



BROADMAP

Mapping Interoperable EU PPDR Broadband
Communication Applications and Technology

A proposal to Horizon2020 for DRS-18-2015

Dec. 2015



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EC's Horizon2020 project call

Topic: [DRS-18-2015: Communication technologies and interoperability topic 1: interoperable next generation of broadband radio communication system for public safety and security](#)

Closed

Publication date: 11 December 2013

Types of action: CSA Coordination and support action
Timeline Model: single-stage
Start date: 25 March 2014

Topic Description

Scope:

Specific challenge:

The users/potential buyers participating in the action should agree on specifications, and set standards for the next generation of an EU interoperable radio communication system considering at least three markets: one for broadband network system technology/setup/operation, one for end-user devices and one for applications, taking into account previously EU funded R&D project on the same issues.

Scope:

Different organisation schemes, such as a dedicated EU Mobile Virtual Network Operator for law enforcement agencies, a European Economic Interest Group, national interoperable networks, or any other way will have to be studied.

The participants will propose the best suitable architecture/solution in order to establish the desired EU-interoperable system.

The action will develop the core set of specifications, roadmap for research or tender documents to be used as a basis for national procurements, or the legal setting of alternate organisational solutions taking into account the above-mentioned requirements for interoperable next generation PPDR broadband

A Cornerstone for future Critical Mobile Broadband Communications

BROADMAP

Co-ordination and Support Action (CSA)

BROADWAY

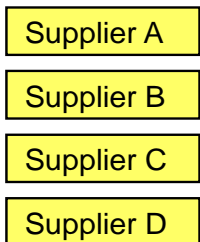
Applied R&D / Pre-commercial Procurement (PCP)

BROADNET

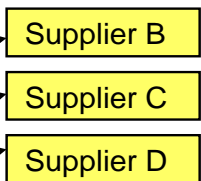
Public Procurement of Innovative Solutions (PPI)

Phase 0
Requirements
Solutions
Transition
Roadmapping

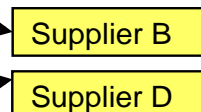
Phase 1
Solution design



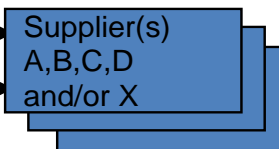
Phase 2
Prototype
development



Phase 3
Original development
of limited volume
of first test products /
services



Phase 4
Deployment of commercial
volumes of end-products
Wide diffusion of newly developed
solutions



Also normally multiple sourcing here
to keep competition going

2016 2018

Circa 2020-2022

2025

2025 Commercially Deployed Interoperable
Broadband Applications, Services, Networks, Devices
for PPDR



Our goal

Establishing the PPDR requirements,
a core set of specifications and
the roadmap for procurement to achieve
future evolution of
EU broadband applications and
interoperable radio communication
solutions

Objectives

- To **collect, assess and validate** the PPDR's wireless broadband communication requirements
- To **establish** a core set of specifications to fulfill the requirements
- To **define** transition roadmaps for research and standardisation for future evolution of European interoperable radio communication solutions, within legal procurement constraints
- To **prepare** the ground for a new eco-system to catalyse new applications, services and processes making use of broadband capabilities for Public Safety and Security

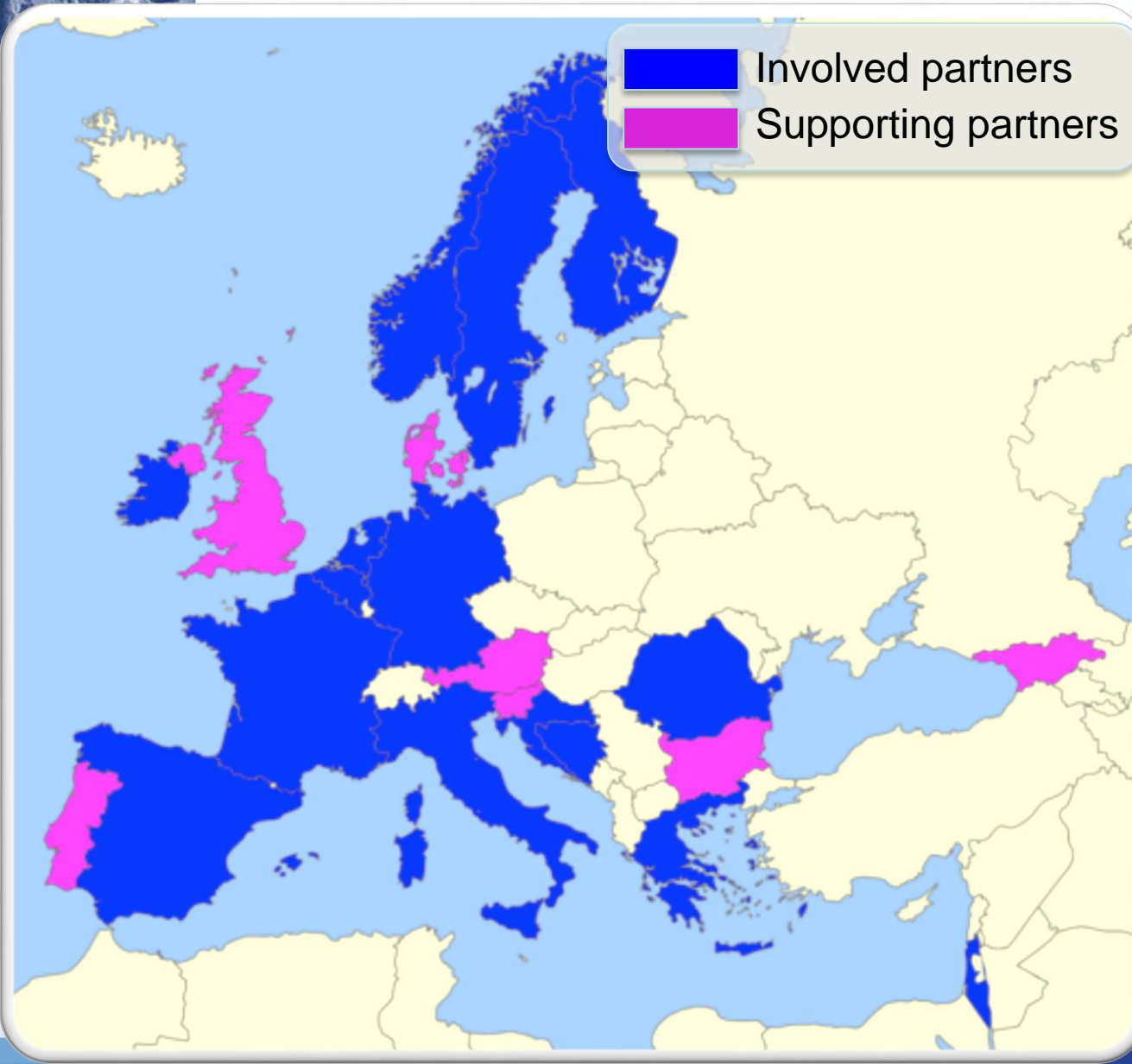




Consortium

| Participant | Participant Organisation Name | Country |
|-------------|---|------------------------|
| 1 PSCE | Public Safety Communication Europe Forum (Coordinator) | Belgium |
| 2 FRMOI | Ministère de l'Intérieur | France |
| 3 BEMOI | Service Public Fédéral Intérieur | Belgium |
| 4 BHMOŠ | Ministry of Security | Bosnia and Herzegovina |
| 5 CRMOI | Ministry of Interior | Croatia |
| 6 FIMOI | Ministry of Interior | Finland |
| 7 DEBRK | Bayerisches Rotes Kreuz Bavarian Red Cross | Germany |
| 8 SEMSB | Swedish Civil Contingencies Agency | Sweden |
| 9 EAGS | An Garda Síochána National Police Service of Ireland | Ireland |
| 10 ESMIR | Ministerio del Interior | Spain |
| 11 LMDA | Magen David Adom | Israel |
| 12 GRMOI | Centre for Security Studies - Ministry of Citizen Protection & Public Order | Greece |
| 13 NODNK | Directorate for Emergency Communication | Norway |
| 14 ITMOI | Ministry of Interior | Italy |
| 15 ROSTS | Special Telecommunications Services | Romania |
| 16 NLPOL | The National Police of the Netherlands | The Netherlands |
| 17 DGFLA | De Gaulle Fleurance & Associés | France |

A Broad Map



PSCE providing project coordination and support,
Consortium Leader:
Dr. David Lund, PSCE

15 potential buyers/end users, of which

- 12 represent EU Member States
- 3 represent Associated Countries
- 8 represent the responsible Ministry within their country
- 7 represent end user organizations and/or operators of emergency service networks

48 external supporters

- 7 extra countries

DGFLA providing legal expertise

Principles

- **All output** is generated from a PPDR end user perspective
- The views of the **widest possible reach across Europe** of Critical Communications needs and use.
- To utilise all **existing and relevant materials from previous and on-going activities**
- To utilize the **combined experience** on PPDR communications
- To foster **cross fertilization and avoid duplication** of ideas and plans between Member States and associated countries
- To **influence EU Policy and standardisation** to support the future roadmap of future evolution of EU broadband applications and interoperable radio communication solutions
- To take account of **legacy investment in state of the art** radio communications by PPDR



Work-Packages

WP1 Project Management

WP2 Requirements
Consolidation

WP3 Candidate Solutions

WP4 Transition Roadmap

WP5 Outreach and Dissemination



User's input is needed

Especially in WP 2 – „**Requirement consolidation**“
Your expertise is necessary.

The 15 national partners are organising **national workshops** to get your opinion
GO AND CONTACT THEM (or your neighbour country) to get you involved!

And join the **European Workshops** too !!!



Industry? Research?

EC call restricted Industry participation – avoid conflict with tenders / purchasements later

Project group decided to be End-Users only (+ legal advise)

Define open research issues / questions

PSCE took precaution measures to protect industry members' participation in PCP/PPI

PSCE-Users participate at the different workshops



Time line

- Aug 2015 – proposal submitted
- ~ Feb 2016 – EC decision
- ~ April 2016 – contract negotiation finished
- ~ May 2016 – Kick-off Meeting
- ~ fall 2016 – interim report
=> impact work program 2017/18
- ~ May 2017 – Project end
- ~ 2018-2020 – next project „BroadWay“ (PCP)
- ~ 2021-..... – „BroadNet“ (PPI)



MAKE YOUR VOICE HEARD !!!

CONTRIBUTE!

Questions ??