

A European network where forces share communications, processes and a legal framework would greatly enforce response to disaster recovery and security against crime. Crime organizations are now globally connected while, in Europe, police transnational cooperation is limited, especially in terms of interoperable radio communications and jointly agreed procedures

The need of cooperation is growing in case of Disasters Relief. Since national resources are limited, and time is critical, sharing coordinated resources among EU Member States would improve effectiveness in operations.

Until now, uncertainty on costs, timescale and functionalities has slowed down integration of national Public Protection & Disaster Relief (PPDR) networks. The lack of interoperable communication systems, the limited available procedures with bilateral agreements has limited cooperation among PPDR forces, although a strong European commitment has been established through Schengen and Lisbon treaties.

The Innovation

The innovative results of the project, driven by an end-user advisory board, are:

- An European cloud network solution integrating all types of European national PPDR networks through a novel Inter System Interface (ISI) over IP protocol encompassing all the connections among TETRA and TETRAPOL networks
- New Mission Oriented Procedures, functional models and a legal agreement model that will be proposed for approval between Norway and Sweden within the project timeframe.
- Enhanced terminals with a novel architecture based on smartphones/tablets with PPDR applications
- New supporting tools to assess business sustainability, technology needs and improve training

The Project at a Glance

Project:

Inter System Interoperability for TETRA-TETRAPOL Networks

Project Coordinator:

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Duration

36 months (1/9/2013 – 31/8/2016)

Total Cost

€ 15,985,650.87

(EC grant requested € 10,292,495.07)

Programme

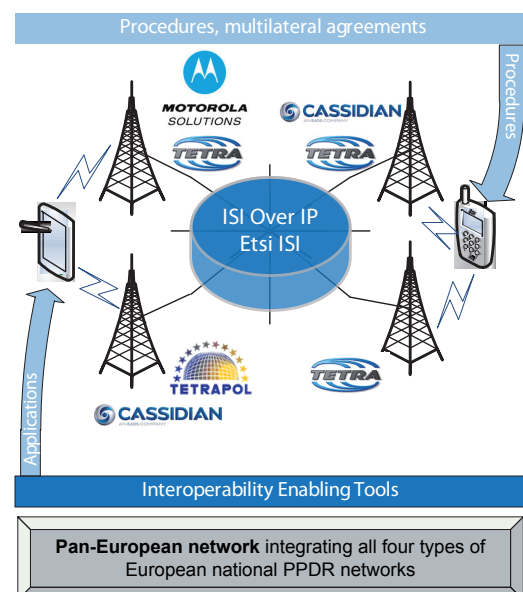
Seventh Framework Programme

Topic

SEC-2012.5.3-4: Global solution for interoperability between first responder communication systems

Consortium:

15 partners and 12 additional members of the advisory board from 15 European countries



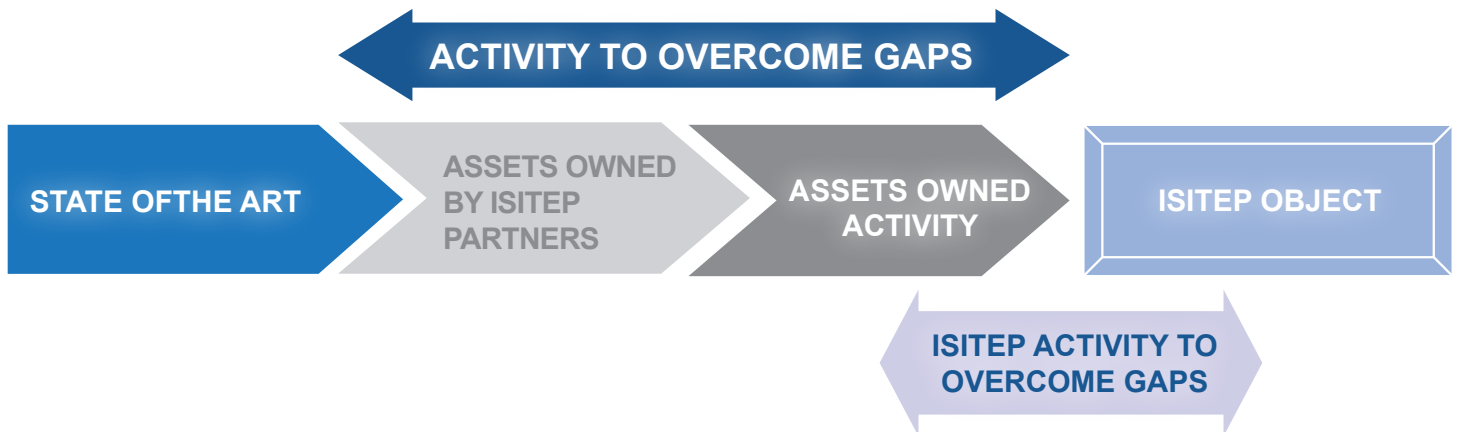
The Approach

In the past, cross border cooperation investments tended to be bespoke and oriented to single geographical and functional areas, with limited European interoperability and challenging business cases. Technology has now evolved and interoperability based on IP protocol suite and ETSI standard is now feasible and promising from a technical and economical point of view.

The Consortium

Being comprised all the manufacturers of national European TETRA-TETRAPOL networks, main PPDR stakeholders, specialist SMEs and research centres, the ISITEP consortium has all of the skills and the assets needed to derive the European PPDR network with the associated procedures, terminals and supporting tools.

The advances in technology will push further the competitiveness of the European PPDR industry.



The Solution

An effective European interoperability solution requires a novel framework where all the interoperability related factors are addressed simultaneously and coherently. Processes and organizations in PPDR operations shall be jointly addressed together with technological solutions at network and terminal level. Such solutions shall integrate all the four existing European network types (developed by ISITEP partners).

ISITEP project will follow this challenging objectives delivering an integrated framework. The gap among state of art and objectives is reduced by leveraging the assets already owned by ISITEP partners: know-how, IPR, facilities, infrastructures and previous investment from ISITEP industry raising to hundreds of millions of Euros. International

Participants

Selex ES (Coordinator)	IT	Motorola Solutions	DK-UK-PL
Belgian Federal Police (End Users)	BE	ISCOM (Research Org.)	IT
Directorate for Emergency Communication	NO	Università degli Studi Roma Tre	IT
MSB - Swedish Civil Contingencies Agency	SE	TNO	NL
Ministry of Security and Justice	NL	Universitat Politècnica de Catalunya	ES
AMPER (Large Enterprises)	ES	Devoteam (SME)	ES-IT
Cassidian Finland Oy	FI	Net Technologies (SME)	GR
Cassidian System FR	FR		

Advisory Board

The TETRA Association, Brussels Police, Direction general sécurité civil (Ministry of Interior) Belgium, Ministry of Interior Bulgaria, Joint Research Center Europe, Direction Generale de la Gendarmerie Nationale France, Federal Agency for Digital Radio of Security Authorities and Organizations German, Ministry of Citizens Protection: Hellenic Police Headquarter Greece, KOKOM National Centre on Emergency Communication in Health Norway, Guardia Civil (Gendarmerie) Spain, Federal Police Switzerland, Federal Office for Civil Protection Switzerland.