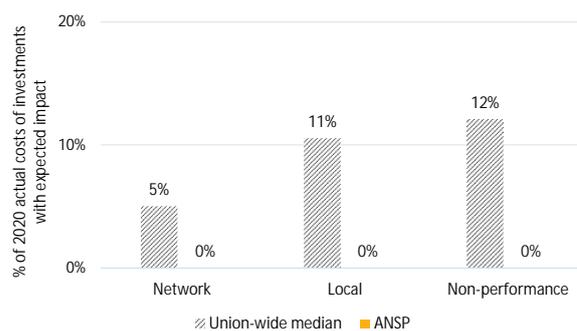
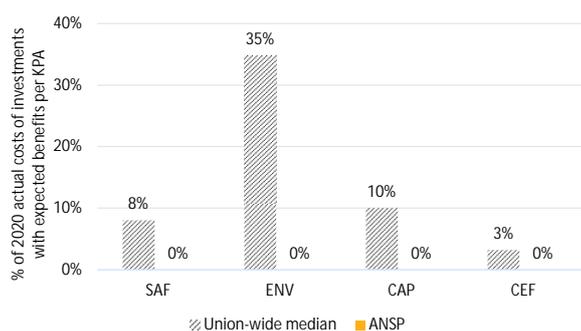
1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT

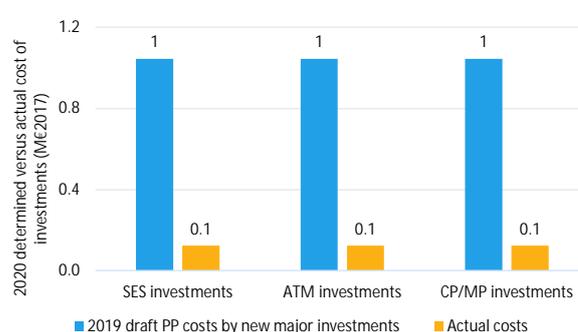
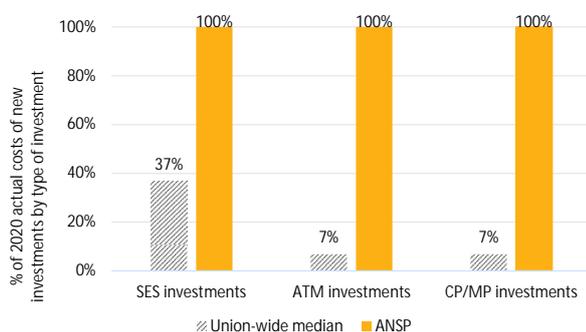
SWEDEN | LfV

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	COOPANS (SE)				
2	SWIM				
3	Other development			X	X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	COOPANS (SE)			
2	SWIM			
3	Other development	X		



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM sytem	CP/ MP ²
1	COOPANS (SE)	Not reported	Started	Yes	Yes	Yes	CP
2	SWIM	Not reported	Not started	Yes	Yes	Yes	CP
3	Other development	After RP3	Started	No	No	No	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

1. EOI date = Date of entry into operation

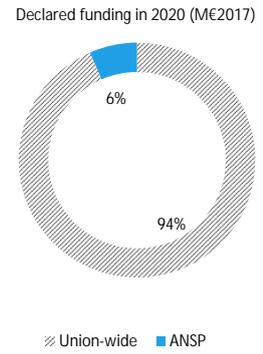
2. CP/MP = Common Project and Master Plan

The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

One investment has been marked as delayed, due to not recording actual costs of investments in 2020.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) SWEDEN | LfV

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	2.79	-	-	-	-	2.79
- En route funding declared	2.71	-	-	-	-	2.71
<i>En route funding that could not be assigned to a specific investment</i>	<i>2.04</i>	-	-	-	-	<i>2.04</i>
1 <i>COOPANS (SE)</i>	-	-	-	-	-	-
2 <i>SWIM</i>	<i>0.67</i>	-	-	-	-	<i>0.67</i>
- Terminal funding	0.08	-	-	-	-	0.08
<i>Terminal funding that could not be assigned to a specific investment</i>	<i>0.08</i>	-	-	-	-	<i>0.08</i>
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	2.75	-	-	-	-	2.75
Total included in the funding declaration (reporting tables)	2.79	-	-	-	-	2.79
SDM payment	0.03	-	-	-	-	0.03



Sweden reported 2.79M€₂₀₁₇ in 2020. The funding was awarded for the projects “European Deployment Roadmap for Flight Object Interoperability (SE)”, “Deploy SWIM governance (SE)”, “DLS Implementation Project - Path 2” and “DLS Implementation Project - Path 1 ‘Ground’ stakeholders”. Part of this funding could be linked to the investment “SWIM”.

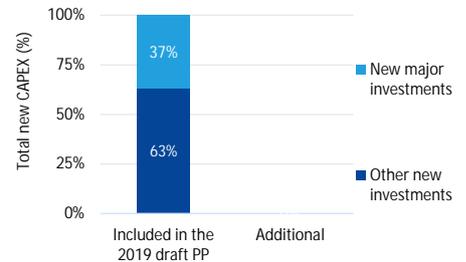
5.30 Switzerland - Skyguide

Switzerland underspent 4M€₂₀₁₇ (-8%) in costs related to investments in 2020 compared to the 2019 draft performance plan. Switzerland planned four new major investments for RP3, all of which have started.

CAPEX FOR NEW INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN (2019 DRAFT PP)¹ SWITZERLAND | Skyguide

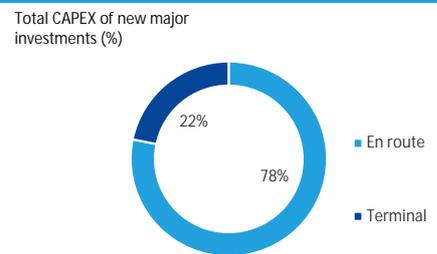
Planned and additional CAPEX by value of Individual Investments (M€₂₀₁₇) RP3

Total CAPEX for new Investments	241.14	% of total
- New major investments (above 5M€ each)²	89.45	37%
- Included in the 2019 draft performance plan	89.45	37%
- Additional ³	-	0%
- Other new Investments (below 5M€ each)⁴	151.69	63%
- Included in the 2019 draft performance plan	151.69	63%
- Additional	-	0%



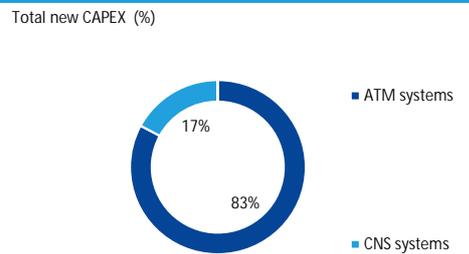
Planned CAPEX: en route and terminal (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	89.45	% of total
- En route	69.99	78%
- Terminal	19.46	22%

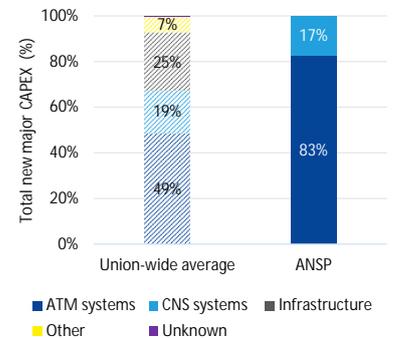
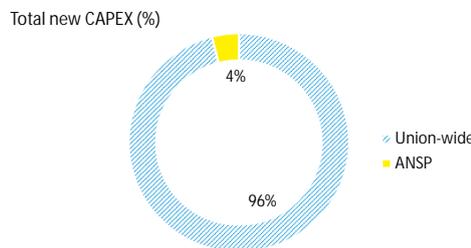
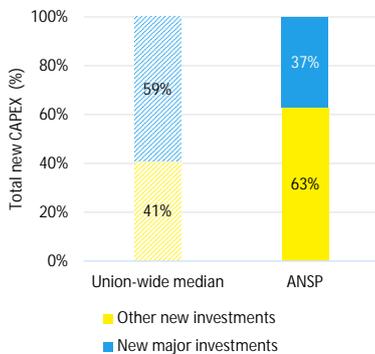


Planned CAPEX by type of Investment (M€₂₀₁₇) RP3

Total CAPEX for new major Investments	89.45	% of total
- ATM systems	74.17	83%
- CNS systems	15.28	17%
- Infrastructure	-	0%
- Other	-	0%
- Unknown	-	0%



New CAPEX: ANSP compared to Union-wide RP3



The Union-wide average values have a high standard deviation: ATM systems (31%), CNS systems (21%), infrastructure (24%), Other (21%), unknown (1%).

1. The 2019 draft performance plans were not adopted and are currently under revision. The Commission found that most plans are inconsistent with the criteria defined by applicable law, however, the process for adoption of the plans was interrupted due to the impact of the COVID-19 pandemic. Revised performance plans will be submitted in October 2021.
 2. New major investments: "acquisition, development, replacement, upgrade, or leasing of fixed assets representing a total value over the whole lifetime of the assets greater than EUR 5 million in real terms" (Reg. 2019/317 art. 2 (13)).
 3. Additional investments are those investments not foreseen as part of the 2019 draft performance plan.
 4. Other new investments: new investments or replacements/upgrades of existing assets representing a total value over the whole lifetime of the asset below 5M€ in real terms.

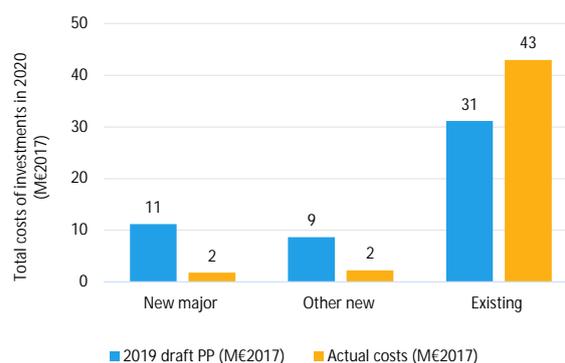
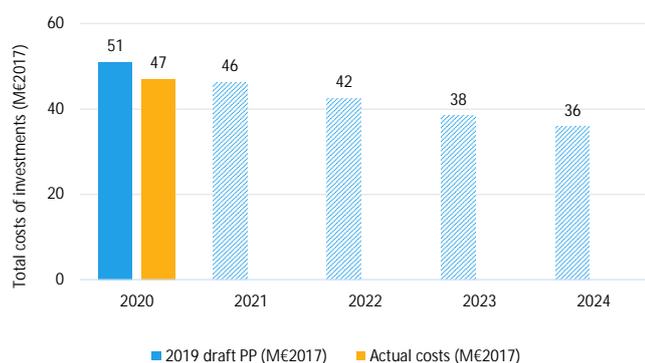
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SWITZERLAND | Skyguide

2019 draft PP costs: new and existing Investments (M€ ₂₀₁₇) ¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs	51.01	46.26	42.36	38.35	35.81	51.01
- New major investments	11.19	11.55	10.91	9.61	8.70	11.19
- % <i>New major investments in total costs of investments</i>	22%	25%	26%	25%	24%	22%
- Other new investments	8.63	10.89	12.93	14.24	15.60	8.63
- % <i>Other new investments in total costs of investments</i>	17%	24%	31%	37%	44%	17%
- Existing investments	31.18	23.82	18.52	14.49	11.51	31.18
- % <i>Existing investments in total costs of investments</i>	61%	51%	44%	38%	32%	61%

Actual costs: new and existing Investments (M€ ₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs	47.01	-	-	-	-	47.01
- New major investments	1.79	-	-	-	-	1.79
- % <i>New major investments in total costs of investments</i>	4%	-	-	-	-	4%
- Other new investments	2.23	-	-	-	-	2.23
- % <i>Other new investments in total costs of investments</i>	5%	-	-	-	-	5%
- Existing investments	43.00	-	-	-	-	43.00
- % <i>Existing investments in total costs of investments</i>	91%	-	-	-	-	91%

Actual minus 2019 draft PP costs (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference	(3.99)	-	-	-	-	(3.99)
- New major investments	(9.40)	-	-	-	-	(9.40)
- % <i>change of actual with respect to 2019 draft PP</i>	-84%	-	-	-	-	-84%
- Other new investments	(6.40)	-	-	-	-	(6.40)
- % <i>change of actual with respect to 2019 draft PP</i>	-74%	-	-	-	-	-74%
- Existing investments	11.82	-	-	-	-	11.82
- % <i>change of actual with respect to 2019 draft PP</i>	38%	-	-	-	-	38%



1. The 2019 draft performance plans submitted in October and November 2019 include costs related to investments which comprise depreciation cost, cost of capital and cost of leasing. These plans were not adopted and are currently under revision.

Switzerland included adjustments to the determined costs of investments, under the name of "Amounts not financed by users of Swiss FIR". These adjustments have been deducted from the costs of existing investments.

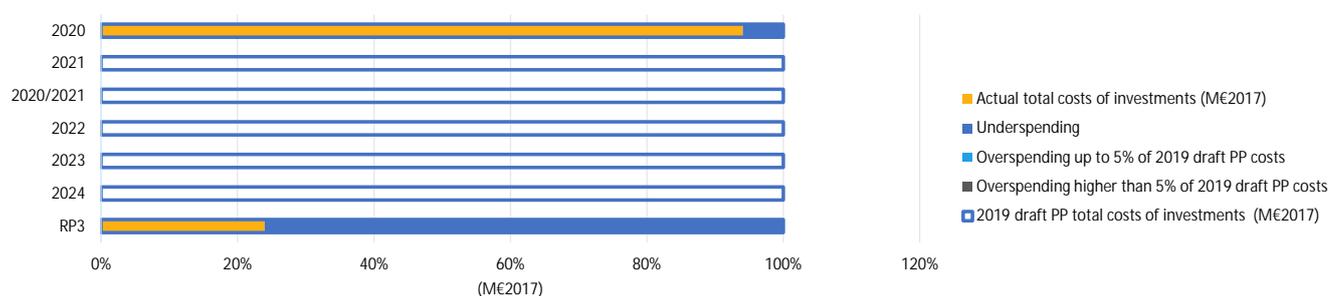
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SWITZERLAND - En route | Skyguide

2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	28.44	25.33	53.77	21.89	18.94	16.95	28.44
Depreciation	24.46	21.77	46.22	18.70	16.01	14.21	24.46
Cost of capital	3.98	3.57	7.55	3.19	2.93	2.74	3.98
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	26.75	-	-	-	-	-	26.75
Depreciation	23.43	-	-	-	-	-	23.43
Cost of capital	3.32	-	-	-	-	-	3.32
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(1.69)	-	-	-	-	-	(1.69)
Depreciation	(1.03)	-	-	-	-	-	(1.03)
Cost of capital	(0.66)	-	-	-	-	-	(0.66)
Cost of leasing	-	-	-	-	-	-	-



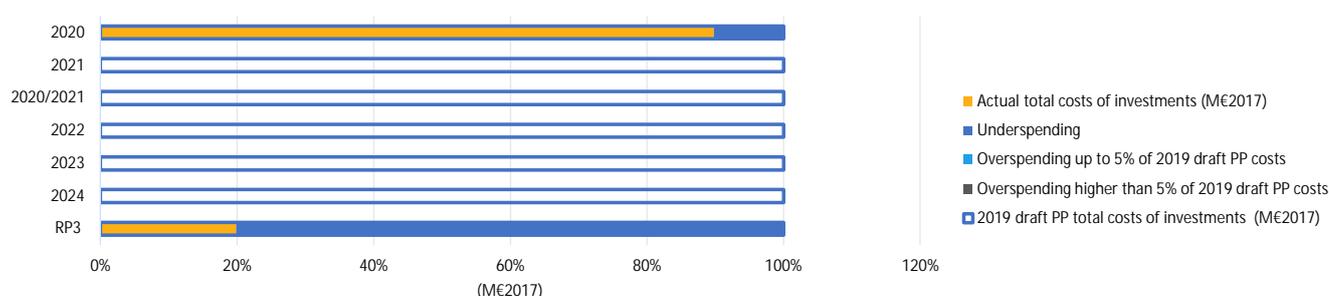
COSTS RELATED TO INVESTMENTS INCLUDED IN THE 2019 DRAFT PERFORMANCE PLAN

SWITZERLAND - Terminal | Skyguide

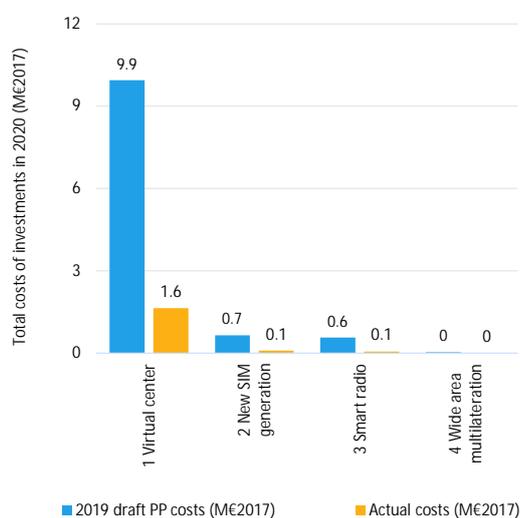
2019 draft PP costs by nature (M€ ₂₀₁₇) ¹	2020D	2021D	2020D/2021D	2022D	2023D	2024D	RP3 to date
Total costs of new and existing investments	22.57	20.93	43.49	20.47	19.40	18.86	22.57
Depreciation	18.42	16.98	35.39	16.70	15.82	15.49	18.42
Cost of capital	4.15	3.95	8.10	3.77	3.58	3.37	4.15
Cost of leasing	-	-	-	-	-	-	-

Actual costs by nature (M€ ₂₀₁₇)	2020A	2021A	2020A/2021A	2022A	2023A	2024A	RP3 to date
Total costs of new and existing investments	20.27	-	-	-	-	-	20.27
Depreciation	17.06	-	-	-	-	-	17.06
Cost of capital	3.21	-	-	-	-	-	3.21
Cost of leasing	-	-	-	-	-	-	-

Actual minus 2019 draft PP cost (M€ ₂₀₁₇)	2020	2021	2020/2021	2022	2023	2024	RP3 to date
Total difference	(2.30)	-	-	-	-	-	(2.30)
Depreciation	(1.36)	-	-	-	-	-	(1.36)
Cost of capital	(0.94)	-	-	-	-	-	(0.94)
Cost of leasing	-	-	-	-	-	-	-



COSTS BY NEW MAJOR INVESTMENTS						SWITZERLAND Skyguide
2019 draft PP costs (M€₂₀₁₇)¹	2020D	2021D	2022D	2023D	2024D	RP3 to date
Total costs of investments	11.19	11.55	10.91	9.61	8.70	11.19
1 Virtual center	9.94	10.21	9.44	8.06	7.15	9.94
2 New SIM generation	0.65	0.65	0.63	0.62	0.61	0.65
3 Smart radio	0.56	0.62	0.62	0.61	0.60	0.56
4 Wide area multilateration	0.03	0.08	0.22	0.33	0.35	0.03
Actual costs (M€₂₀₁₇)	2020A	2021A	2022A	2023A	2024A	RP3 to date
Total costs of investments	1.79	-	-	-	-	1.79
1 Virtual center	1.63	-	-	-	-	1.63
2 New SIM generation	0.08	-	-	-	-	0.08
3 Smart radio	0.06	-	-	-	-	0.06
4 Wide area multilateration	0.01	-	-	-	-	0.01
Actual minus 2019 draft PP costs of Investments (M€₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total difference in costs of Investments	(9.40)	-	-	-	-	(9.40)
1 Virtual center	(8.31)	-	-	-	-	(8.31)
2 New SIM generation	(0.57)	-	-	-	-	(0.57)
3 Smart radio	(0.50)	-	-	-	-	(0.50)
4 Wide area multilateration	(0.02)	-	-	-	-	(0.02)

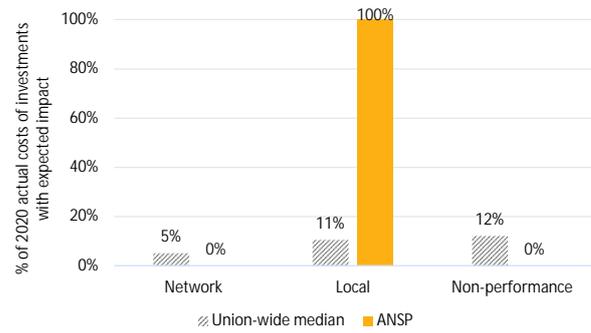
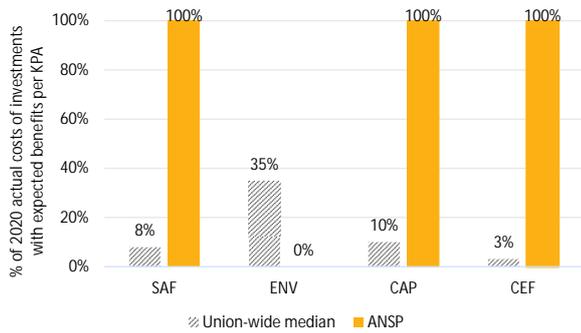


1. Determined costs comprise depreciation costs, cost of capital and cost of leasing in the 2019 draft performance plans. These plans were not adopted and are currently under revision.

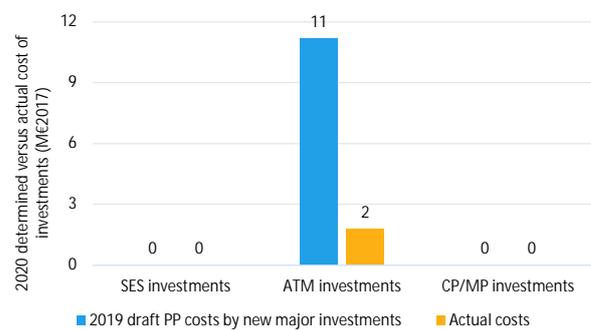
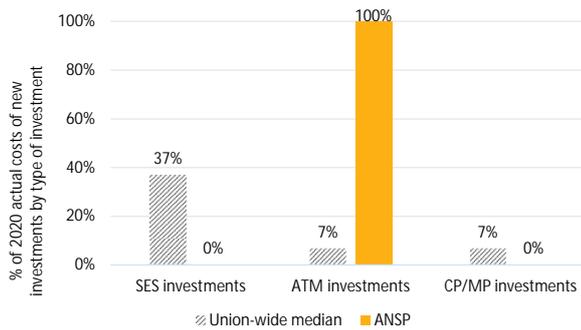
EXPECTED BENEFIT AND IMPACT PER NEW MAJOR INVESTMENT SWITZERLAND | Skyguide

#	New major Investments	Expected benefit per KPA			
		SAF	ENV	CAP	CEF
1	Virtual center	X		X	X
2	New SIM generation	X		X	X
3	Smart radio	X		X	X
4	Wide area multilateration	X		X	X

#	New major Investments	Expected Impact		
		Network	Local	Non-performance
1	Virtual center		X	
2	New SIM generation		X	
3	Smart radio		X	
4	Wide area multilateration		X	



#	New major Investments	EIO Date ¹	Status	SES Reg.	Partnership	ATM system	
						ATM system	CP/MP ²
1	Virtual center	Stepwise	Started	No	No	Yes	-
2	New SIM generation	Stepwise	Started	No	No	Yes	-
3	Smart radio	Stepwise	Started	0	No	Yes	-
4	Wide area multilateration	Stepwise	Started	No	No	Yes	-



KPAs: SAF = Safety, ENV = Environment, CAP = Capacity, CEF = Cost-efficiency.

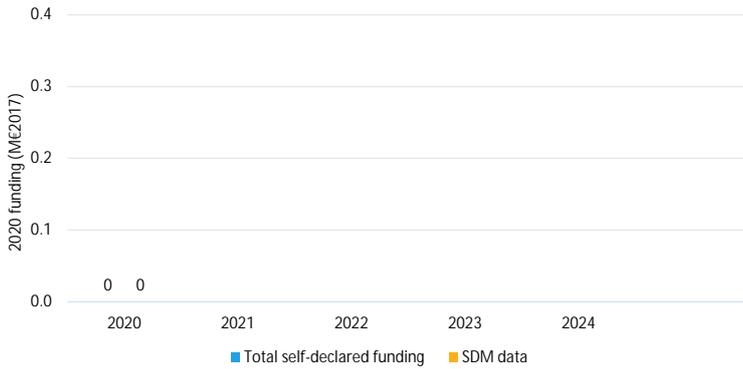
1. EOI date = Date of entry into operation

2. CP/MP = Common Project and Master Plan

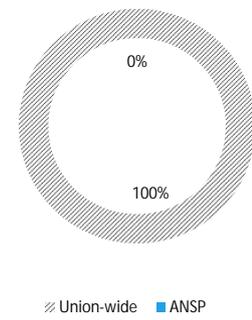
The source of investments data is the 2019 draft performance plans which were not adopted and are currently under revision.

PUBLIC FUNDING GRANTED FOR TOTAL CAPEX (CEF/TEN-T) SWITZERLAND | Skyguide

Actual funding declaration (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Total funding declared	-	-	-	-	-	-
- En route funding declared	-	-	-	-	-	-
<i>En route funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
- Terminal funding	-	-	-	-	-	-
<i>Terminal funding that could not be assigned to a specific investment</i>	-	-	-	-	-	-
Actual funding declaration vs payments (M€ ₂₀₁₇)	2020	2021	2022	2023	2024	RP3 to date
Difference between total funding declared vs received	-	-	-	-	-	-
Total included in the funding declaration (reporting tables)	-	-	-	-	-	-
SDM payment	-	-	-	-	-	-



Declared funding in 2020 (M€2017)



Switzerland did not report any funding in 2020.