

Shared Trans-Organisational Risk Management

Stéphane Plichon Cybersecurity in Aviation Expert

15 November 2018

Your safety is our mission.





Where we are without Risk Management!



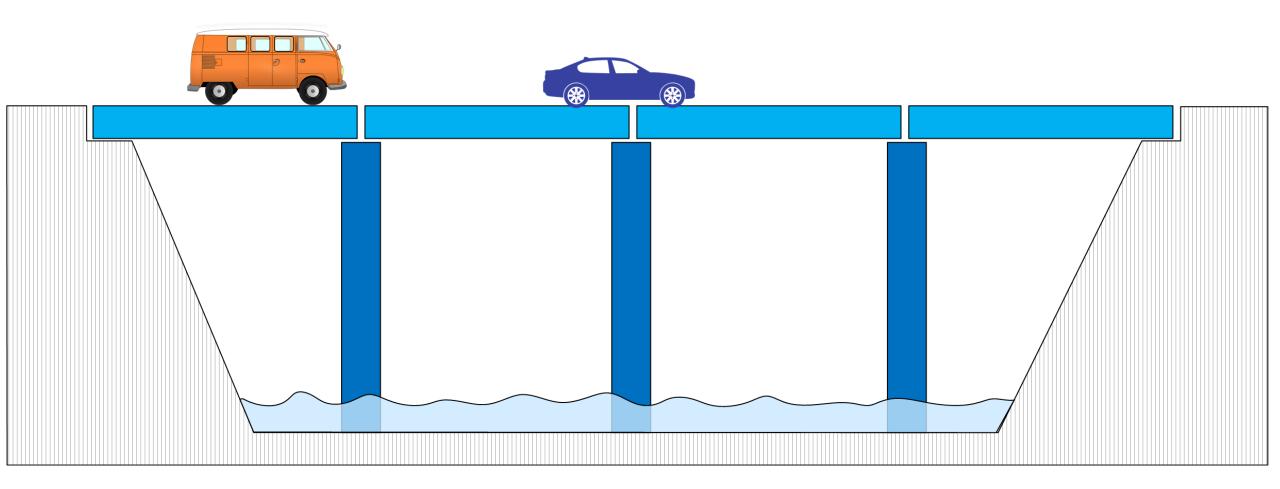


Where we are with stove piped risk management





The functional chain



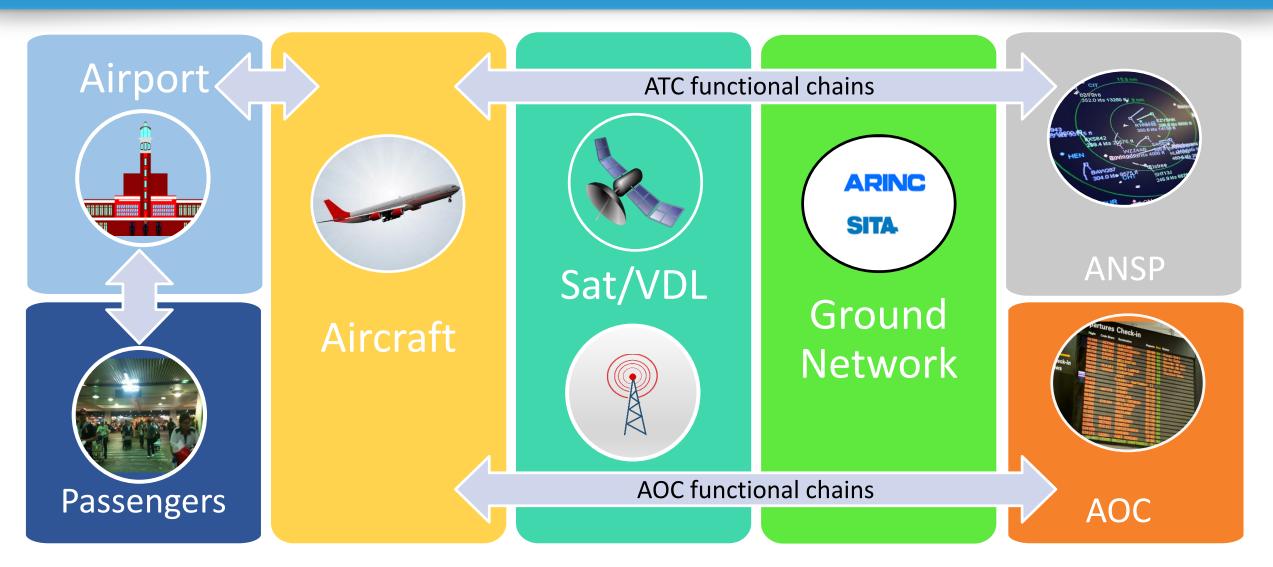


The functional chain in aviation





The global landscape – Combined perspective





4 meetings organised between March and September 2018

- Revealed the variety of risk management approaches
- Highlighted the necessity of finding convergence strategy

The way to convergence

- Adoption of a statement of work
- Defining two sub-groups to deliver risk assessment foundations
- Demonstrate capacity to communicate on shared (safety) risks

SG1

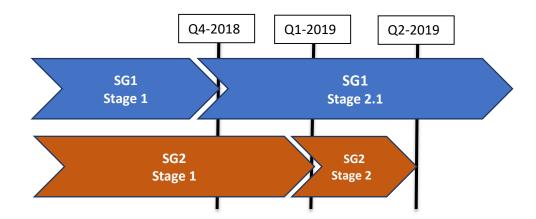
Define the risk assessment baseline

- Common terminology and comparability criteria
- Unified impact, risk, threat level scales
- Leveraging commonalities in existing standards

SG2

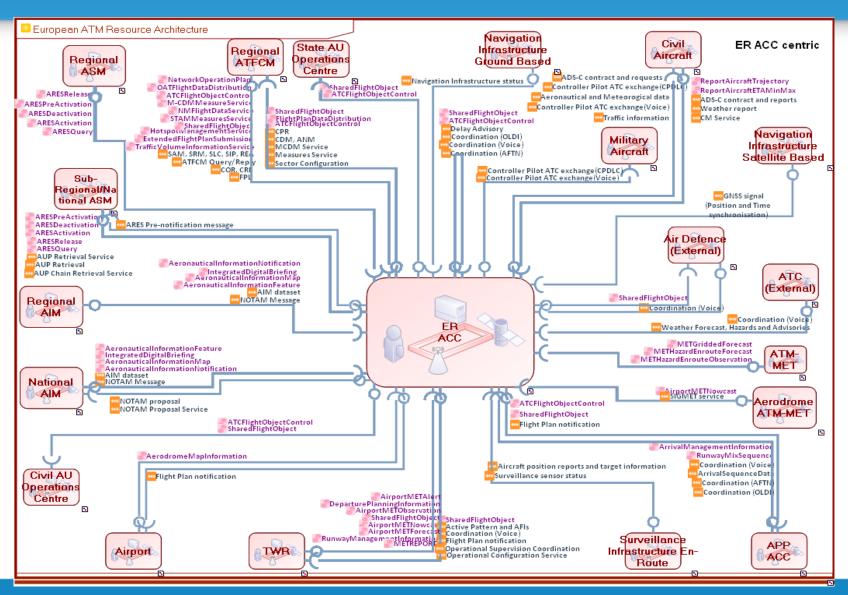
Identify the safety related functional chains and corresponding threat scenarios

- Use EATMA
- Threat modelling
- Map output from SG1 to assets



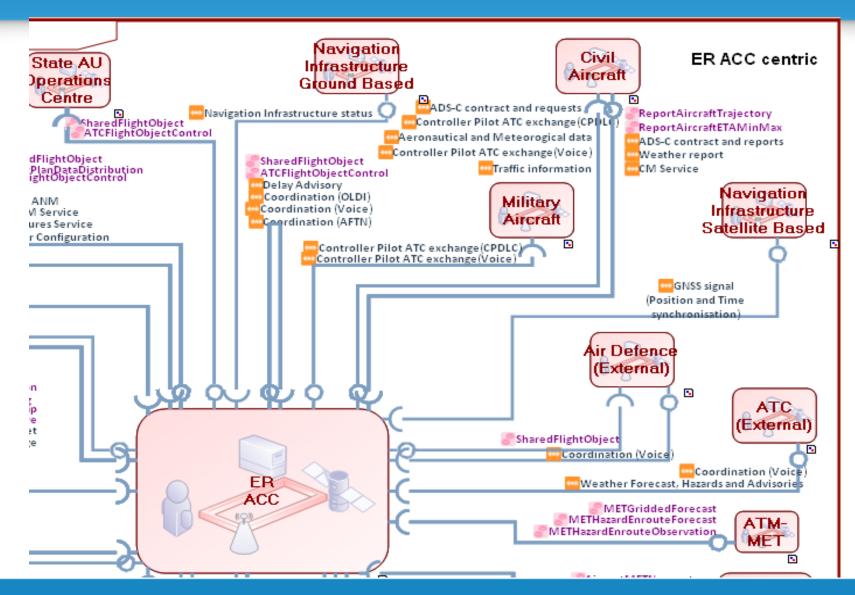


EATMA example: En Route ACC and associated services





ER ACC ⇔ Civil aircraft





The challenge of risk management in Civil Aviation

1

The Coherence of Risk Assessments

- Coherence of vocabulary
- Coherence of metrics (impact, risk scales,...)
- Coherence of risk definitions

2

The Comparability of Risk Evaluation

- Being able to compare risk levels
- Important for regulators and authorities
- Crucial for airlines and manufacturers

3

The Commonality of Risk Acceptability and Sharing

- Risks induced by interfaces
- Common approach to risk treatment
- Sharable risks are safety risks
- Residual risks