Supporting European Aviation

EUROCONTROL

EUROCONTROL NETWORK MANAGER **USER FORUM 2023**

Managing the new normal

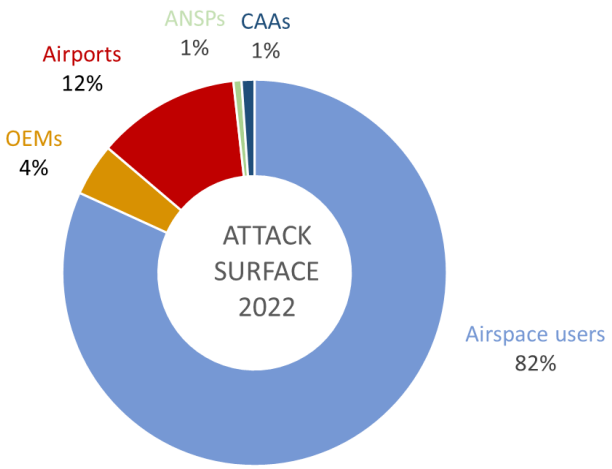
3 February 2023

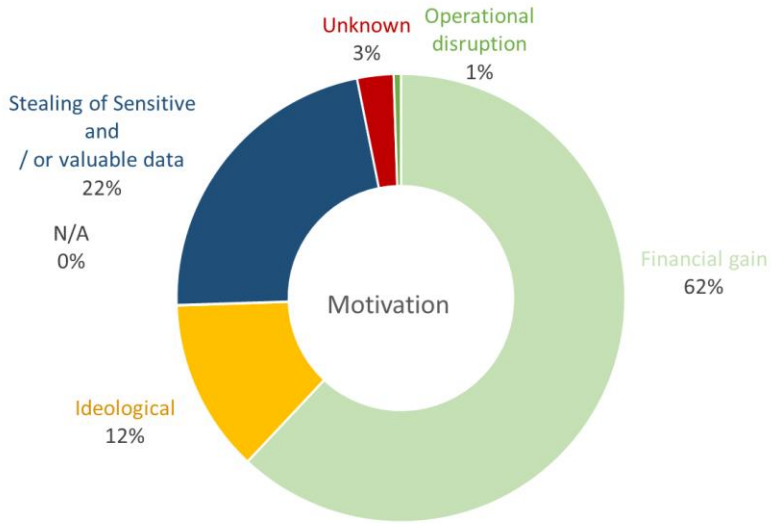
CONSORTIUM COORDINATOR sesar DEPLOYMENT MANAGER

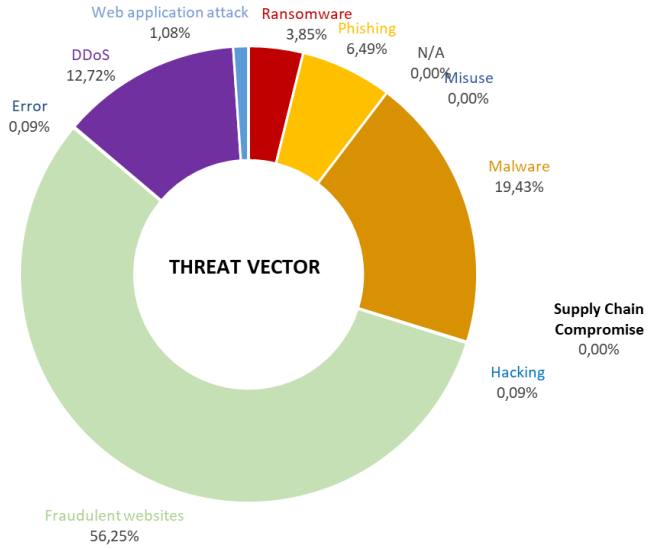
FOUNDING MEMBER sesar JOINT UNDERTAKING

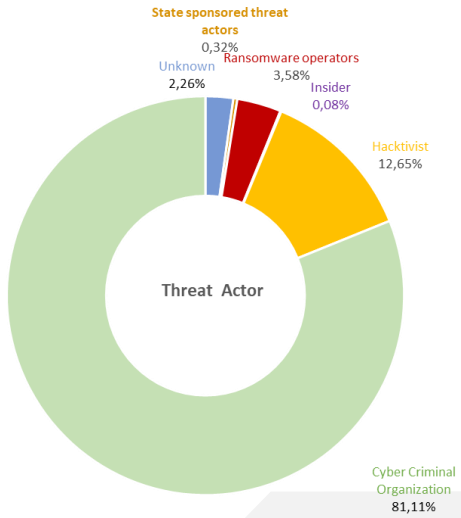
NETWORK MANAGER

Aviation cyber threat landscape





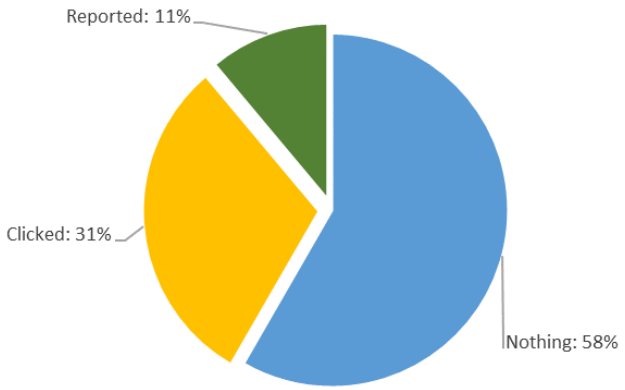




EATM-CERT services

Anti-DDoS testing

Phishing awareness campaigns

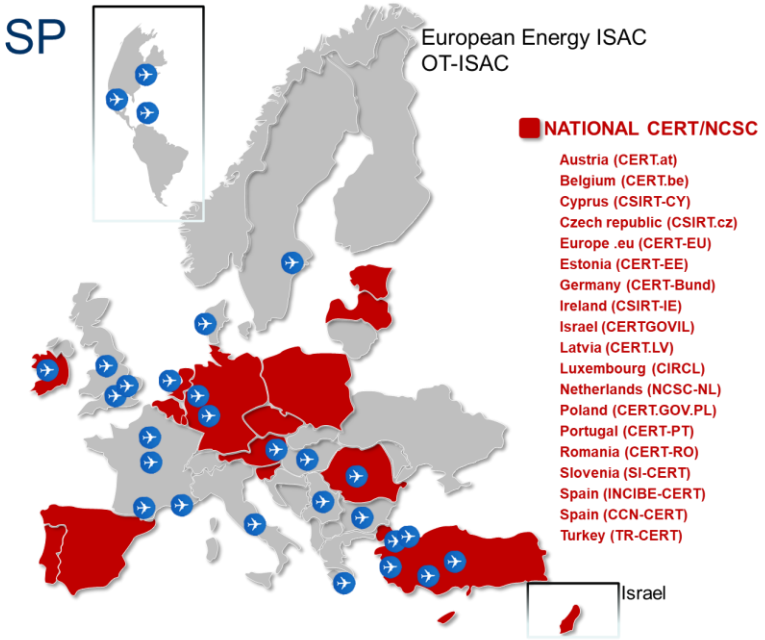


Aviation stakeholders

- Austria - Austrocontrol
- Bulgaria - BULATSA (ANSP)
- Denmark - NAVIAIR (ANSP)
- France - CERT-AIRBUS A/C
- France - Groupe ADP
- France - DSNA
- France – Air Caraïbes
- Germany - DLH-DE –Lufthansa Group
- Germany - Frankfurt Airport
- Greece - HANSP
- Hungary - HungaroControl (ANSP)
- International - IATA
- International - AMADEUS
- Ireland – Shannon Airport
- Italy - Aeroporto Di Roma
- Mexico - Aero Mexico Airlines
- Netherlands - Schiphol Airport
- 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

MISP

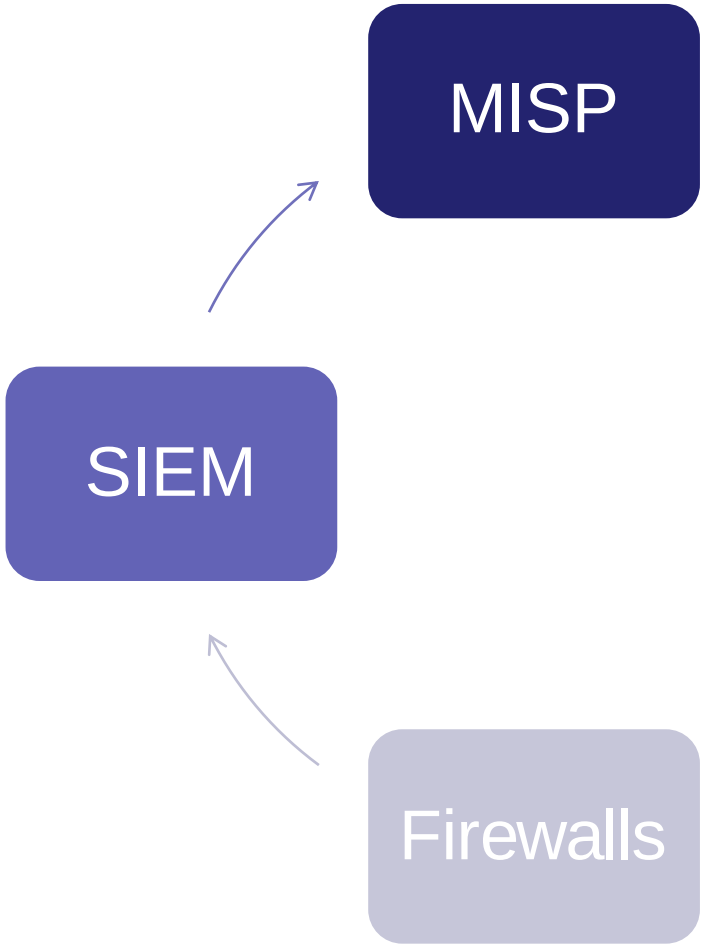
European Energy ISAC
OT-ISAC



NATIONAL CERT/NCSC

- Austria (CERT.at)
- Belgium (CERT.be)
- Cyprus (CSIRT-CY)
- Czech republic (CSIRT.cz)
- Europe .eu (CERT-EU)
- 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)

MISP VIRTUOUS CYCLE



- **Reliable sources**
- **Aviation sector ideally**

- **Not too big (8000)**
- **Intel life cycle**

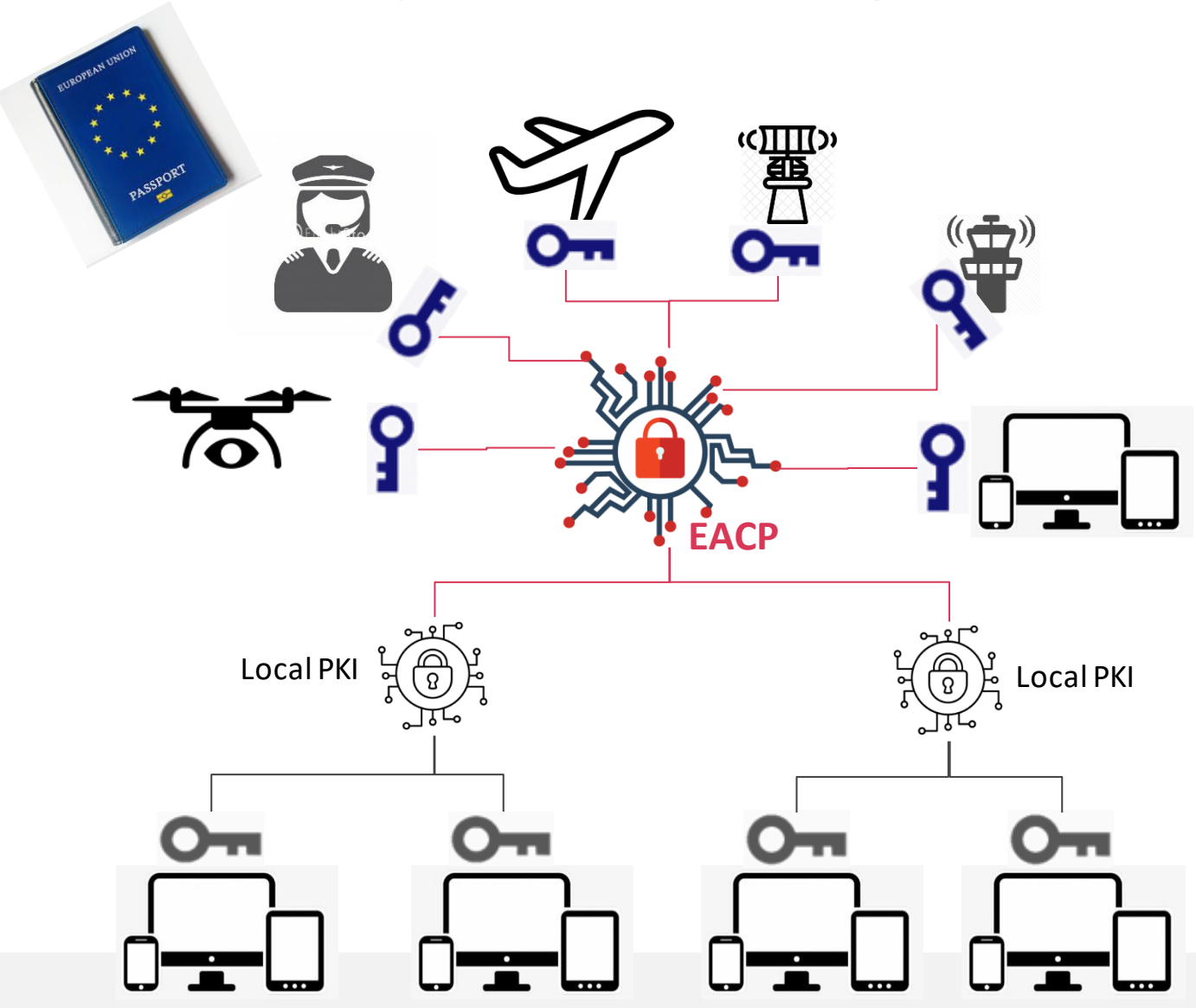
- **Automated import**
- **Simple rule : Reject**

- **Monitoring**
- **Enrichment**

Co-financed by the Connecting Europe Facility of the European Union

European Aviation Common PKI (EACP)

A Building Block for the European Aviation Digital Infrastructure



Improve security throughout aviation value chain

Trust Framework (governance, policies, procedures)

Common service reducing costs & providing:

- Certificates
- Interoperability between existing PKI

Targeting hundreds of users

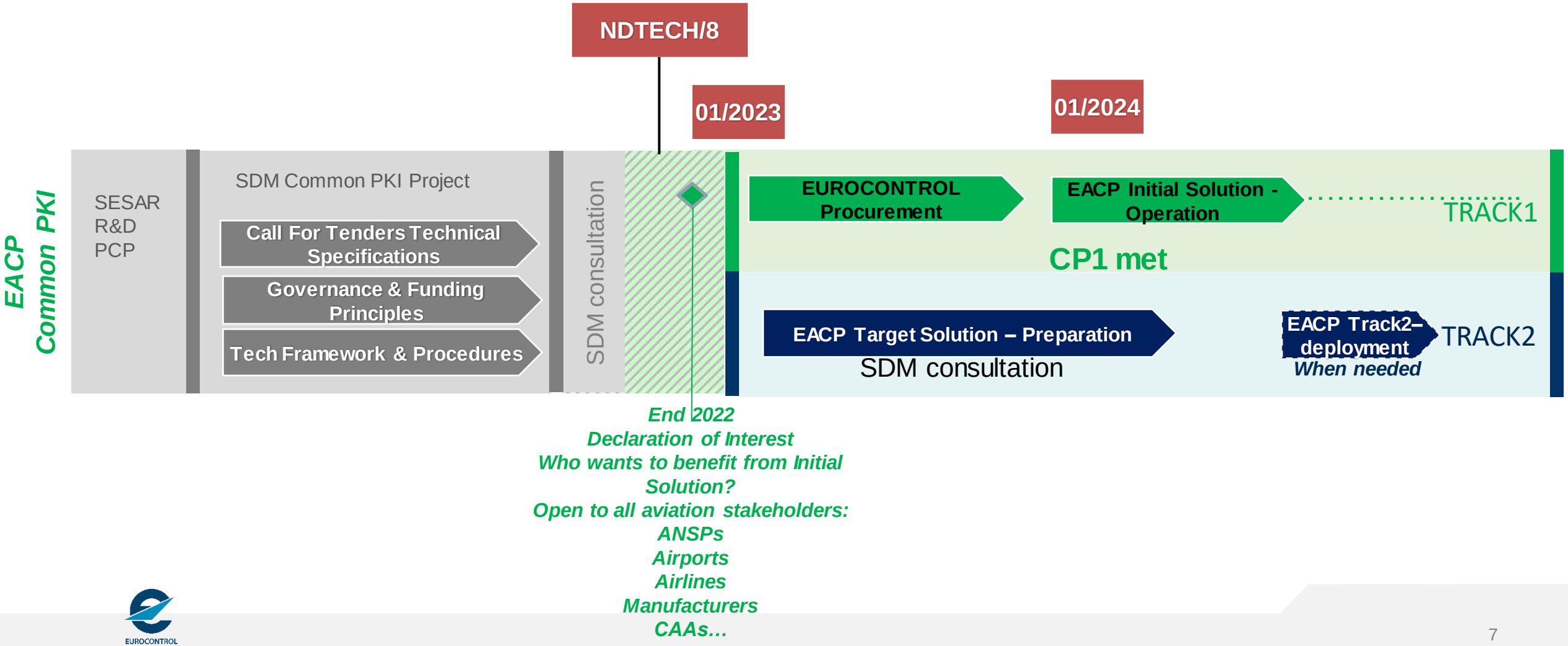
We are as strong as the weakest link

PKI Assessment

- **Operating a state-of-the-art PKI is a full time job**

- Key areas over time
  - Governance
  - Users and roles life cycle
  - Software, hardware and documentation maintenance
  - Security maintenance
  - High availability / Disaster recovery

EACP Procurement of a common service Timeline - summary



Airports

France - Groupe ADP
UK – Manchester Airport Group
Switzerland - Zurich

Airlines

France – Air Caraïbes

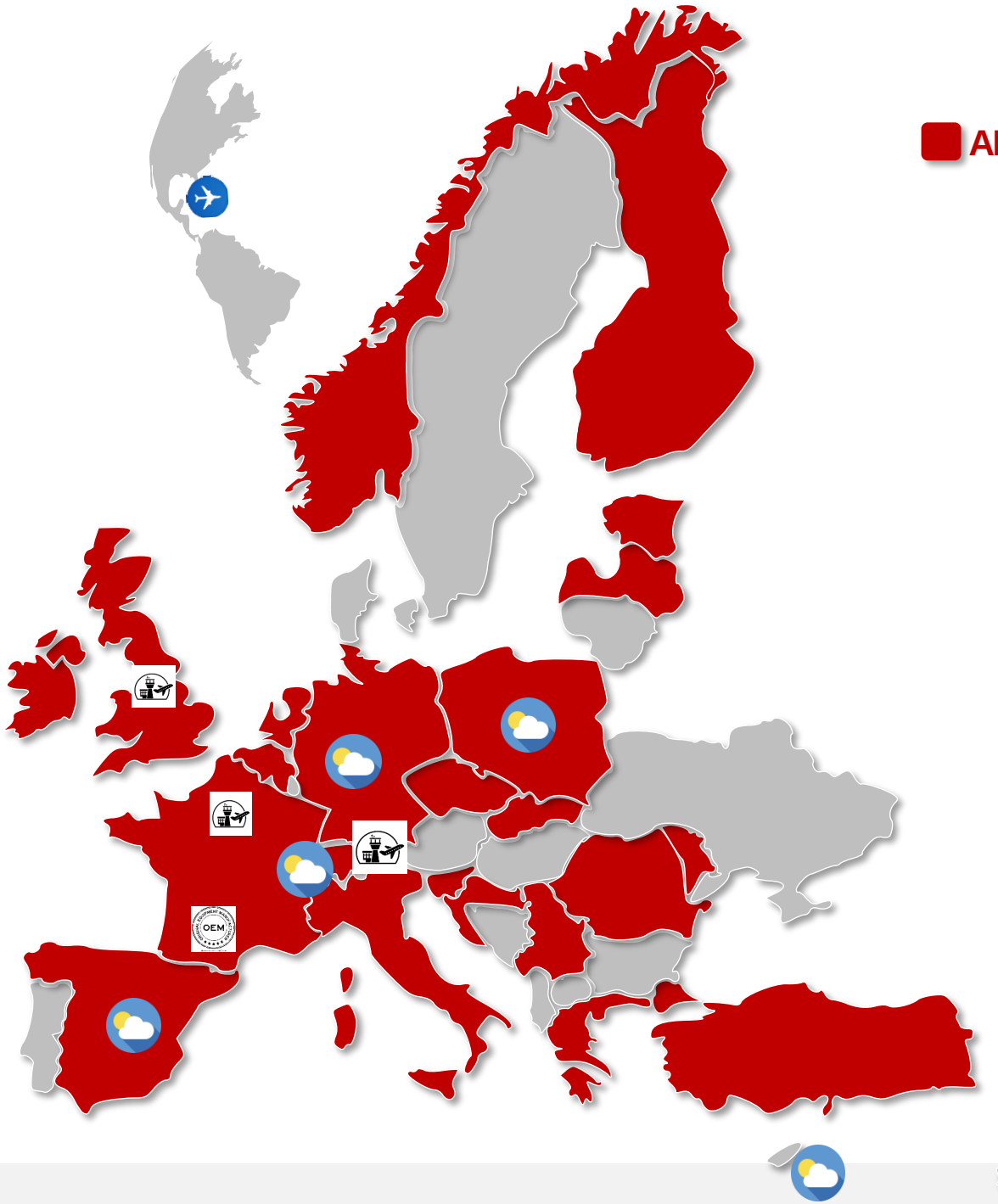
MET

Cyprus
Germany
Poland
Spain
Switzerland

Manufacturer

Thales

Network Manager
MUAC



ANSPs

Belgium - skeyes
Croatia - Crocontrol
Czech republic – ANS-CZ
Estonia – EANS
Finland - FINTRAFFIC
France - DSNA
Germany – DFS
Greece – HANSA
Ireland - IAA
Italy - ENAV
Latvia – LGS
Moldova - MOLDATSA
Netherlands - LVNL
Norway - AVINOR
Poland - PANSA
Romania – ROMATSA
Serbia & Montenegro - SMATSA
Slovakia – LPS.SR
Slovenia - SloveniaControl
Spain – ENAIRE
Switzerland - skyguide
Türkiye - DHMI
UK - NATS

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