
Instruments for Innovation in Security

- some considerations

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Intervention in Session

“Instruments and Initiatives for Innovation in Security R&D”

Innovation is...

- A continuing attempt to use knowledge, research results and **know-why** to produce successful products, services and solutions to societal problems – like security.
- Innovation is the - from a societal and/or economic perspective – successful combination, hardware, software and orgware

Based on R. Smiths, Univ. Utrecht

Specificity of Security

Ownership of the entire innovation chain is needed, including:

- the involvement of public and private end-users,
 - competence mapping and networking,
 - interaction and integration of supply and demand and of
 - education and training
 - Innovation more important than fundamental research
 - Adaptation of available results (e. g. in other application areas) more important than basic research
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Instruments to foster innovation in Security

- A culture of innovation (including legal instruments)
 - Dynamic use of standards
 - Public – Private - Partnership is needed => Lead Market Initiative
 - Europe needs a quality mark for security => European Security Label
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Role of Standards

- standards codify technological know-how
- standardization processes are platforms for the exchange
 - of technological requirements
 - of user needs
- standardization processes are starting points for the collaboration in innovation projects with
 - Companies
 - research institutes
 - public administrations (regulators setting the requirements for innovative technologies, products and services, public procurers as lead users for demand driven innovation)

Role of Standards

Integration in global markets as an incentive and enabler to innovate

- international standards are essential for the access to global markets
 - implementation of international standards
 - assures the quality of integrated imported components
 - is a channel of transfer of technology from abroad
 - increases competition and competitiveness
 - international standards increase attractiveness of SME for foreign direct investments
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Lead Market Initiative

Lead markets are **emerging markets** and of interest to Europe; criteria:

- 1. Specification of the emerging market and the extent of **customer needs** and how this could lead to the development of *new products and services with a global perspective* (global perspective is important)
- 2. The **potential of technologies** under development and of new combinations of existing technologies
- 3. Existing **industrial strength** to develop world class markets
- 4. Evidence of the **commitment** of industrial and service sectors to contribute to the success of the initiative
- 5. Strategic **societal and economic interests**

Example: Maritime Surveillance (detection of small boats <10m, under any visibility condition, and small, low flying airplanes)

EU Security Label - why?

- In short: **create a common reference point for providers, end users and legislators.**
- Market needs **basic criteria upon which to base decision** making regarding the acquisition and implementation of security products, services and their integration
- An instrument is required that can enable the **procurers** of security products and services **to make, and justify choice of purchase**, adopting recognized security principles.
- Create a **catalyst for investment** in the EU security industry.
- Provide an **answer to** the present state of real and perceived security (**insecurity**) in EU countries
- **Confidence** that **security products and services meet specifications**, and are suitable for the intended use, resulting in **risk management for the end users.**

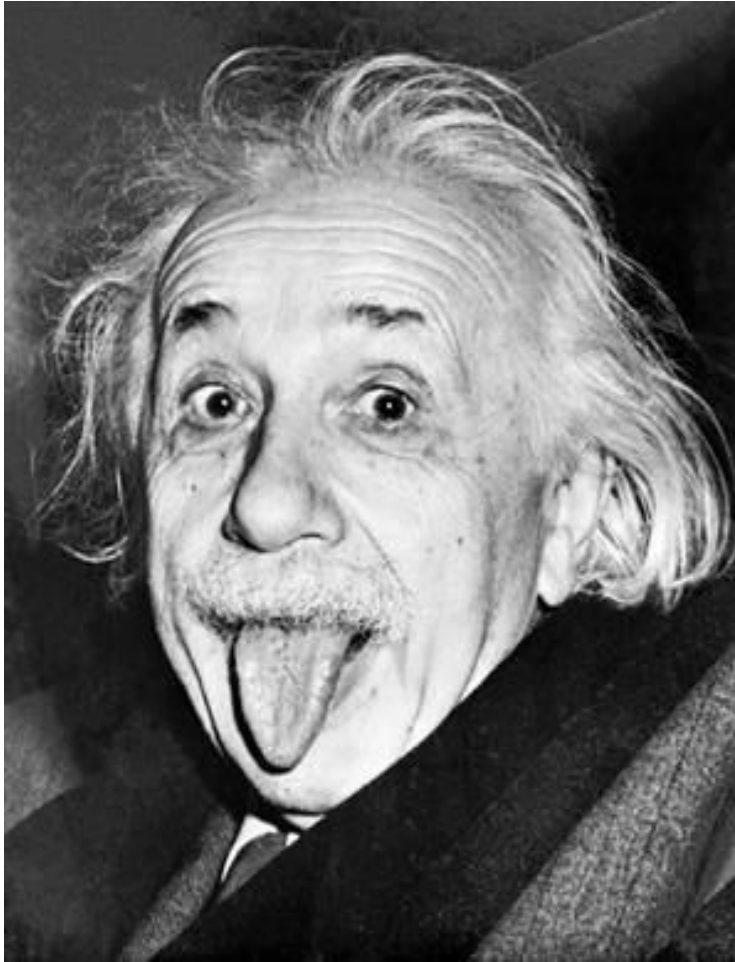
Issues to be verified by EU SL

- **All *security relevant* and *related* services have to be done in a secure manner addressing all different security requirements and needs, e. g. :**
 - **Reliability,**
 - **Availability,**
 - **Integrity,**
 - **Continuity,**
 - **Accuracy,**
 - **Safety,**
 - **Privacy,**
 - **Confidentiality,**
 - **Confidence,**
 - **Authenticity**
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Conclusions

- More instruments exist
 - Do all stakeholders note security components as a potential lead market ?
 - If yes, we got to get started implementing all instruments for innovation, now!
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Invention vs. Innovation



Questions?