PROGRESS REPORT No 2 under Article 17(1) of ITS Directive 2010/40/EU;

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
CNAIR SA (national authority)			
Area I (Optimal use of road, traffic and travel data)			
CNADNR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Narcis Ştefan NEAGA **Structure implementing the project:** Biroul Implementare Sisteme Inteligente de Transport, Direcţia Întreţinere şi Siguranţa Circulaţiei (Intelligent Transport System Implementation Office, Directorate for Traffic Maintenance and Safety) Cristian Andrei, Traffic Maintenance and Safety Director 0212643270; cristian.andrei@andnet.ro Ecaterina Munteanu, Traffic Maintenance and Safety Deputy Director 0212643427; ecaterina.munteanu@andnet.ro Participants in the project: Cristian Andrei – project leader Ecaterina Munteanu Germina Ristea Angela Mihalcea Mirabela Zavera **New structure implementing the project:** **CNAIR SA (national authority)** Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA Directorate for Traffic Maintenance and Safety Office for ITS Motorway Monitoring Lucian ILINA – Head of BMITS A	**Project No 1**	**Traffic and traffic conditions monitoring and information system – development strategy and pilot project**	Only ITS systems were implemented, the motorway being executed in 1967.
	Project description	The purpose of the project is to monitor traffic and road infrastructure and to provide information on traffic and traffic conditions, as well as to complete a short- and medium-term development strategy design at two levels: traffic and road infrastructure monitoring and information on traffic and traffic conditions;	
	Project objectives	The project objectives are: - collecting traffic data: number of vehicles, vehicle classification, travelling speed, vehicle weight (dynamic weighing), gauge, traffic density; - collecting road weather data, visibility; - collecting data on infrastructure: video information and state of system component-equipment (security); - vehicle identification; - incident detection; - ensuring communications / connection between sensors, procurement equipment, local processing units and the monitoring centre; - local data processing; - centralised data processing; - data storage and archiving; - alarm triggering.	
	Project duration	1 September 2010 – 12 April 2011	
	Resources	80% State budget and 20% European Commission funding through EasyWay Project	
	Status	*100% completed*	
	Implementation stages	The system is currently in operation	
	Results obtained / intended	Traffic and traffic conditions monitoring and information equipment were installed at 6 junctions on Motorway A1 (km 10+650; km 22+380; km 36+000; km 71+000; km 106+500; km 119+500). The Centre for traffic and traffic conditions monitoring located at DRDP Bucharest (100 m from the entry lane to Motorway A1) was completed.	
	Beneficiary	CNAIR SA	
CNADNR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Narcis Ştefan NEAGA **Structure implementing the project:**	**Project No 2**	**Extension of the traffic and traffic conditions monitoring and information system from Motorway A1 to Motorway A2**	
	Project description	Monitoring the traffic and the road infrastructure and providing information on the traffic and traffic conditions on Motorway A2 at 3 junctions. Km 64 intersection with DN3 and at km 105 intersection with DN21. The monitoring shall be conducted from the monitoring centre located at DRDP Bucharest completed for the system implemented on Motorway A1. The communication between the dispatching unit and the equipment in the two junctions shall be carried out via radio connection.	Only ITS systems

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Biroul Implementare Sisteme Inteligente de Transport, Direcţia Întreţinere şi Siguranţa Circulaţiei (Intelligent Transport System Implementation Office, Directorate for Traffic Maintenance and Safety) Cristian Andrei, Traffic Maintenance and Safety Director 0212643270; cristian.andrei@andnet.ro Ecaterina Munteanu, Traffic Maintenance and Safety Deputy Director 0212643427; ecaterina.munteanu@andnet.ro Participants in the project: Cristian Andrei – project leader Ecaterina Munteanu Germina Ristea Angela Mihalcea Mirabela Zavera **New structure implementing the project:** **CNAIR SA (national authority)** Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA Directorate for Traffic Maintenance and Safety Office for ITS Motorway Monitoring Lucian ILINA – Head of BMITS A	**Project objectives**	- collecting traffic data: number of vehicles, vehicle classification, traffic density; - collecting road weather data, visibility; - collecting data on infrastructure: video information and state of system component-equipment (security); - informing road users through variable message signs; - incident detection; - ensuring communications/connection between sensors, procurement equipment, local processing units and the monitoring centre; - local data processing; - centralised data processing; - data storage and archiving; - generating reports.	have been implemented
	Project duration	Date of signature: 29 April 2011, Date of completion: 15 July 2011	
	Resources	80% State budget , 20% European Commission funding through EasyWay Project	
	Status	The system is in operation	
	Implementation stages	The system is in operation	
	Results obtained / intended	Traffic, traffic conditions and infrastructure monitoring and information equipment, as well as information equipment for road users were installed. Thus: traffic monitoring cameras, incident detection cameras, traffic counting systems and variable message signs were installed at km 64+000 and at km 105+300 and weather station and road sensors to determine the level of the road surface area were installed at km 111.	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA **Structure implementing the project**: Directorate for the Development of Motorways and Expressways Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Mihai Ştefan – **project leader** 0212643211; 0212643212 **Participants in the project**: Mihai Ştefan 0212643211; 0212643212 - **project leader**	**Project No 3**	**Re-commissioning and maintenance services for the Communications and Traffic Monitoring System on Motorway A2** **Bucharest – Lehliu (km 9 + 500 – km 64 + 020)** **Bucharest – Fundulea – acceptance upon the completion of the work 4 June 2004 km 0+000 – km 26+500** **Fundulea –Lehliu – acceptance upon the completion of the work 4 June 2004 km 26+500 – km 55+700**	DDADE HAS NO INFORMATION Only ITS systems have been implemented.
	Project description	Re-commissioning the communications system and supplying electricity to the Telecommunications and Traffic Control System on Motorway A2, section Bucharest-Lehliu and ensuring maintenance of such system.	
	Project objectives	The project objectives are to re-commission the system with a view to obtaining the following information: - traffic data: number of vehicles, vehicle classification, traffic density; - road weather data, visibility; - data on infrastructure: video information; - informing road users through variable message signs;	
	Project duration	Duration of the contract: 12 months with Notice to proceed on 31 August 2010	
	Resources	Funding source: state budget	
	Status	***100% completed***	
	Implementation stages	Not applicable, as it is 100% completed	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Florin Ionescu	**Results obtained / intended**	The Communications and Traffic Monitoring System on Motorway A2, Bucharest-Lehliu encompasses a very large number of electronic equipment sets powered by own electrical cables and interconnected through the optical fibre cables. This monitoring system consists in 6 variable message signs, 102 emergency call telephones, 16 video cameras, road weather stations with sensors at surface level, optical fibre and electricity supply network, computers, servers, software, hard disks etc. SOS telephones (ET-Emergency Telephone) – 54 pcs. Video cameras (TMV-Mobile CCTV Camera) – 13 pcs. Message signs (VMS- Variable Message Sign) – 3 pcs Weather station (WS-Weather Station) – 2 pcs. Counting station (CS-Counting Station) – 4 pcs. Warning signs installed on entry lanes on the motorway. Completion of a Control Centre at km 19+500 where all information sent by the specific system equipment are collected and monitored in real time.	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA **Structure implementing the project**: Directorate for the Development of Motorways and Expressways Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Silvia PIPER – project officer **Participants in the project:** Alexandru STRATIA – DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Silvia PIPER – project officer	**Project No 4**	**Arad Bypass Construction**	ITS equipment is installed. The equipment is to be integrated in the monitoring centre at Pecica.
	Project description	Completion of Arad bypass road. Intelligent transport systems shall be deployed every 2 km within the execution of the bypass road project.	
	Project objectives	The ITS component aims to carry out: Video camera surveillance systems – CCTV; Telephone network for emergency calls – SOS; Display systems with variable message signs – VMS; Traffic control system - TCS; Weather stations – MS; Radio system – VHS	
	Project duration	Date of signature: 13 March 2009 with completion deadline: 1st semester 2012	
	Resources	EIB; CF; GUV.RO	
	Status	Final acceptance with comments from the Beneficiary: 28 July 2017	
	Implementation stages	-	
	Results obtained / intended	The aim is to install sets of sensors and data collection and processing controllers and to design communications interfaces to establish the connection and synchronisation with the central database; Installing weather stations and ice sensors at running surface level; Installing SOS telephones; Improving the traffic flow; Improving the traffic capacity in order to prevent the traffic congestions; Reducing the number of severe accidents and the number of deaths by 60%.	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA **Structure implementing the project**: Directorate for the Development of Motorways and Expressways	**Project No 5**	**Construction of Timişoara-Arad Motorway**	The contract only provides for STI infrastructure and SOS platforms. ITS equipment is to be implemented under another contract. ITS equipment will be integrated in the monitoring centre
	Project description	Completion of Timişoara-Arad Motorway. Intelligent transport systems shall be deployed every 2 km within the motorway execution project.	
	Project objectives	The ITS component aims to carry out: Video camera surveillance systems – CCTV; Telephone network for emergency calls – SOS; Display systems with variable message signs – VMS; Traffic control system - TCS; Weather stations – MS; Radio system – VHS.	
	Project duration	Date of signature: 11 December 2008 with completion deadline: 1st semester 2012	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Silvia PIPER – project officer **Participants in the project:** Alexandru STRATIA – DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Silvia PIPER – project officer	**Resources**	EIB; CF; GUV.RO	at Pecica.
	Status	The contract only provides for STI infrastructure and SOS platforms. ITS equipment is to be implemented under another contract. ITS equipment will be integrated in the monitoring centre at Pecica.	
	Implementation stages	The system is under implementation	
	Results obtained / intended	The aim is to install sets of sensors and data collection and processing controllers and to design communications interfaces to establish the connection and synchronisation with the central database; Installing weather stations and ice sensors at running surface level; Installing SOS telephones; Improving the traffic flow; Improving the traffic capacity in order to prevent the traffic congestions; Reducing the number of severe accidents and the number of deaths by 60%.	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Ştefan IONITA **Structure implementing the project**: Commercial Directorate Service Bogdan Radulescu E-mail: c.mobile@andnet.ro **Participants in the project:** Tica Victor Zamfirescu Dan	**Project No 6**	**Road traffic monitoring using traffic meters**	
	Project description	Determining the road sectors characterised by the same traffic with a view to installing the sensors in the road surface in order to determine the traffic intensity and characteristics using the electronic module.	
	Project objectives	Collecting traffic data in order to determine as accurately as possible the traffic characteristics, intensity and composition, total tonnes of vehicle per axles, travelling speed and number of vehicles per categories through automatic recording with traffic equipment.	
	Project duration	Permanent; Start date: year 2000	
	Resources	Budget allowances	
	Status	*In operation*	
	Implementation stages	-	
	Results obtained / intended	The traffic data are collected through television broadcast, to CESTRIN Bucharest for processing with a view to obtaining the ADA (annual daily average) and MDA (monthly daily average).	
	Beneficiary	CNAIR – DRDP 1-7	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Narcis Ştefan NEAGA **Structure implementing the project:** C.N.A.I.R. Commercial Directorate Service Bogdan Radulescu E-mail:c.mobile@andnet.ro **Participants in the project:** Bogdan Radulescu	**Project No 7**	**Fixed and mobile installations for the verification of the weight per axle of freight transport vehicles**	
	Project description	Verification by weighing the freight transport vehicles with a view to determining own weight per axle	
	Project objectives	Carrying out freight transports within the limits and the conditions provided for in the relevant legislation	
	Project duration	Start date: year 2000, in accordance with the monthly control programmes;	
	Resources	Budget allowances	
	Status	*In operation*	
	Implementation stages	The system is in operation	
	Results obtained / intended	Database resulted from weighing, which is sent to CESTRIN at the end of each month.	
	Beneficiary	CNAIR DRDP Craiova	
CNADNR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti,	**Project No 8**	**Minimum requirements for ITS services for Corridor IV**	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro Director General Narcis Ştefan NEAGA **Structure implementing the project:** Biroul Implementare Sisteme Inteligente de Transport, Direcţia Întreţinere şi Siguranţa Circulaţiei (Intelligent Transport System Implementation Office, Directorate for Traffic Maintenance and Safety) Cristian Andrei, Traffic Maintenance and Safety Director 0212643270; cristian.andrei@andnet.ro Ecaterina Munteanu, Traffic Maintenance and Safety Deputy Director 0212643428; ecaterina.munteanu@andnet.ro **Participants in the project:** Cristian Andrei – project leader Ecaterina Munteanu Germina Ristea Angela Mihalcea Mirabela Zavera	**Project description**	The study provides an analysis of the current status of Romanian Intelligent Transport Systems, of the European and national regulations and policies, of the technical specifications used by the projects in progress and of the sets of ITS services recommended by EasyWay.	The outcome of the study was used as the basis for drawing up the specifications for ITS systems on corridor IV
	Project objectives	The objectives of the study were to determine the reference services for the Romanian TEN-T network such as: ITS information services ITS traffic management services ITS services for freight transport and logistics Motorway access toll and control services Vehicle weight and gauge monitoring and control services Infrastructure safety and security monitoring services Set of minimum services for the 2010-2018 period	
	Project duration	March 2010	
	Resources	State budget	
	Status	***Completed***	
	Implementation stages	-	
	Results obtained / intended	The Minimum ITS Service Requirements for Corridor IV were drawn up and were approved within the Technical – Economic Council of CNADNR on 16 March 2010. Such requirements may be also used when preparing technical specifications for motorways under construction and which included the ITS component.	
	Beneficiary	CNADNR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project**: Directorate for the Development of Motorways and Expressways Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Nicoleta TUTUIANU – Head of UIP 6 Project officer Iuliana MARICUT Nicoleta TUTUIANU – project officer	**Project No 9**	**Design and execution of Orăştie-Sibiu Motorway Lot 1: km 0+000 - km 24+110**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 7 June 2011; Completion deadline: 10 April 2014, according to contract; acceptance upon the completion of the work: 17 December 2013	
	Resources	85% CF + 15% GVR	
	Status	completed	
	Implementation stages	Under a guarantee	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Nicoleta TUTUIANU – Head of UIP 6 Project officer Iuliana MARICUT	**Project No 10**	**Design and execution of Orăştie-Sibiu Motorway Lot 2: km 24+110 – km 43+855**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 7 June 2011 Completion deadline: 10 April 2014, according to contract Acceptance upon the completion of the work: 17 December 2013	
	Resources	85% CF + 15% GVR	
	Status	completed	
	Implementation stages	Under a guarantee	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and road vignette monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Costin Nisipeanu – project officer	**Project No 11**	**Design and execution of Orăştie-Sibiu Motorway Lot 3: km 43+855 - km 65+965**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 20 May 2011 Estimated completion deadline: November 2014	
	Resources	85% CF + 15% GVR	
	Status	Work contract terminated on 27 January 2016. The remaining work will be executed under another contract to be awarded after the completion of a technical expertise for which the procurement procedure is in progress.	
	Implementation stages	Terminated contract	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
		Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Grigore Chis – Head of UIP 3	**Project No 12**	**Design and execution of Orăştie-Sibiu Motorway Lot 4: km 65+965 – km 82+070**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 7 June 2011 Completion deadline: 30/04/2014, according to contract Acceptance upon the completion of the work: 15 May 2014	
	Resources	85% CF + 15% GVR	
	Status	In the process of completion	
	Implementation stages	Under a guarantee	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Monica VOICU – project officer	**Project No 13**	**Design and execution of Lugoj – Deva Motorway Lot 1: km 0+000 – km 27+400**	No technological tests were carried out (contract under warranty). The contract provides only for STI infrastructure.
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 20 May 2011 Completion deadline: 10/04/2013, according to contract Acceptance upon the completion of the work: 19 December 2013	
	Resources	85% CF + 15% GVR	
	Status	In the process of completion. Technological tests were not carried out. The contract provides only for STI infrastructure.	
	Implementation stages	Under a guarantee	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
		- Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Andreea Diaconescu – project officer	**Project No 14**	**Design and execution of Lugoj – Deva Motorway Lot 2: km 27+620 – km 56+220**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 18 October 2013 Completion deadline according to contract 27 May 2016	
	Resources	85% CF + 15% GVR 75% LIOP + 25% GVR	
	Status	A-C sections physical status 98,72% D section physical status 92,02%	
	Implementation stages	Under warranty – Section A-C km 27+620 – km 43+060 and Margina Junction Road In execution – Section D km 43+060 – km 47+090 Currently, Section E km 47+090 - 56+220 is	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5	**Project No 15**	**Design and execution of Lugoj – Deva Motorway Lot 3: km 56+220 – km 77+361**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 21 October 2013 Completion deadline according to contract 27 May 2016	
	Resources	85% CF + 15% GVR 75% LIOP + 25% GVR	
	Status	67%	
	Implementation stages	Under execution	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Silvia DANCIU – project officer	**Results obtained / intended**	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project:** Directorate for the Development of Motorways and Expressways Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Gabriel LICA – project officer	**Project No 16**	**Design and execution of Lugoj – Deva Motorway Lot 4: km 77+361 – km 99+500**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 29 July 2013 Completion deadline according to contract 27 May 2016	
	Resources	85% CF + 15% GVR 75% LIOP + 25% GVR	
	Status	29.17%	
	Implementation stages	Under execution	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project:** Directorate for the Development of Motorways and Expressways Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS	**Project No 17**	**Design and execution of Nădlac – Arad Motorway connecting road, Lot 1: km 0+000 – km 22+218**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 19 December 2013 Completion deadline according to contract 22/01/2015 Acceptance on completion of the work carried out on 3 March 2015	
	Resources	85% CF + 15% GVR	
	Status	Acceptance on completion of the work carried out on 3 March 2015	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Nicoleta TUTUIANU – Head of UIP 6	**Implementation stages**	Operating, under a guarantee	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project:** Directorate for the Development of Motorways and Expressways Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Adi RADULESCU – Head of UIP 1 Nicoleta TUTUIANU – project officer	**Project No 18**	**'Construction of Deva-Orăștie bypass at motorway standard'**	
	Project description	The system includes 4 F40 HDPE tubes, 'small' shooting cameras in length at maximum 500 m and 'medium' shooting cameras on both sides of the motorway for SOS pairs that will be located at intervals of approximately 2 km.	
	Project objectives	Secure the channelling for ITS equipment	
	Project duration	Completed	
	Resources	ISPA funds	
	Status	Operating motorway – ITS infrastructure completed	
	Implementation stages	-	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS	**Project No 19**	**Design and execution of Nădlac – Arad Motorway connecting road, Lot 2: km 22+218 – km 33+882**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	-	
	Resources	85% CF + 15% GVR	
	Status	Acceptance on completion of the work carried out on 3 March 2015	
	Implementation stages	Operating, under a guarantee	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Nicoleta TUTUIANU – Head of UIP 6	**Results obtained / intended**	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Alina Grigore – project officer	**Project No 20**	**Design and execution of Timişoara - Lugoj Motorway LOT 1: km 44+500 – km 54+000**	
	Project description	Construction of Timişoara - Lugoj Motorway LOT 1 km 44+500 – km 54+000. Intelligent transport systems shall be deployed every 2 km within the motorway execution project.	
	Project objectives	The STI component aims to: - monitor the traffic with fixed and mobile cameras; - detect incidents; - transmit data in real time; - measure weather conditions, visibility, precipitation; - install SOS phones on both sides - concentration points with security system	
	Project duration	Date of signature: 20 May 2011 - Completion deadline: April 2013	
	Resources	85% NF; 15% GUV.RO	
	Status	***Completed***	
	Implementation stages	-	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - vehicle detectors - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system (ANPR) – composed of specialised video cameras for automatic recognition of license plates; - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions Reducing the number of severe accidents and the number of deaths by 60%.	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the**	**Project No 21**	**Design and execution of Timişoara - Lugoj Motorway LOT 2: km 54+000 – km 79+625**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Development of Motorways and Expressways Sorin Scarlat – DEPUTY DIRECTOR, DIRECTORATE FOR THE DEVELOPMENT OF MOTORWAYS AND EXPRESWAYS Mihai Divlan – Head of UIP 5 Andreea Diaconescu – project officer	**Project duration**	Contract signing date: 4 December 2013 Completion deadline according to contract 10/07/2016	
	Resources	85% CF + 15% GVR 75% LIOP + 25% GVR	
	Status	Completed	
	Implementation stages		
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Iuliana ENE – project officer	**Project No 22**	**Design and execution of the bypass road of the city of Constanța: km 0+000 – km 21+800**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 11 September 2008 Completion deadline: 04/08/2013, according to contract	
	Resources	EBRD/CF/GVR	
	Status	completed 19%	
	Implementation stages	under execution – suspended works	
	Results obtained / intended	The aim is to install: - Emergency telephone network, - Operation and maintenance communication system; - Traffic centralisation system; - Police and security communications system; - Traffic measurement system; - Weather information collection and communication stations. Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the**	**Project No 23**	**Design and execution of Medgidia - Constanța Motorway: km 170+750 – km 201+570**	The ITS system connected to Valea Dacilor centre
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Development of Motorways and Expressways Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Alexandru POPESCU – project officer	**Project duration**	Contract signing date: 5 March 2009 Acceptance upon the completion of the work: 28 November 2012	
	Resources	EIB/CF/GVR	
	Status	In operation	
	Implementation stages	Final acceptance with comments from the Beneficiary: 8 August 2015, comments addressed: 22 May 2017	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Adi RADULESCU – Head of UIP 1 Alexandru POPESCU – project officer	**Project No 24**	**Design and execution of Cernavodă – Medgidia Motorway: km 151+300 – km 171+791**	The ITS system connected to Valea Dacilor centre
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 21 September 2011 Completion deadline: 04/01/2013, according to contract Acceptance upon the completion of the work: 28 November 2012	
	Resources	EIB/CF/GVR	
	Status	In operation	
	Implementation stages	Final acceptance with comments from the Beneficiary: 28 June 2015, comments addressed: 3 August 2017	
	Results obtained / intended	The aim is to install: - Traffic measurement subsystem – VEH - System for the measurement of weather conditions; - Video surveillance subsystems – CCTV - Automatic number plate recognition and rovigneta monitoring / penalisation system – ANPR - Telephone network for emergency calls – SOS - Concentration points – CONC; - Security system – IFRA Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro	**Project No 25**	**Traffic and traffic conditions monitoring and information system on A2 Motorway, Bucureşti – Cernavodă**	Project 100% ITS. The public procurement procedure was cancelled in June
	Project description	Under the Intelligent Transport Systems implementation project, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced. The system will be connected to the DRDP centre in Bucharest	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
<u>Structure implementing the project:</u> General Directorate for Road Infrastructure Monitoring and Maintenance / Directorate of Road Safety and Traffic Management Cristian ANDREI – DGMIIR Director; Aurel BALAJEL – DSMTR Director Germina RISTEA – Head of UIP ITS, Mirabela Florina PENCEA; Virgil IONITA	**Project objectives**	Under the Intelligent Transport Systems implementation project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	2014.
	Project duration	estimated 6 months from the signing the contract	
	Resources	20% through the TEN-T program, 80% from the State Budget	
	Status	reviewing documentation in order to re-launch the public procurement procedure	
	Implementation stages	the public procurement procedure will be resumed by the end of 2014 / the project has not been implemented	
	Results obtained / intended	Equipping the București-Cernavodă Motorway section with: - Traffic metering and classification subsystem; - Subsystem for monitoring weather and road conditions; - Information subsystem with variable message boards; - Weighing in motion subsystem; - Automatic number plate recognition subsystem; - Video monitoring subsystem (CCTV/PTZ/AID) - Security subsystem; - Concentration points; - Communication subsystem. All equipment will be connected and monitored from the DRDP Centre in Bucharest. The ITS equipment already installed on A2, București - Cernavodă Motorway will also be integrated into the same system	
	Beneficiary	CNADNR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, București, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **<u>Structure implementing the project</u>: Directorate for the Development of Motorways and Expressways** Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Catalin AFLAT – Head of UIP 4 Ciprian CAMBREA – project officer	**Project No 26**	**Design and execution of Sebeș - Turda Motorway, Lot 3: km 41+250 – km 53+700**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 23 April 2014 Completion deadline according to contract 20/03/2016 Estimated December 2017	
	Resources	85% CF + 15% GVR	
	Status	Under execution	
	Implementation stages	-	
	Results obtained / intended	The aim is to install : - Traffic Metering and Classification Subsystem (CS) - Subsystem for monitoring weather and road conditions (WS); - Information subsystem with variable message boards (VMS) - Weighing in motion subsystem (WIM); - Automatic number plate recognition subsystem (ANPR); - Subsystem for speed measurement in order to sanction the exceeding of the speed limit (SE); - Video monitoring subsystem (CCTV/PTZ/AID) - Security subsystem (SEC); - Concentration points (CP); - Communication subsystem (COM); Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Catalin AFLAT – Head of UIP 4 Marian BANITA – project officer	**Project No 27**	**Design and execution of Sebeş - Turda Motorway, Lot 4: km 53+700 – km 70+000**	
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Within the project to complete the motorway, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 23 April 2014 Completion deadline according to contract 20/03/2016	
	Resources	85% CF + 15% GVR	
	Status	Under execution	
	Implementation stages	-	
	Results obtained / intended	The aim is to install : - Traffic Metering and Classification Subsystem (CS) - Subsystem for monitoring weather and road conditions (WS); - Information subsystem with variable message boards (VMS) - Weighing in motion subsystem (WIM); - Automatic number plate recognition subsystem (ANPR); - Subsystem for speed measurement in order to sanction the exceeding of the speed limit (SE); - Video monitoring subsystem (CCTV/PTZ/AID) - Security subsystem (SEC); - Concentration points (CP); - Communication subsystem (COM); Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNADR SA / CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: General Directorate for Road Infrastructure Monitoring and Maintenance / Directorate of Road Safety and Traffic Management // General Directorate for Operating the Road Infrastructure / Department for the Development of Internal Applications** Cristian ANDREI – DGMIIR Director; Aurel BALAJEL – DSMTR Director Germina RISTEA – Head of UIP ITS, Mirabela Florina PENCEA; Virgil IONITA	**Project No 28**	**ITS Development Strategy and National ITS Action Plan for Romania's National Road Network for 2014-2020**	Project 100% ITS.
	Project description	The project aims at defining ITS objectives on the network of national roads and motorways in Romania and connections with major metropolitan areas and other modes of transport.	
	Project objectives	Obtaining traffic monitoring services, road infrastructure, weather conditions, information services for traffic participants, information services on other modes of transport.	
	Project duration		
	Resources	25% GVR 75% LIOP	
	Status	Contract implemented.	
	Implementation stages	100% completed	
	Results obtained / intended	A common strategic framework and a clear action plan for the deployment of Intelligent Transport Systems, for the efficient development of Intelligent Transport Systems on public roads in Romania and for interfacing with major metropolitan areas.	
Sorin Ivanciu -Sef SDAI; Mirabela Florina PENCEA; Nicolae Florian CISMARU; Cristian VLADUT; Gherghina RISTEA	**Beneficiary**	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.96,	**Project No 29**	**Design and execution of 2A Ogra-Câmpia Turzii Motorway, Lot 1: km 0+000 – km 3+600**	New project
	Project description	In the design and execution of the motorway, PC systems (including INFRA), inductive loops, VEH, AID, VMS will be introduced	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Grigore Chis – Head of UIP 3	**Project objectives**	Under the motorway project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 16 February 2015 Completion deadline according to contract 04/09/2017	
	Resources	75% CF + 25% GVR	
	Status	Under design	
	Implementation stages	-	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.96, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Grigore Chis – Head of UIP 3	**Project No 30**	**Design and execution of 2A Ogra-Câmpia Turzii Motorway, Lot 2: km 3+600 – km 21+500**	New project
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Under the motorway project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 6 April 2016 Completion deadline according to contract 04/09/2017	
	Resources	75% CF + 25% GVR	
	Status	Under design	
	Implementation stages	-	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.96, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Emil Rusoiu – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Grigore Chis – Head of UIP 3	**Project No 31**	**Design and execution of 2A Ogra-Câmpia Turzii Motorway, Lot 3: km 21+500 – km 37+191**	New project
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Under the motorway project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 19 February /2015 Completion deadline according to contract 04/09/2017	
	Resources	75% CF + 25% GVR	
	Status	Under design	
	Implementation stages	-	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the**	**Project No 32**	**Design and execution of Sebeş-Turda Motorway, Lot 1: km 0+000 – km 17+000**	New project
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Under the motorway project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Development of Motorways and Expressways Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Catalin AFLAT – Head of UIP 4 Adrian CIOBANU – project officer	**Project duration**	Contract signing date: 14 November 2014 Estimated deadline: November 2019 Completion deadline according to contract 02/11/2016	
	Resources	85% CF + 15% GVR	
	Status	Under implementation	
	Implementation stages	-	
	Results obtained / intended	The aim is to install : - Traffic Metering and Classification Subsystem (CS) - Subsystem for monitoring weather and road conditions (WS); - Information subsystem with variable message boards (VMS) - Weighing in motion subsystem (WIM); - Automatic number plate recognition subsystem (ANPR); - Subsystem for speed measurement in order to sanction the exceeding of the speed limit (SE); - Video monitoring subsystem (CCTV/PTZ/AID) - Security subsystem (SEC); - Concentration points (CP); - Communication subsystem (COM); Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Catalin AFLAT – Head of UIP 4 Raluca BURDUSEL – project officer	**Project No 33**	**Design and execution of Sebeş-Turda Motorway, Lot 2: km 17+000 – km 41+250**	New project
	Project description	In the design and execution of the motorway, WIM systems, traffic measurement system, weather stations, information system (VMS, Monitoring Centre) and emergency telephone network will be introduced.	
	Project objectives	Under the motorway project, conditions will be created for monitoring traffic and road infrastructure services, weather conditions, information services for traffic participants.	
	Project duration	Contract signing date: 14 November 2014 Completion deadline according to contract 14/10/2016 Estimated deadline: October 2018	
	Resources	85% CF + 15% GVR	
	Status	Under implementation	
	Implementation stages	-	
	Results obtained / intended	The aim is to install : - Traffic Metering and Classification Subsystem (CS) - Subsystem for monitoring weather and road conditions (WS); - Information subsystem with variable message boards (VMS) - Weighing in motion subsystem (WIM); - Automatic number plate recognition subsystem (ANPR); - Subsystem for speed measurement in order to sanction the exceeding of the speed limit (SE); - Video monitoring subsystem (CCTV/PTZ/AID) - Security subsystem (SEC); - Concentration points (CP); - Communication subsystem (COM); Improving the traffic flow Increasing traffic capacity in order to prevent the occurrence of traffic congestions	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Nicoleta TUTUIANU – Head of UIP 6	**Project No 34**	**Design and execution of Tg. Mureş - Ogra Motorway, Lot 1 Tg. Mureş - Ungheni + Connecting Road**	New project
	Project description	Building the infrastructure necessary for the implementation of ITS	
	Project objectives	Building the infrastructure necessary for the implementation of ITS	
	Project duration		
	Resources	LIOP	
	Status	Project in retendering	
	Implementation stages	-	
	Results obtained / intended	Building the infrastructure necessary for the implementation of ITS	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Directorate for the Development of Motorways and Expressways** Sorin SCARLAT – DEPUTY DIRECTOR, Directorate for the Development of Motorways and Expressways Nicoleta TUTUIANU – Head of UIP 6	**Project No 35**	**Design and execution of Tg. Mureş - Ogra Motorway, Lot 2 Ungheni - Ogra**	New project
	Project description	Building the infrastructure necessary for the implementation of ITS	
	Project objectives	Building the infrastructure necessary for the implementation of ITS	
	Project duration		
	Resources	LIOP	
	Status	Project under execution	
	Implementation stages	-	
	Results obtained / intended	Building the infrastructure necessary for the implementation of ITS	
	Beneficiary	CNAIR SA	
CNAIR SA (national authority) Address: B-dul Dinicu Golescu, nr. 38, Sector 1, Bucureşti, 010873, Tel.: (+4 021) 264.32.00, Fax: (+4 021) 312.09.84, E-mail: office@andnet.ro **Structure implementing the project: Centre for Technical Road Studies and Computer Science** Bogdan TUDOR – CESTRIN DIRECTOR EXECUTIVE Radu Daniel MILEA – MIDAI Section Head; Marian PETRISOR – ARLI Section Head; Ştefan BARBU – AGST Section Head; Mircea SARATEANU	**Project No 36**	**Carrying out and updating the road network infrastructure (national roads and highways) in Romania in geospatial format**	New project
	Project description	The project aims at developing a road map in a geospatial format that has a complete database of road characteristics	
	Project objectives	Creating a geospatial roadmap on which traffic safety information and traffic information can be represented	
	Project duration	Permanent; Starting date: June 2016	
	Resources	State Budget 100%	
	Status	65% completed	
	Implementation stages	-	
	Results obtained / intended	It aims at: - creating a vector layer of national roads and motorways in geospatial format - based on the vector layer, completing a database of road and bridge viability information, permanent and temporary restrictions on the network of national roads and motorways - developing computer applications with graphical representation of road safety information and traffic information	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
	Beneficiary	CNAIR SA	
MINISTRY OF TRANSPORT			
Priority Area III (ITS road safety and security applications)			
EARLY WARNING INTELLIGENT SYSTEM FOR ROAD TRANSPORTATION RISKS (2015-RO-TM-0435-W) **Implementer:** Ministry of Transport	**Project (2015-RO-TM-0435-W)**	**EARLY WARNING INTELLIGENT SYSTEM FOR ROAD TRANSPORTATION RISKS**	Other entities involved: National Meteorological Agency, General Inspectorate of Romanian Police, General Inspectorate for Emergency Situations
	Project description	The overall objective of the action is to improve road traffic safety and to reduce its congestion on the Central TEN-T Core Network in Romania by implementing a compatible, accessible and interoperable intelligent transport system. The end result will be a computer platform that will contain integrated (static and dynamic) information which could be used both by authorities involved in road transport management and safety, and by public users with the help of a smartphone application. In order to achieve the overall objective of the action, there are three specific objectives that will be met by carrying out twelve activities under the project. The project was endorsed and approved by the Innovation and Networks Executive Agency – Connecting Europe Facility (CEF).	
	Project objectives	The first specific objective is to contribute to the accessibility of interoperable road and traffic-related data across the EU by setting up a single access point. The second specific objective is to help reduce the number of accidents, transport times and fuel consumption on the TEN-T CORE network by providing real-time traffic-related traffic information services for users. These services will cover information on a wide range of risks and will be easily accessible to the general public using various devices, including smartphones, tablets and laptops. The third specific objective is to inform users and service providers of the results of this action. This objective will be achieved by creating and implementing an information and publicity campaign.	
	Project duration	24 months: 1 October 2016 to 30 September 2018	
	Resources	Total project value: EUR 1 407 960 of which EUR 1 188 266 – non-repayable external funding (85%), EUR 209 694 – state budget (15%) and EUR 10 000 – ineligible expenditure. The project team consists of employees of the Ministry of Transport and 3 external experts appointed by order of the Minister of Transport	
	Status	Under implementation	
	Implementation stages	Sizing the risks that can affect road transport Identifying the data sources Preparing the tender documentation and the public tender process Back-end platform and architectural design applications Developing the back-end platform Developing the web application Developing the mobile applications Collecting user feedback Improving the applications based on the collected feed-back Validation and testing Information and publicity campaign	
	Results obtained / intended	Improving road traffic safety by reducing its congestion on the Central TEN-T Core Network in Romania by means of implementing a compatible, accessible and interoperable intelligent transport system.	
	Beneficiary	Ministry of Transport	
THE ROMANIAN SPACE AGENCY (ROSA)			
Priority area IV (Ensuring the connection of the vehicle with the transport infrastructure)			
THE ROMANIAN SPACE AGENCY (ROSA) Address: Str. Mendeleev, nr. 21-25, Sector 1, Bucureşti;	**Project FP7 - GA 247698**	**EGNOS Extension to Eastern Europe – EEGS**	Other international entities involved:

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
010362 Tel.: (+4 021) 316.87.22 Fax: (+4 021) 312.88.04, Web: http://www.rosa.ro **Structure implementing the project**: Romanian Space Agency (ROSA) **Participants in the project**: Vlad Olteanu - vlad.olteanu@rosa.ro Alina Radutu - alina.radutu@rosa.ro Ion Nedelcu - ion.nedelcu@rosa.ro	**Project description**	The EEGS project explored the possibilities of expanding the 99% EGNOS APV-I service in Eastern European countries by improving the ionospheric estimation algorithms that can be implemented in the system or by expanding the ground infrastructure in the region.	GMV Aerospace and Defence SA Spania, GMV Systemas (GSY), Russian Space Systems (RSC), Space Research Center Polonia (SRC), Main Astronomical Observatory of the National Academy of Sciences of Ukraine (MAO), Aena Desarrollo Internacional (AENI), Entidad Pública Empresarial Aeropuertos Españoles Y Navegación Aérea (AENA)
	Project objectives	The objectives of the project are to: - analyse the possibilities of expanding EGNOS services in Eastern Europe - demonstrate by static and road tests the benefits of EGNOS for the Eastern Europe area - promote EDAS, EGNOS and GALILEO in the participating countries - study the interoperability of EGNOS / SDCM - analyse the impact the EGNOS extension to Eastern Europe will have on GALILEO	
	Project duration	1 January 2010 to 31 October 2011	
	Resources	Total project: EUR 1 365 599.31 of which RO 92 147.86 (EUR 60 075 FP7 and EUR 32 072.86 in co-financing)	
	Status	100% completed	
	Implementation stages	-	
	Results obtained / intended	Opportunities and optimal variants for extending the services through infrastructure or improving the processing algorithms in Eastern Europe have been identified, and these results were validated using dedicated receivers and similar EGNOS signals	
	Beneficiary	European GNSS Agency (GSA), European Commission (EC)	
THE ROMANIAN SPACE AGENCY (ROSA) Address: Str. Mendeleev, nr. 21-25, Sector 1, Bucureşti; 010362 Tel.: (+4 021) 316.87.22 Fax: (+4 021) 312.88.04, Web: http://www.rosa.ro **Structure implementing the project**: Romanian Space Agency (ROSA) **Participants in the project**: Vlad Olteanu - vlad.olteanu@rosa.ro Alina Radutu - alina.radutu@rosa.ro Ion Nedelcu - ion.nedelcu@rosa.ro Irina Stefanescu - irina.stefanescu@rosa.ro	**Project FP7 - GA 287179**	**EGNOS Extension to Eastern Europe: Applications) – EEGS2**	Other international entities involved: GMV Aerospace and Defence SA Spania, GMV Systemas (GSY), Russian Space Systems (RSC), Space Research Center Polonia (SRC), Main Astronomical Observatory of the National Academy of Sciences of Ukraine (MAO), Technical University of Moldova (TUM), NDConsut Ltd. UK (NDC), Khnure Ukraine (KHU)
	Project description	The continuation of the EEGS2 project required the development of aviation tests leading to the faster adoption of EGNOS services in the sector by the national entities	
	Project objectives	The objectives of the project are to: - promote EDAS, EGNOS and GALILEO in the participating countries - study the impact of SBAS technology on transport management - show through aviation demonstrations the benefits of EGNOS for the Eastern Europe area	
	Project duration	14 January 2012 to 14 October 2013	
	Resources	Total project: EUR 1 852 408.20 of which RO 85 045.78 (EUR 51 803.99 FP7 funds and EUR 33 241.79 in co-financing)	
	Status	100% completed	
	Implementation stages	-	
	Results obtained / intended	The EEGS2 project has offered primary actors in the field of civil aviation a first experience of using EGNOS in our country, which has enabled a better understanding of the EGNOS performance, benefits and limitations, as well as the preparation for the adoption of EGNOS at national level, as EGNOS services will expand to Eastern Europe	
	Beneficiary	European GNSS Agency (GSA), European Commission (EC)	
THE ROMANIAN SPACE AGENCY (ROSA) Address: Str. Mendeleev, nr. 21-25, Sector 1, Bucureşti; 010362 Tel.: (+4 021) 316.87.22 Fax: (+4 021) 312.88.04, Web: http://www.rosa.ro **Structure implementing the project**: Romanian Space Agency (ROSA)	**Project ESA - EGEP**	**GNSS Environment and user requirements characterisation on Danube River – GEURIW**	Other international entities involved: European Space Agency (ESA)
	Project description	The GEURIW project has identified user needs and the GNSS characterisation of river navigation, making demonstrations in the Romanian Danube sector. The GNSS characterisation consisted of the comparison of the precision parameters obtained using EGNOS versus DGNSS. Considering different operations and environments in which navigation is taking place (lock, navigation in ...	
	Project objectives	The objectives of the project are to: - characterise the GNSS environment and the requirements of inland navigation users, including in terms of rules and regulations in the field.	

Responsible authorities pursuant to Article II(2) of GD No 835/2011	National projects / activities with ITS component	Priority areas with ITS component pursuant to Article 2 of ITS Directive (2010/40/EU)	Observations
Participants in the project: Alina Radutu - alina.radutu@rosa.ro Ion Nedelcu - ion.nedelcu@rosa.ro Violeta Poenaru - violeta.poenaru@rosa.ro		- compare the positioning performance of EGNOS v. DGPS - assess the extent to which the EGNOS system can replace or complement the DGPS system	
	Project duration	November 2015 – April 2017	
	Resources	Total project: EUR 139 176 – ESA funds	
	Status	100% completed	
	Implementation stages	-	
	Results obtained / intended	A study has been carried out on the European bodies involved in the river navigation regulation process, taking into account what is specified for the GNSS characterisation. Measurement campaigns have taken place along the Danube and a comparison of EGNOS performance with DGPS has been made. A multipath model, specific for the river environment, was also created. This model can then be used in other transport sectors, such as road transport	
	Beneficiary	European Space Agency (ESA)	
THE ROMANIAN SPACE AGENCY (ROSA) Address: Str. Mendeleev, nr. 21-25, Sector 1, Bucureşti; 010362 Tel.: (+4 021) 316.87.22 Fax: (+4 021) 312.88.04, Web: http://www.rosa.ro **Structure implementing the project**: Romanian Space Agency (ROSA) **Participants in the project**: Alina Radutu - alina.radutu@rosa.ro Irina Stefanescu - irina.stefanescu@rosa.ro	**Project GSA/GRANT/04/2016**	**Galileo Reference Centre - Member States – GRC-MS**	Other international entities involved: 1. Agenzia Spaziale Italiana, Italy 2. Bundesamt für Kartographie und Geodäsie, Germany 3. Institute Geografico Nacional, Spain 4. Institut national de l'information géographique et forestière. France 5. Deutsches GeoForschunas Zentrum, Germany 6. Geodetic Observatory of Pecny, Czech Republic 7. Istituto Nazionale di Ricerca Metrologica, Italy 8. Joanneum Research, Austria 9. Kártvérket, Norway 10. National Physical Laboratory, UK 11. Real Instituto y Observatorio de la Armada, Spain 12. Agenția Spațială Română, Romania 13. Research Institute of Sweden AB, Sweden 14. Centrum Badań Kosmicznych Polskiei Akademii Nauk, Poland 15. Technische Universität Wien, Austria 16. Universidade da Beira Interior, Portugal 17. Università di Padova, Italy 18. Universidade do Porto, Portugal 19. Università degli Studi di
	Project description	The core mission of the Galileo Reference Centre (GRC) is to carry out the independent monitoring of the Galileo Open Service and of the commercial service on dissemination data performance, as well as to report to stakeholders, which is an element of utmost interest in road, naval, rail, intermodal transport, etc.	
	Project objectives	The objectives of the project are to: - perform independent monitoring of the provision of free services - perform independent monitoring of the provision of commercial services - integrate data and products from European Member States - report performance services to the programme - assist in investigating the performance of the service and its degradation	
	Project duration	2017-2020	
	Resources	ROSA Budget: EUR 129 567.11	
	Status	Under contracting	
	Implementation stages	-	
	Results obtained / intended	Monitoring Galileo OS / CS HA services	
	Beneficiary	GNSS European Agency (GSA)	