

PART-IS regulation Understanding specific provisions

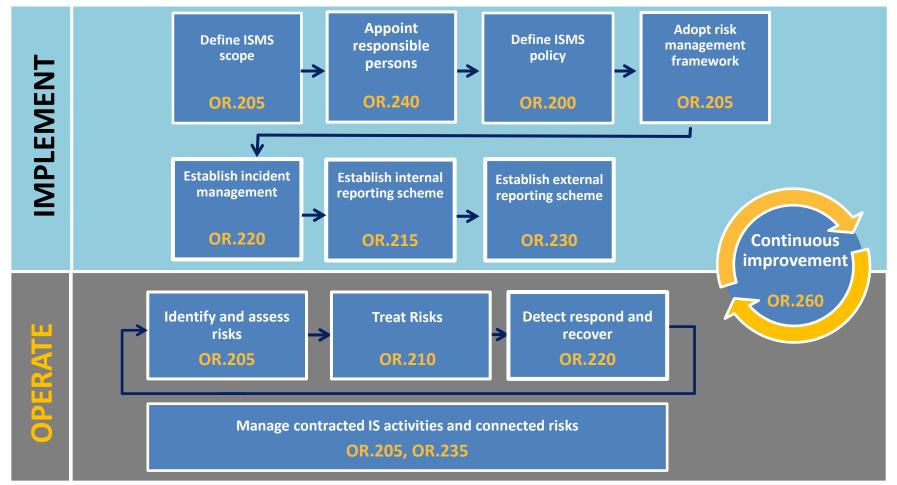
Davide Martini Senior Expert – Cybersecurity in Aviation *Cybersecurity in Aviation & Emerging Risks* AESA Workshop on Cybersecurity in Aviation, Madrid 07/05/2024

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ISMS EVALUATION AND CONTINUOUS IMPROVEMNT







AR.235/OR.260

IR	 Identify adequate performance indicators Assess effectiveness and maturity of the ISMS Ensure risks remain at an acceptable level Take necessary improvement measures, if needed
AMC	 Continuously improve the effectiveness, suitability and adequacy of ISMS Assess ISMS proactively and systematically, including its maturity Consider outcomes/conclusions of other information security and assurance processes
GM	 Assurance processes for ISMS are equivalent to safety assurance (Doc 9859) Include performance monitoring & measurement, management of change and continuous improvement ISMS needs to be continuously monitored and improved



One input is Compliance Monitoring

→ Internal audits, at planned, regular intervals

→ Include a feedback of audit findings to the accountable manager for assurance

→ Triggers corrective actions, as necessary

→ Includes the execution of independent Audits





Continuous Improvement – Two Reasons

Organisation

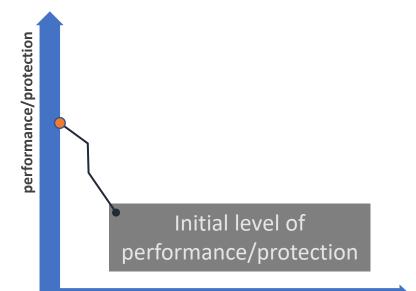
Dynamic adaptation to the evolution and change of the objectives, architectures, organisational structures and processes of an entity, which are reducing the level of compliance

Security Environment

Dynamic adaptation to constantly emerging discovery of vulnerabilities, threat actors, tools and methods, which are reducing effectiveness of controls



Continuous improvement

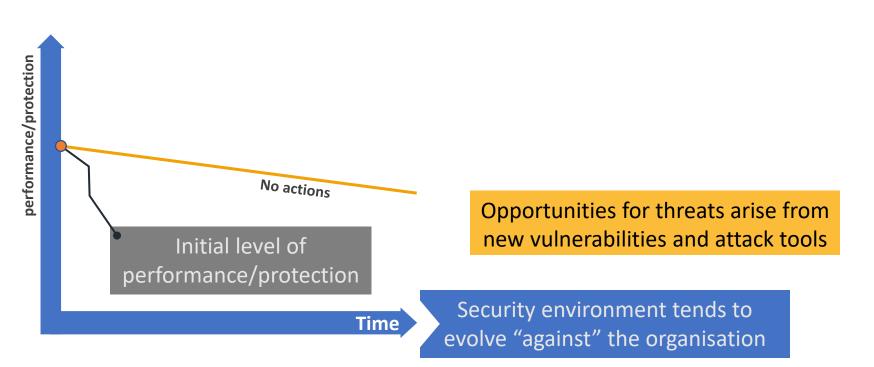


Time

Security environment tends to evolve "against" the organisation



Continuous improvement





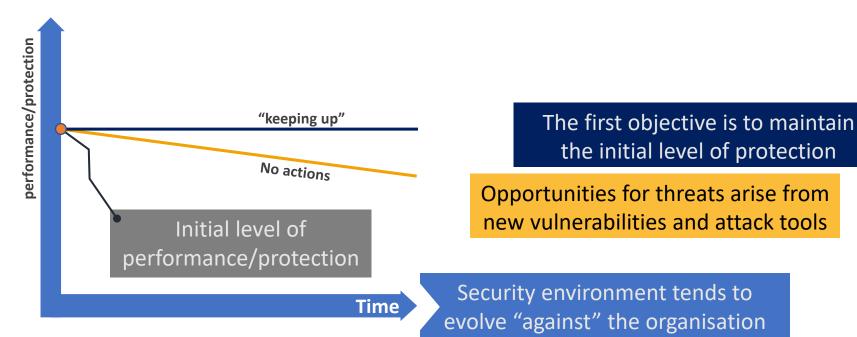
Security Risk Acceptability Matrix

Risk Level	Threat Condition Severity of Effect				
Level of Threat	No Effect	Minor	Major	Hazardous	Catastrophic
Very High			Unacceptable		
High					
Moderate					
Low					
Extremely Low				*	



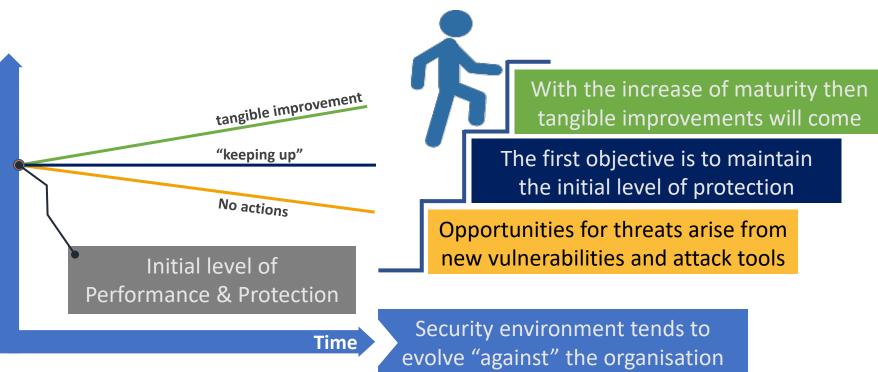
This is a non-normative example

Continuous improvement





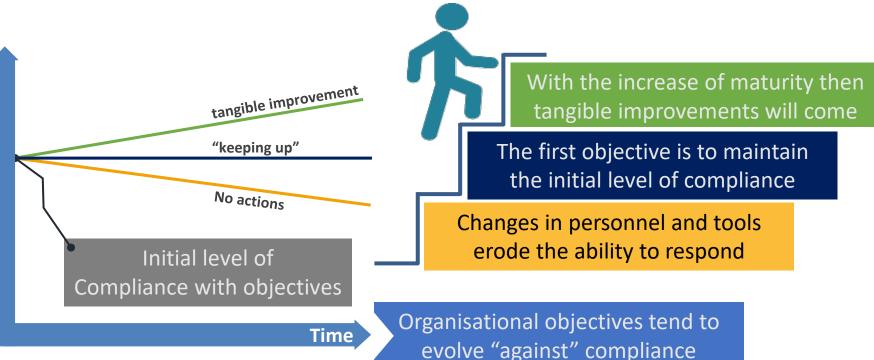
Continuous improvement – Security Environment





Continuous Improvement – Organisation







Current and future standards for Part-IS

2018	NIST Cyber Security Framework v1.1
2022	ISO/IEC 27001
2021	ED-201A/DO-391A - Aeronautical Information System Security Framework Guidance
2014	ED-202A/DO-326A - Airworthiness Security Process Specification
2022	ED-206 - Guidance on Security Event Management
2024	ED-20X/Do-3xx – ISMS for aviation organisation
ZEASA	

Current and future standards for Part-IS

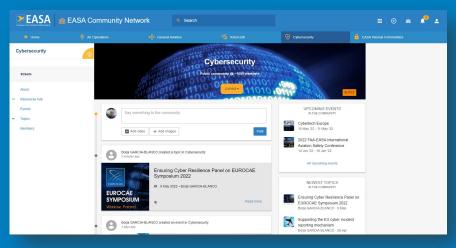
2024	ED-20X/Do-3xx – ISMS for aviation organisation
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Thank you!

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