



Seventh Framework Programme 2007-2013

Cooperation Theme 10 SECURITY RESEARCH

Work Programme 2007 and first Calls for Proposals

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Content



- History and Background
 - PASR
 - ESRAB

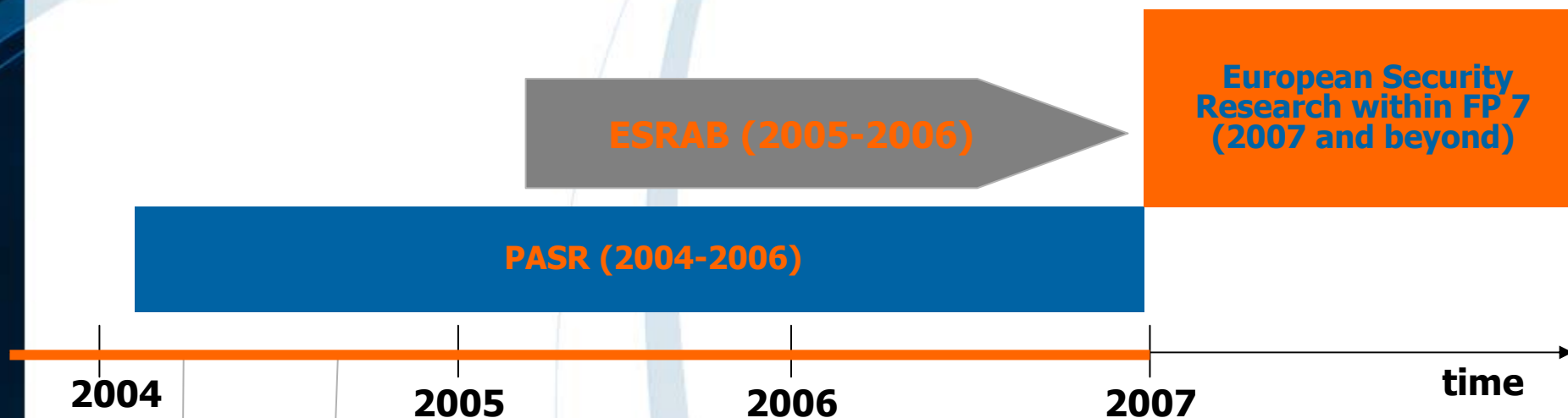
- FP7 and overall approach of the Security theme
 - Implementation and particularities

- Content of the 2007 Work Programme
 - Information on the 2007 Calls for Proposals

- Further information



A set of coherent initiatives



ESRAB (2005-2006)

European Security Research within FP 7 (2007 and beyond)

PASR (2004-2006)

2004

2005

2006

2007

time

"European Security Research: The Next Steps" (Sept 2004)

GoP report "Research for a secure Europe" (March 2004)



PASR Preparatory Action for Security Research 2004 - 2006



- Outside FP6
- Overall budget € 45M
- 3 calls: 15 M€ budget each and ~15x over-subscribed
- Participants from EU25 + EEA (2005 & 2006)
- <http://ec.europa.eu/enterprise/security>;
<http://cordis.europa.eu/security>

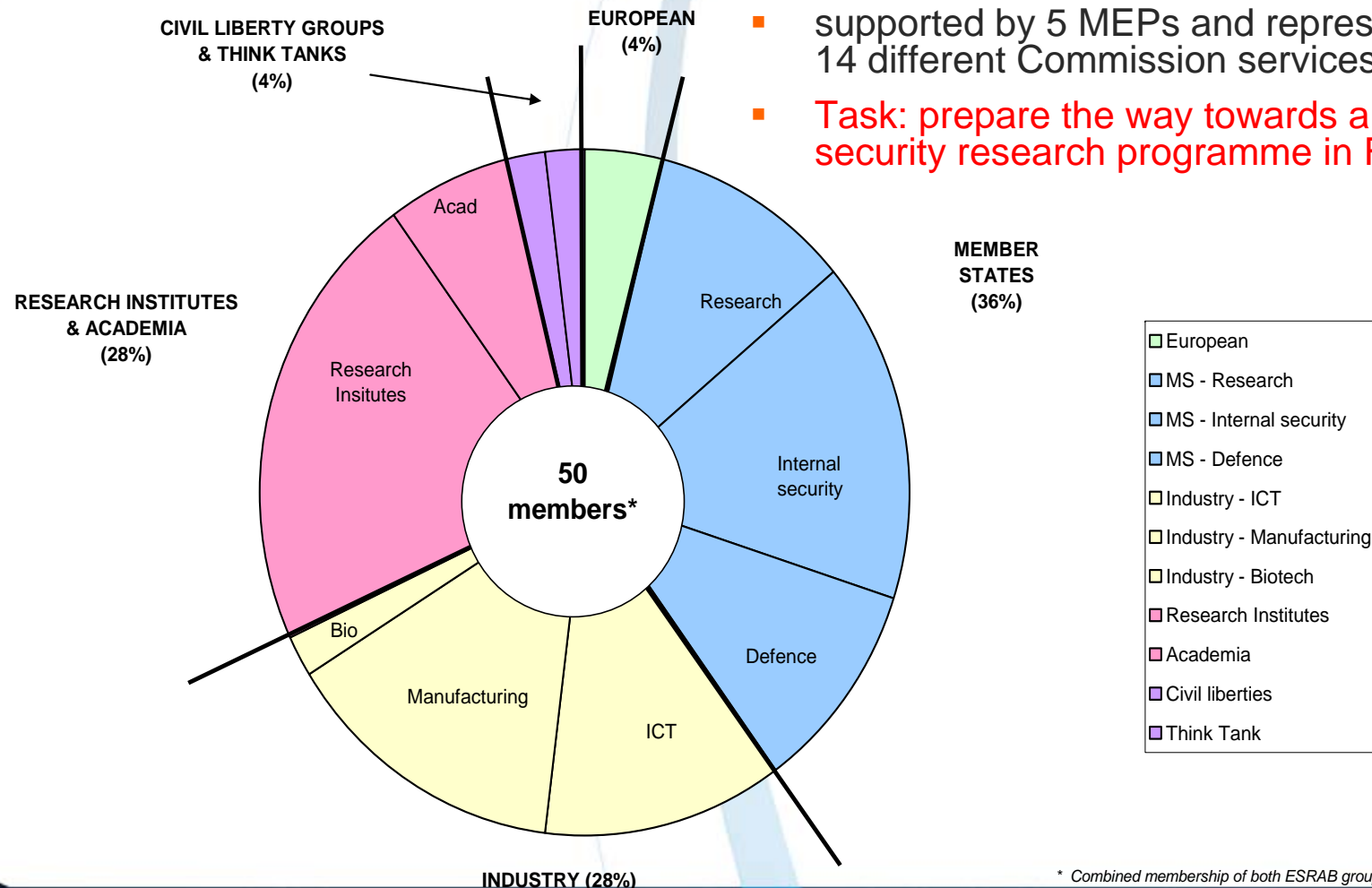
Results (funded)	2004	2005	2006
Projects	123 (7)	120 (8)	121 (8)
Supporting activities	50 (5)	36 (5)	44 (7)
Total	173 (12)	156 (13)	165 (15)



ESRAB European Security Research Advisory Board: 4/2005 – 12/2006



- composed of 50 High Level Members and supported by 300 experts.
- supported by 5 MEPs and representatives from 14 different Commission services.
- **Task: prepare the way towards a fully fledged security research programme in FP7.**





ESRAB report: issued September 2006



Section 1 — Introduction

- How it all started - Navigating the report

Section 2 — Technology development

- Framework, structure and methodology
- Mission area analysis
- Cross mission area analysis

Section 3 — Security and society

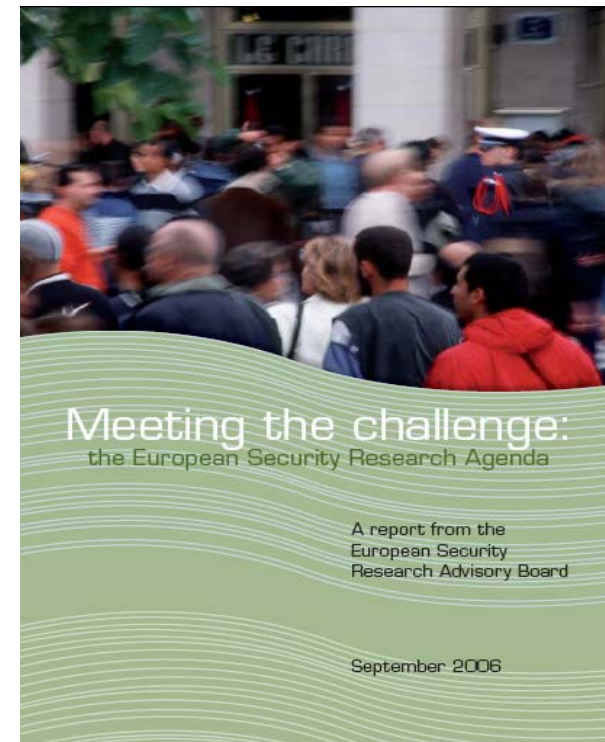
- Citizens and security
- Organisational structures and cultures of public users
- Foresight, scenarios and security as an evolving concept
- Security economics
- Ethics and justice

Section 4 — Enablers

- Implementation rules
- Co-ordination and structuring
- Link to innovation

Section 5 — Findings

- Key findings / Next steps



Available on <http://ec.europa.eu/enterprise/security>





Security theme in FP7 2007 – 2013

Theme 10 of Specific Programme Cooperation



1.400 M€

- **Four Security missions / activities:**
 1. Security of citizens
 2. Security of infrastructure and utilities
 3. Intelligent surveillance and border security
 4. Restoring security and safety in case of crisis

- **Three Cross cutting activities:**
 5. Security systems integration, interconnectivity and interoperability
 6. Security and Society
 7. Security Research coordination and structuring



Indicative specifications of projects



Demonstration projects

Phase 1: ~1 year , 0.5 M€ (CSA)

=> 4 missions areas

Phase 2: ~ 4 years, up to 30-40 M€ (CP)

Integration projects

~ 4 years, up to 10-25 M€ (CP)

=> 4 missions areas

Capability projects

2 to 4 years, up to 2-5 M€ (CP)

=> 4 missions areas
& cross cutting activity 6

Supporting and coordination actions

0.5 to 3 years, up to 0.5 M€ (CSA)

=> Cross cutting activity 6 & 7

FP7 funding schemes: CP : Collaborative projects

CSA : Coordination and support actions



Demonstration projects



- Systems of systems
- Provide a **federative frame** in areas of significant European interest
- Rely on the development of required “**building blocks**”
(**capability** projects and **integration** projects)

5 topics identified for the whole of FP7:

Not open in
1st call

- European-wide integrated border control system
- Security of mass transportation
- Crisis Management system
- Logistic and Supply chain Security
- CBRNE (Chemical, Biological, Radiological, Nuclear, Explosives)

■ Phase 1 :

- Define strategic roadmaps (Funding scheme: CSA -> 0.5 - 1 M€, ~ 1year)

■ Phase 2 (later call, separate proposal and evaluation) :

- Implementation via a large consortium, including public / private stakeholders, end-users... (Funding scheme: CP -> 30 - 40 M€, ~4 years)
- Close to standardisation / markets / procurement



Article 33 Rules for participation: Upper funding limits for research and technological development activities



Collaborative Projects

- Up to 75% for non-profit public bodies, secondary and higher education establishments, research organisations and SMEs

- Up to 50% for large industry
 - For the Security theme up to 75%
 - in the case of the development of capabilities in domains with very limited market size and a risk of "market failure"
 - and for accelerated equipment development in response to new threats

Needs to be convincingly demonstrated in the proposal

Coordination and support actions

- Up to 100%

Management, audit certificates and other activities

- Up to 100%



Article 22.3 Rules for participation: Specific provisions



- In the case of indirect actions in the field of security research, the **grant agreement** may lay down specific provisions in particular on changes to the consortium's composition, confidentiality, classification of information and information to Member States, dissemination, access rights, transfer of ownership of foreground and the use thereof.



Sensitive and classified actions

A sensitive RTD action is an action that needs:

- Handling of classified information
- Exchange of sensitive material (need for transfer or export licence)
- Addressing a topic subject to specific national or international legal restrictions

Identification of sensitive actions by:

- Proposers
 - Evaluators
 - Commission
 - Programme Committee
- In 2007, proposals are not allowed to contain classified information. However, actions can deal with sensitive or classified information



Security Aspects Letter (SAL)

SAL must be **part of the proposal** and contains:

- Level of classification of background and foreground
- Requirement to have export or transfer licences
- Mapping of the access of participants to information
- Clearances (or requests)
- Export or transfer licences (or requests)
- Any national or international security legal restriction

The SAL will be evaluated by the evaluators.

The evaluators may also flag as sensitive proposals without SAL.



FP7 2007 – 2013

- Annual Work Programmes

- Security Theme:
 - 1 Work Programme for 2007 (WP 2007)

 - 2 Calls for Proposals in 2007

Electronic submission compulsory : forms can be downloaded soon

Proposal submission (upload) possible as from 19 March 2007

http://cordis.europa.eu/fp7/epss_en.html

Unique registration facility for all FP7





WP 2007 - Mission / Activity 1: Security of citizens

Call FP7-SEC-2007-1



2 Integration projects:

- Intelligent urban environment observation system
- Integrated mobile security kit

6 Capability projects:

Detection, identification & authentication

- Stand off scanning and detection of hidden dangerous materials and/or stowaways, fast and reliable alerting and specification
- Improved control of explosives throughout their “lifecycle”

Positioning & localisation

- Localisation and tracking of chemical components in substance production
- Observation through water, metal, ground etc

Situation awareness & assessment (surveillance)

- Water distribution surveillance
- Secure strategic information management system



WP 2007 - Mission / Activity 2: Security of infrastructure and utilities

Call FP7-SEC-2007-1



1 Demonstration project:

- Security of critical infrastructures related to mass transportation (**phase 1**)

1 Integration project:

- Integrated protection of rail transportation

4 Capability projects:

Detection, identification & authentication

- Detection of unattended goods and of owner
- Detection of abnormal behaviour of vehicles both in wide and small land areas
- Detection of abnormal behaviour

Situation awareness & assessment (surveillance)

- Small area 24 hours surveillance



Call FP7-SEC-2007-1



WP 2007 - Mission / Activity 3: Intelligent surveillance and border security

1 Demonstration project:

- Integrated border management system (phase 1)

3 Integration projects:

- Main port security system (including containers)
- Unregulated land borders and wide land surveillance system
- Integrated check points security

3 Capability projects:

Detection, identification & authentication

- Air 3D detection of manned and unmanned platforms

Situation awareness & assessment (surveillance)

- Surveillance in wide maritime areas through active and passive means

Communication

- Solutions for ensuring disruption-tolerant end-to-end communication availability, relying on physical and logical technologies, on diversity of hybrid systems



WP 2007 - Mission / Activity 4: Restoring security and safety in case of crisis

Call FP7-SEC-2007-1



4 Integration projects:

- Network enabled command and control system
- Integrated specialist search and rescue system
- Post incident basic service restoration system
- Wireless communication for EU crisis management

4 Capability projects:

Situation awareness & assessment (surveillance)

- Developing a common operational picture between regional and national authorities, first responders etc.

Command & control

- Intelligent decision support

Incident response

- Personal equipment
- Neutralisation of devices/effects



WP 2007 - Cross cutting activity 5: Security systems integration, interconnectivity and interoperability

Call FP7-SEC-2007-1



- Not open for self-standing actions in the Security Research call 1
- Can be addressed related to mission areas 1, 2, 3 and 4.
- Self-standing actions are addressed in the Joint Call ICT & Security 1



WP 2007 - Cross cutting activity 6: Security & Society (1)

Call FP7-SEC-2007-1



Citizens and Society

- Understanding factors that cause citizen's feeling of security and insecurity
- Human behaviour before, during and after crisis situations to understand how people react to threat alerts and security instructions
- Communication strategies of public authorities (including media strategies) before, during and after crises concerning risks, security threats and measures

Understanding organisational structures and cultures of public users

- Behavioural, organisational and cultural issues to understand public user needs including those for joint European action
- Inventories of existing national resources, institutional mandates and practices across relevant sectors

Foresight, scenarios and security as an evolving concept

- Research in broad societal foresight to capture new and emerging threats as well as other aspects of security as an evolving concept (e.g. ethical and economic aspects)
- Research on rigorous methodologies for assessment of security investments and trade-off between security and other societal objectives (e.g. privacy and social cohesion)



WP 2007 - Cross cutting activity 6: Security & Society (2)

Call FP7-SEC-2007-1



Security Economics

- Research survey on the emerging field of European security economics research to provide an analytical framework for complementary research
- European Security Indicator: methodological research to provide a few select indicators of security and security policy in Europe measuring the effects of both insecurity and security policies on the economy
- Public finance: Studying the scale, function and roles of various types of government security spending across Europe and time

Ethics and justice

- How to take the necessary measures to ensure the security of citizens while respecting the civic rights and how this is implemented in practice, particularly addressing the issue of privacy and security
- Ethical implications of the continuum of internal and external security



WP 2007 - Cross cutting activity 7: Security Research coordination and structuring

Call FP7-SEC-2007-1



- Technology Watch
- European Security Research Networks, incl. for standardisation
- Network of facilities for test and validation of security related products
- Transparency and networking amongst Member States and associated countries
- Supply chains and market integration
- Trans-national co-operation among NCP's



Joint Call ICT & Security 1: Activity 1 (Cross cutting activity 5): Security Systems Integration, interconnectivity and interoperability

Call FP7-ICT-SEC-2007-1



Security topics:

- Risk Assessment and contingency planning for interconnected transport or energy networks
- Modelling and simulation for training
- Optimized situational awareness through intelligent surveillance of interconnected transport or energy infrastructures
- ICT support for first responders in crises occurring in critical infrastructures

ICT topics



Timing of the Security Research Call

FP7-SEC-2007-1

Call FP7-SEC-2007-1



- 22 December 2006 **Publication**
- 31 May 2007 **Deadline**
- June/July 2007 Evaluation
- August 2007 Commission funding decision
- September 2007 Start of negotiations
- December 2007 1st set of grant agreements signed

~155 M€

More information: cordis.europa.eu/fp7/calls/



Timing of the Joint Call ICT & Security

FP7-ICT-SEC-2007-1

Call FP7-ICT-SEC-2007-1



30 August 2007 **Publication**

29 November 2007 **Deadline**

December 2007 Evaluation

January 2008 Commission funding decision

February 2008 Start of negotiations

Autumn 2008 Grant agreements signed

20 + 20 M€

More information: cordis.europa.eu/fp7/calls/



Call FP7-SEC-2007-1



Important to know for FP7-SEC-2007-1

Proposal submission

- No classified proposals in this call
 - Classified or sensitive actions possible
 - Special Committee Procedure, SAL
- All topics open for international cooperation
 - Associated countries treated like Member States
- All (collaborative project) topics open for 75% funding
- Important: End user involvement
- Electronic submission of proposals

Selection

- Single step evaluation
- Evaluation by experts from supply and demand side
- Hearings for successful demonstration and integration projects



Evaluation Criteria



Same criteria than all FP7 :

- Scientific / technological quality
 - Implementation
 - Impact
-
- **Relevance to the call** is not a criterion
 - Clearly out of scope: non eligible
 - Partly out of scope: reflected in S/T quality and Impact
 - **Complementarity**: reflected in S/T quality
 - i.e. PASR / FP6-7 / national / EDA research activities
 - **End user involvement**: reflected in Implementation
 - **Mission oriented project**: reflected in Impact



Future Calls for Proposals



- Annual Security research calls as from 2008 to be opened in June
- Option for further joint and coordinated calls
- Backloading of annual budgets

Security Research Call 2 (2008)

- 3 Demonstration projects phase 1: Logistic and supply chain security; CBRNE (Chemical, Biological, Radiological, Nuclear agents and Explosives); Aftermath crisis management system
- Integration projects: Advanced forensic toolbox; Secure strategic information management system; Detection system for abnormal behaviour; Open space security; Built infrastructure protection; Sea borders surveillance system; Extended smart borders; First responder of the future

Security Research Call 3 (2009)

- 2 Demonstration projects phase 2 (phase 1 called for in Security Research Call 1)

Security Research Call 4 (2010)

- 3 Demonstration projects phase 2 (phase 1 called for in Security Research Call 2)

Security Research Calls 5 (2011) and 6 (2012):

Details not yet planned



SRC'07 2nd European Conference on Security Research



- 26-27 March 2007 in Berlin
- Hosted by the German EU Presidency, in cooperation with the Commission
- Information and registration: <http://www.src07.de>



More information

- EU Security research websites:
 - <http://ec.europa.eu/enterprise/security>
 - <http://cordis.europa.eu/fp7/calls/>
- Helpdesk (will change):
 - entr-pasr@ec.europa.eu