

INTERCONNECTED SAFETY AND SECURITY RISK MANAGEMENT



RESEARCH STUDY ON THE IMPACT OF SECURITY MEASURES ON SAFETY

EASA was actively collaborating with a consortium to examine the impacts of Security Measures on Safety. The fourth task of this study focused on interconnected risk management and a more holistic, collaborative approach to policy development. It also assessed safety mechanisms, methods, and tools that support the effective implementation of security measures.

Here are some of the key findings:

SAFETY TOOLS THAT MAY CONTRIBUTE TO SECURITY

26 tools identified mapped to ICAO Annex 19 SMS pillars, including:

- 1**  **Bowtie Risk Analysis**
Value: Risk visualisation | Collaboration | Integration of safety and security
- 2**  **Root Cause Analysis**
Value: Problem identification and resolution | Continuous improvement | Collaboration across teams
- 3**  **Human Factors Training**
Value: Enhancing culture | Reducing human error | Improving human performance



CURRENT RISK MANAGEMENT CHALLENGES IN SAFETY AND SECURITY

What stakeholders told us:



- **Standardisation gaps exist between organisations.** (in application of risk matrices and use of terminology)
- **Intelligence/information sharing can be a barrier.** (classified vs non-classified data)
- **Better integration or high-level alignment between safety and security risk management would be valuable.**
- **There is a need for improved industry guidance and best practice sharing.**

PROPOSED TOOLS FOR INTERCONNECTED RISK MANAGEMENT

These proposals are drawn from our findings:

6 tools proposed that can support interconnected risk management:

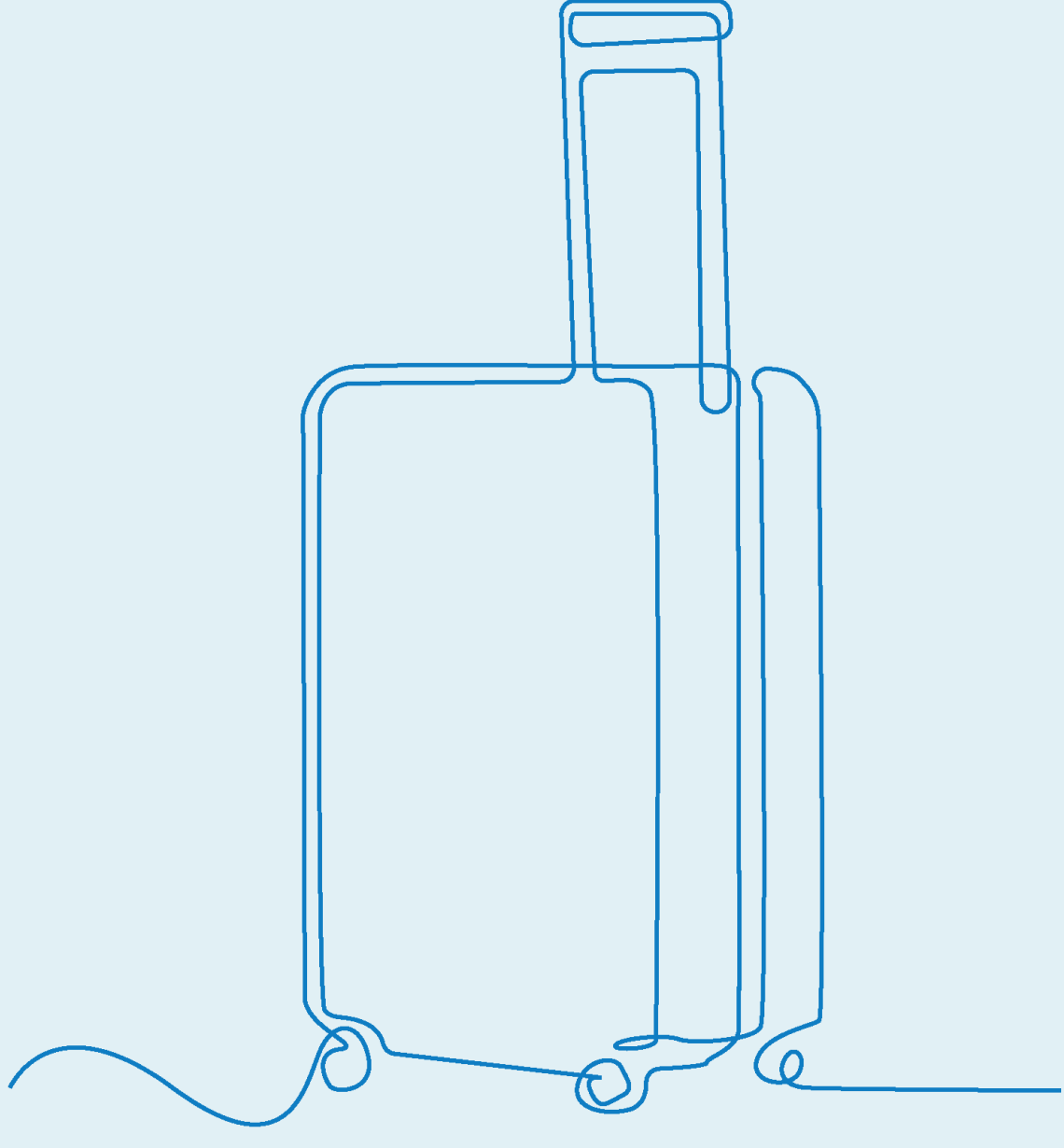



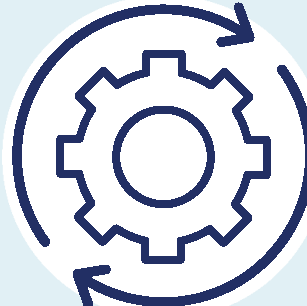
3 **core tools:**
Interconnected bowtie | High-level risk register | Integrated hazard log

3 **enabling tools:**
Terminology alignment | Training syllabus | Communication



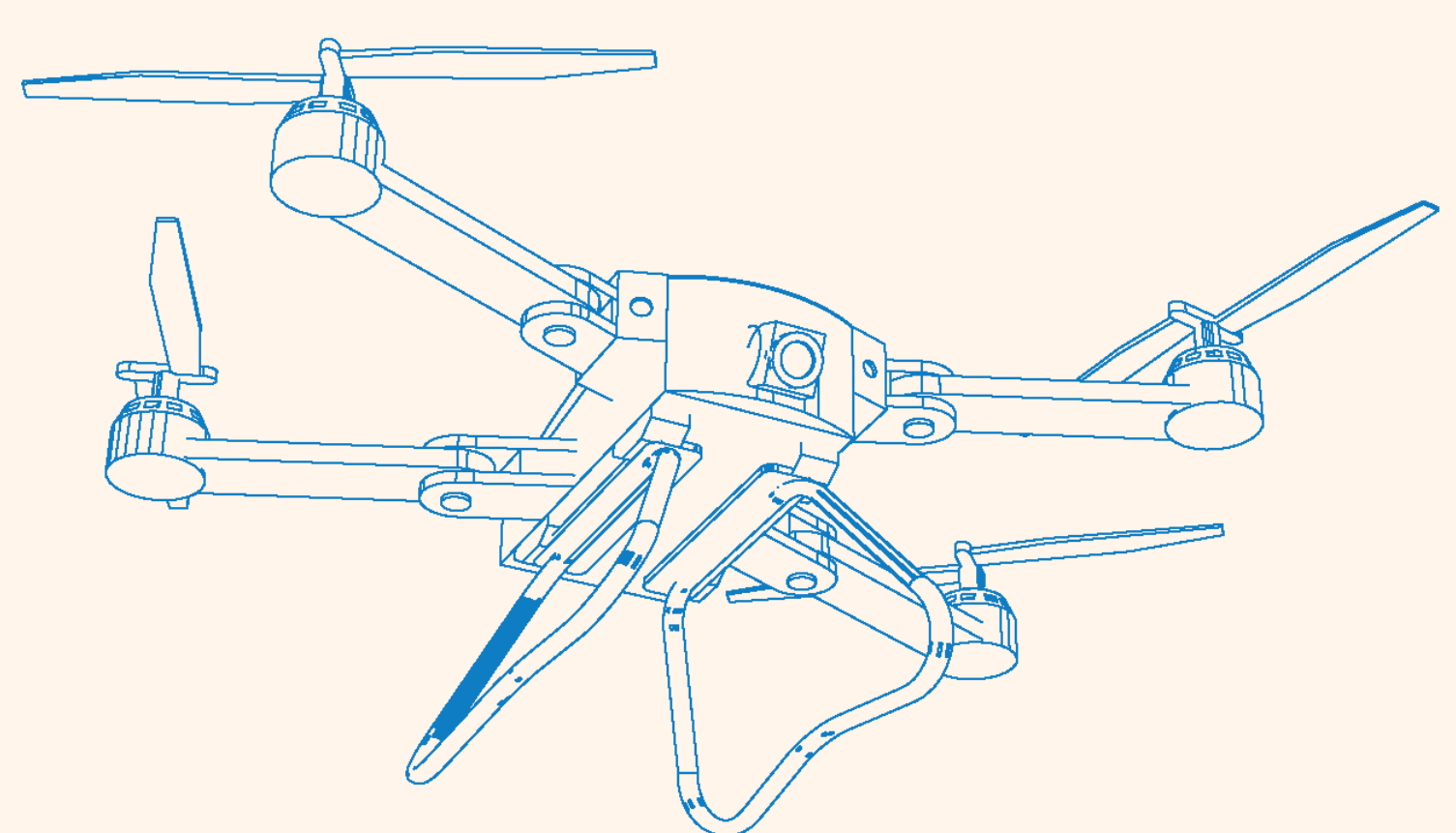
FOR POLICY MAKERS

Key recommendations for more holistic policy development:

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-  **Encourage the use of integrated management systems**
 -  **Develop knowledge and capability**
 -  **Develop a culture of 'Cooperation by Design'**
 -  **Evaluate current integration level (using a self-assessment tool)**

Supporting resources developed by the research:

- **Impact Assessment Methodology** (Task 1.3A) – link safety – security outcomes
- **Interconnected Risk Management** (Task 4.2.2) – one risk picture, fewer silos
- **Integration Self-Assessment Tool** (Task 4.3) - maturity check



To access supporting resources, learn more about these facts and figures, and to explore the practical recommendations in more detail, please visit:

<https://www.easa.europa.eu/en/research-projects/impact-security-measures-safety>