



# DITSEF



MINISTRY OF EMERGENCY SITUATIONS  
CIVIL PROTECTION National Service





# ditsef

## General Presentation & Overview

DOD/UPCT - 05 may 2010

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# Application area of DITSEF

► Main problems of the First Responders (FR) (fire fighters, police, etc.) in case of crisis occurring at critical infrastructures is *the availability of relevant information* for the First Responder and for the Local Manager due to several origins:

- Loss of communications
- Poor accuracy of localisation
- Lack of information concerning the environment (temperature, hazardous gases, etc.)
- Poor efficiency of the Human Machine Interface (HMI) on the first responder side are the main current drawbacks

## ► Current impact

- Reduced safety of FR
- Reduced efficiency of FR

# ■■■■ Objectives of DITSEF

## ▶ Main objective

- **DITSEF will provide technological demonstration for an operational system with :**
  - A technological step
  - In coherence with the legacy
  - In coherence with First Responders operational needs
  - With technical coherence between, positioning, sensors, and HMI technical aspect to obtain a usable solution.

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# Objectives : four application items

## ▶ Communication

- DITSEF will enhance the communication between the First Responders on the field and between the units and their HQ by providing self-organising, robust ad-hoc communications where the existing infrastructure may be compromised.

## ▶ Positioning

- The provision of accurate 3D positioning in indoor environments is specially difficult for current techniques. Therefore, the DITSEF project will investigate and implement novel techniques, which will take into consideration the operational environment and the end-users' needs.

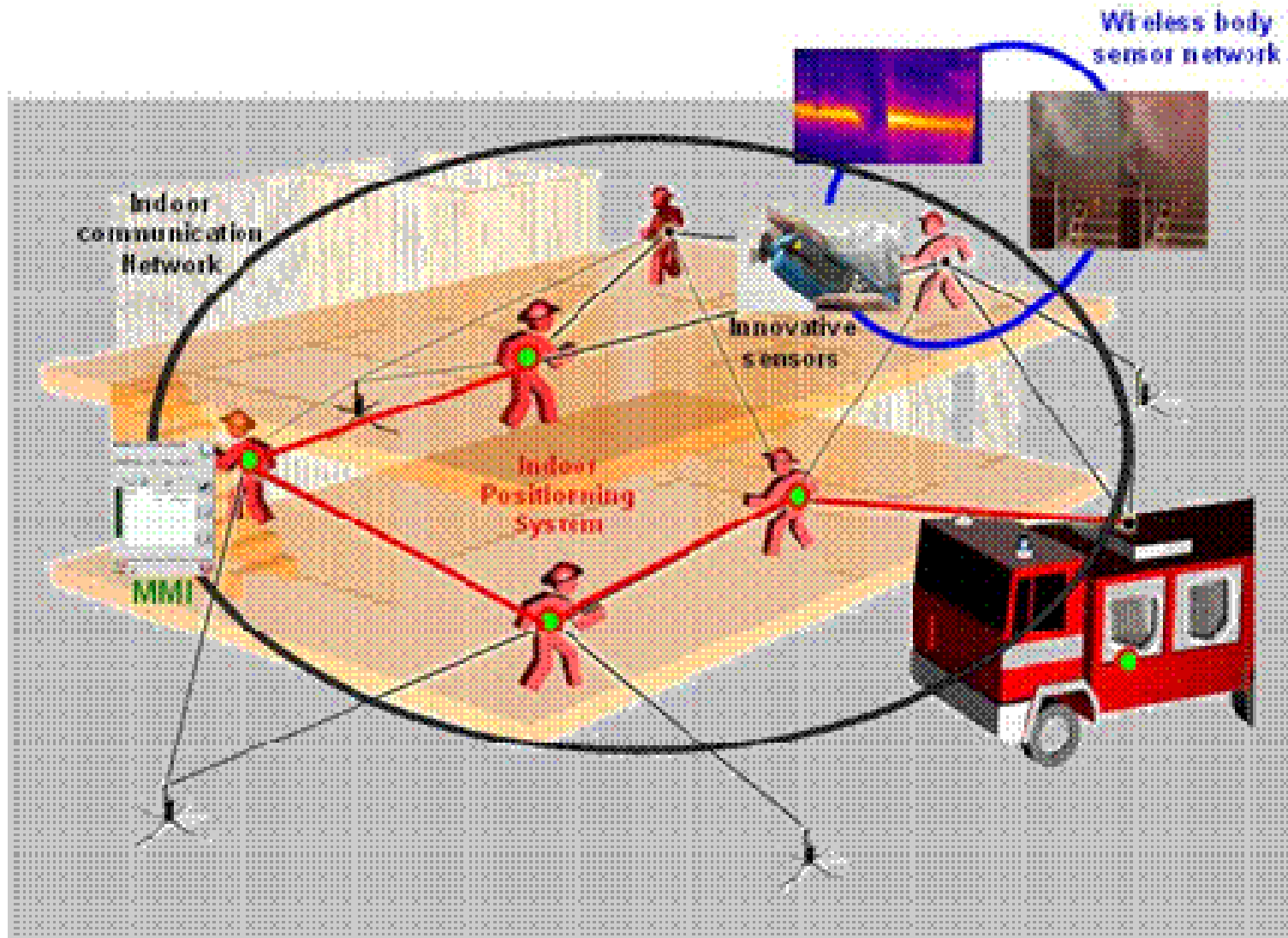
## ▶ Sensors

- It is of vital importance that, for an operation, the First Responders are equipped with sensors that offer a reliable overview of the situation and of the potential threats (CBRN, fire, etc.), in order to provide more accurate situation awareness and enhanced decision making.

## ▶ Human Machine Interface

- When implementing the aforementioned solutions, it must not be neglected that the First Responders have very little time to react. For that reason the HMI provided by DITSEF will play an important role in “reading”, sending and continuity of real-time information.

# DITSEF CONCEPT



# Consortium Partners

## Consortium partners:

- 10 partners
- 6 countries: France, Netherlands, Greece, Italy, Czech Republic, Bulgaria

Company		Country	Domain area
MES- TDCP	Ministry of Emergency Situations – National Center of Professional Education	Bulgaria	Security center demonstration
INFI	Infitheon Technologies	Greece	Communication
TSOFT	T-SOFT	Czech R	HMI
NCSR DEM	Demokritos	Greece	Communication
KEM	Kemea	Greece	End-users needs
SDS	Sagem Defense Sécurité	France	Coordination & Optronics sensors
ESN	EADS Defense & Sécurité	France	Indoor Communication
CEA	CEA LIST & CEA LETI	France	Chemical Sensors & Indoor positioning
TNO	TNO	NDL	HMI (Tactile interface & enhanced vision)
ED	Elsag Datamat	Italie	System integration & Demonstration

# Contract status of Ditsef

- ▶ Call identifier : FP7-ICT-SEC-2007-1
- ▶ Starting date: 1st January 2010
- ▶ 36 months duration
- ▶ Overall budget: 4 245 436 €
- ▶ Financial EC contribution: 2 800 000 €

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# ■ DITSEF workshops (1/2)

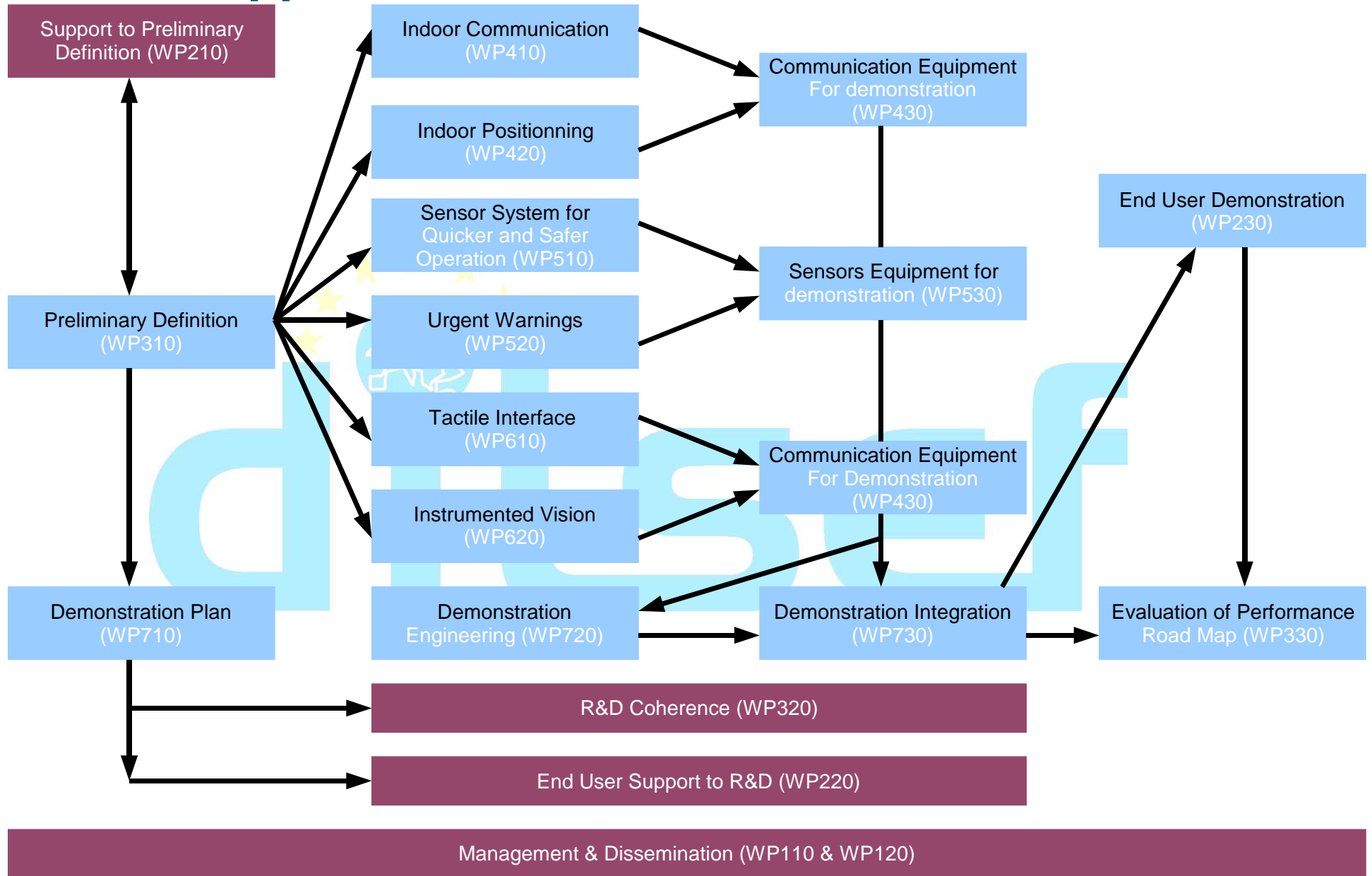
- ▶ **First Workshop** : The first workshop has been dedicated to the common and usual scenarios which drive for a FR interventions (analysis of potential threats, typical emergency operations with definition of role of FR according their defined missions).
  - **End-user inputs**: Presentation of some typical infrastructures (arrangement of the buildings, legal constraints, emergency measures) and of typical intervention of FR
- ▶ **Second Workshop** : Discussion and analysis of the technical and functional requirement issues.
  - **End-user inputs**: Classification of expected functional requirements in line with defined scenarios

## ■ DITSEF workshops (2/2)

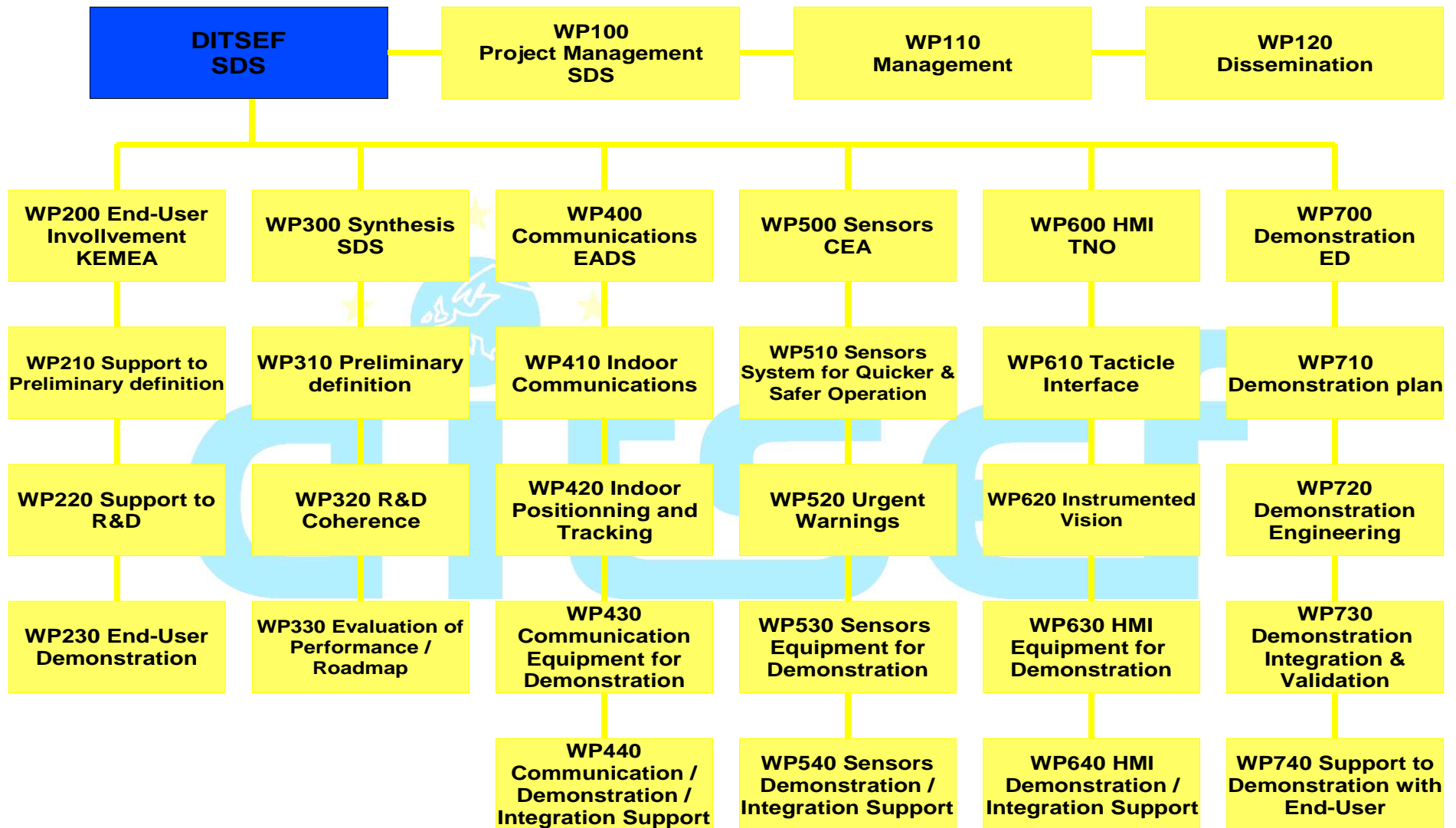
- ▶ **Third Workshop : Presentation by the consortium of the selected technologies (innovated and/or improved) and analysis by End-Users.**
  - **End-user inputs: Analysis and Classification of the most valuable future technical solutions proposed by R&D**
- ▶ **Fourth Workshop : Presentation of innovative results proposed by R&D in line with the End-users support.**
  - **End-user inputs: analyse and comments with the R&D team of the proposed solutions and first view on the integration in a systemic approach.**
- ▶ **Fifth Workshop : Demonstration on site with concrete FR evolving in concrete site and scenario.**
  - **End-users inputs: Discussion on future needs and research plan experimentation and demonstration program.**



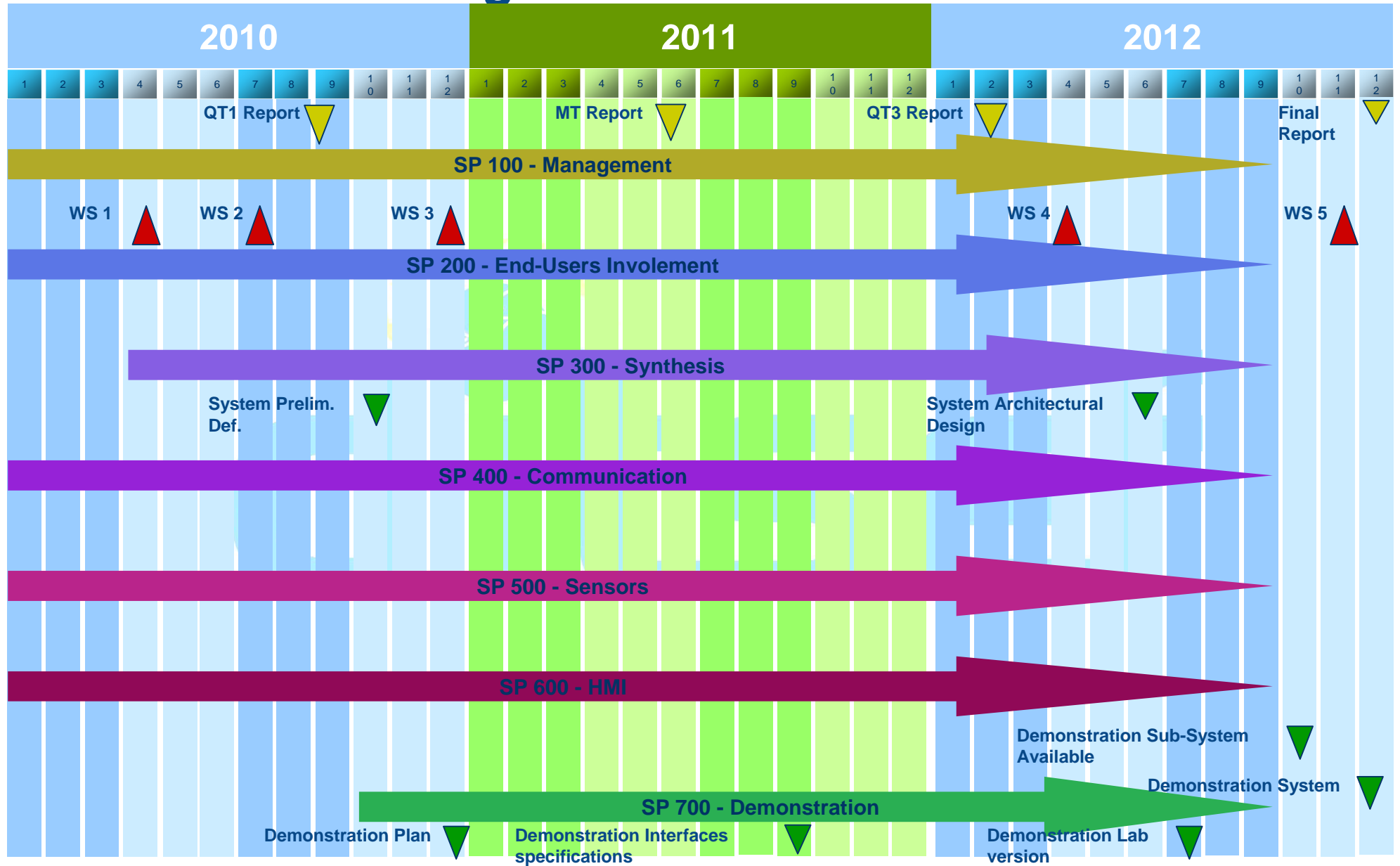
# DITSEF approach: Workflow



# WorkPlan: WBS



# DITSEF Planning



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# ■ ■ ■ ■ ■ Ditsef Communication (1/2)

## ▶ Ditsef Web Site:

- Open to public access
- Public release Publications: scientific/technical journals, Congress/Seminar papers, etc.
- Web content relative to DITSEF publications

## ▶ Adress :

- <http://www.ditsef.eu/>



# ■ ■ ■ ■ ■ Ditsef Communication (2/2)

## ▶ End-User Club: a Ditsef User Club's relative

- Allows DITSEF info/data dissemination.
- User Club members are recognized personalities from the users and civil security world.
- End-users will promote the Ditsef results in their own organizations which will lead to a faster and efficient implementation and standardization.
- **Email Adress for End-user Club :**
  - Philippe Clément : philippe.clement@sagem.com
  - Georges Leventakis : gleventakis@kemea.gr