



Finnish Transport and Communications Agency

Cybersecurity in Aviation

Katunayake Sri Lanka
5-7.2.2020



Workshop ONE: Cybersecurity From the Global Aviation Perspective

- Aviation is a global ecosystem, similar risks everywhere
- Local specialities
 - Environment, governance, culture etc.
- Limited resources and expertise
- ESCP & Finland

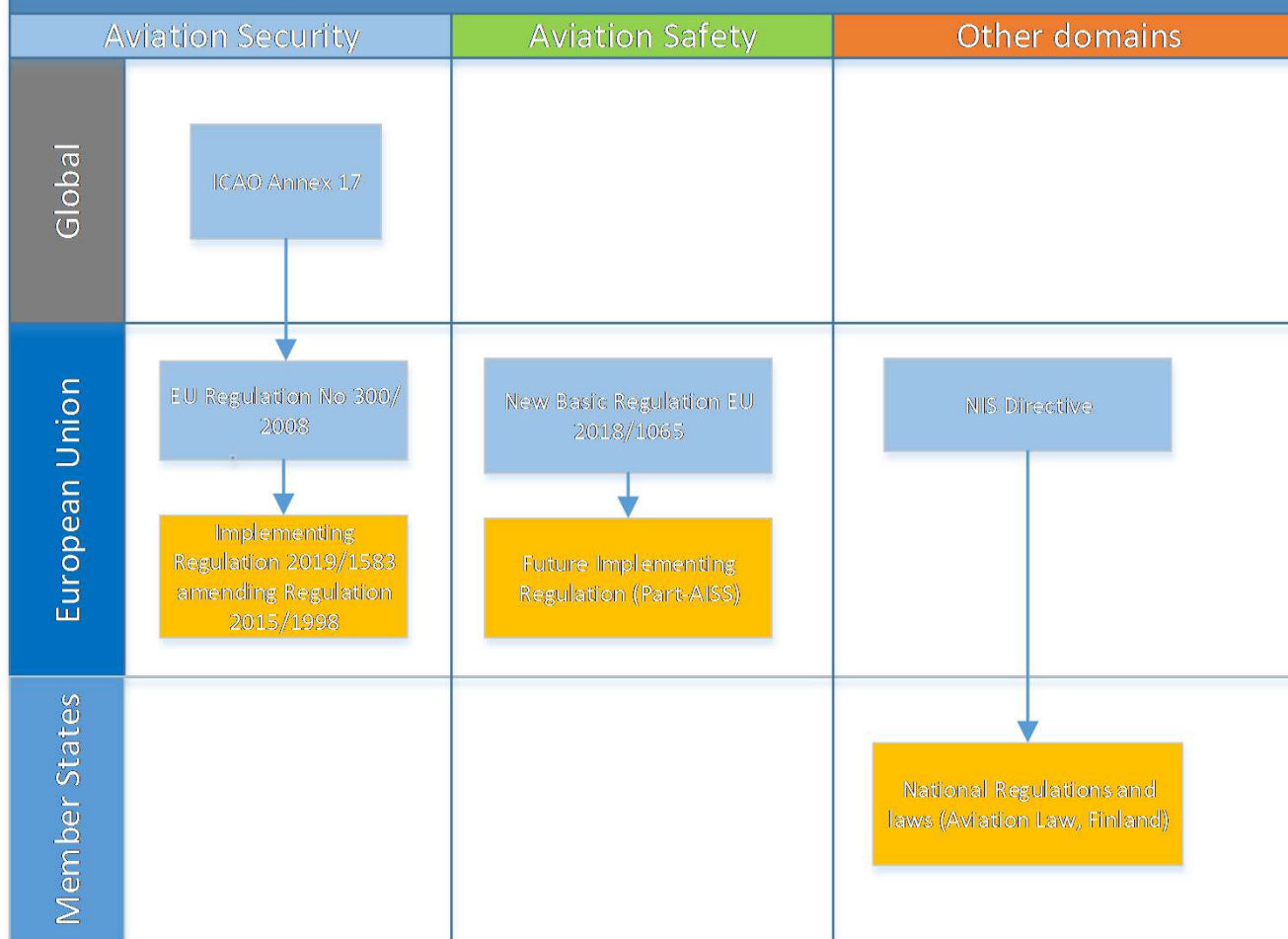


Workshop THREE: The Implementation Plan for the Cybersecurity Strategy

- Strategy & implementation plan as an asset
 - The Pillars as building blocks at regional and national level
- At national level:
 - policy
 - governance model
 - Risk management
 - Information sharing
 - Incident management
 - Capacity building, training and awareness



Cybersecurity in Aviation, High Level Legal Framework



Workshop FIVE: Information Security Management System (ISMS) and coordination with other Regulatory Frameworks

- Several cyber regulations
 - Cybersecurity for: aviation safety, aviation security, society
 - Information security management as a common thread
- CAA-FI is the Competent Authority for civil aviation cybersecurity in Finland
 - Interactive collaboration with
 - Ministry, agencies, authorities and organizations
 - Aim to leverage existing strong safety & security culture
 - Integration of management systems: SMS (Safety Management System, Security Management Systems and Information Security Management System)
 - Holistic approach over different aviation domains



Workshop SIX: Introduction to Risk Management Aspects

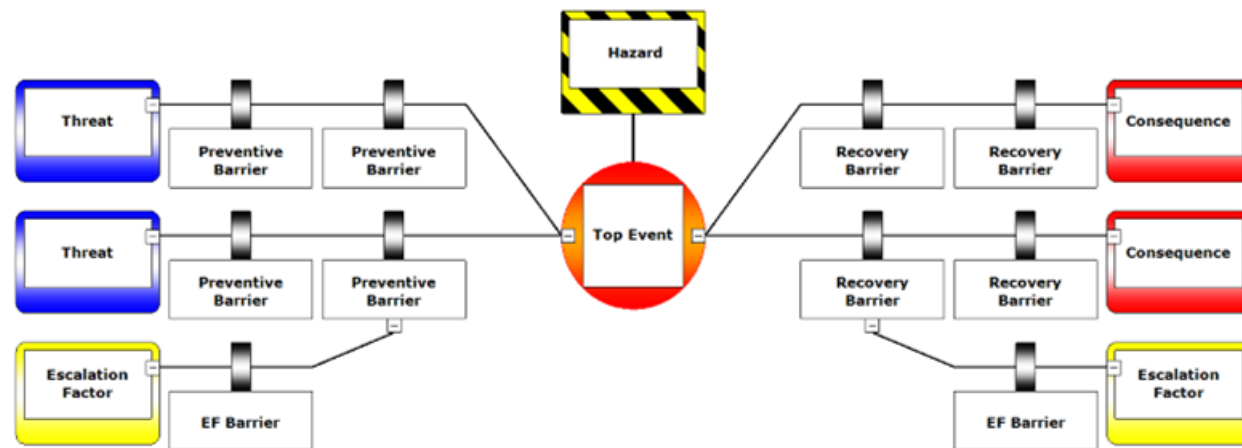
- Information security risk management in the safety context
 - Coordination between aviation security, safety and information security experts is a key



Workshop SIX: Introduction to Risk Management Aspects

– Different levels in risk management Short case study

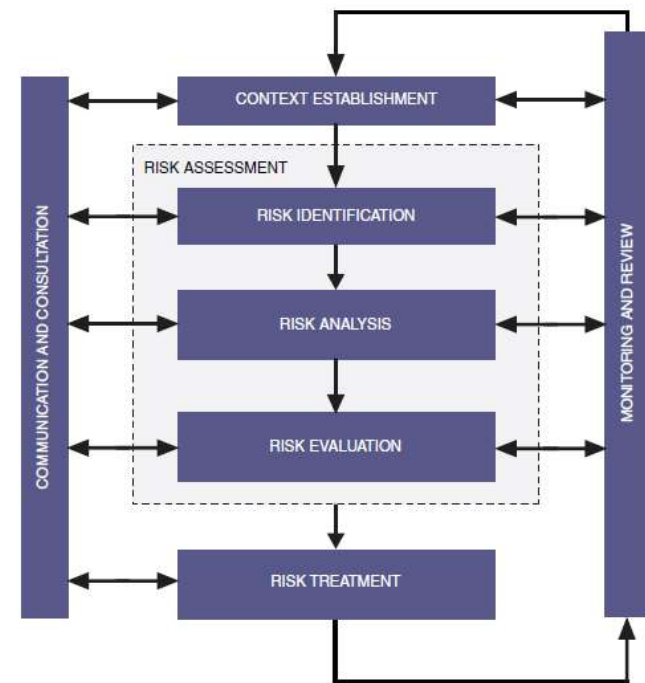
- National level
- All aviation domains
- Key strategic organization
- NCSC-FI
- No standards available



Workshop SIX: Introduction to Risk Management Aspects

– Different levels in risk management Short case study

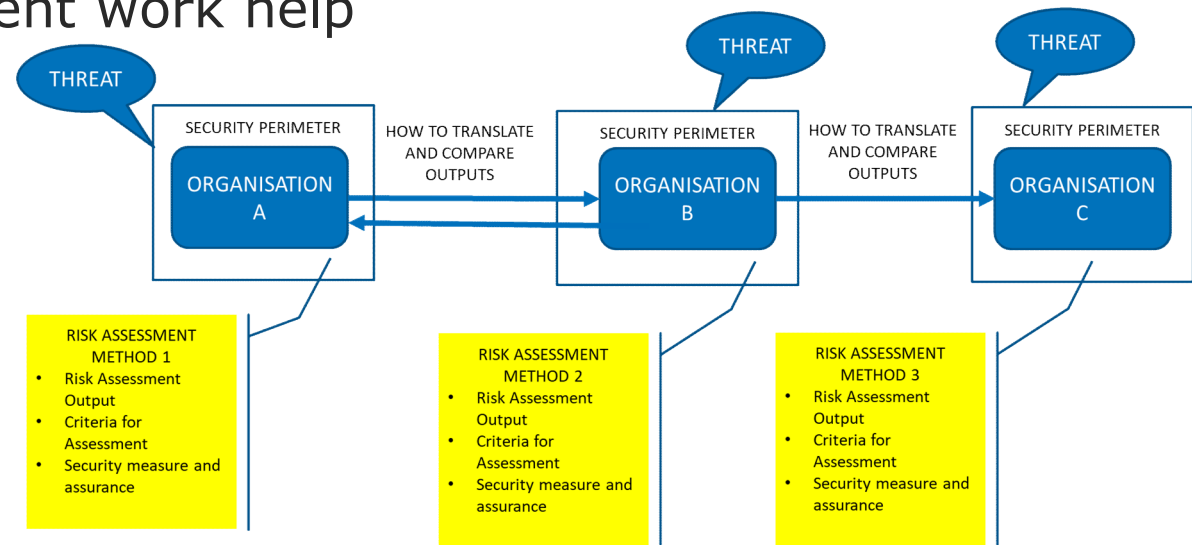
- Organizational level
- Law standards



ISO 31000 / 27005

Workshop EIGHT: Introduction to the Sharing of Information

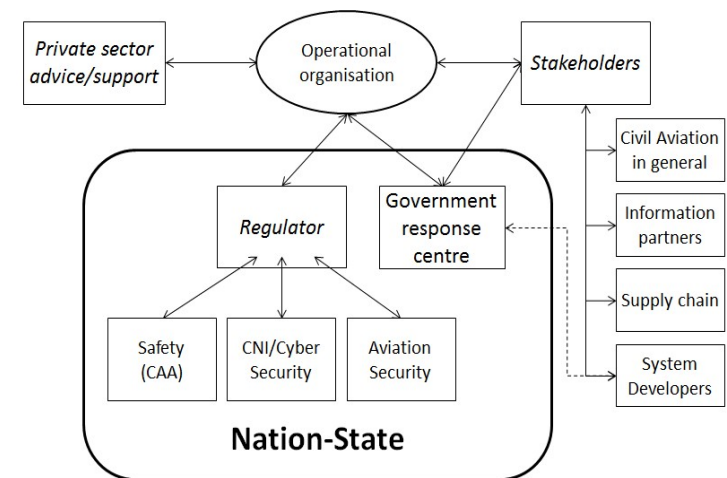
- Proactive: threat intelligence, vulnerability information
- National level risk management work help organizations to understand interdependencies



Picture: ED-201a?

Workshop EIGHT: Introduction to the Sharing of Information

- Reactive: incident response information
 - Collaboration when something is not right
 - Information sharing mechanism
 - What, when, with whom and how to should information be shared



ECAC Cyber Study Group in Civil Aviation: Guidance material,
Information sharing relationships from the **national** perspective

Workshop NINE: Sharing of Operational Information (SOC, CERT, CSC, ISAC)

- Reactive: Incident response information
 - Continuous monitoring and quick incident response
 - Detect, respond and recovery
 - How to make right information available at right time at right context?





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tomi.salmenpaa@traficom.fi

www.traficom.fi

@TraficomFinland

