Projet SCOOP@F

PREDIM
le 12 mars 2014
National strategy towards C-ITS deployment France

- C-ITS innovation strategy
- Main objectives of C-ITS deployment
- SCOOP@F : a two steps project
C-ITS Innovation strategy

- The French Minister of Transport, announced the launch of SCOOP@F in conclusion of an ITS workshop held on February 11, 2014

- **SCOOP@F** follows:
  - Several research projects (CVIS, COOPERS and SAFESPOT) under the 6th FRDP
  - Fields operationnal tests such as simTD in Germany, Drive C2X, or **SCORE@F** in France

- A proposal under the 2013 TEN-T Annual Call,
  - **SCOOP@F** is within the scope of priority 2 “promote innovation and new technologies for transport infrastructure and facilities contributing to a general objective and several specific objectives”
  - The specific objective is B) studies with regional or local pilot deployment in at least one Member State.
Main objectives of C-ITS deployments

- Improving road safety
- Optimizing traffic management and efficiency
- Optimizing infrastructure management costs and developing new services
- Making vehicles fit for the future
Objective to deploy C-ITS at a national level by 2017


- Specifications, developments of on-board units and services
- Implementation of the 5 pilot sites: deployment in vehicles and roads
- Implementation of the validation and security structure

**SCOOP@F** - Part 2 : 2016 – 2018

- Experimentation of the services in pilot sites
- Evaluation of the results of the pilot
- Introduction of new services and possible extension of the pilot sites (more vehicles and roads)
- Definition of a national road map for deployment of the first cooperative ITS services
Système Coopératif Pilote @ France
(French Cooperative System Pilot)
SCOOP@F consortium

- The Ministry of Ecology, Sustainable Development and Energy,
- Local Authorities:
  - City of St Brieuc
  - Conseils généraux des Côtes d’Armor, du Finistère, d’Ille et Vilaine, de l’Isère,
  - Conseil régional de Bretagne
- 4 TEN-T road operators (DIRs Ile de France, Ouest, Atlantique et SANEF)
- Automotive manufacturers: PSA, Renault
- Consulting firms, universities and research institutes:
  - CEREMA, IFSTTAR
  - GIE RE PSA-Renault,
  - Université de Reims,
  - Institut Mines-Télécom
Based on 5 different territories

- Connect 3000 vehicles with 2000 km of roads and streets
- Including harmonisation activities at European level in connection
  - With other European partners
  - With the EU C-ITS platform
Objectives

- One project to address two objectives.
- Prepare the deployment of basic cooperative ITS services:
  - Large scale testing of a reduced number of services
  - Starting early 2014
  - Prepare the national deployment of services and inclusion of in-vehicle devices in car manufacturing process
- Design and prepare tests for enhanced cooperative ITS services
SCOOP@F in East Corridor
SCOOP®F in Bretagne

- SCOOP®F - Part 1
- SCOOP®F - Part 2
5 main services common to the territories
5 main services common to the territories
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5 main services common to the territories
SCOOP@F-Part 1 figures

- 280 road side units
- 1500 km of roads
- 2400 vehicles
- 13,2 M€
SCOOP@F
Project Organisation

Activity 1

Project Management and Communication

- 1.1. Project management
- 1.2. Communication and dissemination
- 1.3. European coordination and international cooperation

Activity 2

Studies

- 2.1. Management
- 2.2. Stakeholders’ needs elaboration
- 2.3. Impact studies
- 2.4. Specification
- 2.5. Development
- 2.6. Validation
- 2.7. Guidelines to cope with managerial matters

Activity 3

Local Pilots

- 3.1. Ile-de-France
- 3.2. East Corridor
- 3.3. Bretagne
- 3.4. Bordeaux
- 3.5. Isère
Policy matters

Hybrid communication system for Day 1 C-ITS:

- For services for which the information must be disseminated to end users without delay (safety,...) : WiFi - G5
- For other services : cellular

Business model:

- For public authorities and road authorities : the overall budget dedicated to traffic management and traffic information must remain constant or decrease
- Customers’ acceptability and value is a key aspect
Relevance of SCOOP@F and its draft proposal

- SCOOP@F is based on mature technologies and European standards
- Nevertheless, Pilots are necessary before entering into deployment:
  - Some standards are missing
  - Pilots will be at a much larger scale than previous FOTs: new challenges
- A specific sub-activity “Specifications” of SCOOP@F - Part 1 will be in charge of giving guidance to the partners of the project in order to:
  - Enable them to comply to all existing standards
  - Develop solutions when a standard is missing
European coordination

Possible areas of European coordination:

- Services harmonisation
- Standards
- Data ownership and privacy
- Governance architecture
- Safety and security and liability
- Interoperability
- Road Map towards deployment
- Cross tests and certification
International cooperation

- Promotion of European standards, technology and associated know-how
- Harmonisation of standards in the scope of EU-USA-Japan Task Force