

A large, semi-transparent watermark of the AIEA logo is centered in the background. It consists of the letters "AIEA" in a bold, rounded, sans-serif font, with a globe showing the Americas behind the letters. Horizontal lines extend from the sides of the letters.

Best Practices to implement ISMS The role of Risk Management

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The background of the slide features a large, stylized globe with a grid of latitude and longitude lines. Overlaid on the globe is the acronym "AIEA" in large, bold, red letters with a white outline. A horizontal yellow bar with a fine grid pattern is positioned across the middle of the slide, containing the title text.

Mission and findings of the Research Group

Mission and activity of ISMS Research Group

- **To adopt, implement and operate effectively an ISMS**
*manager has to face organizational **inner** and often **hidden barriers***
*The RG gathered in a **White Paper** the experiences 'on the field' from managers (Security, IT, Audit, etc.) who have successfully put in place ISMS in primary organizations developing specific skills and practices on ISMS implementation.*
- *A chapter of the WP is dedicated to present **16** 'on the field' **best practices** to overcome barriers for a successful implementation of ISMS. Some of these are related to RM*
- *The RG also supported the ISCOM WGs on Critical Infrastructure Protection and will continue operations starting from the WP best practices. A new organizational formula based on 'internal workshops' will be adopted*

RM as a founding practice to set up ISMS

- **Through Risk Management organizations become aware of:**
 - how ICT support the **business value chain**;
 - the real business **value of information assets**;
 - the **risky environment** in which businesses operate;
 - the unexpected **source of risk**;
 - the current **vulnerabilities**;
 - the meaning of **information security requirements**;
 - the meaning of **protection measures** and safeguards to be implemented;
 - the economic **trade-off** between **security and non-security**;
 - the role of top management in **risk-acceptance decisions**;
 - the cross organization (reach and range) **impact of action plans**;

Risk Management enables a deeper understanding of information security issues at all levels and fosters cross-organization cooperation on a continuous base

From 'Our best practices' (AIEA White Paper on ISMS)

1 ***Calculate the economic value of information assets***

Calculate the **economic value of information assets**: it enables the decision process on **investment in information security** (cost-benefit analysis based on *Reduced Risk On Investment*)

2 ***Adopt perspective Analysis of Risk***

Performing Risk Analysis take into account not only the current scenario but put in place '**perspective**', '**forward looking**' **analysis** to figure out **emerging threats and vulnerabilities**

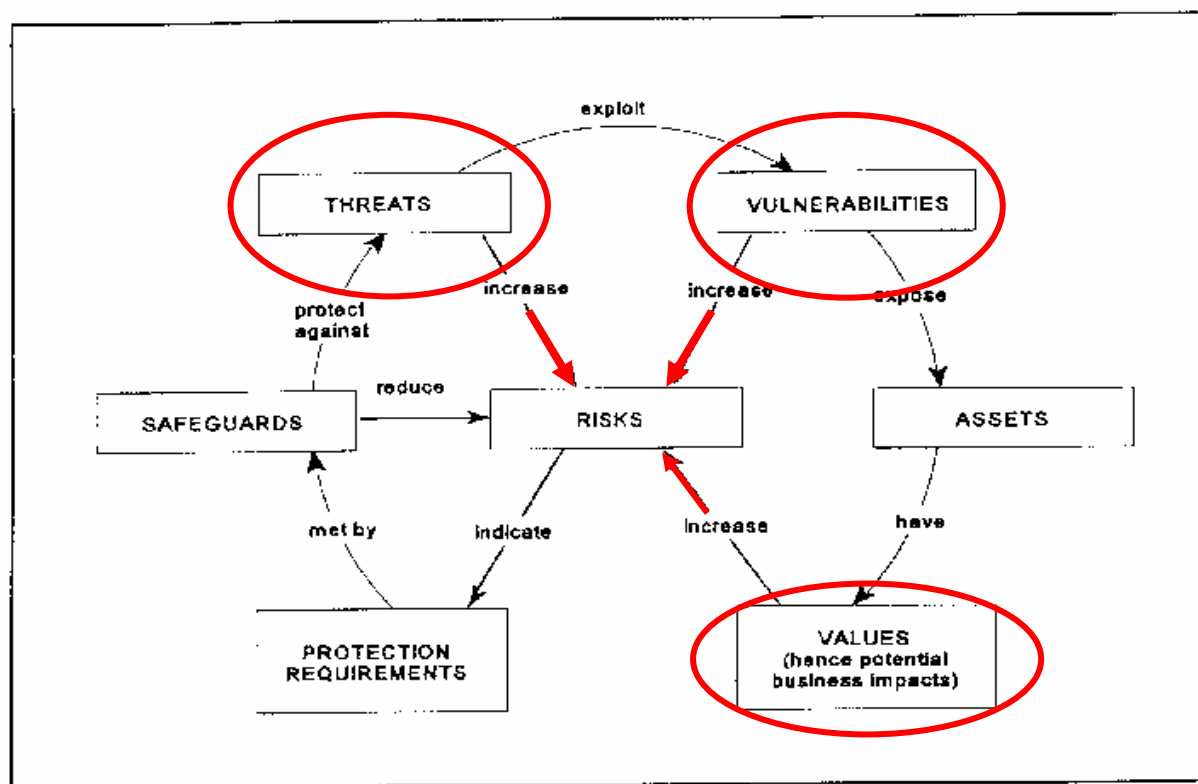
The AIEA logo, consisting of the letters "AIEA" in a large, bold, red, sans-serif font, is superimposed over a stylized globe. The globe shows continents in light brown and oceans in light blue. A horizontal yellow bar with a fine grid pattern is positioned across the middle of the globe, behind the text.

Next activity on Risk Management

Risk Management Process

ISO/IEC TR 13335-1:1996(E)

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Relationships in Risk Management

The core components of Risk

Asset Value and Business Impact, Threats, Vulnerabilities ...

- **How do we get this information ?**
- **Who is the owner ?**
- **Do we have the right methodology to gather properly this information inside and outside the organization?**

RM is a 'knowledge intensive-organization wide process' that needs a specific operational method to be implemented

Research objective

Identify a methodology to support knowledge creation in Risk Management process

Requirements

- **Business focus**
- **Make explicit the organization knowledge on asset value, threats, and vulnerabilities.**
- **Target to any form-any type of information and information based assets.**
- **Organization fitting work-method**
- **Organization wide 'reach and range' involvement (top managers, line managers, staff) along different Business Units**

Research tracks/tools

1) Identification of main actors to be involved in RM Knowledge gathering process

2) Identification and 'Test' of specific methods to gather information inside/outside organization and to build up a Corporate Risk Management Knowledge Base such as:

- *Brainstorming*
- *Scenario planning*
- *Delphi method (experts' views)*
- *Simulations*

3) Draw a guideline for RM operators to make the RM Knowledge gathering a more effective, structured, repeatible and hence improvable process.