



Risk Assessment Methodology @ JRC

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Fabrice WAWAK





Joint Research Centre

The JRC's mission is to provide EU policies with independent, evidence-based scientific and technical support throughout the whole policy cycle



European
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- Economic and Monetary Union
- Energy and transport
- Environment and climate change
- Health and consumer protection
- Information Society
- Innovation and growth
- Nuclear safety and security
- Safety and Security
- Standards






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Science areas

- Environment and climate change (70)
- Safety and security (54)
- Agriculture and food security (27)
- Health and consumer protection (23)
- Energy and transport (20)

Scientific tools & databases

The range of work carried out at the JRC also includes the compilation of a large number of databases in addition to the development of software and modelling tools. These resources are either available to all members of the public or to specific research groups, providing assistance to scientists in carrying out their work.

The objective of this directory is to allow easy navigation through the available tools and databases, providing clear descriptions for each entry.

The tools and databases are categorised by name and acronym, but can be filtered by research area, keyword and JRC institute responsible for the coordination of the particular entry.

Sort by: ▲ Title

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THESEUS - analysis and alerts related to trade-based illicit activities

The restricted access web-based platform THESEUS is used by OLAF and its partners in the EU Member States to have access to alerts related to illicit, financial related, activities (e.g.

Acronym: THESEUS
Collaborating DGs: European Anti-Fraud Office
External Partners: EU MSs



Toxmatch

Toxmatch is a flexible and user-friendly open-source software application that encodes several chemical similarity indices to facilitate the grouping of chemicals into categories and read-across.

Acronym: Toxmatch





EC Information Systems security framework

Commission Decision C (2006) 3602
concerning the security of information systems used
by the European Commission

and its **Implementation Rules**

EC Information Systems security framework

Review and improve the security plan

- Corrective actions
- Preventive actions

Monitor the effectiveness of the security plan

- Audits
- Incidents review
- Reported breaches



Define the security plan

- Scope and boundaries
- Security needs (BIA)
- Risk assessment

Implement the security plan

- Implementation plan

EC Information Systems security framework

Implementation Rules

- Provides 85 security policy objectives based on ISO-27002, in 10 domains

Series of internal standards

- Each standard covers one or more security policy objectives

JRC Risk Assessment Methodology

Risk Evaluation



Countermeasures Selection



Implementation Plan



Maturity Plan

JRC Risk Assessment Methodology

IR-CD3602 provides 85 security policy objectives

ISO-27002 provides 125 controls

COBIT 5 provides 37 processes



JRC Risk Assessment Methodology

**Methodology based on IR-CD3602,
IEC-27000 and COBIT 5**

Mapping to federate the three approaches
Integration under 85 common processes



European Commission

Figure 10—COBIT 5 Process Reference Model

Processes for Governance of Enterprise IT

Evaluate, Direct and Monitor



Align, Plan and Organise



Monitor, Evaluate and Assess

MEA01 Monitor, Evaluate and Assess Performance and Conformance

MEA02 Monitor, Evaluate and Assess the System of Internal Control

MEA03 Monitor, Evaluate and Assess Compliance With External Requirements

Build, Acquire and Implement



Deliver, Service and Support



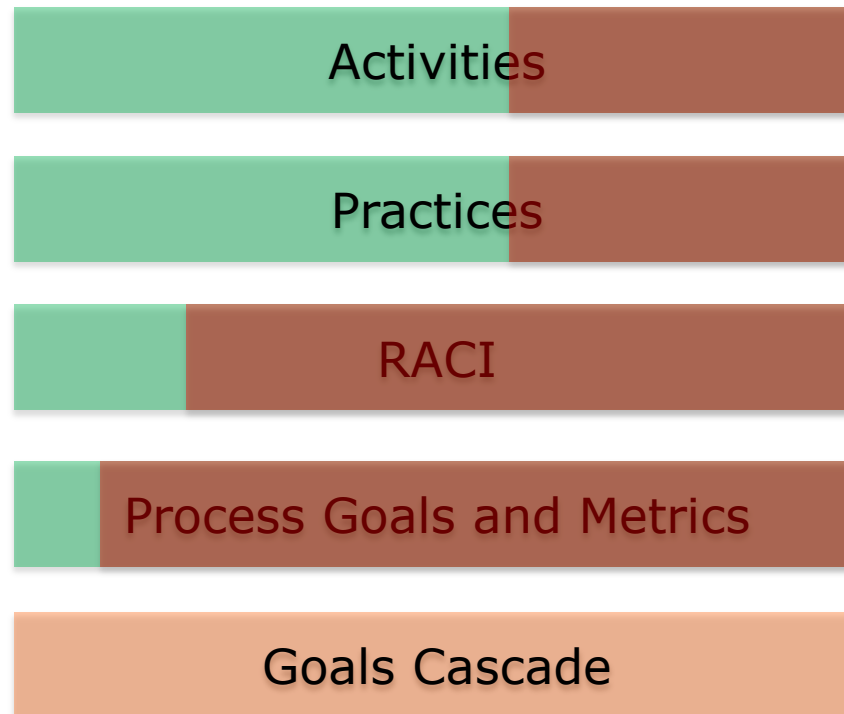
Processes for Management of Enterprise IT

Managed

Improvement

★ New Control. Not in 27002

Mapping under construction



End of Presentation



Questions?