SCOOP@F
A French C-ITS project

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It is time for C-ITS deployment!

- Various research EU projects (CVIS, COOPERS and SAFESPOT) during the last decade

- Various "field operational tests" as simTD in Germany, Drive C2X, or SCORE@F in France

- Active standardization studies *within* ETSI

- *International emulation* (US initiatives, the Corridor project)

- The EC decision to move up into a deployment phase in 2014 by setting up an European C-ITS platform
The SCOOP@F project

- **Starting:**
  - 2014 February: announcement by Frédéric Cuvillier, French Vice minister of Transportation.

  - 2014 July: selected by the EC to be granted

- **Expected duration:** 2014-2017

- **5 steps:**
  - Definition of services
  - Technical specifications
  - Development
  - Validation
  - Deployment
- **French Ministry of Ecology** – Transportation Infrastructures Div.
- **Local authorities**
  - Conseil général de l'Isère
  - ITS Bretagne with Conseils généraux des Côtes d’Armor, du Finistère, d’Ille et Vilaine, Conseil régional de Bretagne, Ville de Saint-Brieuc)
- **Public road operators** (3 DIRs)
- **Private road operator** (Sanef)
- **Car manufacturers** (PSA, Renault)
- **Universities and research centers** (Cerema, IFSTTAR, GIE RE PSA-Renault, Université de Reims Champagne-Ardenne, Institut Mines-Télécom).
The SCOOP@F components

- On-board units - OBU
- Road-side units - RSU
- **SCOOP platform**, which takes care of the link with the operator traffic management center
- The security system – the PKI
Five pilot sites
Data collection

Collect of Data

Traffic Management Centre

Service Provider

Data Collect

Cellular Network

Road Side Equipment

Standard V2V Messages Broadcasting
In-Vehicle Signage

Traffic Management Centre

Service Provider

Cellular Network

Road Side Equipment
Road-Hazard signaling

Road Hazard Signalling

Traffic Management Centre

Road Side Equipment

Road Hazard detection (V2V)
1-Project Management and Communication

2-Studies
  2.1 Management
  2.2 Stakeholders' Needs Elaboration
  2.3 Impact Studies
  2.4 Specifications
  2.5 Developpement
  2.6 Validation

3-Local Pilots
The latest ETSI versions will be used in SCOOP@F

Access layer
EN 302 571 1.1.1 (2008-09)
EN 302 663 1.2.1 (2013-07) …

Networking/Transport layer
EN 302 636-4-1 1.2.1 (2014-07)
EN 302 636-5-1 1.2.1 (2014-08)

Facilities layer
EN 302 637-2 1.3.2 (2014-11)
EN 302 637-3 1.2.2 (2014-11) …
Application Layer
TR 102 965 1.1.1 (2013-03)
...

Security part
TS 102 940 1.1.1 (2012-06)
....
Current version of some standards are somehow obsolete

But their next version is not published,

For instance, we have asked ETSI to use the current draft of TS 103 097 with our future providers ….. they reject our request.

Some delay on the PKI deployment
Most of current standards target car manufacturers where a lot of standards are available.

But from road operators point of view, many aspects are still missing and the appropriate standards are not published.
The use the up-to-date versions,

If standardization institutions (as ETSI) could speed-up the publication of standards, that would be very useful.

Providers which have passed the ETSI plugtest will have better chances to be selected by SCOOP@F partners as suppliers.
Sites impliqués dans SCOOP@F - Partie 1

Projet Corridor
Rotterdam - Francfort - Vienne

Test croisés de services similaires avec d’autres pays européens