



2nd
TRANSPORT CYBERSECURITY
CONFERENCE

Session 1 - Threat landscape: Navigating cybersecurity challenges in transport

The European Railway Network: a critical asset to be protected against cyber threats



Josef Doppelbauer
Executive Director
ERA



European
Commission

#TransportCybersecurity

**TRANSPORT CYBERSECURITY
CONFERENCE**

Railway System of the European Union

- 200 000 km
- 265 billion passenger km (2021)
- 410 billion ton km (2021)

Infrastructure Managers
(IM)

Railway Undertakings
(RU)

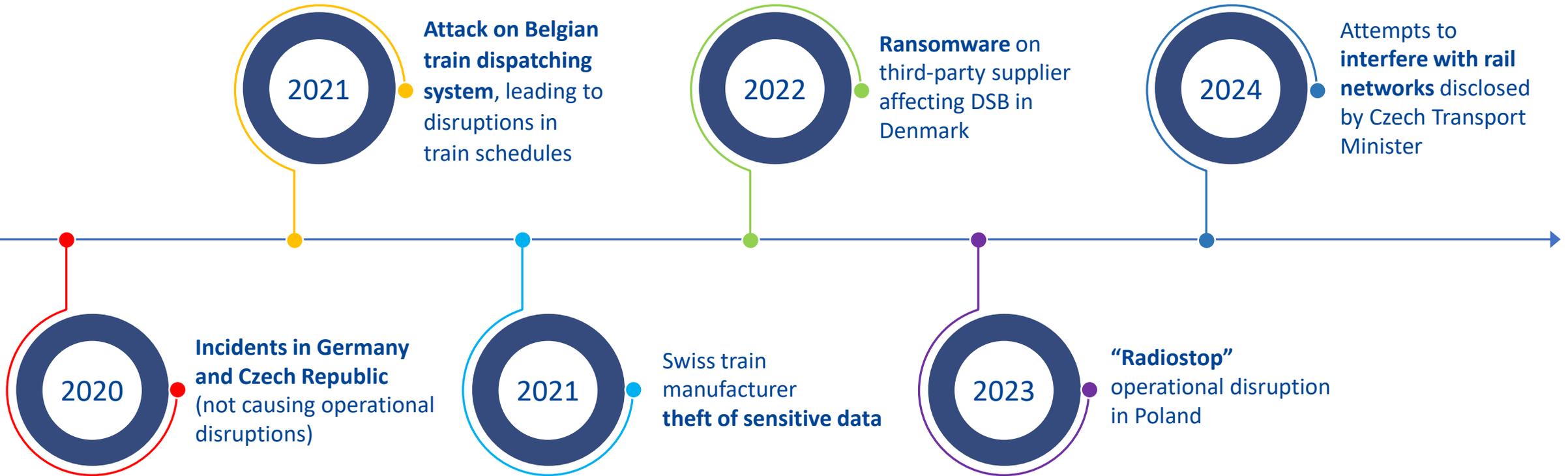
Supply Chain

Both IMs and RUs are in the scope of the NIS Directive as operators of essential services (OES). Both depend on suppliers.

Technical systems in the railway system subject to Cyber Attacks fall in two broad categories:

- IT systems (including ticketing)
- OT (operational technology) systems – implementing also safe control functions, and their communications protocols

The Railway Sector Under Attack?



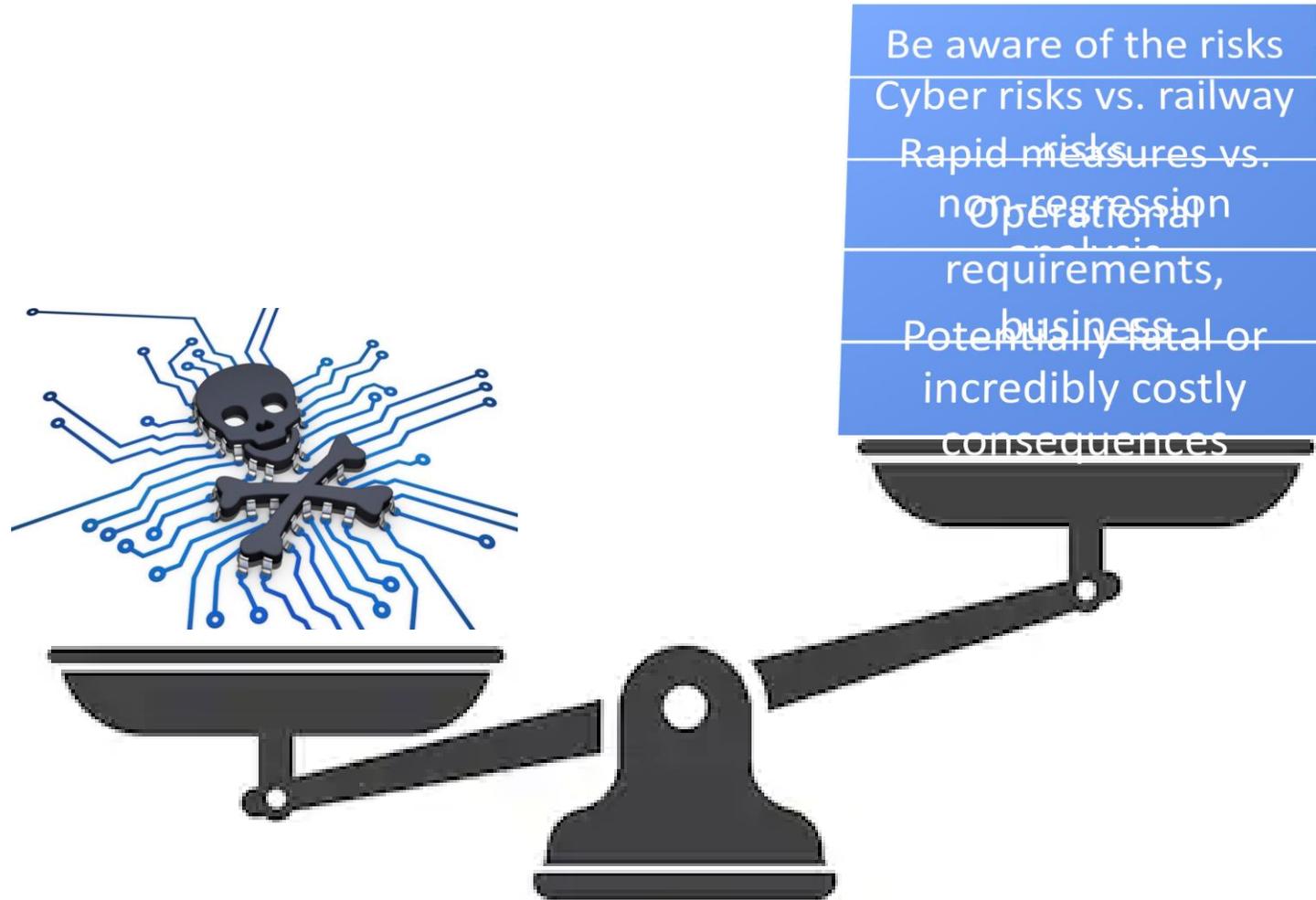
Transformation of the Railway System



Digital technology can be disruptive in all aspects of the transport chain, also helping to integrate transport modes (seamless multi-modal transport)

- ❑ From analog to **digital systems** - physical vs. digital infrastructure; generalization of electronic components and information and communication technologies, drastically increased **connectivity**
- ❑ From proprietary HW to **COTS**; SW: move to **open SW** (IOT devices?); appearance of **cloud-based systems**
- ❑ National systems vs. European integration (**cross-border risks**)
- ❑ Modal siloes vs. **multimodality** – intercommunication of threats
- ❑ Application of **Artificial Intelligence** (AI) techniques

The Need to Balance



What has happened since 2018?

- *More and more incidents are targeting the railway sector: rail stakeholders becoming slowly but surely aware of the cybersecurity threats targeting them*
- *On-going sharing initiatives should be further promoted, and leaders pushed to commit more budget and resources*
- *EU transversal Cybersecurity regulation (NIS2, CRA) is helping as it is overall applicable to railway sector; only few additional requirements related to interoperability need to be covered by TSIs*
- *ERA is closely collaborating with ENISA to ensure adequateness and consistency*
- *Harmonisation is progressing thanks to standardisation effort in IEC, capitalising on CENELEC initial effort: International Standard 63452 will pave the way for a unified methodology about railway cybersecurity risk assessment*
- *Conformity will be the next key topic: compliance of Operators of Essential Services at first, and presumption of conformity for digital products and services then*

Session 1 - Threat landscape: Navigating cybersecurity challenges in transport

Incident reporting and response: developing effective incident response plans for cyber incidents



Paul Bosman

Head of Network Manager
Infrastructure
EUROCONTROL



European
Commission

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TRANSPORT CYBERSECURITY
CONFERENCE

The logo for the 2nd Transport Cybersecurity Conference features a central shield with a keyhole, surrounded by icons of a train, an airplane, and a ship. The text '2nd TRANSPORT CYBERSECURITY CONFERENCE' is prominently displayed in yellow and green, with '2nd' in a large yellow font. Below it, the date and location '2 MAY 2024 - BRUSSELS, BELGIUM' are written in white.

2nd
TRANSPORT CYBERSECURITY
CONFERENCE
2 MAY 2024 - BRUSSELS, BELGIUM

Supporting
European
Aviation



Incident reporting and response:

Developing effective incident response plans for cyber incidents

Paul BOSMAN
Head of ATM Infrastructure Division
EUROCONTROL, Network Manager



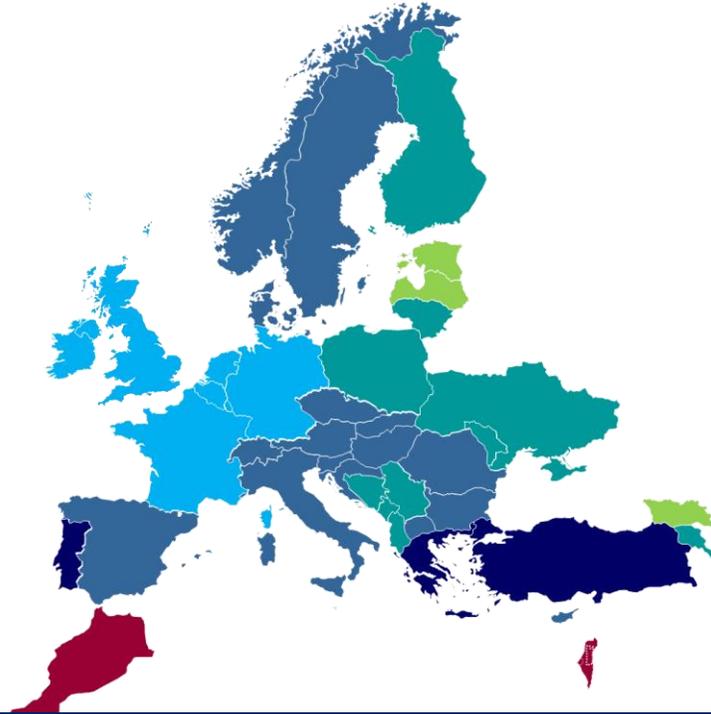
NETWORK
MANAGER



- 1960s
- 1980s
- 1990s
- 2000s
- 2010s

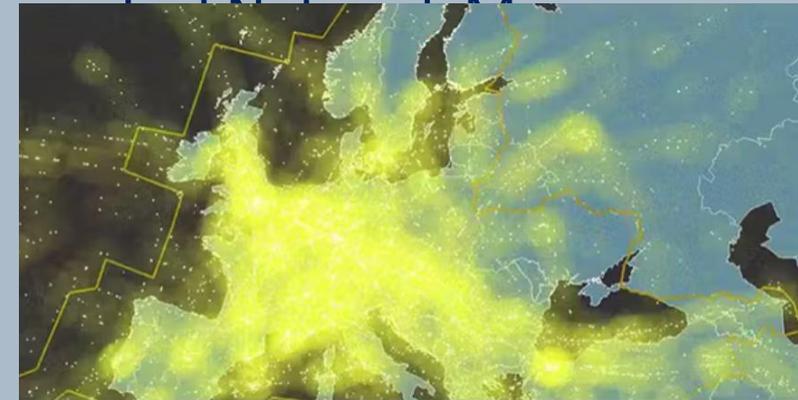
41 Member States & the European Union

2 'Comprehensive Agreement' States: Morocco & Israel



*The designations employed and the presentation of the material on maps in this presentation do not imply the endorsement of any opinion whatsoever on the part of EUROCONTROL, concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

- Manage 11 Million flights/year
- Collect ~9Bn€ of route & terminal charges/year
- Support realisation of Single European Sky



NEW NETWORK TRAFFIC RECORD SET - 37,228 FLIGHTS
Traffic inches higher & higher: Fri 28.06 surpasses Sep 2018 record of flights handled

European Network key challenges: Growth, sustainability & resilience

EUROCONTROL – Cyber intelligence eco-system



Aviation Stakeholders

National CERTs/cyber security centers

EUROPOL

ENISA

NATO

Aviation Supply chain

Cyber intelligence Providers

A-ISAC

EE-ISAC

ER-ISAC

OT-ISAC



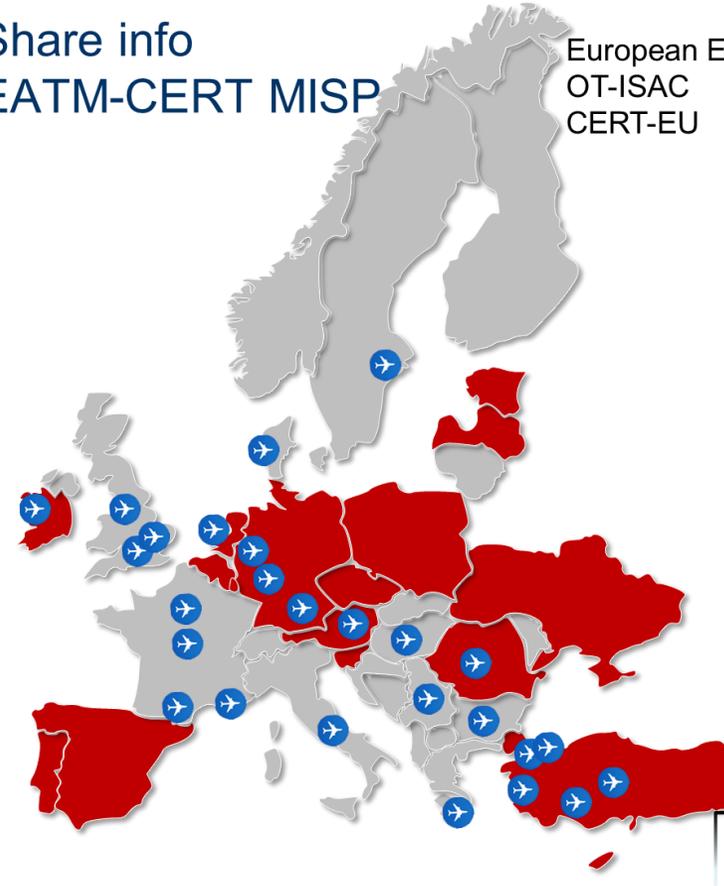
TF-CSIRT
Trusted Introducer

Aviation stakeholders

- Austria – Austrocontol (ANSP)
- Belgium – DHL
- Bulgaria - BULATSA (ANSP)
- Denmark - NAVIAIR (ANSP)
- Finland – Fintraffic (ANSP)
- France - CERT-AIRBUS A/C
- France - Groupe ADP
- France - DSN
- France – Air Caraïbes
- Germany - DLH – Lufthansa Group
- Germany - Frankfurt Airport
- Germany – Munich airport
- Greece - HANSP
- Hungary - HungaroControl (ANSP)
- International - IATA
- International – AMADEUS
- Ireland – Shannon airport
- Ireland – Dublin Airport
- Italy - Aeroporto Di Roma
- Mexico - Aero Mexico Airlines
- Netherlands - Schiphol Airport
- Portugal – SATA (airline)
- Romania - CAA-RO
- Serbia - SMATSA (ANSP)
- Sweden - Swedavia (airports)
- Turkey - CERT-THY (Turkish Airlines)
- Turkey - DHMI (ANSP)
- Turkey - IGA Istanbul Airport
- Turkey - Celebi Ground ops
- Turkey – SGIA Airport
- UK - British Airways
- UK - Heathrow Airport
- UK – Manchester Airport Group



Share info EATM-CERT MISP



European Energy ISAC
OT-ISAC
CERT-EU

NATIONAL CERT/NCSC

- Austria (CERT.at)
- Belgium (CERT.be)
- Cyprus (CSIRT-CY)
- Czech republic (CSIRT.cz)
- Estonia (CERT-EE)
- Germany (CERT-Bund)
- Ireland (CSIRT-IE)
- Israel (CERTGOVIL)
- Latvia (CERT.LV)
- Luxembourg (CIRCL)
- Netherlands (NCSC-NL)
- Poland (CERT.GOV.PL)
- Portugal (CERT-PT)
- Romania (CERT-RO)
- Slovenia (SI-CERT)
- Spain (INCIBE-CERT)
- Spain (CCN-CERT)
- Turkey (TR-CERT)
- Ukraine (CERT-UA)

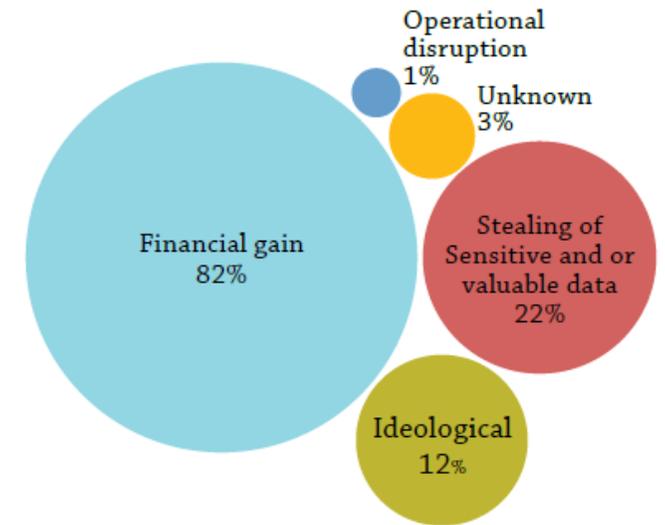
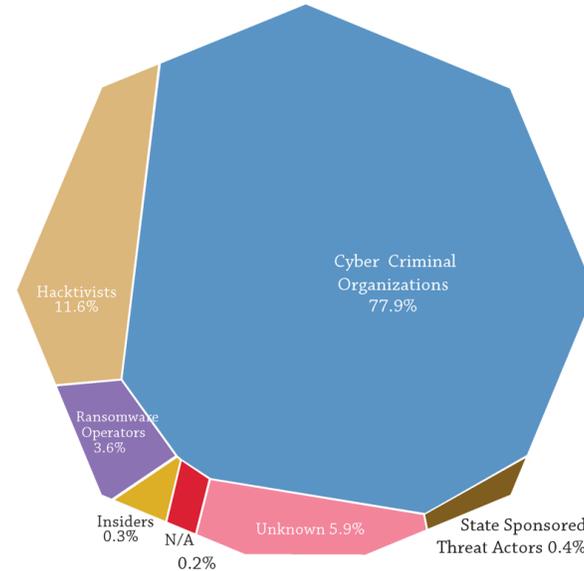


All as strong as the weakest link

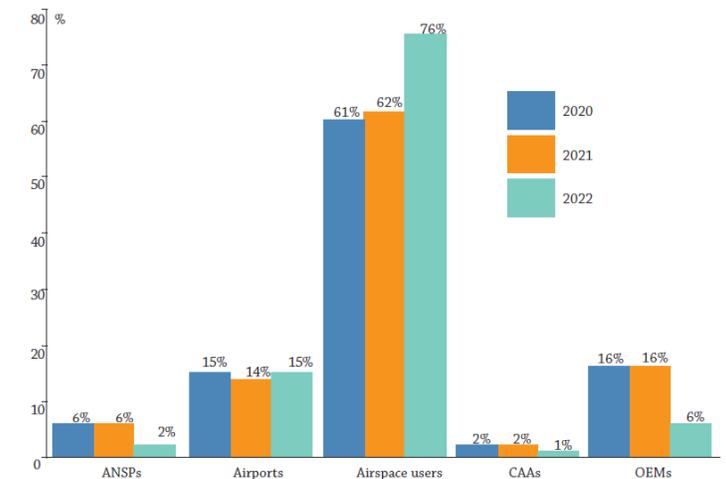
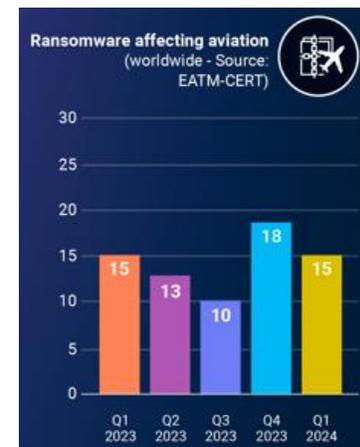
Know the aviation cyber threat landscape

TLP:GREEN

- **Cyber-criminals** Bns€ of losses /year
- **Conflicts (Ukraine + Gaza) :**
 - ~680 **DDoS** on aviation in 2023 (world)
 - 62 DDoS in January 2024 (Europe)
- **Ransomware:** ~2/week
- **Basic threats** there (e.g. phishing)

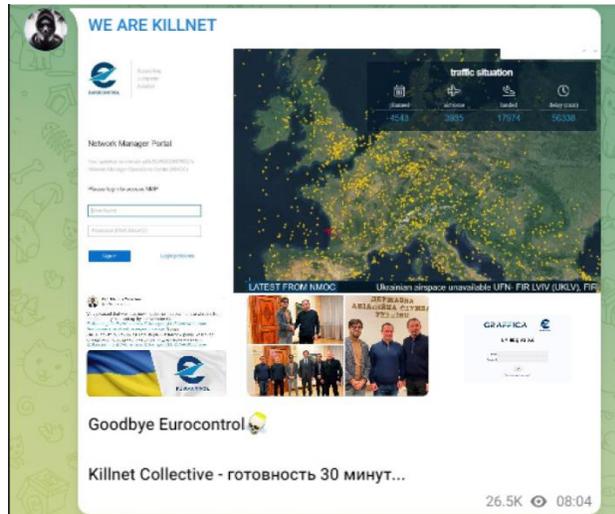


No impact on safety of flights



DDoS attacks on EUROCONTROL

TLP:GREEN



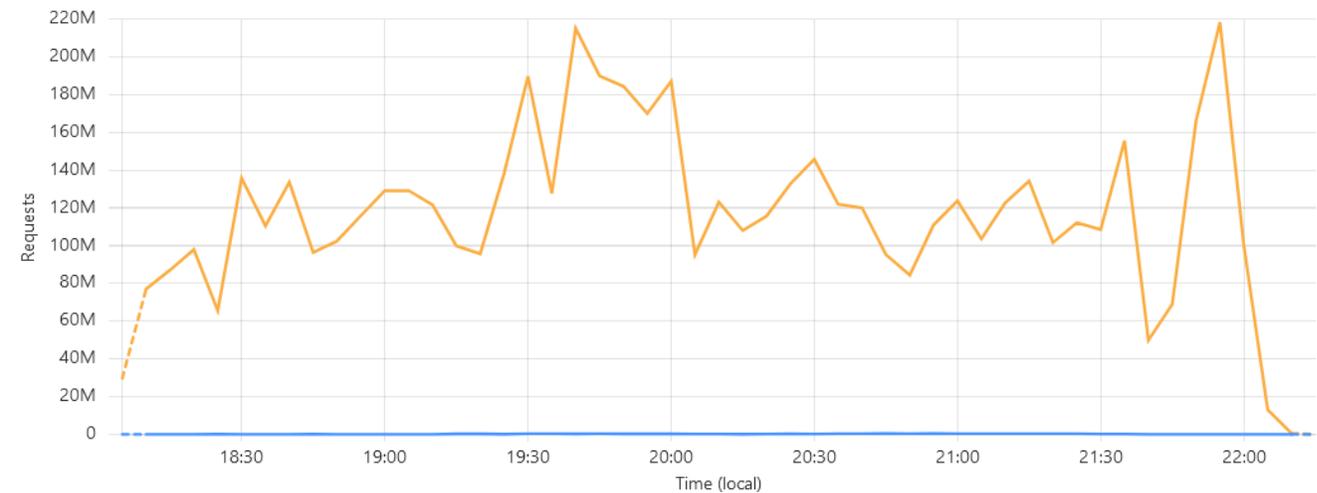
Requests summary

Served by Cache status Country Host HTTP method Path ...

Total
5.87B

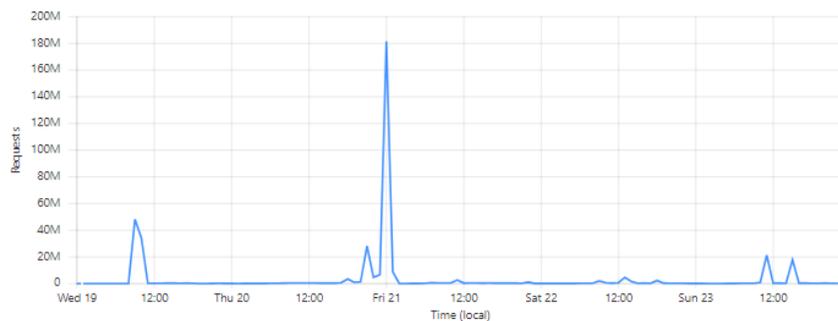
Served by Cloudflare
5.86B

Served by origin
8.98M



DDoS – March 2024

Total requests
403.28M

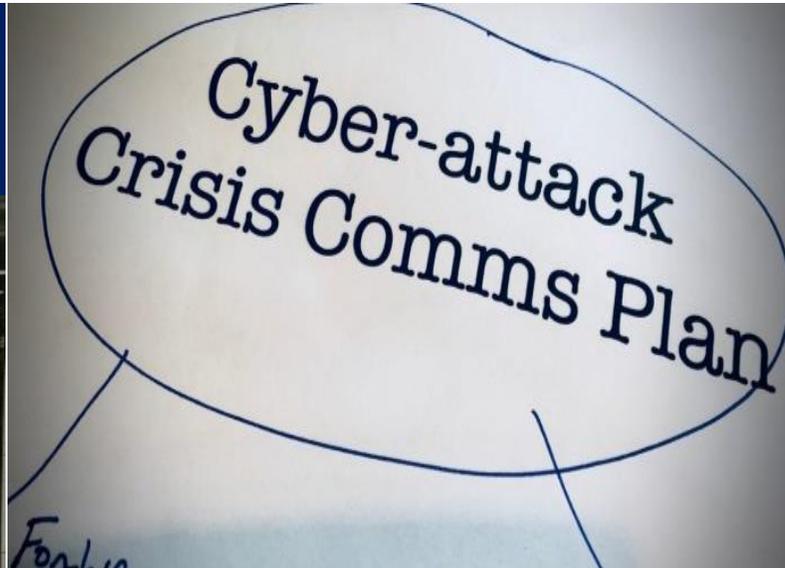


DDoS – April 2023 – 100 hours

No shortage of lessons learned

Get the organisation ready and committed

Senior management commitment



Information Security Management System
Part-IS compliance



Training
Cyber crisis management



Always plan ahead

It wasn't raining when
Noah built the ark

Technical training: Capture The Flag



Session 2 - Understanding the cybersecurity regulatory framework

Management of information security risks impacting aviation safety



Gian Andrea Bandieri

Section Manager

Cybersecurity in Aviation

& Emerging Risks

EASA



European
Commission

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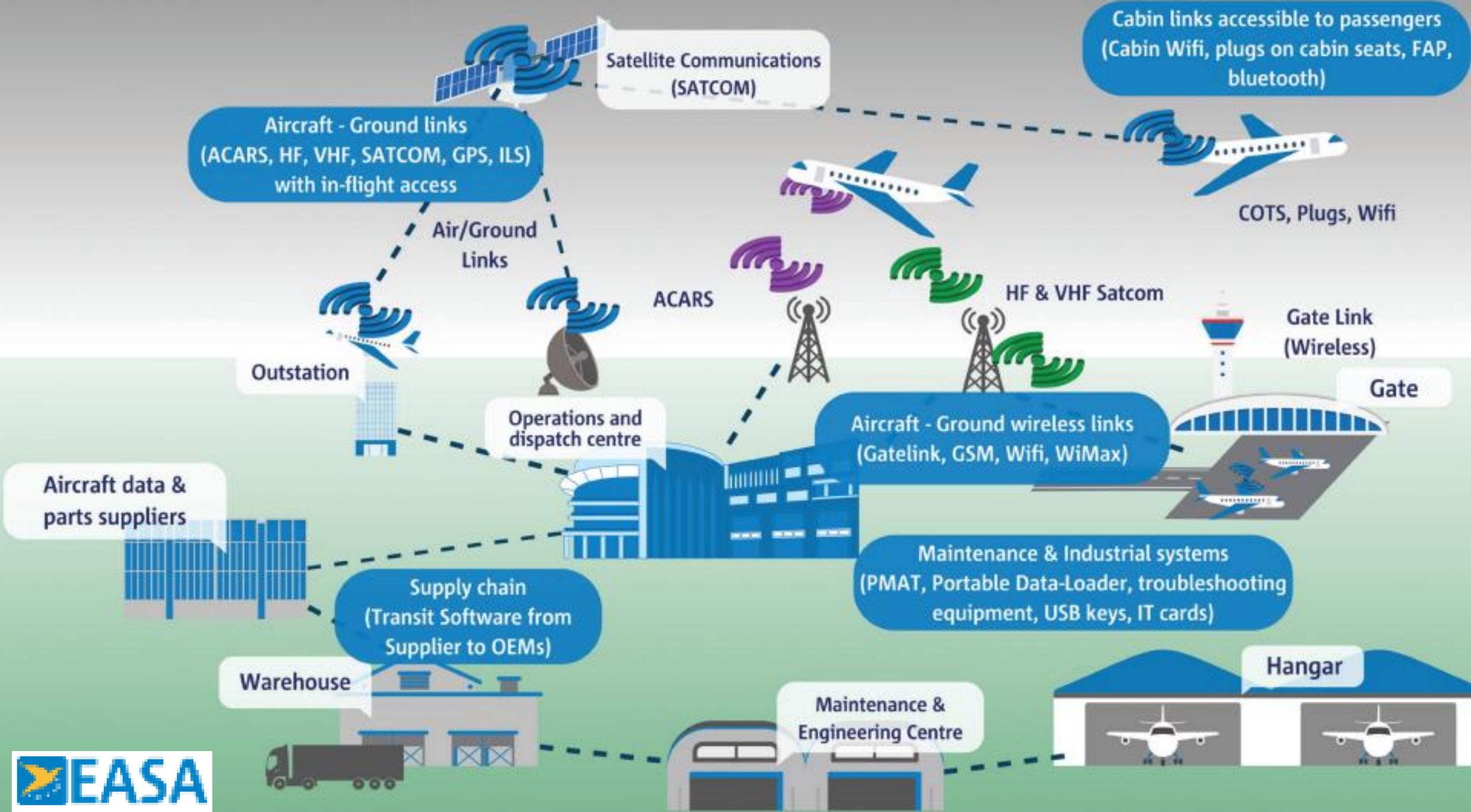
Management of information security risks impacting aviation safety

Gian Andrea Bandieri

*Section Manager Cybersecurity in Aviation and Emerging
Risks*

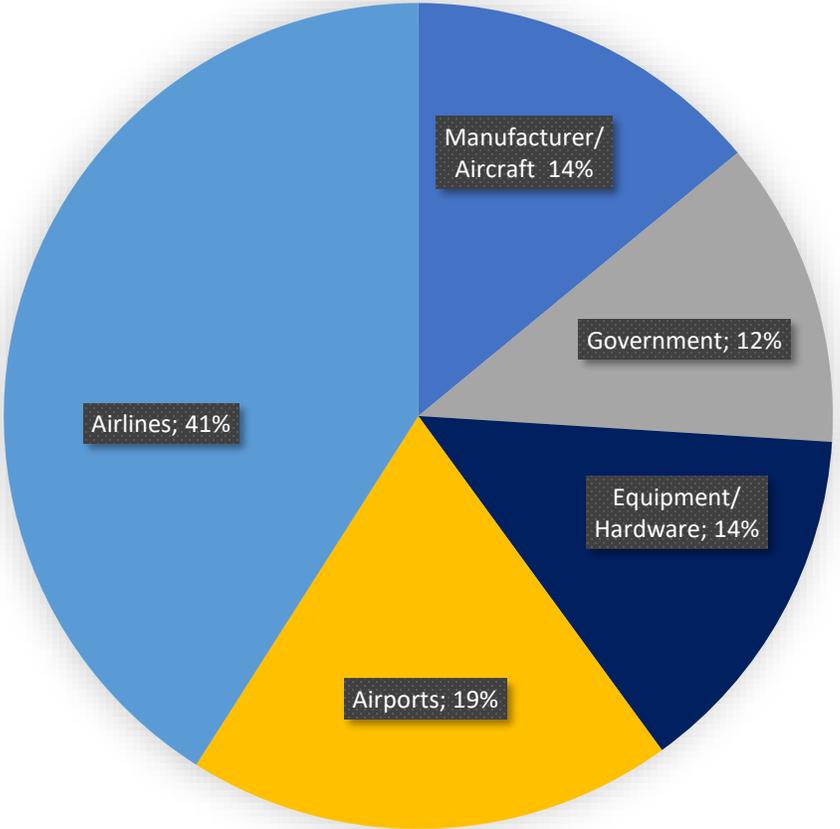
2 May 2024

Your safety is our mission.

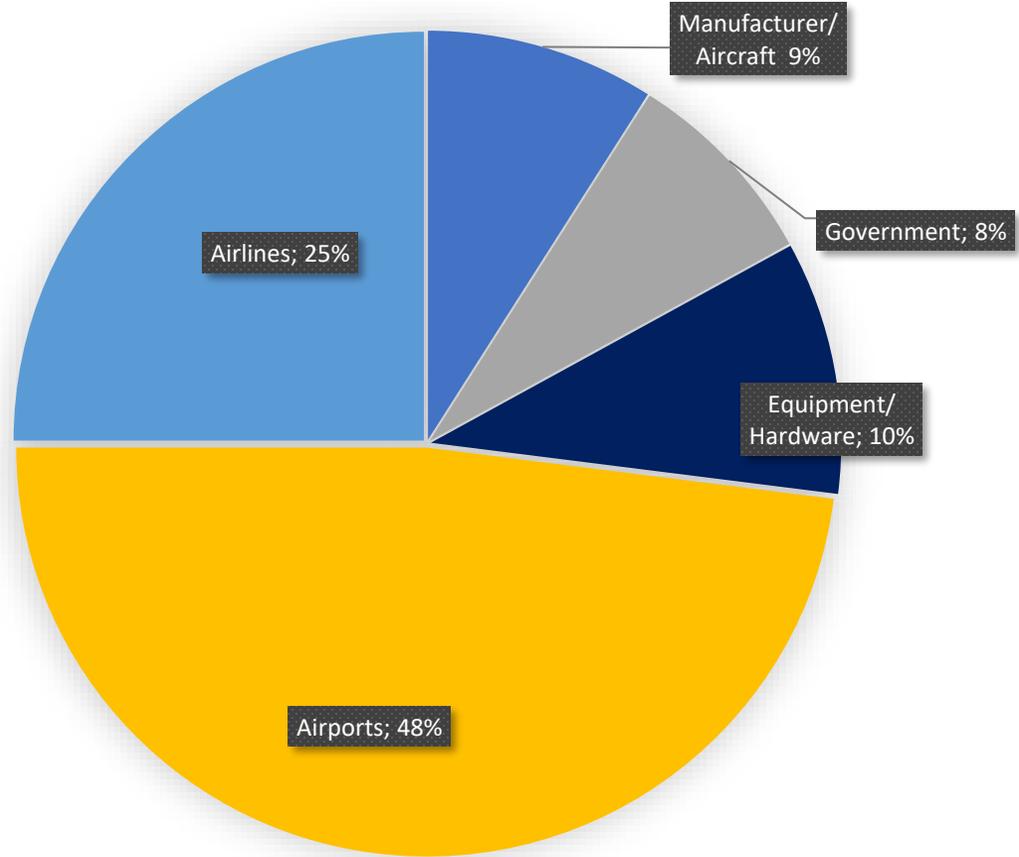


Cybersecurity risks matter to you – EU data

116 attacks by target organisation in 2022



175 attacks by target organisation in 2023



Making EU aviation cyber resilient



Products (Aircrafts, Engines, ...)

- Transition from case by case approach to mandatory on all products now done.
- Requirements incorporated into CS and AMC in July 2020



Organisations (People, Processes)

- Part-IS Regulations published in October 2022 and February 2023
- AMC/GM published on 12 July 2023



Information Sharing

- Create a community to
- Share knowledge
- Perform Analysis
- Collaborate
- Reinforce the system



Capacity building & Research

- To have competent and well aware workforce
- To monitor the current Threat Landscape
- To understand the future Threat Landscape



What we want to achieve with Part-IS

Objective	Protect the aviation system from information security risks with potential impact on aviation safety
Scope	Information and communication technology systems and data used by Approved Organisations and Authorities for civil aviation purposes
Activity	<ul style="list-style-type: none">- identify and manage information security risks related to information and communication technology systems and data used for civil aviation purposes;- detect information security events, identifying those which are considered information security incidents; and- respond to, and recover from, those information security incidents

Part-IS ISMS is inspired by existing Framework and Regulations

IS.OR.200
Policy on information security

IS.OR.205
IS Risk Assessment

IS.OR.210
Information Security Risk Treatment

IS.OR.220
Detection, Response, Recovery of Incidents

IS.OR.215
IS Internal Reporting Scheme

IS.OR.230
IS external reporting scheme

Implement authority measures as immediate reaction to Incidents or Vulnerabilities

IS.OR.225
Response to findings by the authority

IS.OR.235
Contracting of IS management activities

IS.OR.240
Personnel requirements

IS.OR.245
Record-keeping

IS.OR.200
Compliance monitoring

IS.OR.250 Information security management manual (ISMM)

IS.OR.255 Changes to the information security management system

IS.OR.260 Continuous improvement

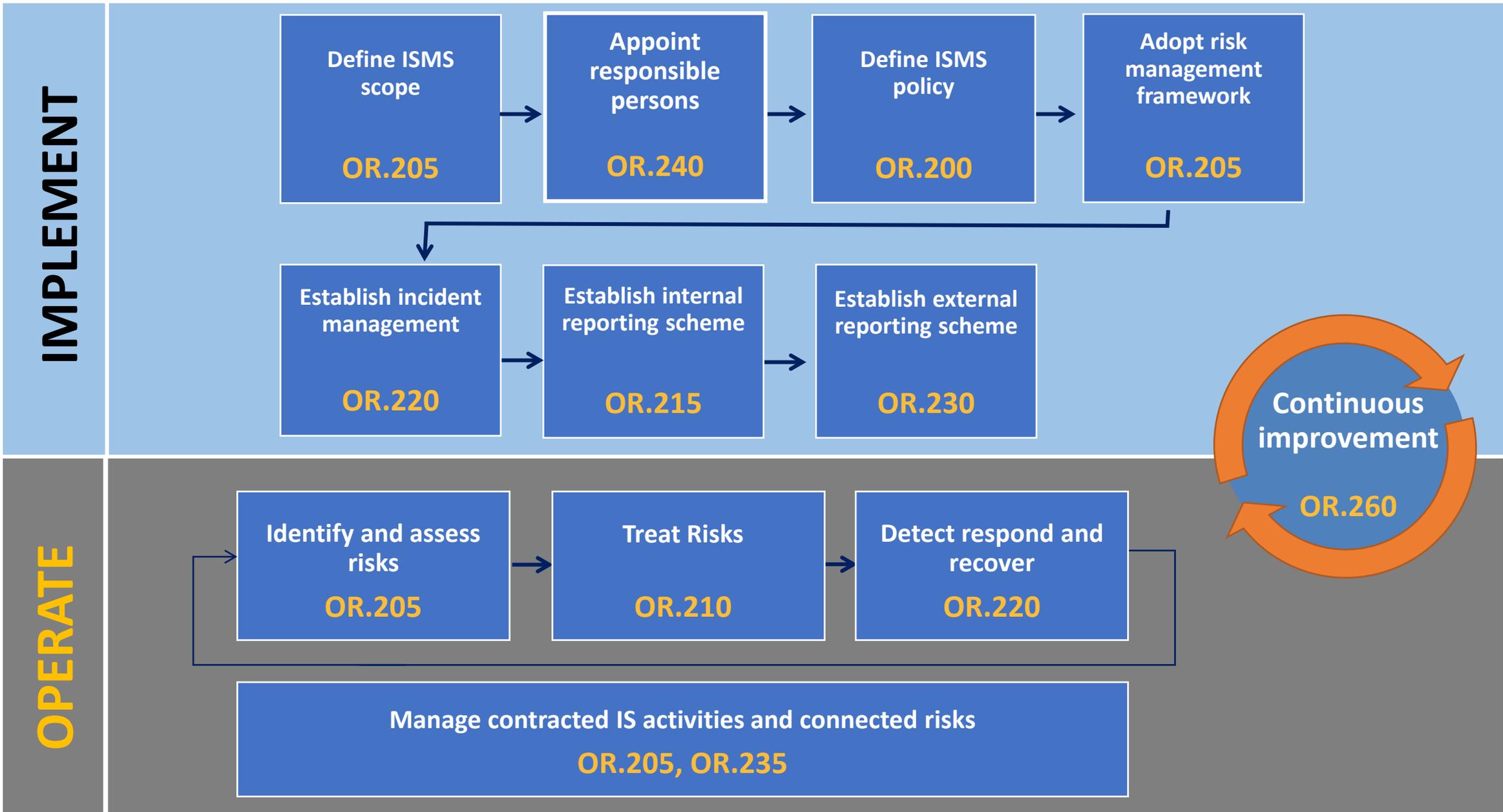
Legend:

NIST Framework

ISO 2700x

EASA Basic Reg.

Occurrence Reporting Reg.



Part-IS Implementation Workshop 2024

Cologne, November 7 - 8

SAVE THE DATE

Registration opens in July 2024!



Your safety is our mission.

Thank you for your attention

Join our Community:



Contact us at:

cybersec@easa.europa.eu

easa.europa.eu/connect



Your safety is our mission.

An Agency of the European Union 

Session 2 - Understanding the cybersecurity regulatory framework

EU Railway regulatory framework in support of cybersecurity



Thomas Chatelet

Project Officer

ERTMS

ERA



European
Commission

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Status update on cybersecurity

02.05.24 | 2nd Transport Cybersecurity Conference, Brussels



EUROPEAN
UNION
AGENCY
FOR RAILWAYS

Cybersecurity @ERA

Regulation considerations

- Monitor relevant activities related to **cybersecurity in the railway context**
- Cover safety requirements of the rail system, e.g. the assessment of **safety consequences originated by security threats**
- Reflect the above in **Technical Specifications for Interoperability** and **Common Safety Methods**

Cooperation building

- Close relationship with **ENISA** and **European Commission**
- Cross-fertilisation with **EASA** and **EMSA** to develop a transport cybersecurity policy
- Dialogue with **National Cybersecurity Agencies** (e.g. ANSSI, BSI)
- Support **sector-led Information Sharing initiatives**

Cybersecurity risk assessment

To cover safety requirements of the rail system, including the assessment of safety consequences originated by security threats

- Security threats based on physical access to assets outside of scope
- ERTMS inherent threats considered
- Safety AND Security Management Systems



Process oriented

Acknowledgement of cybersecurity issues that might influence safety



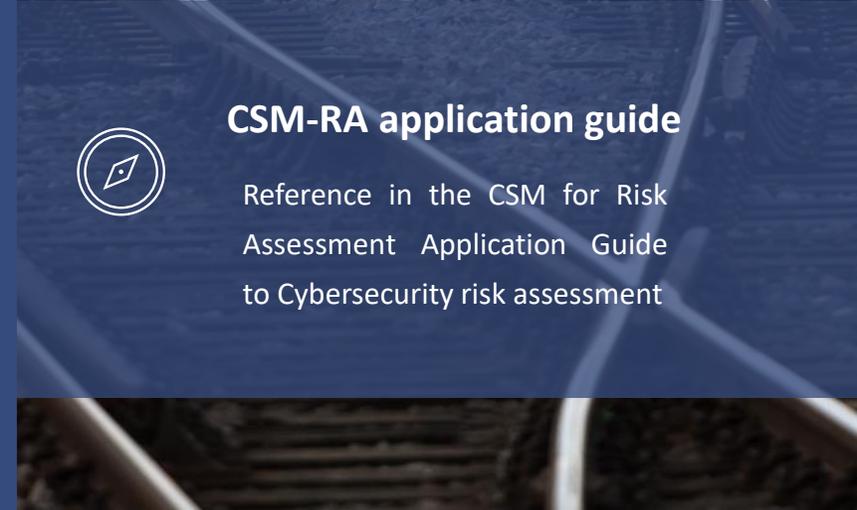
Rail Standards

Reference to IEC/CENELEC Standards with provisions on cybersecurity: 63452 / 50126, 50129, 50159, 50701



CSM-RA application guide

Reference in the CSM for Risk Assessment Application Guide to Cybersecurity risk assessment



Cybersecurity for interoperability

Scope of application

Relevance of cybersecurity not pertinent for all TSIs (e.g. Noise)

Guiding principles

High level design requirement versus specific/component requirement

Thorough review needed

Support from rail stakeholders and ENISA

Energy TSI

Infrastructure TSI

Rolling Stock - Locomotives and Passengers TSI

Noise TSI

Rolling Stock - Freight Wagons TSI

Safety in Railway Tunnels TSI

Control Command and Signalling TSI

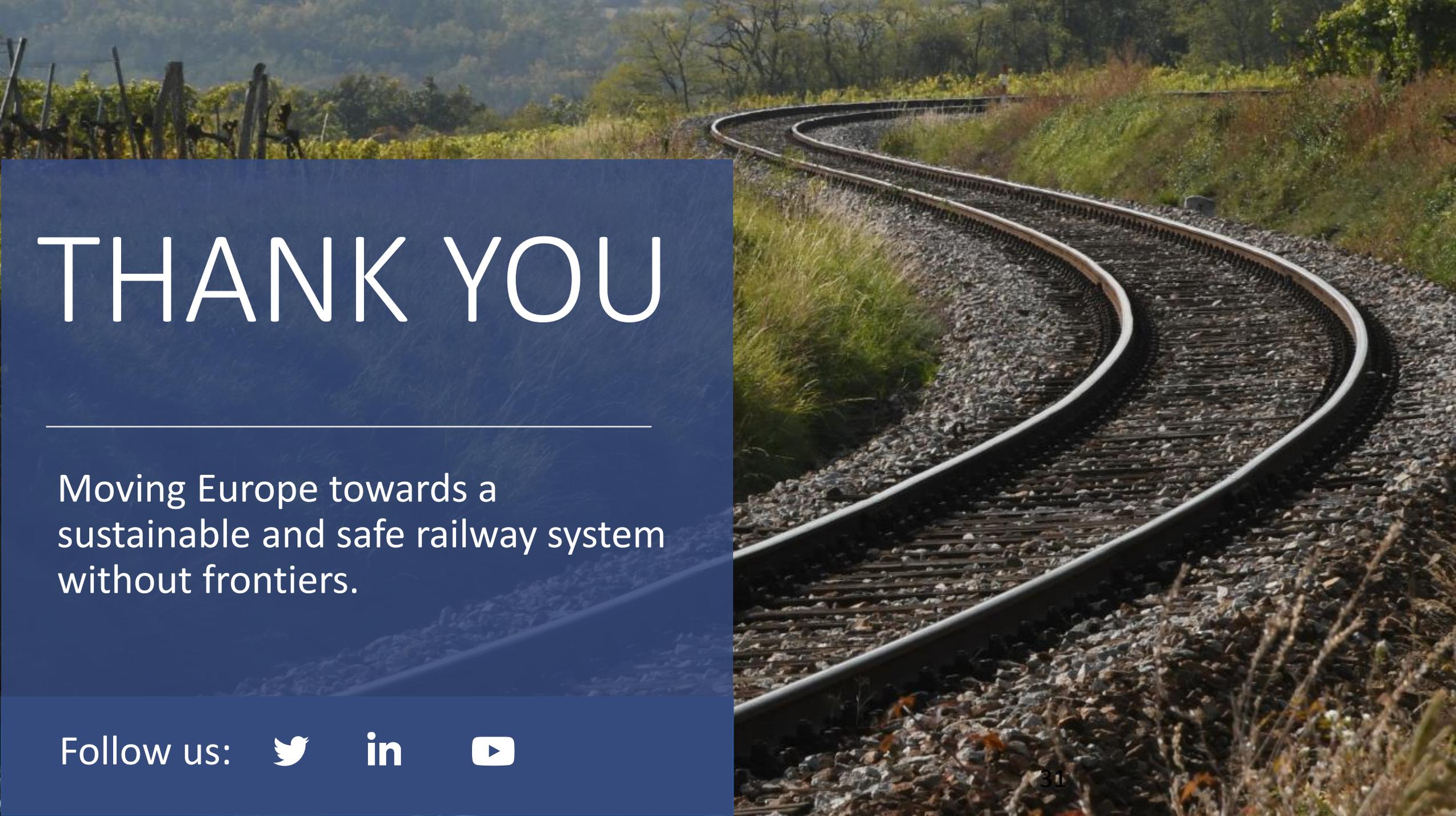
Persons with Disabilities and with Reduced Mobility TSI

Operation and Traffic Management TSI

Telematics Applications for Passenger service TSI

Telematics Applications for Freight service TSI





THANK YOU

Moving Europe towards a sustainable and safe railway system without frontiers.

Follow us:



in



Session 3 - Cybersecurity in transport design, supply chains and emerging technologies

Cybersecurity in supply chains and third parties to prevent vulnerabilities



Omar Marouf
Head of Group Cybersecurity
Risk Management
CMA-CGM



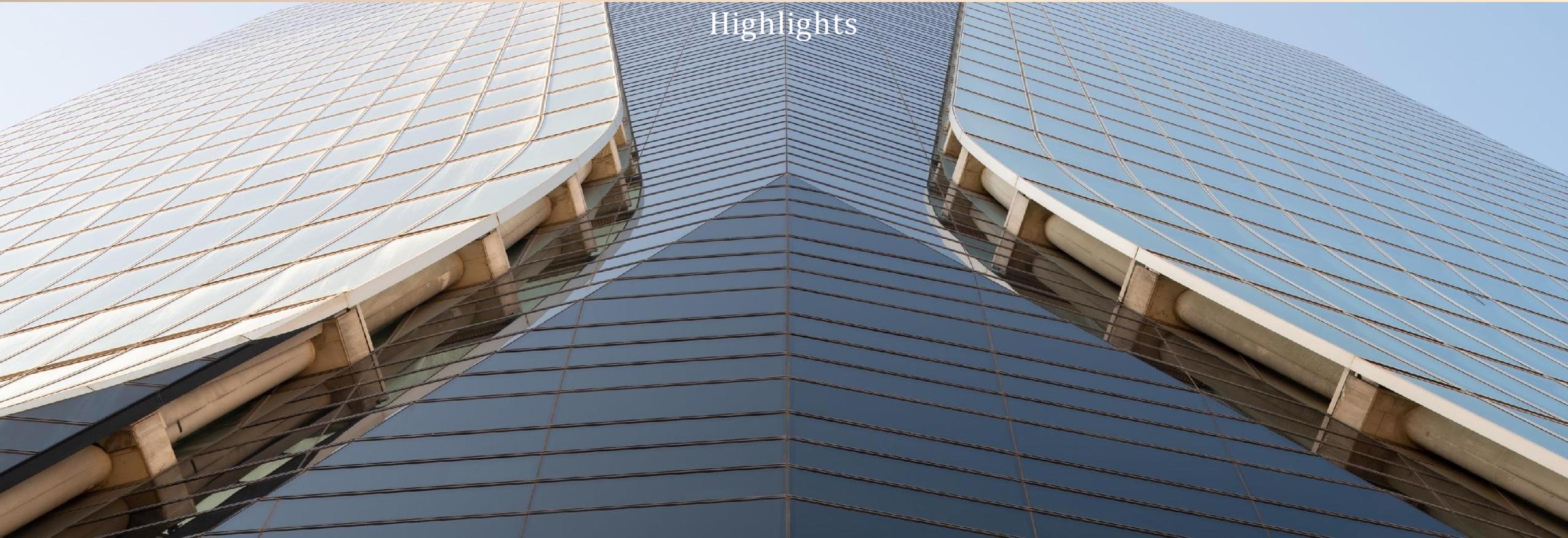
European
Commission

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TRANSPORT CYBERSECURITY
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CMA CGM GROUP

Highlights



The CMA CGM Group

The CMA CGM Group, led by Rodolphe Saadé, is a global player in sea, land, air and logistics solutions, employing more than 155,000 staff members worldwide, including nearly 6,000 in Marseille, where its head office is located.

CMA CGM, is a family-owned company, driven by a unique set of human and entrepreneurial values, and implements a long-term, coherent and ambitious business strategy.



GLOBAL PLAYER

IN SEA, LAND, AIR AND LOGISTICS SOLUTIONS

Our transport and logistics activities

SHIPPING SOLUTIONS



END-TO-END LOGISTICS SOLUTIONS



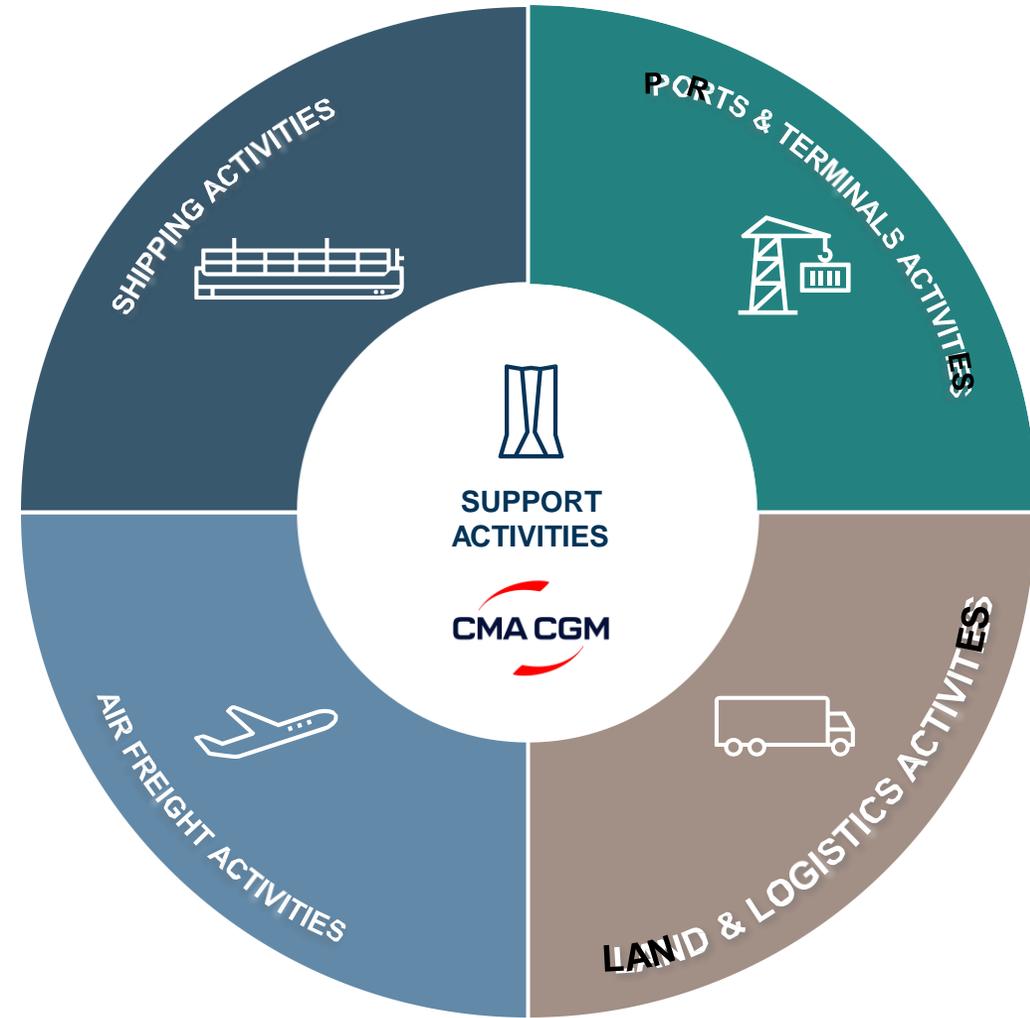
AIR FREIGHT SOLUTIONS

CMA CGM AIR CARGO

TERMINALS

CMA TERMINALS TERMINAL LINK CMA BEIRUT TERMINAL

APL: North America, ANL: Pacific, CNC: Intra-Asia, Mercosul Line: South America



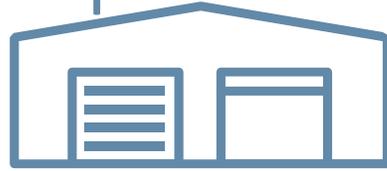
Our global presence



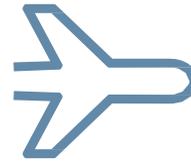
160
countries



+620
vessels



750
warehouses



6
aircraft
already in operation
12 in 2026



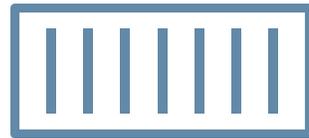
+400
offices



+420
Ports served
across 5
continents



13,304
Crew members



+20 M
TEU transported (2023)



277
shipping services



+50
port
terminals
in operation
in 28 countries



+155,000
staff members
worldwide

Shipping

CMA CGM has one of the world's largest shipping networks. Goods are carried in containers on our CMA CGM, APL, ANL, CNC and Mercosul Lines ships.



+620
vessels



+50
port terminals
in operation in 28 countries



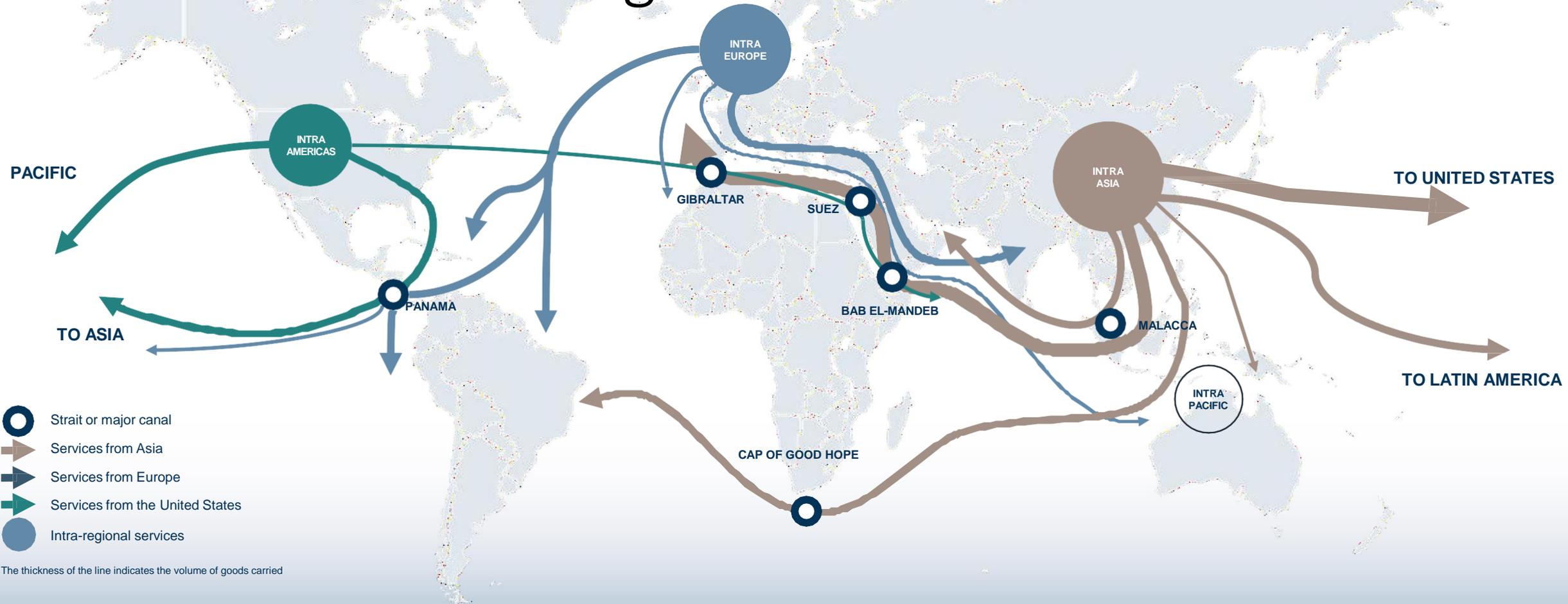
+20 M
TEU transported
(2023)



+420
ports in 5 continents
277 shipping services



Shipping: a network of lines connecting the world



Logistics

CMA CGM Group's subsidiary CEVA Logistics is one of the world's leading providers of logistics services. We support our customers with a comprehensive range of air freight, shipping, inland transport and contract logistics solutions.



5,5 M
vehicles transported



0.5 M
metric tons
of air freight



26 M
metric tons
of inland freight



1.15 M
TEU



10,4 M
m2 of storage
space



Air Cargo

CMA CGM AIR CARGO is France's number 1 cargo airline and has been supplementing the Group's transport solutions since 2021.

CMA CGM AIR CARGO remains committed to providing high quality, reliable and sustainable air transport solutions to carry its customers' freight.



6

aircrafts in service
12 aircrafts by 2027



+100
pilots



Global coverage



13
Specialized products



CMA CGM GROUP

- TRPM – Overview
 - Suppliers & Third parties management
-

TPRM – SCOPE & ENGAGEMENT RULES

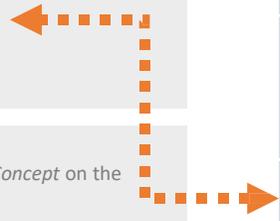


IN

1. New IT projects (on-premise or cloud):
 - In case of multiple bid applicants - RFP
 - One pre-selected supplier (Qualification)
2. Existing procurement known supplier if contract renewal*
3. Proof Of Concept on an exception basis**

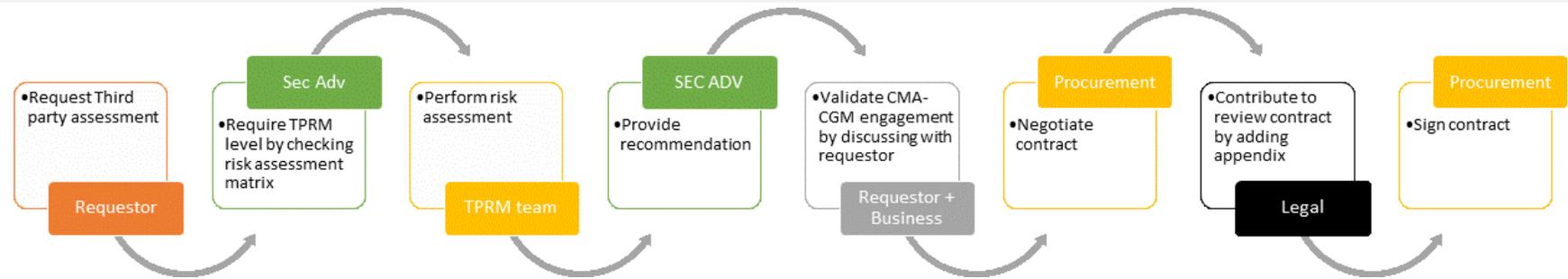
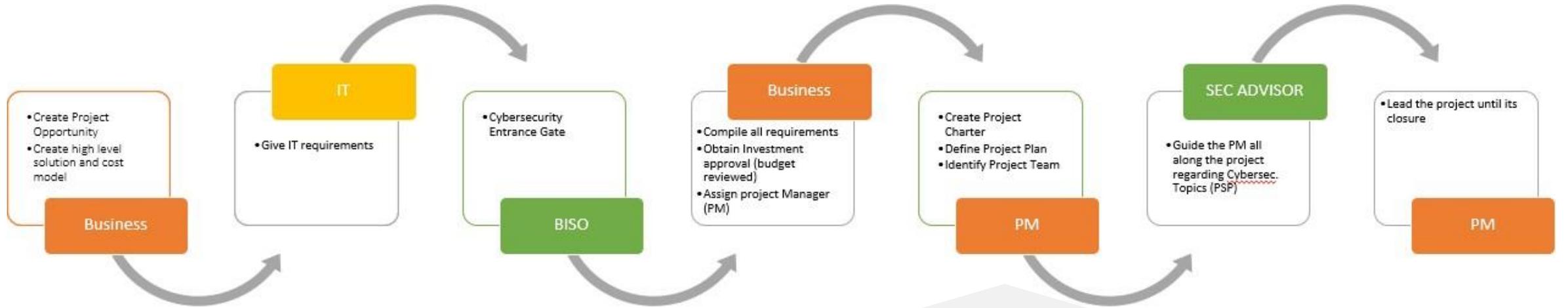
* No assessment for an existing supplier contract

** Security Advisor will study its on case-by-case basis: *Guidelines to Proof of Concept* on the "Requirements in projects" part of the CyberSecurity Compass Sharepoint

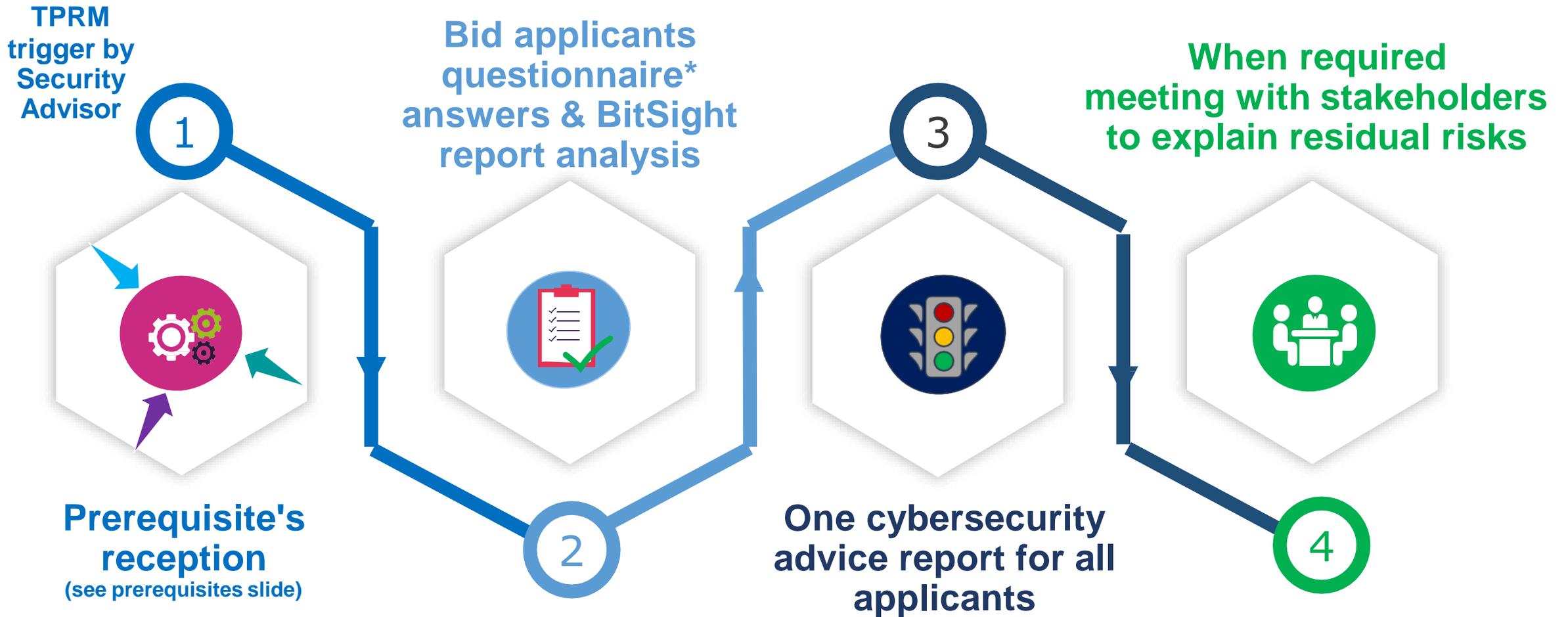


OUT	
Rules	Justification
1. Applications already in production (ongoing contract with the supplier)	Too late to apply TPRM because a contract is already signed. Depending on the context a risk assessment or a security audit should be performed on the application itself
2. Unofficial projects without a Business Owner, a project framework and Security Advisor implication	Security Advisor must be involved, a Business Owner must be clearly identified and a project must be validated
3. Projects for which the target architecture has not yet been defined/decided	Target architecture must be defined first (no TPRM to assess On-premise vs Cloud, IaaS vs PaaS vs SaaS, Public vs Private vs Hybrid Cloud, etc)
4. POCs outside of TPRM exceptions:	Too early to apply TPRM, there is no official project
5. Standalone software installed locally on workstation or mobile device	Standalone software approval is out of TPRM scope

TPRM HIGH LEVEL PROJECT MANAGEMENT PROCESS



IN CASE OF MULTIPLE BID APPLICANTS (TPRM for RFP)



* : 2 different use case security questionnaires (data processing only, On-premise/Cloud based)

Cybersecurity advice report – RFP case

EXAMPLE

Security advice

Red

Third party security level is too low, risks cannot be short/mid term mitigated, business should not contract with the applicant/supplier



xx%

Applicant 1



Findings:

- xxxxx



Risks cannot be mitigated by short/mid term

Orange

Third party security level is not enough, risks must be short/mid term mitigated by establishing an action plan or must be accepted by the business



xx%

Applicant 2



Findings:

- xxxx



Short-mid term action plan to mitigate risks:

- Third party must xxxxxxxxxxx

Green

Third party has shown an acceptable security level in the context for this project



xx%

Applicant 3



Findings:

- xxxx

Date of the cybersecurity advice report release:

Procurement phase : RFP

Name of the project:

Business Owner:

Pre-risk assessment of the project (CIA, etc.):

Name of the applicants/suppliers :

Applicant 1

Applicant 2

Applicant 3



BETTER WAYS



LA MÉRIDIONALE



CMA CGM AIR CARGO

WHYNOT MEDIA

Session 3 - Cybersecurity in transport design, supply chains and emerging technologies

The impact of emerging technologies on cybersecurity



Olivier Lepretre
Cybersecurity Director
EUROSTAR



European
Commission

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THE IMPACT OF EMERGING TECHNOLOGIES ON CYBERSECURITY



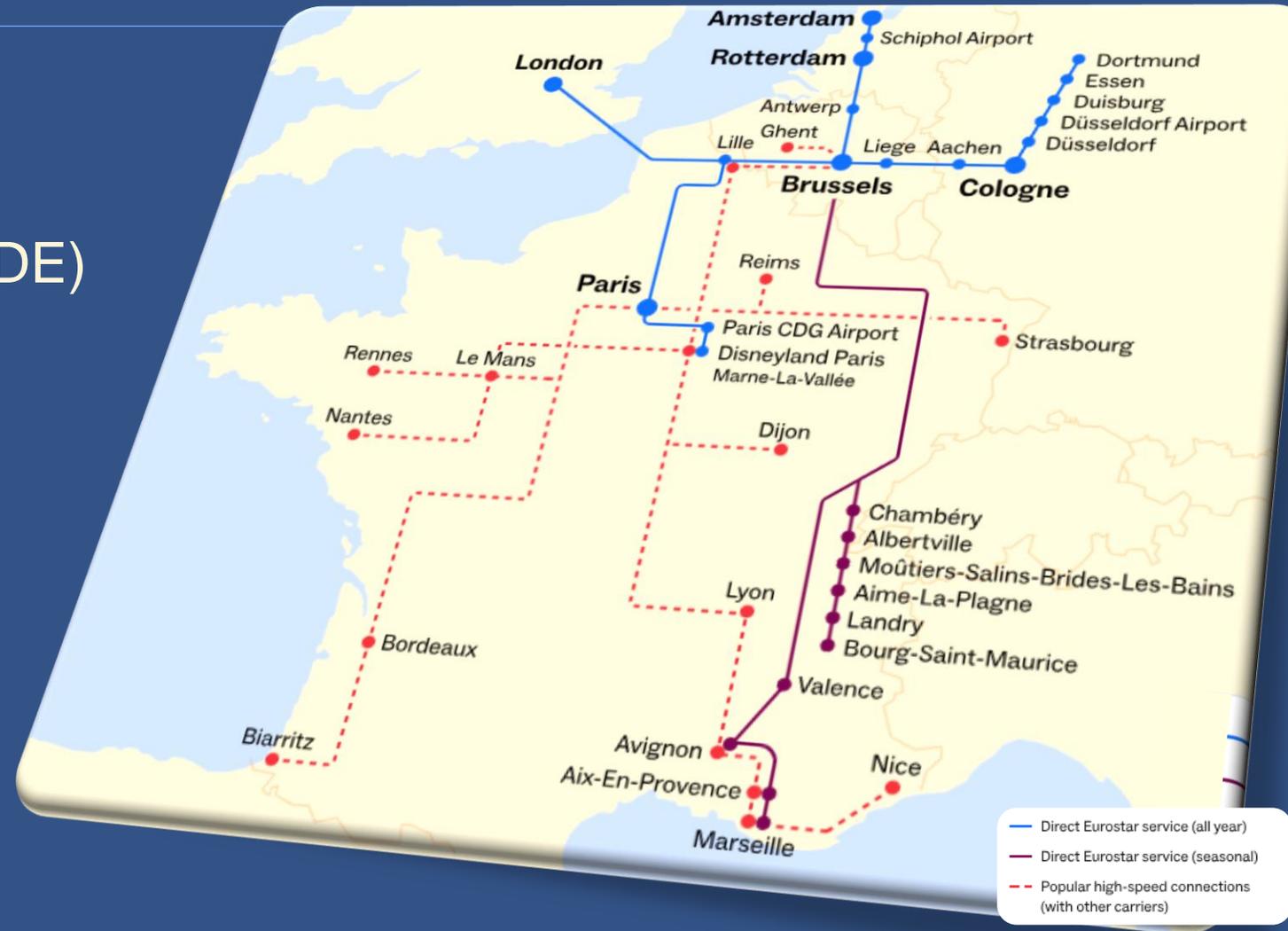
2nd May 2024
Olivier Lepretre



Eurostar | At a glance

www.eurostar.com

- ⊗ 5 countries (UK, FR, BE, NL & DE)
- ⊗ 28 direct destinations
- ⊗ Fleet of 51 trains
- ⊗ 18,6 million passengers (2023)
- ⊗ Revenue €1,53bn (2022)
- ⊗ EBITDA €332 million (2022)



The strictest security regime of any train operator in Europe (UK routes)

Emerging Technologies | Let's step back

Static page ->
eCommerce, Web 2.0, 3.0



SSL/TLS, Captcha,
Firewall

SMS, Emails, Web ->
Anywhere, Anytime



Mobile Device Mgmt,
Unified Endpoint Mgmt

Device Intelligence, Edge
processing



Hardening, Network
segmentation, SSE

Decentralized and flexible computer power ->
Change context of perimeter security, responsibility model



Access Mgmt, DLP, Governance, WAF, CASB

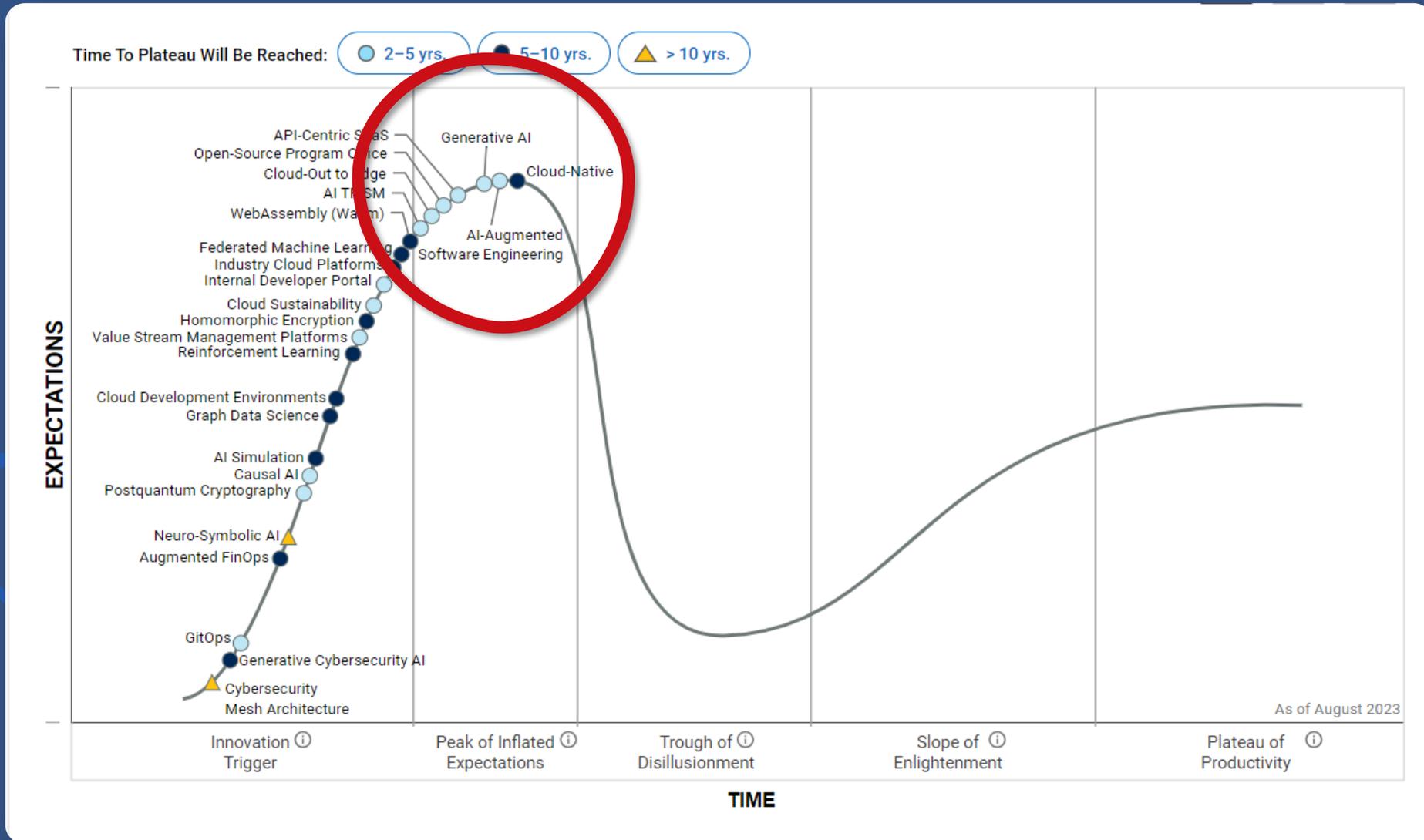
Broadband access ->
Remote access



VPN, SASE, VDI, MFA

Emerging Technologies | Today

Source: Gartner | Hype Cycle for Emerging Technologies, 2023



Artificial Intelligence | New Threats ?

Lowering the barrier to entry for attackers, increasing the sophistication and automation of attacks, and decreasing time-to-exploit



- Social Engineering
- Malware code generation
- Vulnerability discovery
- Disinformation



- Data poisoning
- Data leakage
- Evasion
- Model extraction



- Deep fakes
- Voice mimic
- Writing style
- Synthetic identity



- Security & Privacy
- Intellectual Property
- Quality of training data
- Ethical considerations

Artificial Intelligence | New Opportunities !

Strengthen cybersecurity capabilities and threat detection with AI, Improve collaboration, invest in human expertise

Definition and Enforcement of Principles & Guardrails

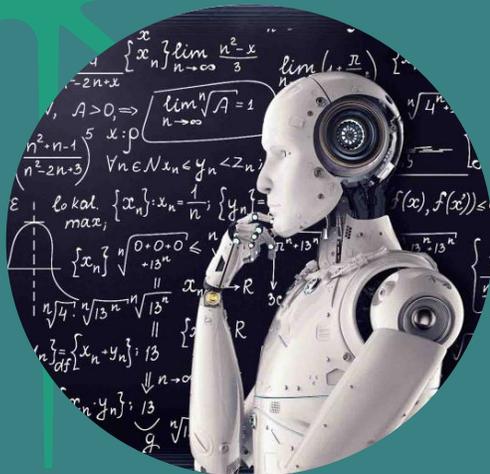
Implementation of AI Powered Tools

Maintenance of Skilled Human Oversight

Use of Closed Model(s) for Augmented Generation

Improved Data Quality

Standardized Strategies for Managing AI-related Risk



Three Laws of Robotics

- 1.) A robot may not injure a human being or, through inaction, allow a human being to come to harm.
- 2.) A robot must obey any orders given to it by human beings, except where such orders would conflict with the First Law.
- 3.) A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.



Emerging Technologies

More opportunities !

Serverless Architecture

Software defined Perimeter

Strong coding

Behavioral protection

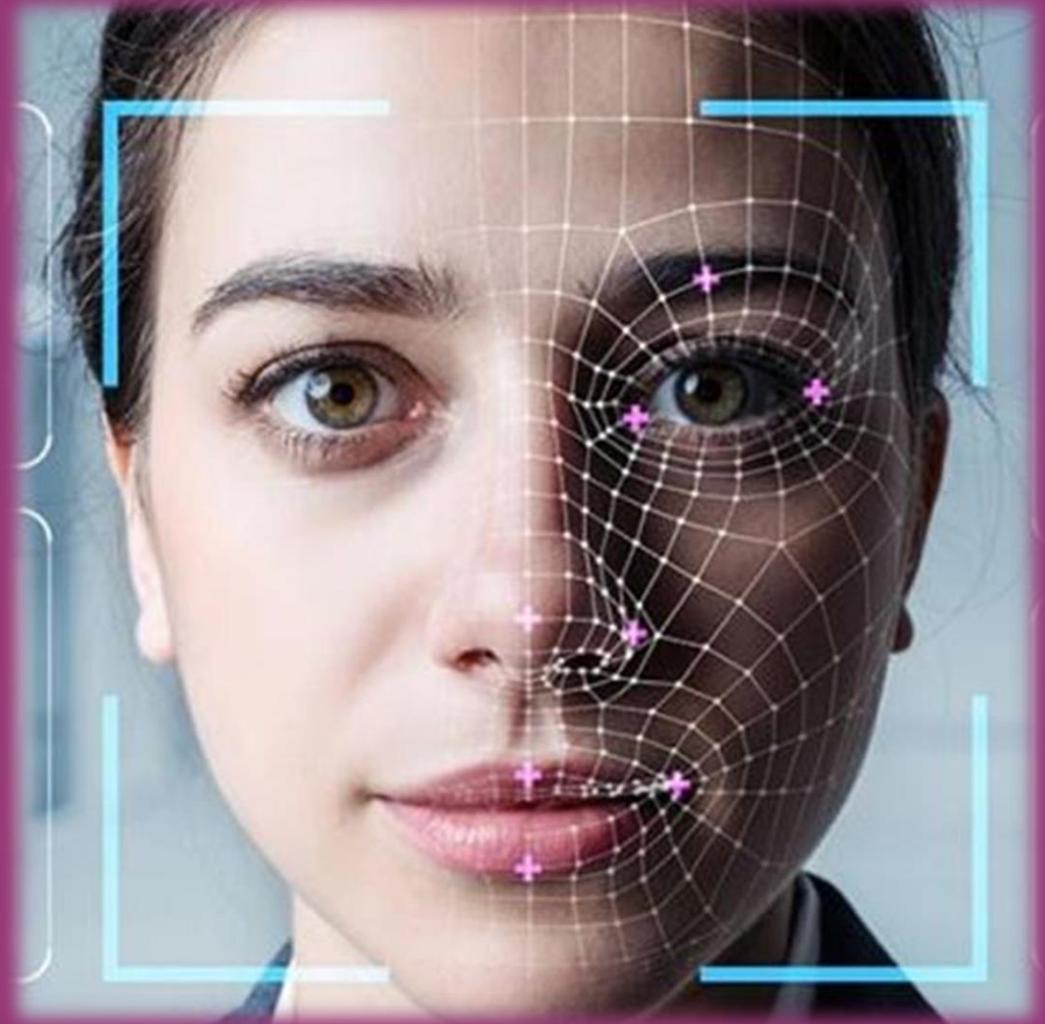


Emerging Technologies

More opportunities !

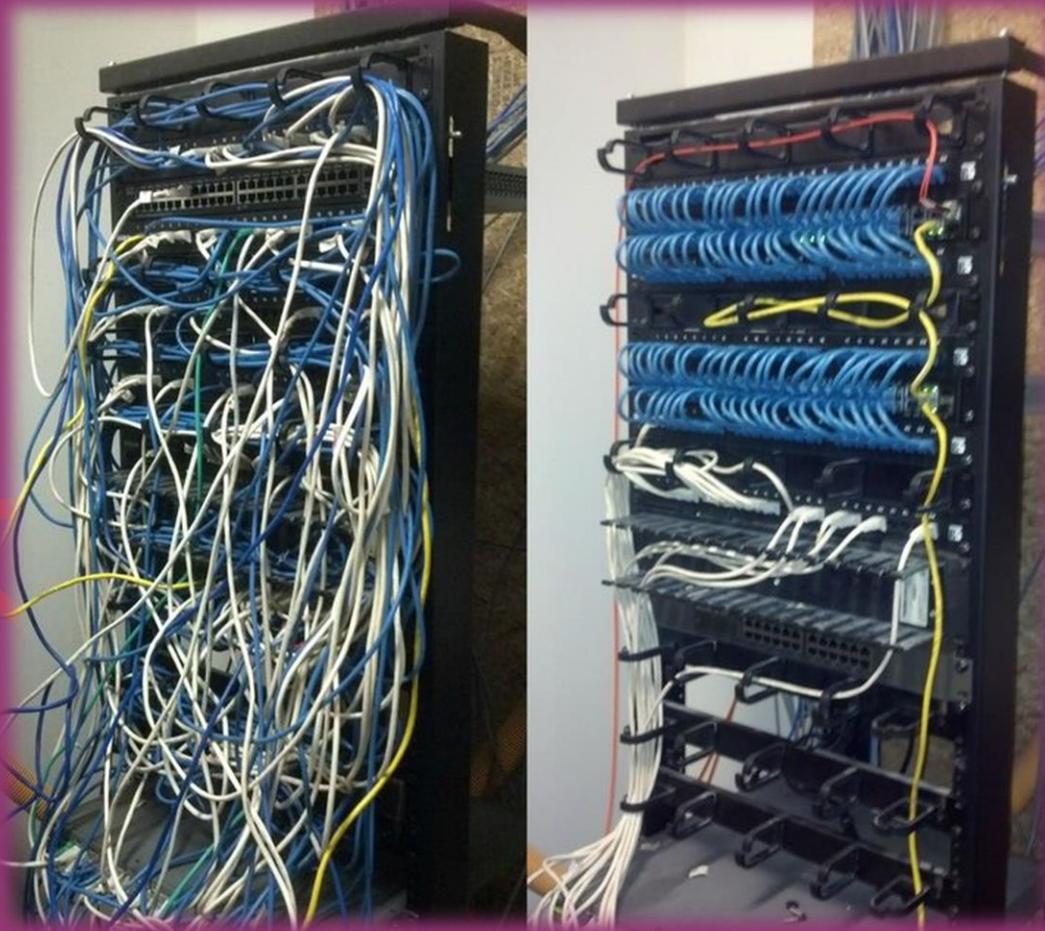
Biometric Authentication

Password less



Emerging Technologies

More opportunities !



Adaptive networks

Software Defined
NaaS

Emerging Technologies

More opportunities !

Zero (Explicit) trust models



Emerging Technologies

More opportunities !



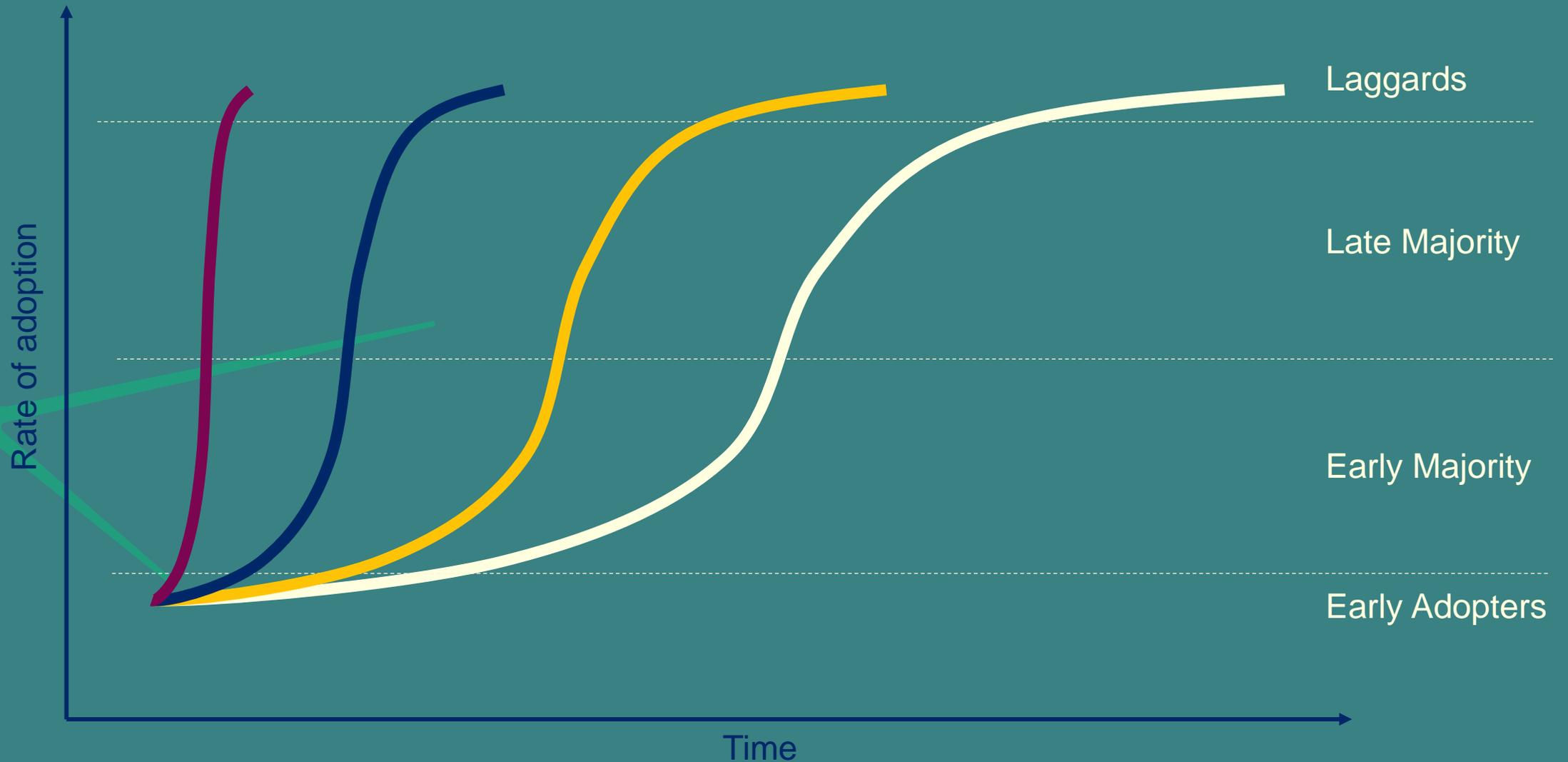
Quantum computing

Quicker decryption
Stronger encryption

...

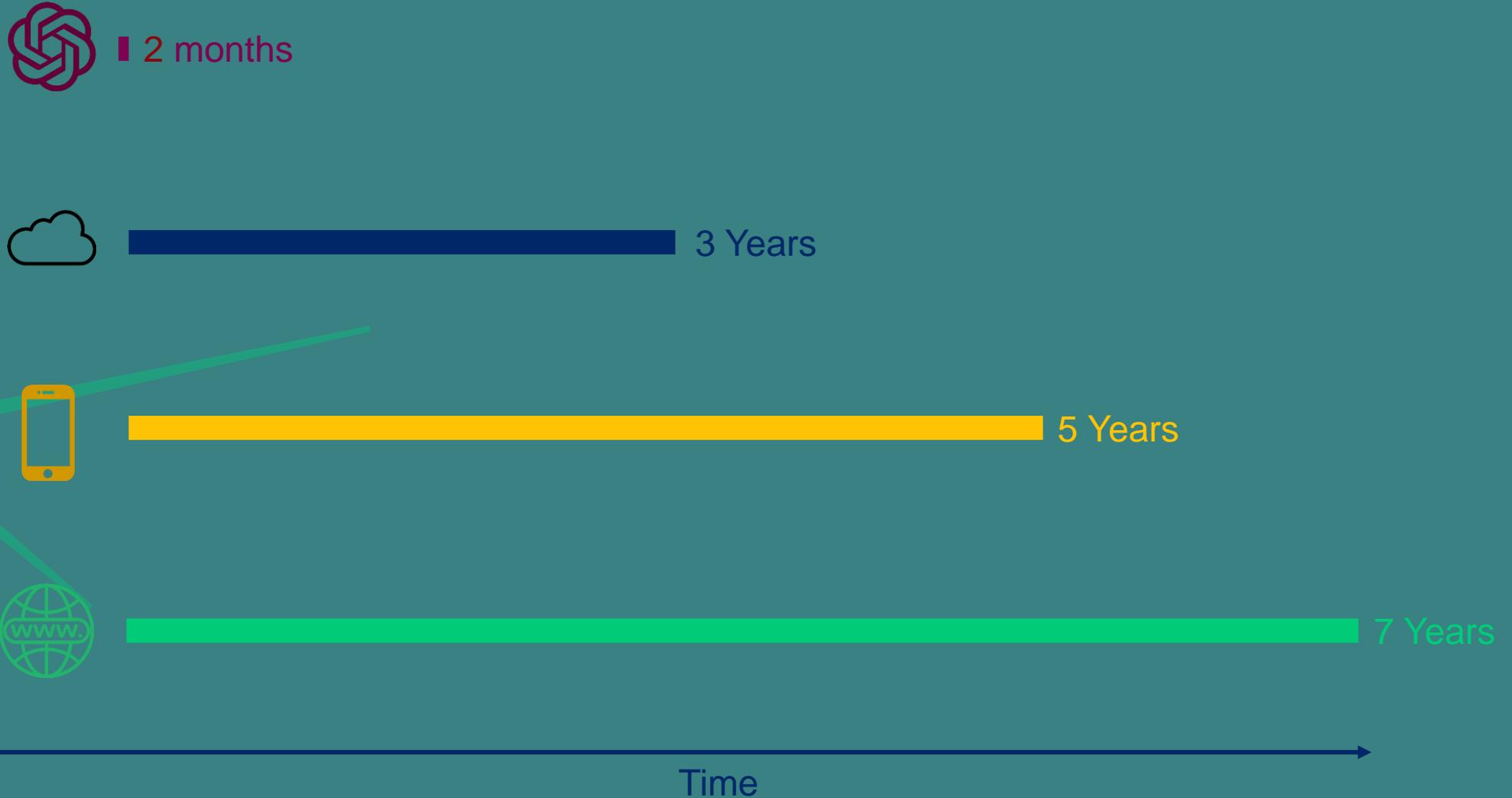
Emerging technologies | Speed of adoption

The S-curve

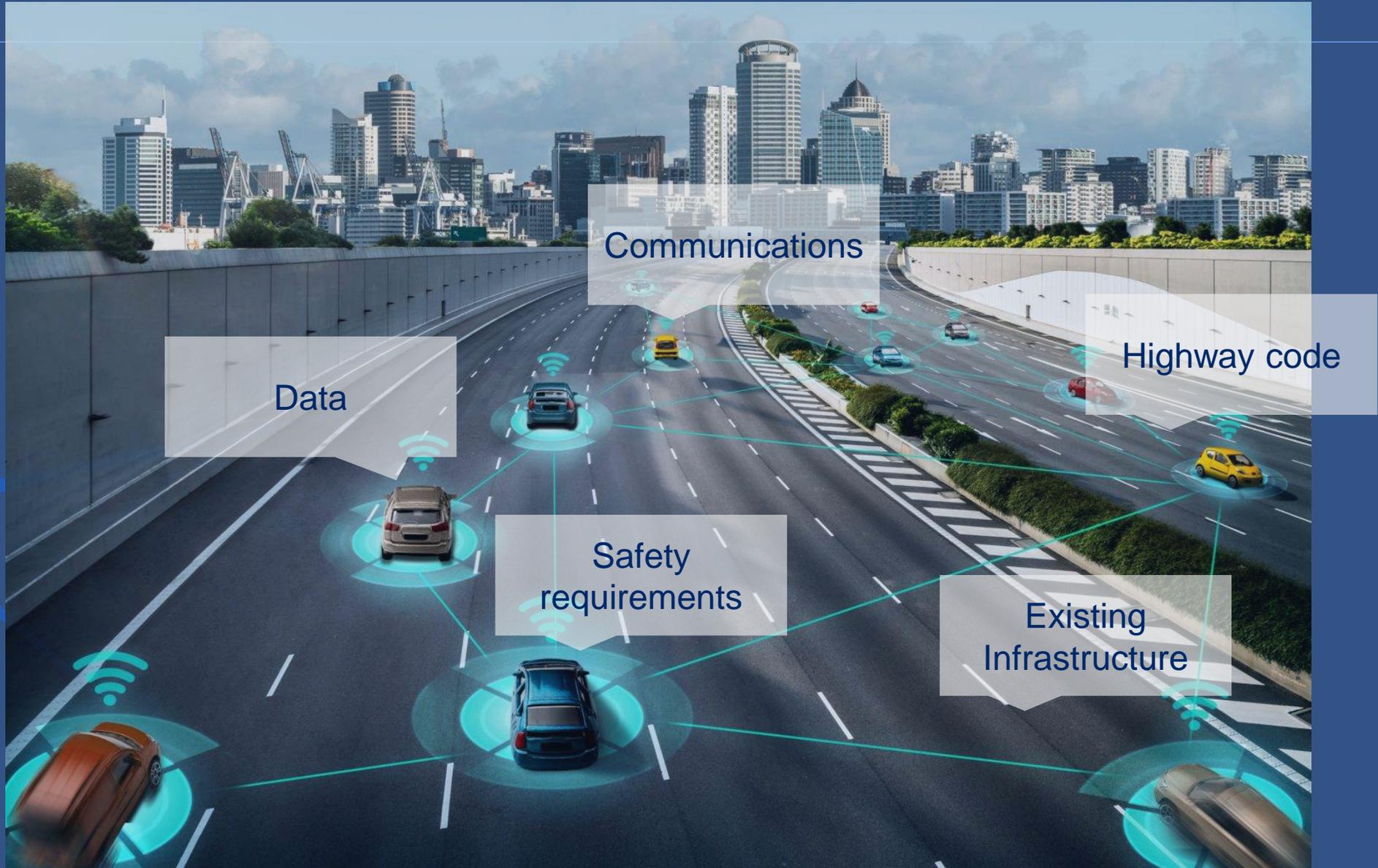


Emerging technologies | Speed of adoption

Time for 100 millions person to adopt technology



New technologies | Balance between Risk & Agility



Merci
Thank you
Danke
Dank je wel



Session 3 - Cybersecurity in transport design, supply chains and emerging technologies

The Cyber Fusion Center of the Future



Erik Van Buggenhout
Head of Managed Security
Services
NVISO Security



European
Commission

#TransportCybersecurity

**TRANSPORT CYBERSECURITY
CONFERENCE**



Building the Cyber Fusion Center of the Future

TRANSPORT CYBERSECURITY CONFERENCE

Erik Van Buggenhout
Head of Managed Security Services



Building for success

How to build a highly functioning Fusion Center

Common SOC issues



Expensive



Alert Fatigue



Skill Shortage



Ever-Expanding
Landscape



Critical Success Factors



Threat-Centric



Purple Focus



SOAR-Centric



Automation-First



Purple Focus

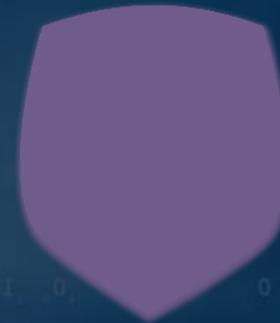
Combining Red and Blue skills

The Cyber Fusion Center should be a **purple ambassador** and make sure red thinks a bit more blue, while blue should think a bit more red:



**Red Team with a
“touch of blue”**

- **Understand prevention, detection, and response techniques**
- **Understand complexities** and limitations of target organization and tailor recommendations
- **Present known TTPs** to Blue Team (highlight “quick wins”) and innovate Red Team approach continuously



**Blue Team with a
“touch of red”**

- Understand and follow up on known adversary TTPs
- **Test individual TTPs continuously** and improve where possible
- Track and report on **coverage of TTPs** (e.g., ATT&CK framework)



Purple Focus

Combining Red and Blue skills

So... No more yearly red teams? There's room for both:



Red Team

Organize **periodic Red Team exercises** to assess the actual state of security in the organization. Offer feedback only after the exercise ends, as the exercise is typically meant to be stealthy (realistic adversary emulation)...

VALUE: Periodic assessment of organization resilience



Purple Team

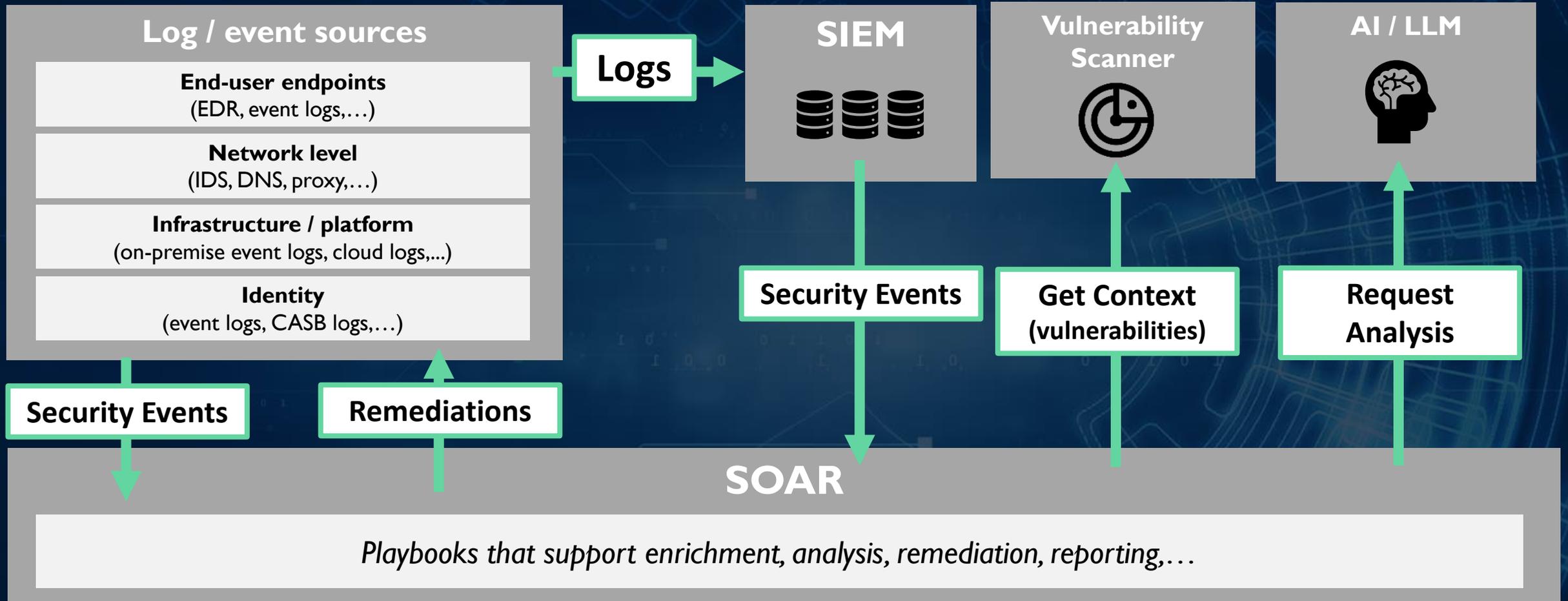
Perform **continuous Purple Teaming** to improve the state of security in the organization. Blue Team members simulate focused attack techniques as part of their operations to immediately test effectiveness of detection and prevention controls.

VALUE: Continuous improvement of organization resilience

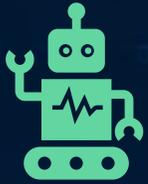


SOAR-Centric

A SOAR-Centric architecture



The **SOAR platform** becomes the “**central brain**” of the Fusion Center (instead of the SIEM). All security technologies should be connected to the SOAR (both for detection, contextualisation, handling, reporting and remediation)



Automation

Marriage between automation and human effort

“Geographically improbable log-on for user Erik Van Buggenhout”

Enrich: Add privileges of user Erik Van Buggenhout to security event

Enrich: Add insights & reputation of source IP address to security event

Enrich: Add whether or not MFA was used in authentication to security event

Enrich: Add historic locations used by Erik Van Buggenhout to security event

Enrich: Add security risk score for user Erik Van Buggenhout to security event

Enrich: Add info on workstation security alerts for Erik Van Buggenhout’s workstation to security event

Enrich: ...

Decide: Confirm whether, based on the above enrichments, a false positive can be confirmed

Remediate: When confirmed true positive (and allow-listed for remediation), execute remediation

Present: When unsure, present enriched security event to analyst for further follow-up

