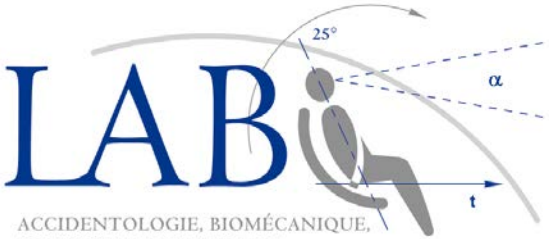
Projet SCOOP
véhicules et routes connectés
connected vehicles and roads

Feedback from SCOOP@F FOT on driver behavior



Laurette Guyonvarch

Liberté • Égalité • Fraternité
RÉPUBLIQUE FRANÇAISE
Ministère de l'Environnement, de l'Énergie et de la Mer

SCOOP@F Project

- French cooperative ITS deployment project

3000 vehicles

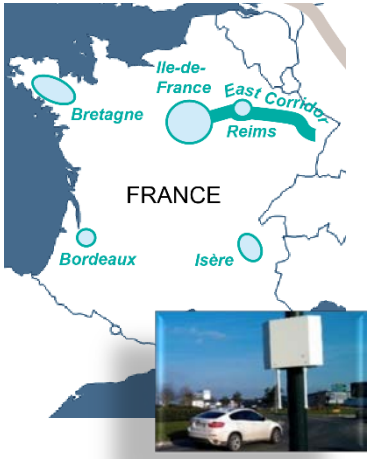
2000 km of roads

2000 personal

1000 road management

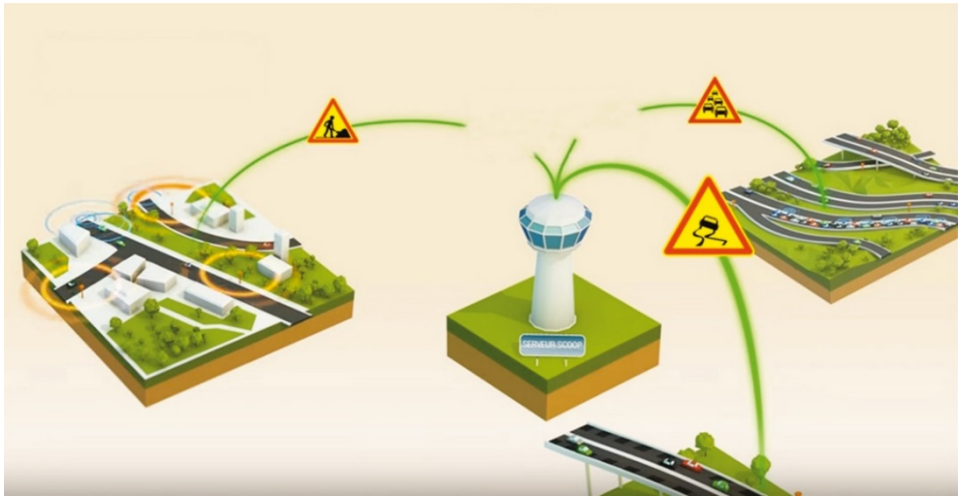
1000 Megane Renault

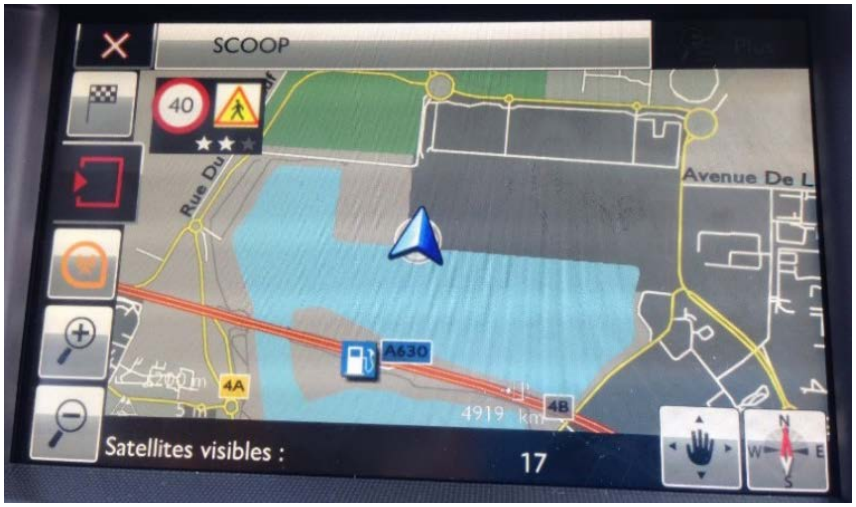
1000 C4 Peugeot



- Part 1 (2014-2017): ITS development, Part 2 (2016-2018): ITS deployment
- Partners: French Ministry of Transport, local authorities, road operators, car manufacturers, Universities and research centers, telecommunication operator, provider of trust services

SCOOP@F usecases





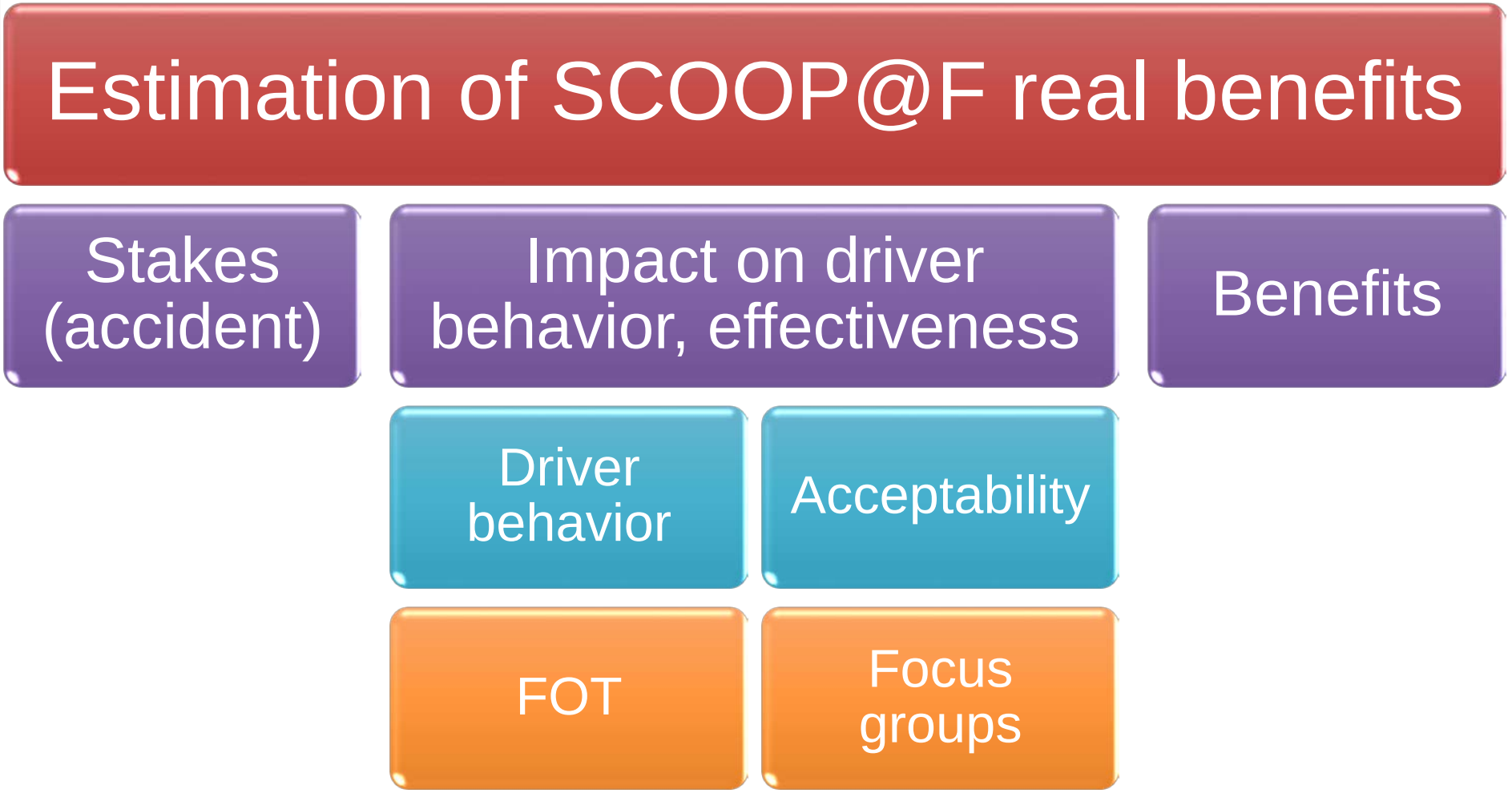
Road works warning

- Planned road works
- Slow moving / winter maintenance
- Rescue work in progress

Dangerous location notification

- Weather
- Obstacle on the road
- Emergency brake

LAB research question

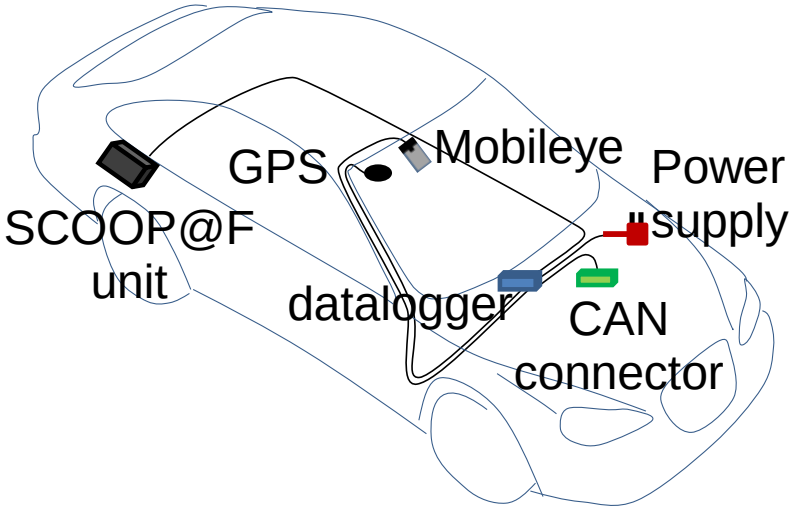


FOT for driver behavior study

3000 vehicles

2000 personal

1000 Renault Megane	1000 C4 Peugeot
30 DAS	30 DAS



- Recorded data (sync)
  - Position
  - Vehicle data : speed, brake, steering wheel…
  - Contextual variable: Time headway, road signs, type of obstacles…
  - Displayed / transmitted messages

Legal issues

Anonymization

- Recruiting subjects
- Trips filtered
- No camera

Data storage

- Dedicated servers
- Limited access

Ethics

- PHRP
- Driver agreement
  - Data ownership
  - Data use

Technical issues

Multi partnership

- Road management company
- Car manufacturers
- Public organizations

DAS Specification

- Common architecture
- Baseline functionnality

DAS integration

- Homologation
- Acceptability during the experiment

Financial issues

- Vehicle fleet

DAS price → Project funding → Only 60 cars with DAS, 2 types

- Experiment area

Fleet management → Data gathering → Only 1 area /5

Conclusion

- Wide variety of problems
  - Legal issues
  - Technical issues
  - Financial issues

- Coming up!
  - CNIL : infractions are personnal data
  - DAS validation
  - Subjects recruitment

Thank you for your attention