



Needs for Standards in Security

Dr. Alois J. Sieber, Head of Unit
Institute for the Protection and Security of the Citizen

November, 2006





'Security' a definition

Security is the condition (**perceived** or **confirmed**) of an individual, a community, an organisation, a societal institution, a state, and their assets (such as goods, infrastructure), to be protected against danger or threats such as criminal activity, terrorism or other deliberate or hostile acts, disasters (natural and man-made)



Role of Standards

Standards have proven to be important

- to market creation,
- as an enabler to international development programmes,
- as a tool in procurement



Role of Standards

- Standards are efficient tools for all relevant stakeholders, as standards deliver interoperability and durability to end-user requirements.

however

- technical standards alone are insufficient
- need to be complemented by testing, evaluation and certification, to ensure proper implementation.



To be considered

- Interoperability can only be obtained if additional conformity evaluation efforts are conducted by an independent entity (an effort which is directly related to the end-user requirements)
- In the security domain, certain missions require not only definition of standards and norms but also mechanisms for conformity tests and certification procedures.



European Approach

- The European Committee for Standardisation (CEN) is coordinating European standardisation in the security area, and aims to concretely identify new standardisation needs:
 - CEN BT working group 161 "Security and Protection of the Citizen"
- This top down assessment is underway to review both existing national and international (ISO, ANSI) standards.



Drivers

Catastrophic events in recent years request actions such as

- Protection against natural and technological disasters (civil protection)
- Prevention and management of crisis and conflicts (ESDP)
- Fighting organised crime and terrorism
- Support to management of catastrophic disasters
- Network and Information Security (NIS)



Examples

The EU, key demander for support by CEN, e. g.:

- Designing crime out of products (European Commission)
- CEN/TC 325 "Prevention of crime by urban planning and building design"
- CEN/TC 296 "Tanks for transport of dangerous goods"
- CEN/TC239 "Rescue systems"
- CEN Workshops in Humanitarian Mine Action

requests CEN to establish standards in the context of catastrophic events



CEN response: Security

- CEN BTWG 161 "Protection and Security of the Citizen" (2003-12)
 - focus on needs for standards, standard-like documents, procedures, codes of practice and recommendations, review existing ones as necessary.
- ↑ Network: CEN Members, EU Member States, EU Council, European Commission Services, ISO/CS, Europol, NSA, Cenelec, ETSI and ANSI HSSP and strong involvement of industry (*not only from EU member states*)



Expert Groups within BT/WG 161

- Horizontal group on taxonomy of 'Security', *chaired by the chairman of the BT/WG 161*
 - Definition of security
 - Establishment of a standard list of threats and threat scenarios
- CBRN incidents, *convened by NSA, NATO*
- Critical Infrastructure – Energy Supply, *convened by SIS, Sweden*
- Critical Infrastructure – Construction and Building, *convened by European Commission Joint Research Centre*
- Integrated Border Management (with focus on people), *convened by Paul Collins HM Revenue & Customs*



Expert Groups within BT/WG 161

- Security of the Supply Chain, *convener R. Van Bockel, DG TREN*
- Emergency services, *convened by NEN, The Netherlands*
- Defence against terrorism, **convened by NSA, NATO**
- Fight against organised crime (discussed), *to be convened by EUROPOL*



Expected Output

- Establish a network of standardisation experts in their respective fields, reinforced with representatives of the user community
- Prepare the status of the art of available (national and international) standards and operational procedures
- Define the priority areas for their respective fields providing the corner stones for a standardisation policy for security
 - Identify the gaps where European standards are urgently required
 - Identify the priority areas where harmonisation of existing national/international standards could be beneficial
 - Elaborate four field tests to illustrate the value of standardisation for defining RTD requirements



Outlook

- CEN BT/WG 161 makes progress and establishes new EGs according to requests by EU authorities
- Expert Groups are reacting to actual requests from EU authorities
- DG JLS ready to support EGs for PCI
- DG ENTR ready to support all others
- BT WG 161 invites key stakeholders to become active

ESRAB input for the 2007 WP

Joint Research Centre

From the Technology groups

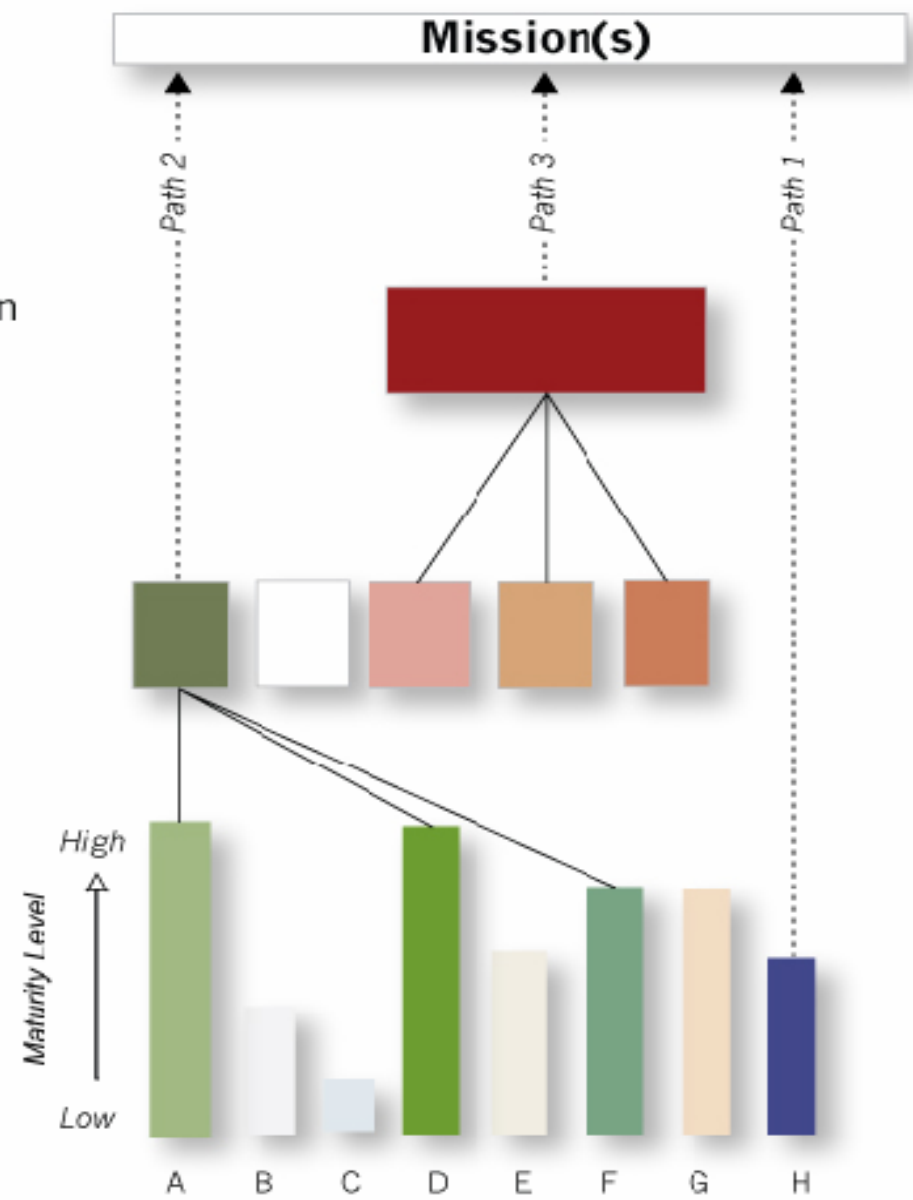
- 5 topics for demonstration projects
- 20 topics for mission specific integration projects
- 120 topics for capability related projects (organised in "functional groups"), 100 key technologies identified

Further recommendations from the Enabler Groups

Demonstration programmes

Integrated Projects

Capability projects



Coverage of capabilities / functional groups in the 2007 WP

Joint Research Centre

11 Functional areas clustering the required capabilities	A: Risk assessment, modelling & impact reduction	B: Doctrine & operation	C: Training & exercises	D: Detection, identification & authentication	E: Positioning & localisation	F: Situation awareness & assessment (surveillance)	G: Information management	H: Intervention & neutralisation	I: Communication	J: Command & control	K: Incident response
4 Missions for which the capabilities are required											
Security of citizens	● 2			● 2	● 2	● 1	●				
Security of infrastructure and utilities	● 1			● 2	●	● 1		●			
Intelligent surveillance and border security			●	● 1		● 1	●	● 1			
Restoring security and safety in case of crisis	●	●	●	●	●	● 2	●	●	● 2	● 3	

1st call: Priority for those capability topics that serve more than one mission (highest impact) and where no demonstration project is started the same year



Activity 7: Security Research coordination and structuring

- DRAFT -

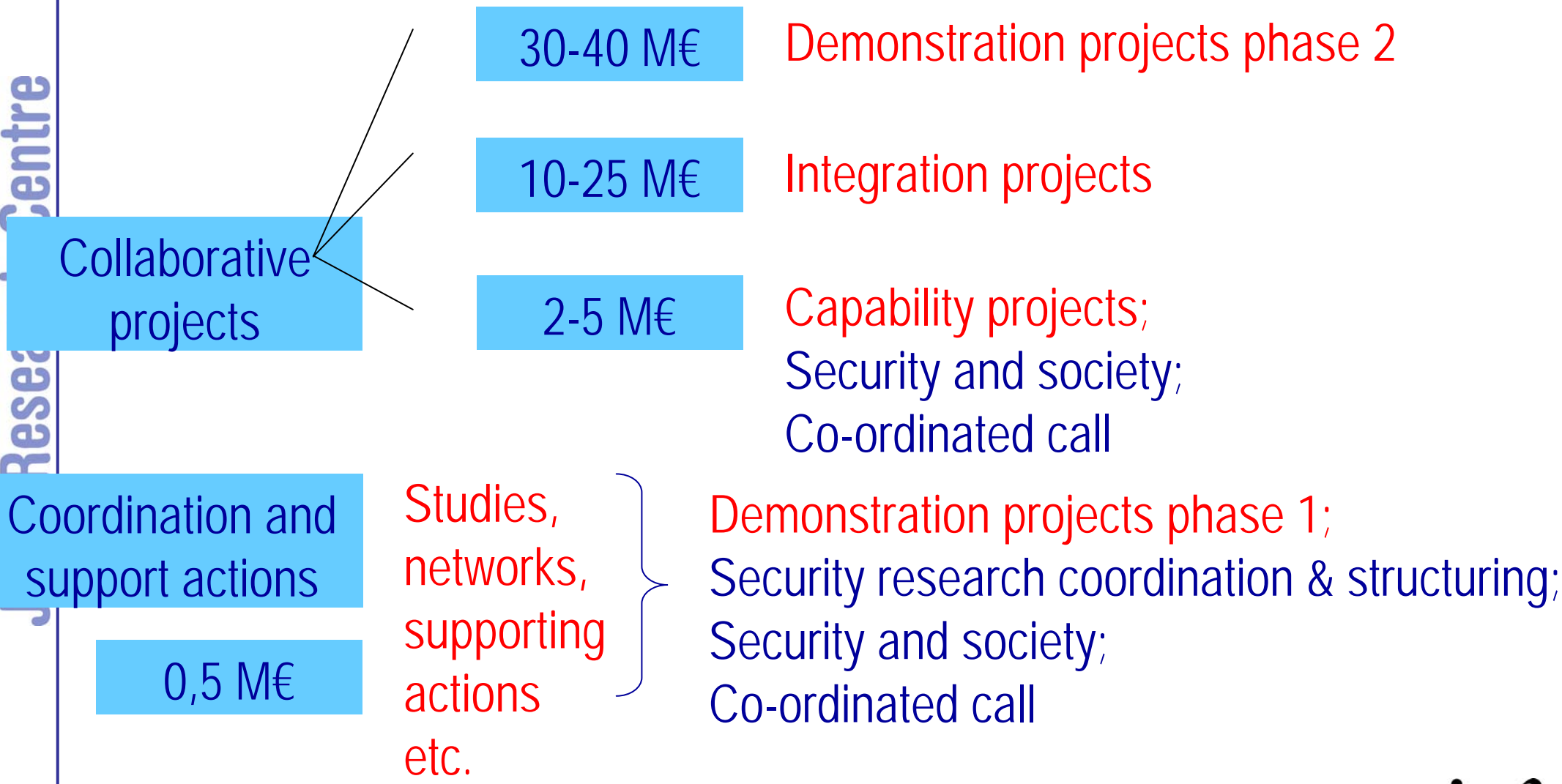
Area	Topic
Joint Research Centre	SEC-7.1 Technology Watch
	SEC-7.2 European Security Research Network, incl. for standardisation
	SEC-7.3 Network of facilities for test and validation of security related products
	SEC-7.4 Transparency and networking amongst Member States
	SEC-7.5 Supply chains and market integration

Joint Research Centre



Funding schemes

Joint Research Centre



All cost indications: average total cost

