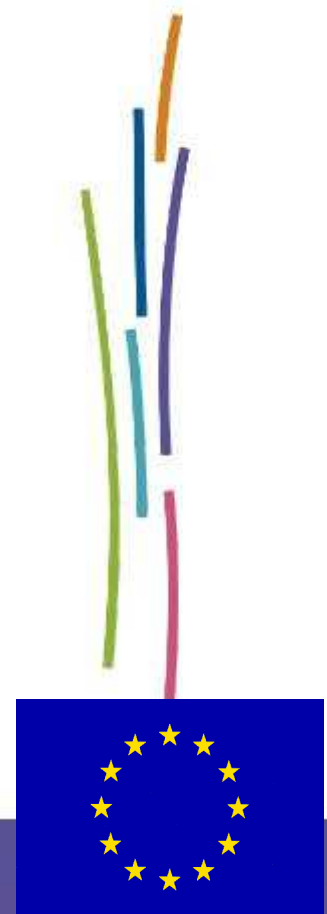




Projet
SCOOP
véhicules et routes connectés
connected vehicles and roads

Guy FREMONT,
SANEF

September 15, 2015
Amsterdam Group



Project SCOOP@F

- Key events:
 - 2014 February: starting announcement by Frédéric Cuvillier, French Vice minister of Transportation
 - 2014 July: the project has been selected by the European Commission to be granted until end 2015
 - **2015 July: the project has been selected by the European Commission to be granted from 2016 to 2018**
- 1st wave : 2014-2017
 - Priority services
 - ITS-G5 communications
- 2nd wave : 2016-2018 **confirmed**
 - New services, yet to be selected
 - Hybrid Cellular / ITS G5 communications



Reminder : priority services deployed in the 1st wave

- Data collection:
 - position/speed/direction
 - events detected
 - events declared
- Road works warning:
 - Planned road works,
 - Slow moving maintenance, winter maintenance,
 - Road operator vehicle approaching, rescue and recovery work in progress
- Hazardous location notification:
 - Slippery road, bad visibility, extreme weather condition
 - Animal on the road, human presence on the road, obstacle on the road, unmanaged blockage of the road
 - Accident, emergency brake, stationary vehicle, end of queue



Reminder : SCOOP@F consortium

- **French Ministry of Transport**
- **Local authorities**
 - Département de l'Isère
 - ITS Bretagne with Départements des Côtes d'Armor, du Finistère, d'Ille et Vilaine, Région Bretagne, Saint-Brieuc Agglomération)
- **TEN-T road operators (3 DIRs, Sanef)**
- **Car manufacturers (PSA, Renault)**
- **Universities and research centres (Cerema, IFSTTAR, GIE RE PSA-Renault, Université de Reims Champagne-Ardenne, Institut Mines-Télécom).**

And from 2016 :

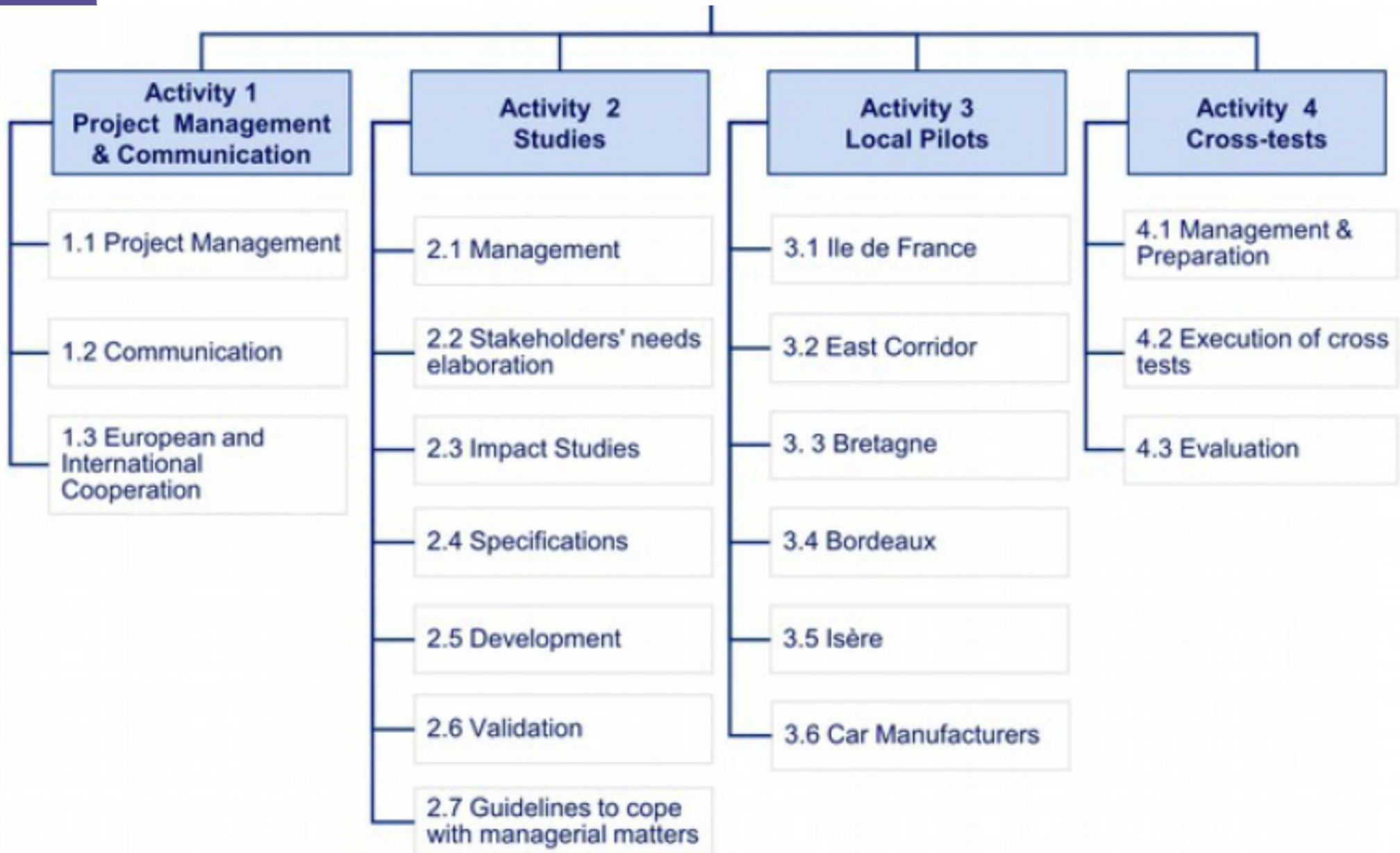
- A telecommunication operator: Orange
- A provider of trust services: Opentrust
- Austrian, Spanish and Portuguese partners

Reminder : SCOOP@F components

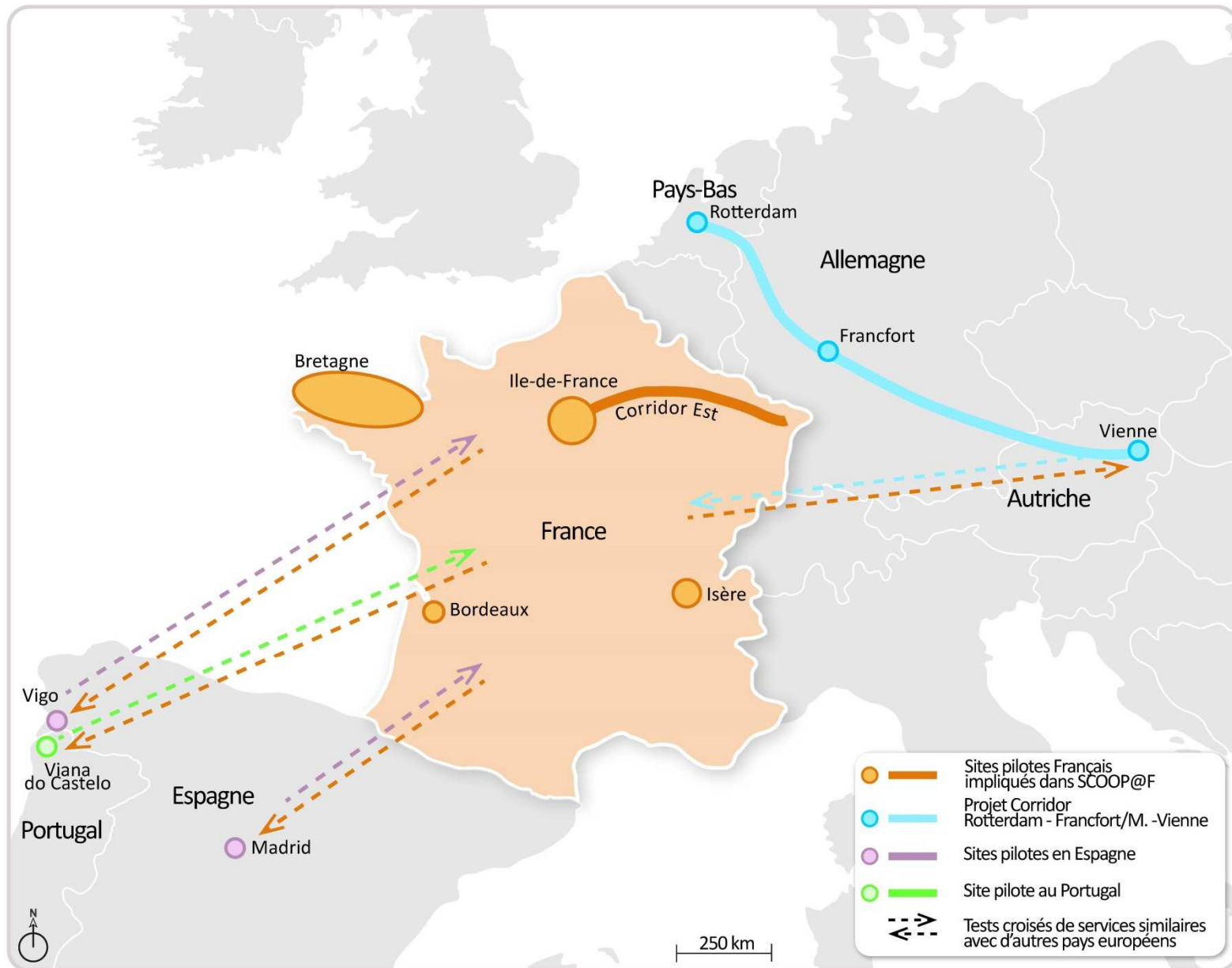
- ITSS-C : the SCOOP@F platform, connected with the road operator's traffic management system
- ITSS-R : road-side units
- ITSS-V : on-board units. 3 categories
 - Renault (passenger cars)
 - PSA (passenger cars)
 - Road operators: patrol vehicles (retrofitting)
 - including a mobile RSU functionality
- A PKI-based security system



Project structure (from 2016)



Cross-tests



Current status (1st wave)

- Specifications ready, currently being translated into English, should be available on a public website by the end of 2015
- Development has begun for private partners (PSA, Renault, Sanef)
- Public procurement on its way for public partners
- First prototypes should be available by the end of 2015
- *East Corridor pilot site (A4 – Sanef) should be operational by end of 2015*

Public procurement

- ITSS-C: central
- ITSS-R: local
- ITSS-V:
 - Renault: no public procurement
 - PSA: no public procurement
 - For road operators: HW local, SW central
- PKI-based security system: central



Privacy and data protection

- Four types of data:
 - CAM / DENM messages
 - Logs for validation purposes
 - Logs for evaluation purposes
 - Logs for supervision purposes
- Data processing of the CAM / DENM messages will be supported by road operators
- A long list of the Logs has been established. It will be modified after discussions with the National Commission on Informatics and Liberty (CNIL)



Validation process

- In laboratory tests
 - Conformity with specifications
 - Interoperability

- Tests on test-tracks
 - Tests of sub-systems
 - Tests of the whole ecosystem

- Open road tests on each pilot site, with the local traffic management system
 - Tests of the whole ecosystem
 - Ergonomics assessment



SCOOP@F at ITS Bordeaux

Special interest sessions

- PRO3: Cooperative ITS – roll out is underway!
Tuesday 6 Oct. 3.30 – 5.00 p.m.
- FS6: The SCOOP@F project
Thursday 8 Oct. 9.00 – 10.30 a.m.

SCOOP@F presentations in other sessions

- TS06: C-ITS deployment issues 1
Tuesday 6 Oct. 11.00 a.m.-12.30 p.m.
- TS31: Pilot projects for ITS
Wednesday 7 Oct. 2015 09.00-10.30 a.m.
- TS39: C-ITS deployment issues 3
Wednesday 7 October 11.00 a.m. – 12.30 p.m.



SCOOP@F events at the Ministry's exhibition stand

SCOOP@F at ITS Bordeaux

Demonstrator



Thank you for your attention

Questions ?

