French Operational Test

Example & Ideas

Work done by the group

Analysis

Objectives and timetable

Telematic Working Group, Bordeaux Jan. 2011
Example

- One national database
- Each partner has its format
Ideas

- Each actor transmits in the same format the data in his possession
- Capability for exchange
- Cross Border exchange
Work done by the group

- Validated list of 70 attributes and parameters
- Use of attributes and parameters
- Link with other projects (EasyWay, Scutum)
- Modeling process (Germany)
- Beginning of analysis of solution for implementation regarding the impact (France)
Result of the analysis

- General state of the art throughout projects: 4 French, 7 European, 4 American (end of 2009)
- Volume of data to exchange
- Organisation of transport companies
- Interest for stakeholders
- Structure of data base
Volumes of data

- For position: depending on the project, one position needs around 200 bits in binary format and 2000 bits in xml format
- Linked to GNSS, one location every second is the shortest time to get information
- Conformity with mobile telecom network (3G/3G+) limits the time slot to send information
- Number of trucks tracked simultaneously defines also the volume depending on server
Organisation of transport companies

- Nearly 100% of trucks are geolocated
- Information about goods: depending on the account and information system
- Technical parameters of the truck, engine, trailer and load compartment: low deployment
Interest of stakeholders

- Driver: interested in information on local constraints
- Consignor: interested in knowing exact location of load
- Filler, Consignee, loader: needs to organise loading and unloading
- Infrastructure manager: interested in alert in case of incident
- Road Transport Controller, Police, customs officer: increasing the control
Data base structure

Centralised

- Advantage
  - Access to data for all actors
  - Dissemination of alerts

- Disadvantage
  - Volumes
  - Administration

Distributed

- Advantage
  - Volumes of data
  - Time to access for local actors

- Disadvantage
  - Access to data for all actors
  - Request time
  - Volumes of exchange
Objectives for France

- Verify compatibility of the modeling with technical and implementation constraints
- Propose a methodology to drive the implementation
- Propose a structure for the Data base
- Manage a pilot
Items for 2011

- Survey to identify the impact of data exchange implementation for the stakeholder
- Preparation for analysis of the data base structure
  - Centralised at European level
  - Centralised at Country level
  - Distributed at companies level ...
- Preparation of the experimentation
  - Link with other projects (SCUTUM, Geofence MD …)
  - Identification of partners (transport companies, fleet manager...)
Items for 2012-2013

- Definition of a methodology for implementation at country level
- Experimentation as FOT
  - First experimentation around Lyon
  - Extension of the experimentation to larger area with French partner
  - Link with another country for exchange of data when transport crosses the border
Thank you for your attention

Questions?

Jean-Philippe.Mechin@developpement-durable.gouv.fr