

# Public Safety Communication Europe Forum

# Broadband WG Report

Rome November 29<sup>th</sup>, 2012 www.psc-europe.eu





# Overview

 Cooperation with TCCA CCBG on Broadband communication

Creation of an FP7 proposal EPISECC



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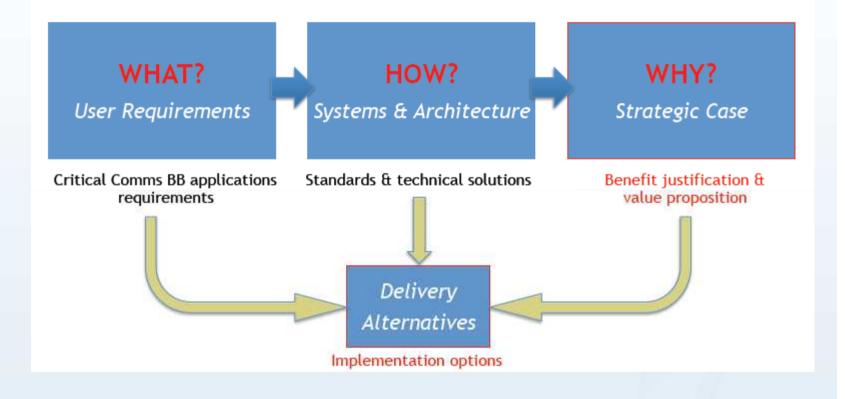
## Introduction

- Broadband communication becomes essential for public safety services
- PSCE works closely with TCCA CCBG (Critical Communication Broadband Working Group)
- PSCE Representatives in CCBG:
  - Manfred Blaha
  - Harold Linke





# CCBG - Structure





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# Roadmap Timescales

Based on practical implementation of a harmonised European solution

#### **NOTES**

- Tetra, Tetrapol, P25, GSM-R are already for years in use for mission critical voice
- Tetra-1, Tetrapol, P25 and GSM-R have limited data functionalities
- TEDS is now possible and offers more data capacity

Capacity

<---->

TETRA-1/Tetrapol/P25/GSM-R mission critical Data

TETRA/Tetrapol/P25/GSM-R mission critical Voice

2005

2012

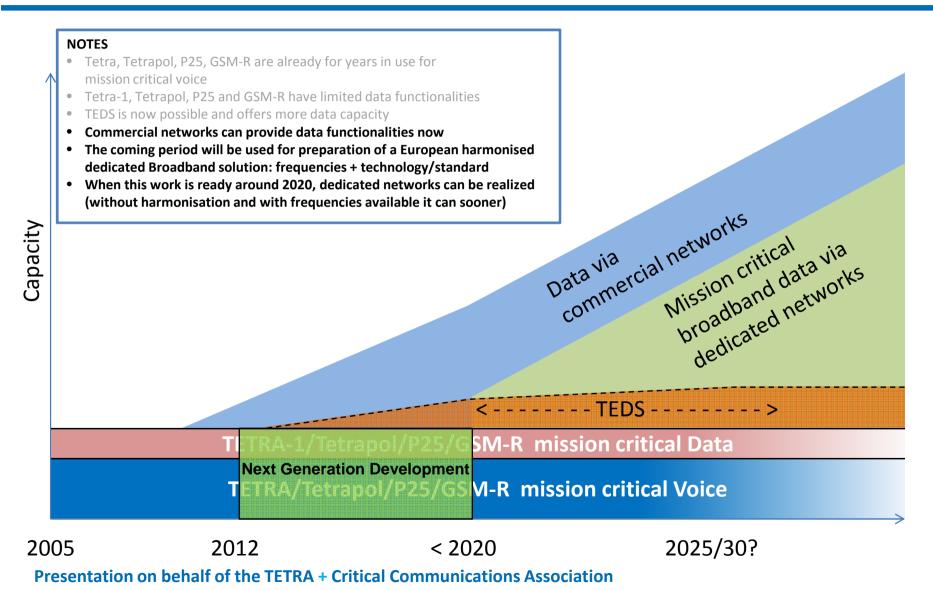
< 2020

2025/30?



# Roadmap Timescales

Based on practical implementation of a harmonised European solution





# Roadmap Timescales

Based on practical implementation of a harmonised European solution

### **NOTES** Tetra, Tetrapol, P25, GSM-R are already for years in use for mission critical voice Tetra-1 and GSM-R have limited data functionalities TEDS is now possible and offers more data capacity Commercial networks can provide data functionalities now The coming period will be used for preparation of a European harmonised dedicated Broadband solution: frequencies + technology/standard • When this work is ready around 2020, dedicated networks can be realized (without harmonisation and with frequencies available it can sooner) Period after 2020 is unclear: Capacity • Many existing networks will not be ready for replacement • Voice services over LTE will be limited in early implementations • Full TETRA functionality will take longer to replicate For many markets Tetra will still be used for voice anyhow Commercial networks will also still be used (e.g. for non-mission critical) in a hybrid model <----> SM-R mission critical D **Next Generation Development** M-R mission critical Voice 2025/30? 2005 2012 < 2020

Presentation on behalf of the TETRA + Critical Communications Association



# User Requirements SubGroup

- Representing the users + operators in the CCBG
- Collecting the different URS documents from the different existing (user/operator) platforms (mainly Police !!!)
- Impact of the new developments on applications
  - future: social media, app's, multi-media, etc.
- Workshop with PSC-E with universities etc could be interesting





# Systems & Architecture Subgroup

- Working on the network architecture
- LTE adopted as the broadband technology for PPDR
- Working closely with 3GPP to introduce the requirements of PPDR
- Defined use cases for 3GPP
- Spectrum Discussions Presentation by Jeppe
- New Work Items defined and accepted
  - Group Communication System Enabler for LTE
  - Proximity Services

Issue: Boundary line between Application and 3GPP domain needs to be defined





## Updated 3GPP Work Items and Feasibility Studies status

- Group Communication System Enablers for LTE (SA1 WI)
  - WI and TS completion: 25%
  - A second Ad Hoc meeting with 3GPP SA1 will take place in January (Prague)
    - A third one is likely to be needed in March/April
  - Exception will be requested to 3GPP SA to expand until June 2013 (vs March)
    - objective is to keep GCSE in Release 12 scope
- Proximity Services (SA1 FS)

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- WI has been approved by 3GPP SA1 to seek Plenary 3GPP SA approval in December
- WI includes Discovery and Communications over E-UTRA
  - within network coverage (limited to the cases under continuous operator network control)
  - outside network coverage (PS only)
- Objective is to have ProSe in Release 12 scope





## FP7 proposal EPISECC

- PSCE Broadband working group and TCCA CCBG initiative
- Security call
- Open since: July 10th
- Submission Deadline: November 22nd, 2012
- Topic SEC-2013.5.1-1
- Analysis and identification of security systems and data set used by first responders and police authorities
- Proposal: Establish Pan-European Information Space to Enhance seCurity of Citizens - EPISECC





# FP7 proposal EPISECC - Partners

AIT Austrian Institute of Technology	Austria
GmbH	
Cassidian Finland OY	Finland
Cassidian SAS	France
Sveuciliste u Splitu (University of	Croatia
Split)	
Public Safety Communication Europe	Belgium
Forum AISBL	
HITEC Luxembourg S.A.	Luxembourg
Frequentis AG	Austria
Deutsches Zentrum für Luft- und	Germany
Raumfahrt EV	
HW Communications Limited	United Kingdom
TETRA MoU Association Ltd	United Kingdom
Katholieke Universiteit Leuven	Belgium
IES Solutions SRL	Italy
Technische Universität Graz	Austria





## FP7 proposal EPISECC

### Architecture of project



#### Pan European Inventory

- time & means used, efficiency
- Used data and tools
- Organisational structure

### Taxonomy

### Architecture of Common Information space

Protocol & network interoperability Informational Interoperability Operational Interoperability

Proof of concept

Dissemination

Standardisation



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## Conclusion

- Continue cooperation with CCBG
- Synchronise input from PSCE users, industry and research with CCBG
  - Provide use cases for broadband communication and multimedia usage (e.g for fire brigades and civil protection)
- Continue definition of EU projects for broadband communication and information exchange

