



European Motivation for EU Interoperable BroadBand for PPDR

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General Policy Background





State of the Union of President Jean-Claude Juncker

[...] Following the recent terrorist attacks on European soil, the Commission has proposed a number of key actions and initiatives, such as a counter-terrorism Directive, measures to address terrorist financing, and tighter controls on firearms, in order to move towards an operational and effective Security Union. These proposals now need to be adopted, with their ambition maintained. [...]





Mission letter of Sir Julian King Commissioner for the Security Union

During our mandate, I would like you to support the Commissioner for Migration, Home Affairs and Citizenship in the following tasks:

- [...] **"Ensuring that EU-financed security research targets the needs of security practitioners and develops solutions to forthcoming security challenges [...]."**





Task Force

A Task Force composed by experts from the Commission services and supervised by the Director-General for Home Affairs will support you. This Task Force will in particular include experts from Units B4 (Innovation and Industry for Security) and D1 (Terrorism and Crisis Management) of DG HOME, from Units A2 (Aviation Security) and A4 (Land and Maritime Security) of DG MOVE [...]





European Agenda on Security

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. Horizon 2020 can play a central role in ensuring that the EU's research effort is well targeted, including factoring in the needs of law enforcement authorities by further involving end-users at all stages of the process, from conception to market.





European Agenda on Security

The European Agenda on Security underlined that a competitive EU security industry can also contribute to the EU's autonomy in meeting security needs.





Policy background - BROADMAP

- *Strong interest from Member States, both on ministerial level as well as on end-user level.*
- *Cross-border communication issues between police forces.*
- *Industrial competitiveness.*
- *Lack of interoperability, not only technical but also organisational (including language).*
- *Artificial borders and obstacles.*
- *Crime and emergencies do not know borders.*





Research on secure broadband communication in FP7 and Horizon 2020 Security





FP7 topics on Secure Communication

Topic number	Topic title
ICT-SEC-2007-1.0-04	Security systems integration, interconnectivity and interoperability: ICT support for first responders in crises occurring in critical infrastructures
SEC-2007-4.2-04	Wireless communication for EU crisis management
SEC-2010.4.1-1	Aftermath crisis management - phase I
SEC-2011.5.2-1	Technical solutions for interoperability between first responder communication systems – Capability Project
SEC-2012.5.2-1	Preparation of the next generation of PPDR communication network - Capability Project





FP7 projects on Secure Communication

Project Acronym	Project Title	Total
EULER	EUropean software defined radio for WireLEss in joint secuRity operations.	€8.720.692,00
FREESIC	Free Secure Interoperable Communications	€3.284.040,00
GERYON	Next generation technology independent interoperability of emergency services	€2.512.308,65
HIT-GATE	Heterogeneous Interoperable Transportable GATEway for First-Responders	€3.451.257,72
PPDR-TC	Public Protection and Disaster Relief – Transformation Center	€2.890.684,20
SALUS	Security And Interoperability in Next Generation PPDR CommUnication InfrastructureS	€3.499.829,00
SECRICOM	Seamless Communication for Crisis Management	€8.606.568,20
DITSEF	Digital and Innovative Technologies for Security and Efficiency of First Responders operation	€2.798.517,50
HELP	Enhanced Communications in Emergencies by Creating and Exploiting Synergies in Composite Radio Systems	€991.255,00
FREESIC	Free Secure Interoperable Communications	€3.284.040,00
Total		€40.039.192,27





DRS-18-2015: interoperable next generation of broadband radio communication system for public safety and security

Expected impact:

To create an EU-interoperable broadband radio communication system for public safety and security, providing better services to first responders and police agencies and allowing shorter reaction times to prevent from more casualties or victims, deployed by 2025.





Specific goals of BROADMAP

- Basis for the technical requirements for a potential PCP.
- Basis for the creation of an entity to manage the future Pan-European Communication network.





SEC-04-DRS-2017: Broadband communication systems

- *"The SEC-04-DRS-2017 will be modified during the update of the 2017 Work Programme [...]."*
- *"Phase 1: Plan and implement the tender procedures, based on the set of specifications and tender documents delivered by the CSA launched under Call DRS-18-2015 and available upon request to the European Commission"*
- And to provide the specifications for a entity to be created.
- Budget: 10 million Euros



PCP

- *When*

- Challenge **requires R&D** to get new solutions developed. Problem clear, but pros / cons of several potential competing solutions not compared / validated yet. **No commitment to deploy (PPI) yet.**

- *What*

- **Public sector buys R&D to steer development of solutions to its needs**, gather info about pros / cons of alternative solutions to be better informed to make specs for a follow-up PPI possibly later, **to avoid supplier lock-in** (create competitive supply base)

- *How*

- Public sector buys R&D from **several suppliers in parallel** (comparing alternative solution approaches), in form of competition evaluating progress after critical milestones (design, prototyping, test phase), risks & benefits of R&D (e.g. IPRs) shared with suppliers to maximise incentives for wide commercialisation





Thank you for your attention !

More information:

http://ec.europa.eu/dgs/home-affairs/financing/fundings/research-for-security/index_en.htm

The Work Programme:

http://ec.europa.eu/research/participants/data/ref/h2020/wp/2016_2017/main/h2020-wp1617-security_en.pdf

