

Direction Générale de l'Aviation Civile

The European Strategy for Cybersecurity in Aviation



My first Ideas on an ESCP Strategic

Approach

ICAO

European Bodies

States

Operators

Manufacturers

Development
Cycle

Cybersecurity by
Design

Responsibilities

Awareness

Cyberculture

Investigation,
Analysis,
Feedback

Combining
Cyber& Safety

Horizontal Rule-
making

Articulating with
NIS

Trust framework

Contingency &
Emergency Response
Planning

Change
Management

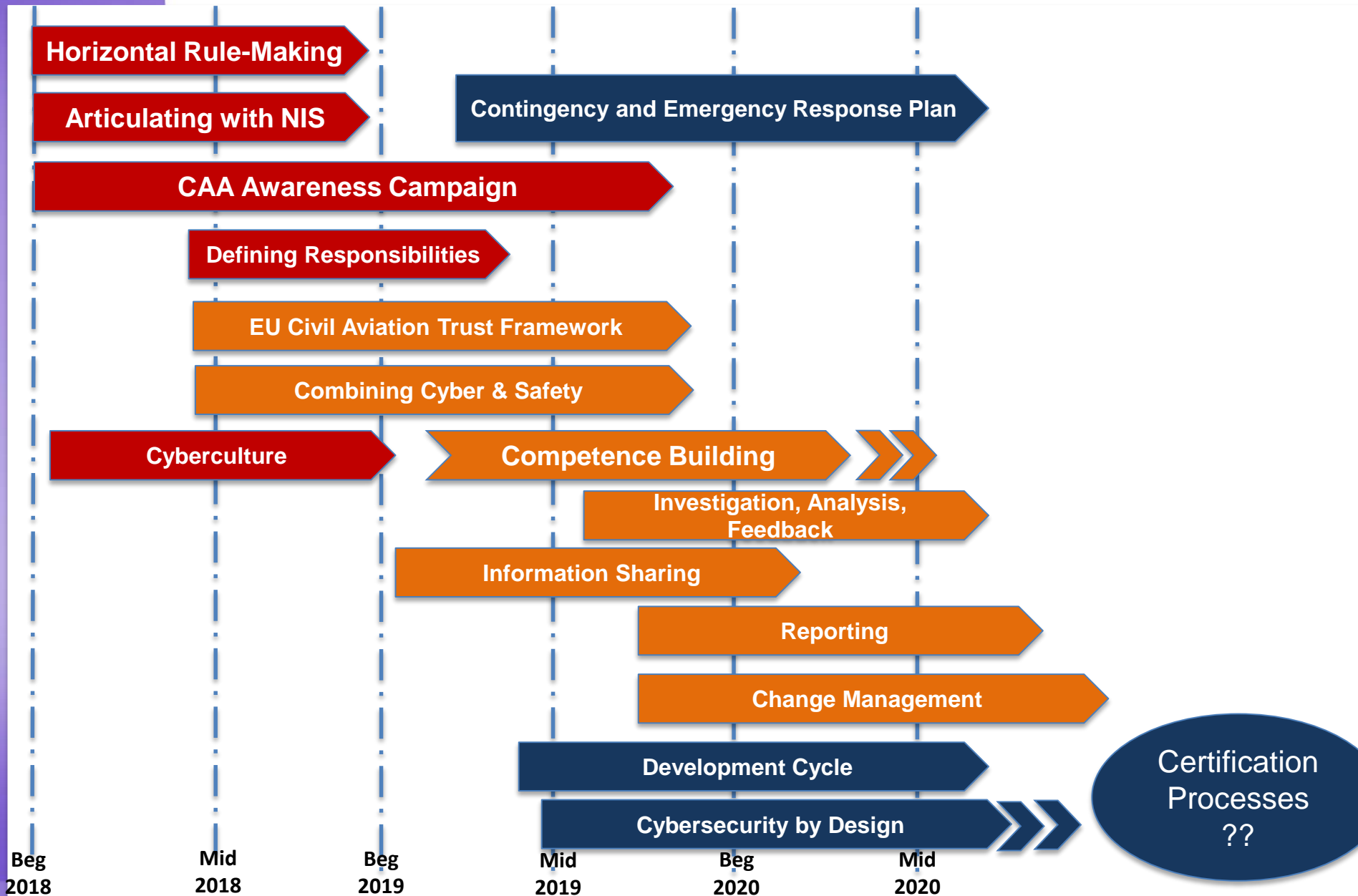
Competence
Building

Information
Sharing

Reporting

Best Practices

A possible ESCP Roadmap





Elements for Strategy Framework



The strategy will include, among others, actions in the following areas:

Information sharing

Research and studies

Event investigation and response

Knowledge and competence building

International cooperation and harmonization

Regulatory activities and development of Industry Standards

- RMT.0720: Develop a cybersecurity regulatory framework covering the different domains
- RMT.0648: Introduce cybersecurity provisions in certain Certification Specifications
- Info Sharing: Establishment of a European Centre for Cyber Security in Aviation (ECCSA)
- Research/Studies: Develop a vulnerability DB collecting, maintaining, and disseminating information about discovered vulnerabilities targeting major transport information systems.



The ESCP Strategy Structure

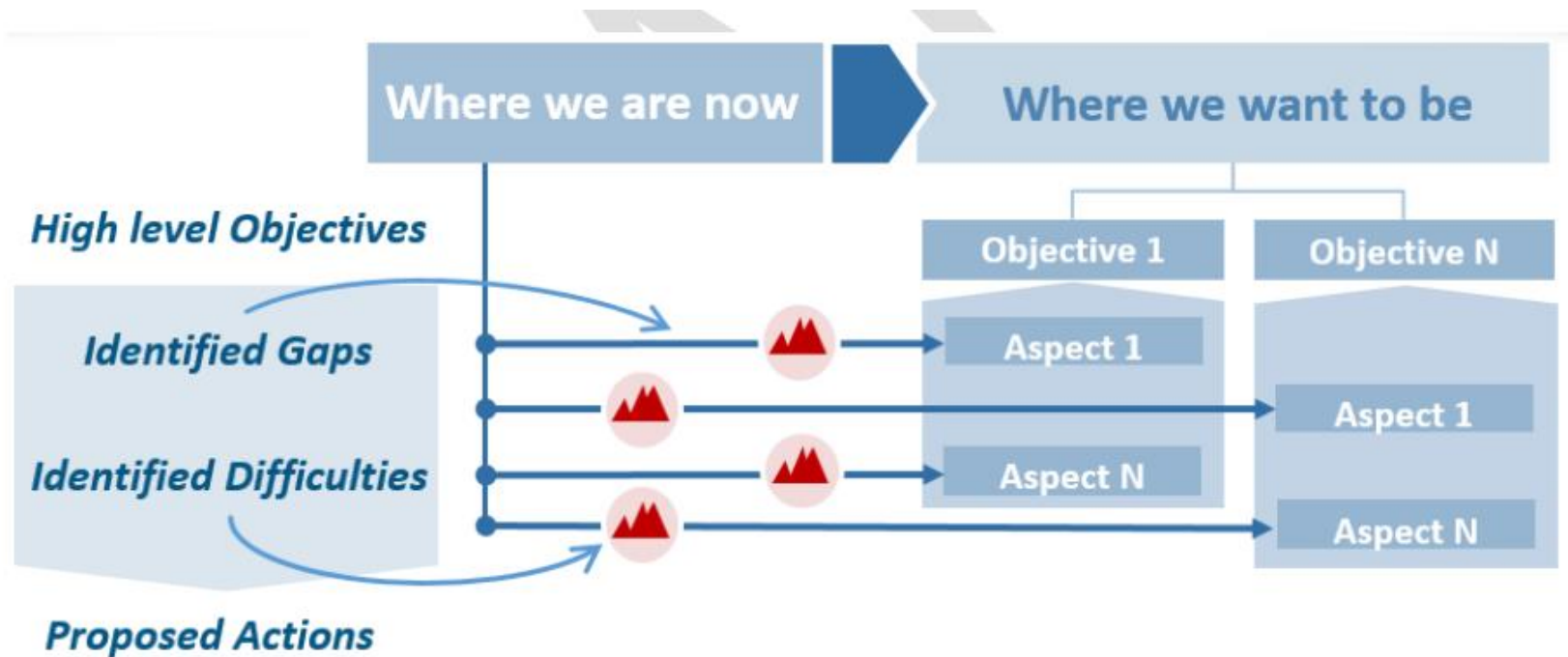
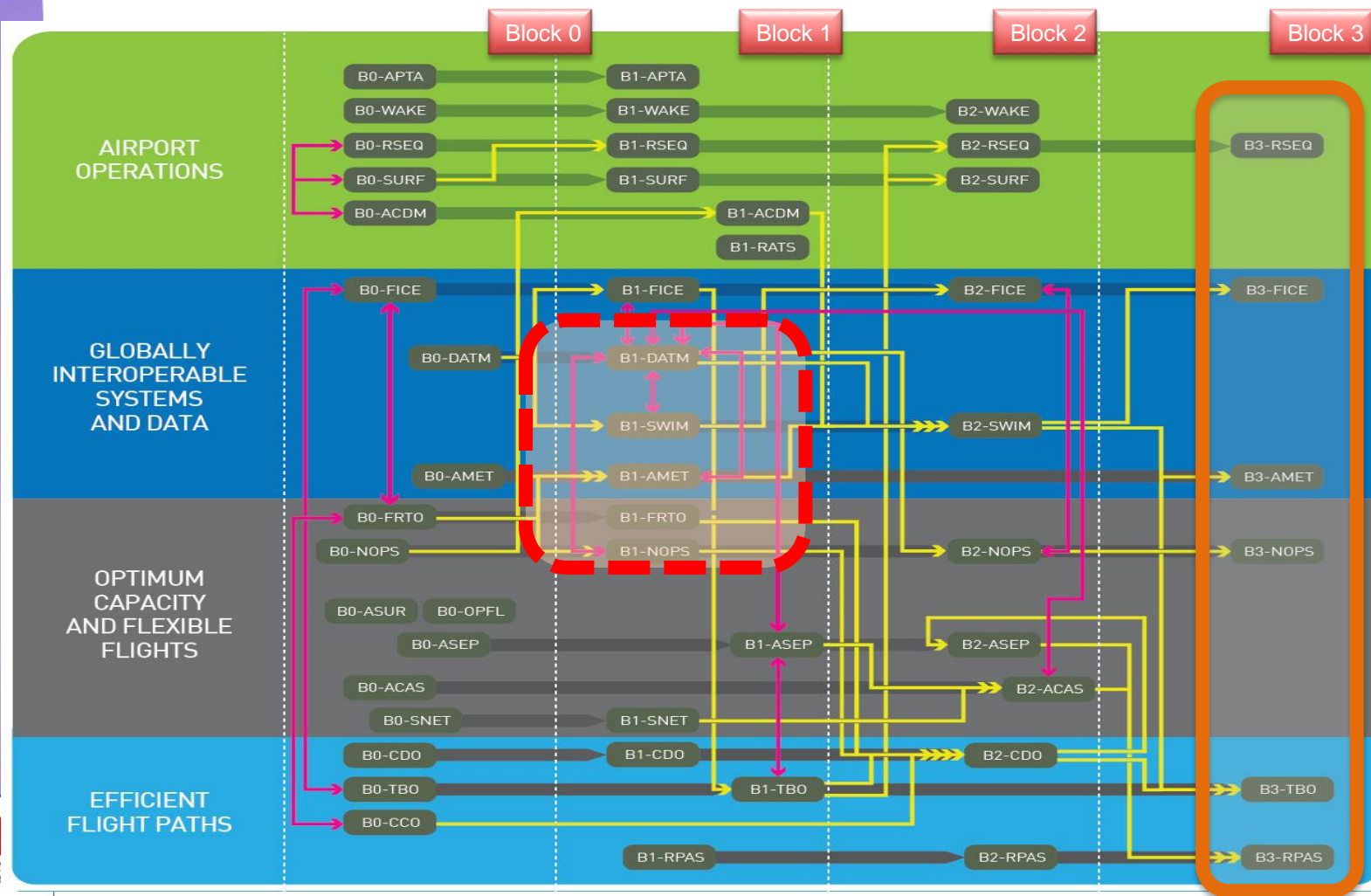


Figure 1 – process followed to elaborate the strategic plan.

Future Systems: Key Role of Information Management



We need a real Global Strategy for Cyber !!

To be integrated in all activities

Data Communication

Detailed path to convergence

Information Management

Need for an overall Global Strategy

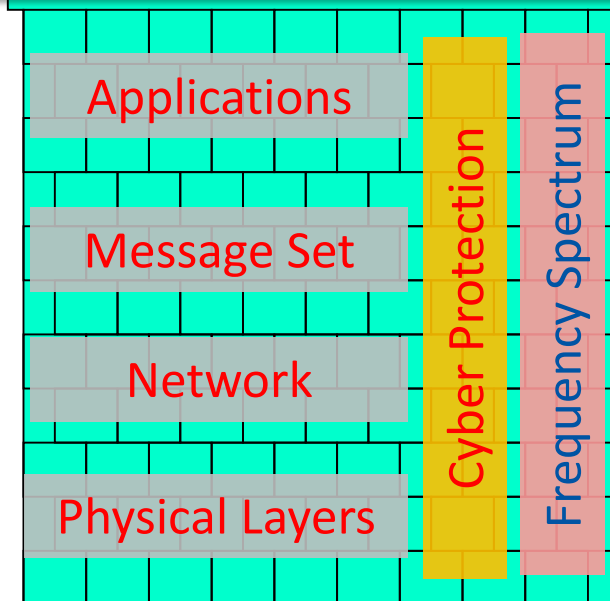
Governance issues

Regional or Sub-regional Services

Modularization of Enabler Roadmaps

Detail the path for convergence

Cyber shall be part of the Data Link Strategy



Timeliness and Multiple Actors

Performance of the aviation system depends from the capacity of actors to act in cohesion

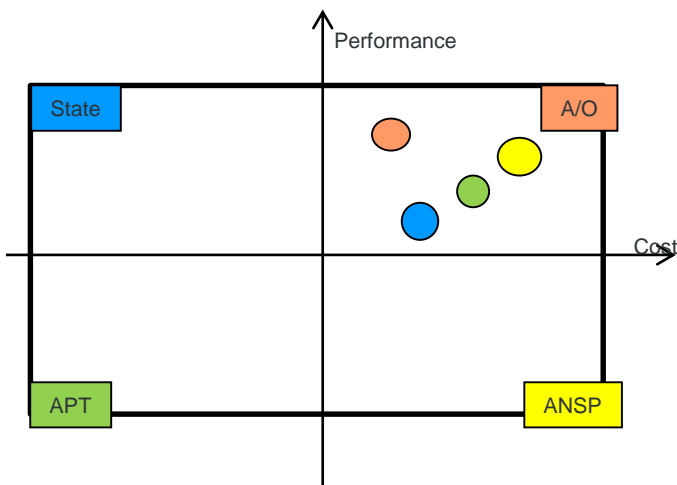
Aircraft Manufacturing: 15 Y+ 30Y life time

Rule Making process: 2 Y

Buy, Train, Operate: 3 Y

Buy, Train, Operate: 5 Y

Buy, Train, Operate: 3 Y



A real need for a coordinated Approach
Actions from all for a global or common benefit



The Global Regulatory Context

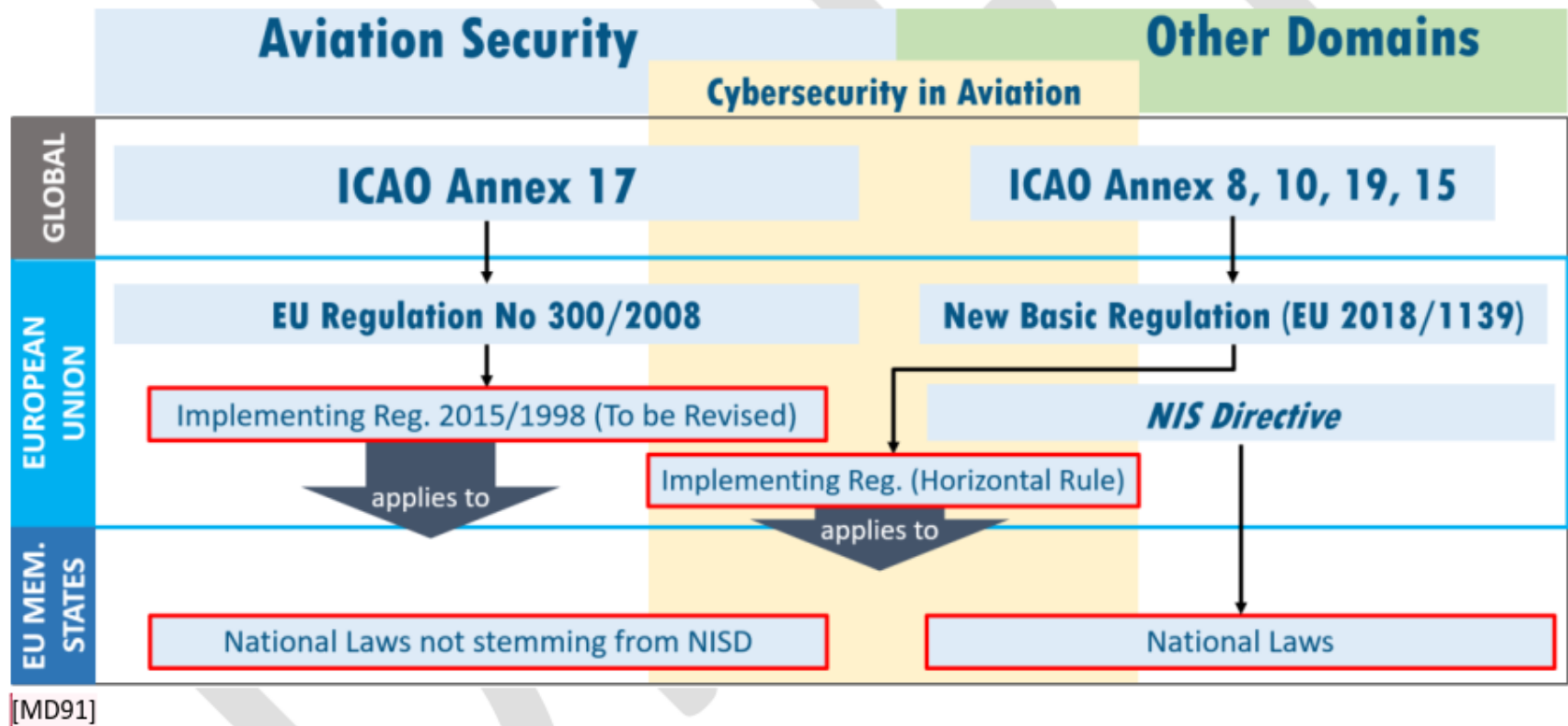


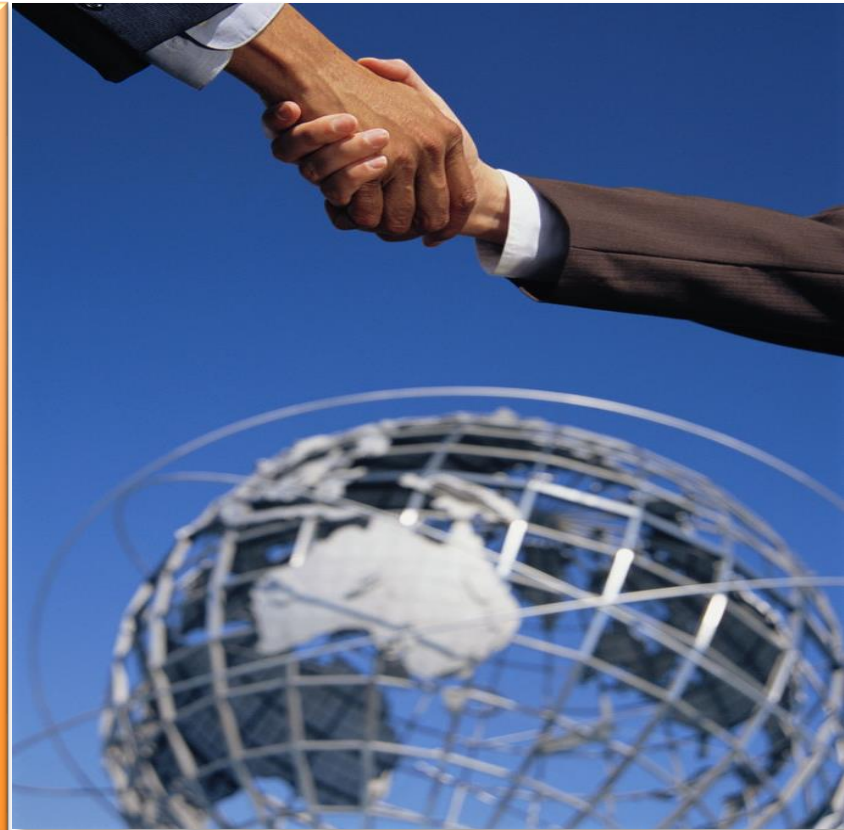
Figure 2 – cybersecurity in aviation high level legal framework [MD92] [MD93]

Working together is needed!

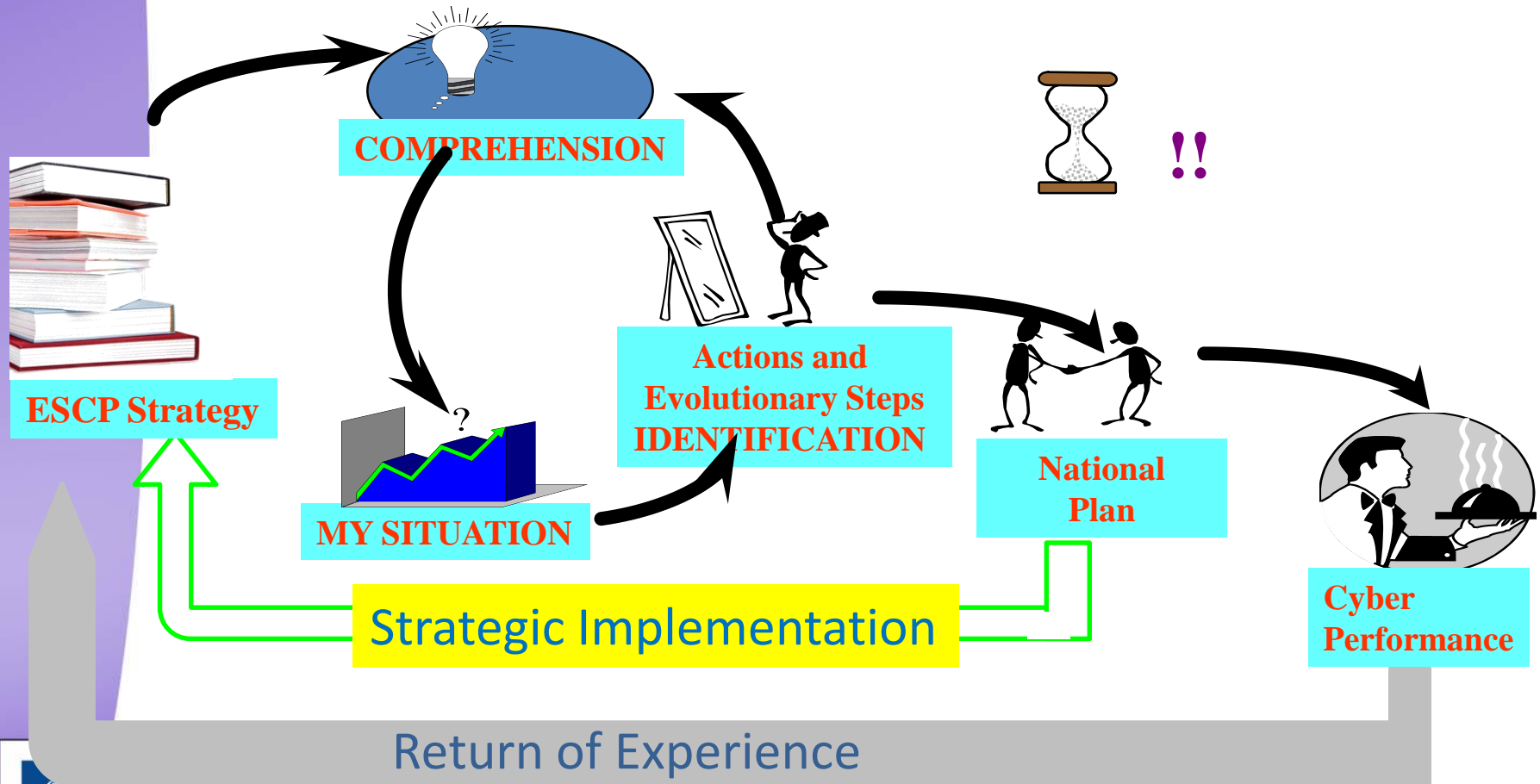
- ICAO
- EASA European Strategic Coordination Platform
- DG Move, ECAC
- ENISA
- Industry Standards
- National Security Agencies

⇒ Global Standardization Roadmap and

⇒ a Global and interoperable Approach!!!



What is for me in the ESCP Strategy?



Thank you for your attention



STAC

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