

# EU Security Research

**What Needs To Be Implemented In Order To Improve Pan-European Security Mechanisms**

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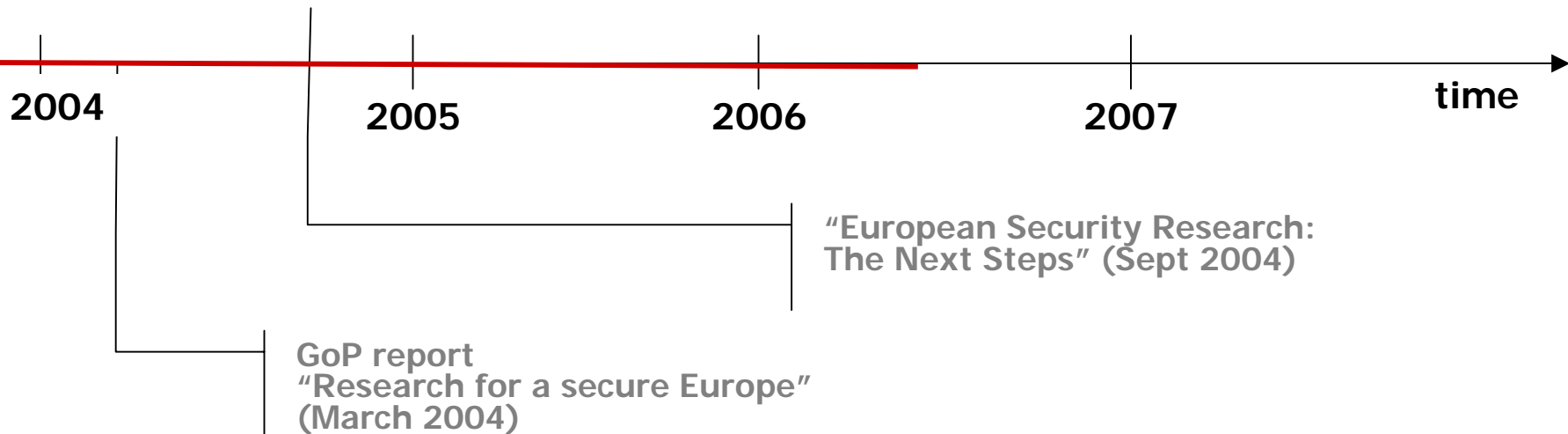


## A set of coherent initiatives

European Security Research within FP 7 (2007 and beyond)

ESRAB

Preparatory Action for Security Research – PASR (2004-2006)





## Outcome of the Preparatory Action for Security Research (PASR) 2004-2006

### - PASR objectives:

- To test the ground for security research within FP7
- To enhance security of the EU citizen
- To increase the competitiveness of EU industry.

PASR 2004, 15 Meuros, 178 proposals, 11 selected projects.

PASR 2005 approx 15 Meuros, 156 prop., 13 selected projects

PASR 2006 approx 15 Meuros, 165 prop., 15 selected projects

- PASR priorities: anti-terrorism, critical infrastructure protection, crisis management, situation awareness, inter-operability + supporting activities.



## Framework Programme 7 (2007 – 2013) Total €50.521 Billion

*Cooperation* – Collaborative research (€32.292 billion)

*Ideas* – Frontier Research (€7.4+ billion)

*People* – Human Potential (€4.727 billion)

*Capacities* – Research Capacity (€4.291 billion)

+

JRC (non-nuclear) (€1.751 billion)

JRC (nuclear)

Euratom



## FP7, Cooperation: 9 thematic priorities

• 1. Health	M€	5984
• 2. Food, Agriculture & Biotechnology		1935
• 3. Information & Communication Technologies		9110
• 4. Nanosciences, Nanotechnologies, Materials & new Production Technologies		3467
• 5. Energy		2265
• 6. Environment (including Climate Change)		1886
• 7. Transport (including Aeronautics)		4180
• 8. Socio-economic Sciences & Humanities		607
• 9. Security & Space	M€	2858



## FP7, Commitment appropriations (crédits d'engagement) in Millions €

	2007	2008	2009	2010	2011	2012	2013
<b>50.521</b> FP7, non-nuclear	<b>5.082,008</b>	<b>5.579,074</b>	<b>6.119,126</b>	<b>6.932,723</b>	<b>7.968,149</b>	<b>8.925,954</b>	<b>9.913,966</b>
<b>32.292</b> FP 7, Co-operation	<b>3.670,645</b>	<b>3.761,531</b>	<b>3.902,656</b>	<b>4.291,435</b>	<b>4.836,537</b>	<b>5.513,493</b>	<b>6.315,703</b>
<b>2.858</b> Security & Space	<b>191</b>	<b>216</b>	<b>276</b>	<b>473</b>	<b>506</b>	<b>551</b>	<b>645</b>



## 4 Main missions

1. Protection against terrorism and crime
  - Technology solutions for threat awareness (e.g. CBRN)
  - Detection, prevention, identification, protection, neutralisation and containment of effects of terrorism & crime
2. Security of infrastructures and utilities
  - analysing & securing existing & future infrastructures, systems and services
3. Border security
  - Technologies & capabilities to enhance security of land & coastal borders, including border control & surveillance issues
4. Restoring security in case of crisis
  - Technologies to support emergency management operations, inter-organisational coordination & communication, distributed architectures & human factors



## 3 Cross-cutting areas

1. **Security Systems Integration & Interoperability**
  - Technologies to enhance interoperability of systems, equipment, services & processes
  - Organisation, protection of confidentiality & integrity of information, traceability of transactions, processing
2. **Security and Society**
  - Socio economic aspects related to crime, perception of security, ethics, privacy, societal foresight
  - Safeguarding privacy & liberties, vulnerabilities, new threats, management & impact assessment of consequences
3. **Security Research Coordination & Structuring**
  - Coordination of security research efforts, development of synergies (civil/security/defence), legal conditions, use of infrastructures



## Situation Co-decision process FP7

### FP7 main text (Co-decision Council + EP)

- Council : 30 May, General Approach, split Security and Space, budget Space € 1.429 , Security € 1.320.
- European Parliament: 16 June, 1st reading, split Security and Space.
- Commission Modified Proposal FP7: 28 June.

### Specific Programmes (Decision Council, Opinion EP)

- Discussions in Council and EP ongoing.
- Modified Commission proposal: early autumn.

### Rules for Participation (Co-decision Council + EP)

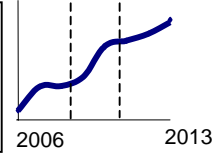
- On 30 May, the Council also adopted a general agreement on the 'Rules for Participation for FP7'



## Research Paths

### Missions

- Start with capabilities and projects
- Phase in larger projects consistent with EC funding curve proposal



### Demonstration projects

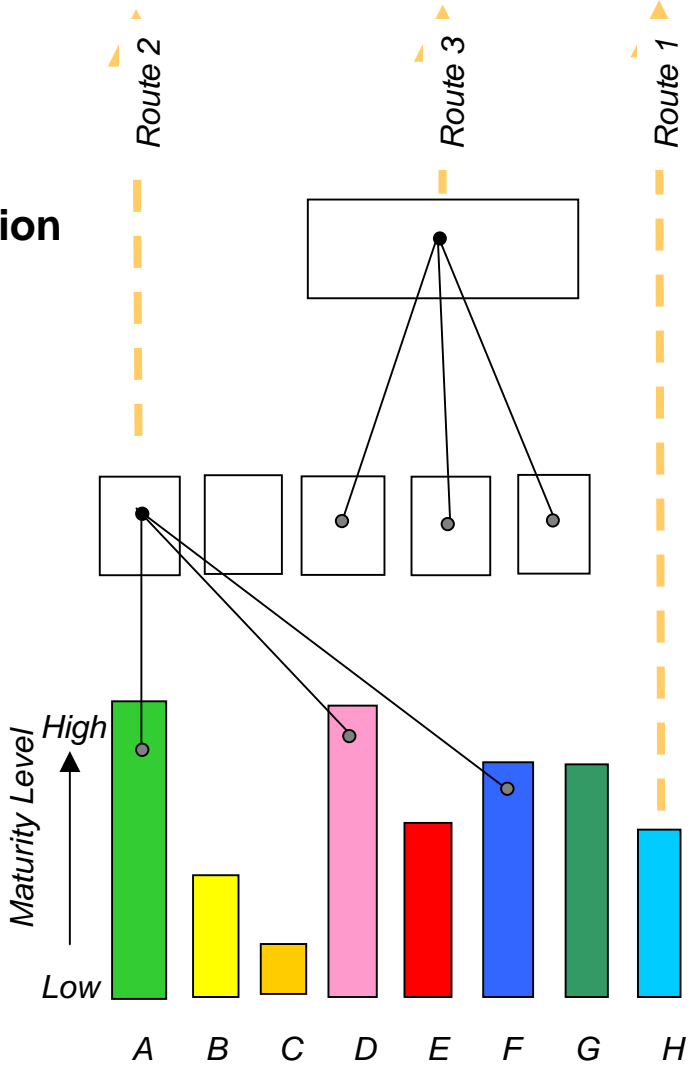
- Systems of Systems validation
- Multi-mission
- Combination of project results
- Very few in number ~ 1 per year
- Very high price tag

### Integration Projects

- System development
- Mission specific
- Combination of capabilities
- Few in number ~ 8 per year
- High price tag

### Capability projects

- Capability development
- Technology development
- Many in number ~ 25 per year
- Average price tag

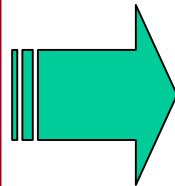




## *ESRAB priorities as reflected in the first **Draft Security WP***

### ESRAB Report

- From the Technology Groups
  - 120 topics for capability related projects, 100 key technologies identified
  - 20 topics for mission specific integration projects
  - 5 topics for demonstration projects
- Recommendations from the Enabler Groups



Assumption: first call covering 2007 + 2008 budget

### Draft 1st Security WP

- **Capability projects** - 29 topics selected
- **Integration projects** - 12 topics selected
- **Demonstration programmes** - 5 studies
- *Security systems integration and interoperability – not open*
- **Security and Society** - 12 topics
- **Coordination and structuring** - 6 topics



## *Funding schemes*

Capability projects	Collaborative Projects, average <u>total</u> cost 2-5 M€
Integration projects	Collaborative Projects, average <u>total</u> cost 10-25 M€
Demonstration programmes <i>studies</i>	Coordination and support actions, average <u>total</u> cost 0,5 M€
Security and Society	Collaborative Projects or Coordination and support actions, average <u>total</u> cost 0,5M€
Security Research coordination and structuring	Coordination and support actions, average <u>total</u> cost 0,5M€



## *Roadmap of the Security WP Preparation*

Now	Consultation and preparatory stage
<b>19 July 2006</b>	<b>First Commission internal drafts</b>
29 Sept. 2006	Deadline for consolidated drafts
October 2006	Interservice consultation
November 2006	Consultation and opinions of Programme Committee configurations
December 2006 (Depending on FP & SP adoption)	Adoption by Commission
After that	Implementation stage, launch of calls



## **More Information on**

**EU Security Research website**

**<http://ec.europa.eu/enterprise/security>**

**<http://cordis.europa.eu/security>**