Feedback from SCOOP@F FOT on driver behavior

Laurette Guyonvarch
French cooperative ITS deployment project


Partners: French Ministry of Transport, local authorities, road operators, car manufacturers, Universities and research centers, telecommunication operator, provider of trust services

3000 vehicles

2000 km of roads

2000 personal

1000 Megane Renault

1000 C4 Peugeot

1000 road management
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

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LAB research question

Estimation of SCOOP@F real benefits

- Stakes (accident)
- Impact on driver behavior, effectiveness
- Benefits
  - Driver behavior
  - Acceptability
  - FOT
  - Focus groups
FOT for driver behavior study

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

- 3000 vehicles
  - 2000 personal
    - 1000 Renault Megane
    - 1000 C4 Peugeot
    - 30 DAS
    - 30 DAS

- GPS
- Mobileye
- Power supply
- SCOOP@F unit
- CAN connector
- datalogger

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Legal issues

Anonymization
- Recruiting subjects
- Trips filtered
- No camera

Data storage
- Dedicated servers
- Limited access

Ethics
- PHRP
- Driver agreement
  - Data ownership
  - Data use

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## Technical issues

<table>
<thead>
<tr>
<th>Multi partnership</th>
<th>DAS Specification</th>
<th>DAS integration</th>
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</thead>
<tbody>
<tr>
<td>• Road management company</td>
<td>• Common architecture</td>
<td>• Homologation</td>
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<td>• Car manufacturers</td>
<td>• Baseline functionnality</td>
<td>• Acceptability during the experiment</td>
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<td>• Public organizations</td>
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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 personal data
  ➢ DAS validation
  ➢ Subjects recruitment

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Thank you for your attention