# **Current market solutions and practitioners** needs

Chair: Paolo Venturoni, European Organisation for Security (EOS)



Danai Kazantzidou-Firtinidou, KEMEA



Stefano Sebastio, Collins Aerospace



Tim Stelkens-Kobsch, German Aerospace Center (DLR)

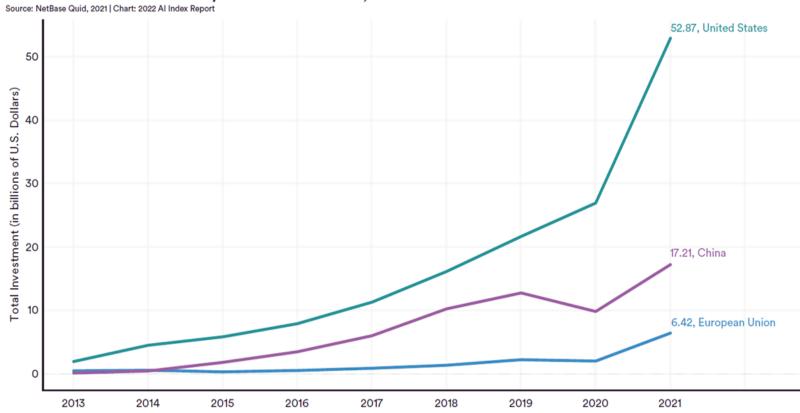


Nicolas Garcia, IDEMIA



### Private investment in Al by geographic area (Artificial Intelligence Index Report 2022 – Stanford University)

#### PRIVATE INVESTMENT in AI by GEOGRAPHIC AREA, 2013-21





## **Center for Security Studies** (KEMEA) - Activity information

- Identifying end-user/operational needs and security systems requirements
- Legal Team specialized in Ethics analysis and processing legal aspects of innovative technological security solutions
- 3. Flight Support Team (pilots, technicians), drones (area mapping, 3D modelling, detection)
- 4. Team of spatial and statistical analysis of geographical data and information
- 5. Communication & Dissemination Team
- **6. Vulnerability & Risk assessment Team** for critical infrastructures and public spaces security
- 7. Specialized Team for Planning and Evaluation of demonstrations, pilots, table-top and field-testing exercises
- 8. Team of wireless telecommunications and anti-drone solutions
- 9. Technology Team for border surveillance
- **10.** Natural hazards and Disaster Risk Management Team



- 1 Institute of International Network and the study of extremism and terrorism
- 2 Critical Infrastructure Protection
- 3 Emergency Management & Civil Protection
- 4 Cyber security





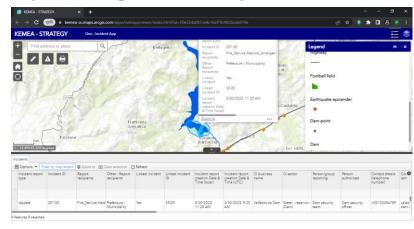
# Critical Infrastructure Protection & Procurement activities

National
Contact Point
for ECIs

Dir. 2008/114 Dir. 2022/2557

Lead Procurer for PCP/PPI projects

- ➤ Pilot Coordination Center for CIP: GIS platform, national database for CIs, incident situational reporting (CWA 18024:2023)
- ➤ Table-top exercises: CI operators emergency response organization public authorities



- ➤ The means to put in application and make operational innovative R&D solutions in need for Cls resilience upgrade
- Addressed to CI operators (PCP) & public emergency agencies (PPI) with tailormade innovative solutions financially supported by the EC



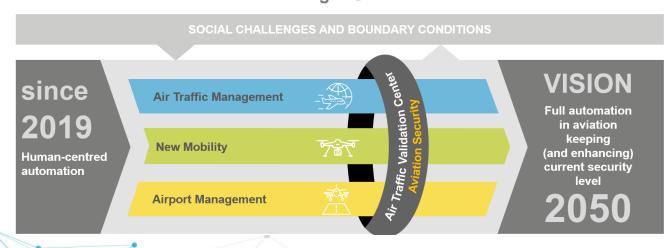




Project Management Agency: ~1.1 billion euros (funded projects by the federal or state governments)

# ■ 10,000 employees work in 55 institutes and facilities. ■ Offices in Brussels, Paris, Tokyo and Washington D.C. Braunschweig site ■ Employees: around 1200 ■ Area: 170,000m² ■ Institutes and installations for: ■ Aerodynamics and flow technologies ■ Lightweight systems ■ Flight guidance

#### Research focus of the Institute of Flight Guidance



Over 30 DLR institutes contribute to development, testing and evaluation of security and defence-related technologies. E.g.:

Institute of Flight Guidance

Flight systems

Transportation systems

Software technology

Flight experiments and design organisation

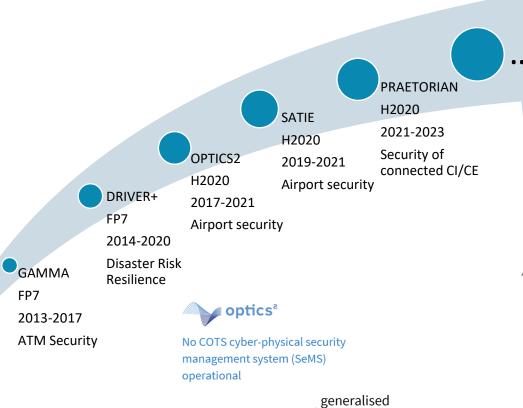
- Institute for AI Safety and Security
- Institute for the Protection of Maritime Infrastructures
- Institute for the Protection of Terrestrial Infrastructures
- Institute of Technical Physics
- Responsive Space Cluster Competence Center (RSC3)

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## The way to foster security of CI/CE

Current market solutions and practitioners needs



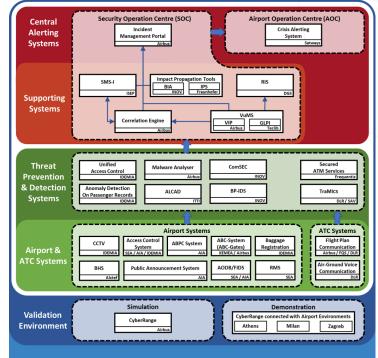
2030

Holistic cyber-physical and hybrid security solutions for single and interconnected CI/CE

- Adaptable
- Intuitive decision support
- Intuitive human machine interfaces
- Validated with end-user participation
- Operationally available



## **PRODUCT**



#### **FEATURE**

Modularity allows to connect any imaginable sensor as well as systems (e.g. drones)
All phases of threat can be handled
System is capable to "learn on the job"

H2020 project OPTICS2 (CSA project) states:

- Common Aviation SeMS operational: Does not formally exist.
- Common Transport SeMS operational: Does not formally exist.
- Operational aviation security is one of the TOP SECURITY RESEARCH PRIORITIES

http://www.optics-project.eu/





#### Collins Aerospace







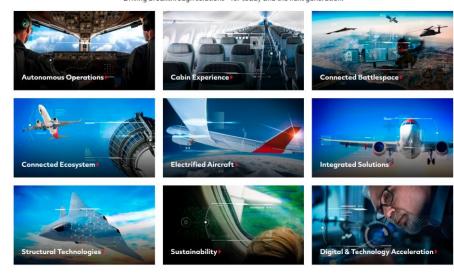




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\$23.1B
2022 originated soles

see Supplementary

su

#### Sales portfolio





LOCATIONS

CEDAR RAPIDS, IA





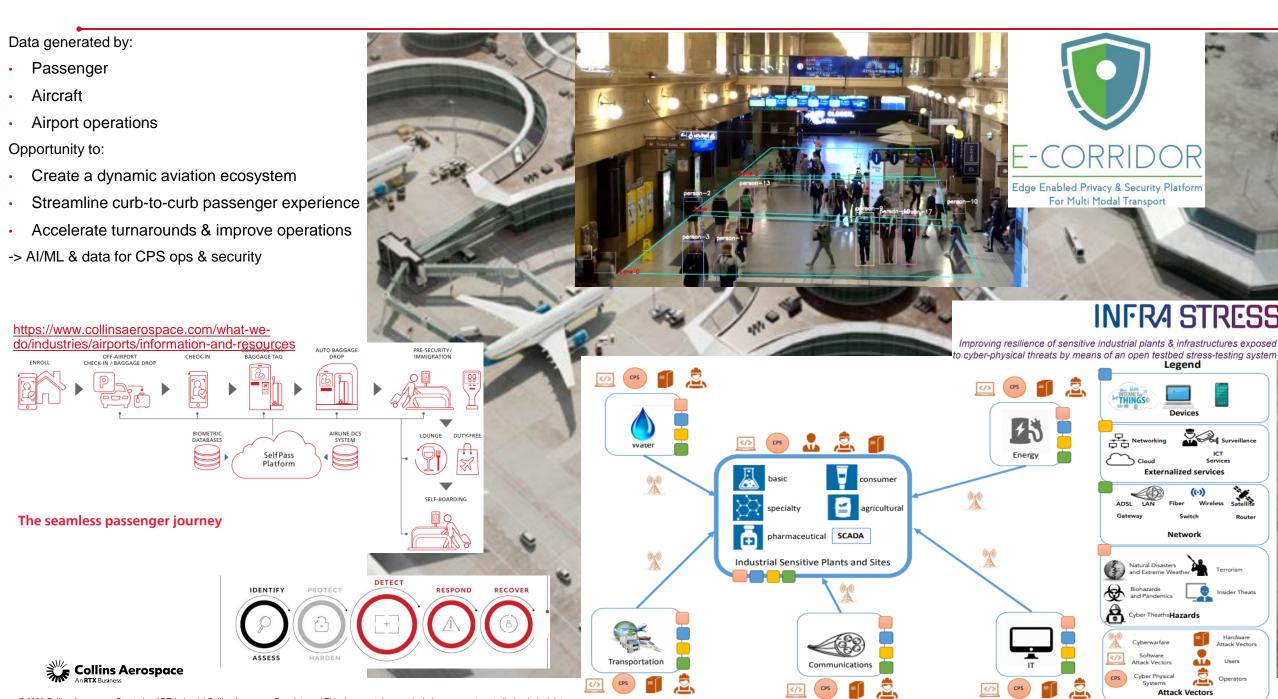
BANGALORE

~200 employees

~50% Ph.D.

>20 nationalities





## IDEMIA, LEADER IN IDENTITY TECHNOLOGIES



Unlock the world, make it safer





## **CYBERSECURITY**

The game changer









2021 cost for ransomware: € 20 billion (\*)

#### Country GDP in 2025 (in billion USD)\*\*

Rank	Country	GDP
1	USA	28,766
2	China	22,408
3	UE	17,264
4	Cybercrime	10,500
5	Japan	4,731







Protection of valuable assets
Access Control



#### **Product manufacturer**



Features
Design processes
Security by Design &
by Default
Biometrics





Recommendations Regulations











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