The H2020 "Secure societies" WP 2016-2017

Policy novelties

Giornata Nazionale di Lancio dei Bandi 2016-17 in H2020
Rome, 19th January 2016

Alberto Contaretti
Programme officer/EU policies
Matching pan-European solutions to pan-European needs

- Contributing to the implementation of latest EU security policies
- Boosting the "Europeanisation" of practitioners' demand for innovative solutions and the industrial offers of innovations
- Combining cyber and physical aspects of security
- Increased number of PCPs
30 topics. Total budget: €382 million

Areas of activity:
- Critical Infrastructure Protection
- Disaster-resilience: safeguarding and securing society
- Fight against Crime and Terrorism
- Border Security and External Security
- Digital Security

Call dates:
“Research and innovation is essential if the EU is to keep up-to-date with evolving security needs. Research can identify new security threats and their impacts on European societies. It also contributes to creating social trust in research-based new security policies and tools. Innovative solutions will help to mitigate security risks more effectively by drawing on knowledge, research and technology.”
EU policy initiatives 2/3

- 2008 EU Action Plan on Enhancing the Security of Explosives
- Regulation (EU) No 98/2013 on the marketing and use of explosives precursors
- Final implementation report of the EU Internal Security Strategy 2010-2014
  COM(2014) 365 final
- Towards a stronger European disaster response: the role of civil protection and humanitarian assistance,
  COM(2010)600
- 2006 EU Action Plan on combating terrorism
- The Security Industry Policy Action Plan
  COM (2012)417 final


- Civilian Headline Goal 2008


- EU Civil Protection Mechanism (Decision 1313/2013/EU)
Call - CRITICAL INFRASTRUCTURE PROTECTION

CIP-01-2016-2017: Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe
Call - SECURITY (1)
Disaster-resilience: safeguarding and securing society

SEC-01-DRS-2016: Integrated tools for response planning and scenario building
SEC-02-DRS-2016: Situational awareness systems to support civil protection preparation and operational decision making
SEC-03-DRS-2016: Validation of biological toxins measurements after an incident: Development of tools and procedures for quality control
SEC-04-DRS-2017: Broadband communication systems
SEC-05-DRS-2016-2017: Chemical, biological, radiological and nuclear (CBRN) cluster
WP 2016-2017

Call - SECURITY (2)
Fight against crime and Terrorism

SEC-06-FCT-2016: Developing a comprehensive approach to violent radicalization in the EU from early understanding to improving protection
SEC-07-FCT-2016-2017: Human Factor for the Prevention, Investigation, and Mitigation of criminal and terrorist acts
SEC-08-FCT-2016: Forensics techniques on: a) trace qualification, and b) broadened use of DNA
SEC-09-FCT-2017: Toolkits integrating tools and techniques for forensic laboratories
SEC-10-FCT-2017: Integration of detection capabilities and data fusion with utility providers’ networks
SEC-11-FCT-2016: Detection techniques on explosives: Countering an explosive threat, across the timeline of a plot
SEC-12-FCT-2016-2017: Technologies for prevention, investigation, and mitigation in the context of fight against crime and terrorism
Call - SECURITY (3)
Border Security and External Security

SEC-13-BES-2017: Next generation of information systems to support EU external policies
SEC-14-BES-2016: Towards reducing the cost of technologies in land border security applications
SEC-16-BES-2017: Through-foliage detection, including in the outermost regions of the EU
SEC-17-BES-2017: Architectures and organizations, big data and data analytics for customs risk management of the international goods supply chain trade movements
SEC-18-BES-2017: Acceptance of "no gate crossing point solutions"
SEC-19-BES-2016: Data fusion for maritime security applications
SEC-20-BES-2016: Border Security: autonomous systems and control systems
General Matters

SEC-21–GM-2016-2017: Pan European Networks of practitioners and other actors in the field of security
Call – DIGITAL SECURITY FOCUS AREA

**DS-01-2016**: Assurance and Certification for Trustworthy and Secure ICT systems, services and components

**DS-02-2016**: Cyber Security for SMEs, local public administration and Individuals

**DS-03-2016**: Increasing digital security of health related data on a systemic level

**DS-04-2016**: Economics of Cybersecurity

**DS-05-2016**: EU Cooperation and International Dialogues in Cybersecurity and Privacy Research and Innovation

**DS-06-2017**: Cryptography

**DS-07-2017**: Addressing Advanced Cyber Security Threats and Threat Actors

**DS-08-2017**: Privacy, Data Protection, Digital Identities
WP 2016-2017

Topics

- **SME Instrument:**
  covers any aspect of "Secure Societies"

- **Fast track to Innovation – Pilot:**
  covers any aspect of "Secure Societies"
Pan-European networks of practitioners

To free security practitioners from operational work to focus on forward-looking problem-solving by:

- exchanging views across borders,
- analysing the gaps in the tools they need to operate, and
- prioritising future R&D efforts

**SEC-21**: Pan European Networks of practitioners and other actors in the field of security
CBRN cluster

Structuring Europe’s industrial fabric in the CBRN (chemical-biological-radiological-nuclear) domain by: helping companies in the sector – particularly SMEs – to expand their market from national boundaries to a pan-European one

**SEC-05-DRS**: Chemical, biological, radiological and nuclear (CBRN) cluster
Physical and cyber aspects of security

To facilitate the much-needed synergy between security in the kinetic and digital worlds by financing innovation for the prevention, detection, response and mitigation of physical/cyber threats to Europe’s critical infrastructure across the territory of the 28 EU nations.

CIP-01: Prevention, detection, response and mitigation of the combination of physical and cyber threats to the critical infrastructure of Europe
PCP / PPI: Challenges & Opportunities in WP 2016-2017

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Pre-Commercial Procurement (PCP)

**Definition** included in the H2020 Rules for Participation (Regulation (EU) No 1290/2013 of 11 December 2013):

"Procurement of R&D services involving risk-benefit sharing under market conditions and competitive development in phases where there is a clear separation between the procurement of the R&D services procured from the deployment of commercial volumes of end-products (PPI)."

**Expected results:**

- Price/quality products that better fit public sector needs
- Earlier feedback for companies developing solutions
- Better take-up
PCP+PPI

The PCP+PPI scheme

Applied R&D / Pre-commercial Procurement (PCP)

<table>
<thead>
<tr>
<th>Phase 0</th>
<th>Curiosity Driven Research</th>
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<td>Supplier A</td>
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<td>Supplier B</td>
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<td>Supplier C</td>
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<td>Supplier D</td>
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<tr>
<th>Phase 1</th>
<th>Solution design</th>
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<td>Supplier B</td>
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<td>Supplier C</td>
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<th>Phase 2</th>
<th>Prototype development</th>
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<td>Supplier B</td>
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<td>Supplier C</td>
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<td>Supplier D</td>
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<tr>
<th>Phase 3</th>
<th>Original development of limited volume of first test products / services</th>
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<td>Supplier B</td>
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<td>Supplier D</td>
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<tr>
<th>Phase 4</th>
<th>Deployment of commercial volumes of end-products Wide diffusion of newly developed solutions</th>
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<tr>
<td>Supplier(s) A,B,C,D and/or X</td>
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Also normally multiple sourcing here to keep competition going
2 CSAs preparing for a PCP (DRS18 and BES11)

1 PCP (BES 3) which received 1 application

General expression of interest by potential applicants, in spite of the presence of the "special clause"
Building on the positive experience of the previous biennium, **stronger presence of PCP in the Work Programme**

1. **CSA preparing for a PCP** (SEC-02-DRS)

3. **PCPs** (SEC-04-DRS, SEC-09-FCT, SEC-13-BES)

Scope of the "**Special clause**" better defined
Lessons learnt

✓ Greater need to mobilise demand side constituency for a PCP (and formerly – POV) than for a collaborative R&D project

✓ Support needed at the national level to motivate national procurement authorities

✓ High commitment of the consortia of national public authorities to jointly approach the supply side (and take joint liability for R&D investments)

✓ Difficulty to leverage additional resources due to economic crisis.
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New eligibility criteria/mandatory participation aspects

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Central novelties

1. Introductory statements
2. The participation of practitioners is a mandatory criterion for nearly all topics.
3. Individual budgets for most of the topics
Introductory statements

Why do we apply these?

- Avoid misunderstandings
- Reduce rejections of proposals

How often do we apply these?

- Throughout the whole document
Meaning of the mandatory participation of specific entities

When a topic has eligibility and admissibility conditions which state: "mandatory participation of" specific entities" (e.g.: '3 Law Enforcement Agencies (LEA) from 3 different MS or AC) means that these entities have to be participants and should be directly involved in the carrying out of the tasks foreseen in the grant.
Mandatory criteria

Why do we apply these?

- Enhance policy support
- Improve market uptake
- Increase Innovation dimension
- Reduce oversubscription
- Reduce duplications

How often do we apply these?

- 21 out of 22 topics have mandatory criteria
SEC-05-DRS - Scope

- [...] **part a)**, the CSA must commit to issue: at months 3 and 9 each year, [...] the catalogue of technologies mentioned in the scope of this topic and to make it available upon request; [...] Article 28.1 of the Model Grant Agreement will be applied.

- [...] **part a)** will be complementary to the grant agreements under SEC-05-DRS-05-2016-2017 part b) [...] Article 2 and Article 41.4 of the Model Grant Agreement will be applied.

- [...] **part b)** will be complementary to the grant agreement under SEC-05-DRS-05-2016-2017 part a) [...] Article 2, Article 31.6 and Article 41.4 of the Model Grant Agreement will be applied.
For part b) (2017): each RIA must establish a "Collaboration Agreement" with participant(s) in the CSA. A draft of the "Collaboration Agreement" must be attached to the RIA proposal, and endorsed by at least one participant in the CSA.

All beneficiaries of the RIA grant agreements must be independent from each beneficiary in the CSA.

Each RIA proposals must be coordinated by an SME.
For part a): Practitioner participation from at least 8 Member States or Associated Countries is mandatory.
- Each proposal must include a plan, and a budget amounting at least 25% of the total cost of the action, to interact with industry, academia, and other providers of innovative solutions with a view to assessing the feasibility of their findings;
- Each consortium must commit to produce, every 6 or fewer months, a report about their findings in the 3 lines of actions (see in “Scope”);
- Each proposal must include a work-package to disseminate their findings, including an annual workshop;
- In 2017, only the disciplines not covered in 2016 will remain eligible. The list of disciplines excluded from the 2017 Call will be provided to applicants.

For part b): Practitioner participation from at least 2 Member States or Associated Countries from outside the region is mandatory.
- Each proposal must include a plan, and a budget amounting at least 25% of the total cost of the action, to interact with industry, academia, and other providers of innovative solutions with a view to assessing the feasibility of their findings;
- Each consortium must commit to produce, every 6 or fewer months, a report about their findings in the 3 lines of actions (see in “Scope”);
- Each proposal must include a work-package to disseminate their findings, including an annual workshop;
- In 2017, only the geographical areas not covered in 2016 will remain eligible. The list of regions excluded from the 2017 Call will be provided to applicants.

For part c): Practitioner participation from at least 8 Member States or Associated Countries is mandatory.
- Each consortium must commit to produce, every 6 or fewer months, a report about their findings in the 3 lines of actions (see in “Scope”);
- Each proposal must include a work-package to disseminate their findings, including an annual workshop;
- Only one such network may be supported over the 2016-2017 period.

For part d): proposals may only include NCPs from EU Member States, Associated Countries and Third Countries that have been officially appointed by relevant national authorities. The consortium should have a good representation of experienced and less experienced NCPs from at least 8 Member States or Associated Countries
- EU Member States or Associated Countries choosing not to participate as a member of the consortium should be identified, and the reason for their absence must explained in the proposal;
- No more than one such network may be supported, in 2017.
Individual budgets

Why do we apply these?

- Reduction of "orphan topics"
- Fewer duplications of projects
- Better support to policy implementation
- No competition between CSA/RIA vs IA
- Reduction of bias in certain scientific areas

How often do we apply these?

- Nearly all the topics have individual budgets, with a few exceptions.
International Dimension

All 2016-17 topics are open to international cooperation

Some topics explicitly encourage it:

"In line with the EU's strategy for international cooperation in research and innovation international cooperation is encouraged, and in particular with international research partners involved in ongoing discussions and workshops, with the European Commission. Legal entities established in countries not listed in General Annex A and international organisations will be eligible for funding only when the Commission deems participation of the entity essential for carrying out the action."

Eligibility for funding: Art. 10.2 of the Rules for Participation REGULATION (EU) No 1290/2013
Eligibility for funding

<table>
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<tr>
<th>Applicants automatically eligible for funding:</th>
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<tbody>
<tr>
<td>• EU Member States and the Overseas Countries and Territories linked to Member States</td>
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<td>• Countries associated to Horizon 2020</td>
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<td>• Low or medium per-capita income or low GDP*</td>
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<td>• International European interest organisations</td>
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<tr>
<th>Funding for applicants that are not automatically eligible possible if:</th>
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<tr>
<td>• stated in the Work Programme</td>
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<tr>
<td>• provided for under a bilateral scientific and technological agreement</td>
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<td>• exceptionally, when the Commission deems participation of entity essential</td>
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*List in Annex A of the Rules of Participation
Thank you for your attention!

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