

EasyWay



Annual Forum 2010

Datex II to Speech

Shortcut to the future.
Lisbon • November 16th-18th

Jean-Philippe Méchin

Cété Sud-Ouest





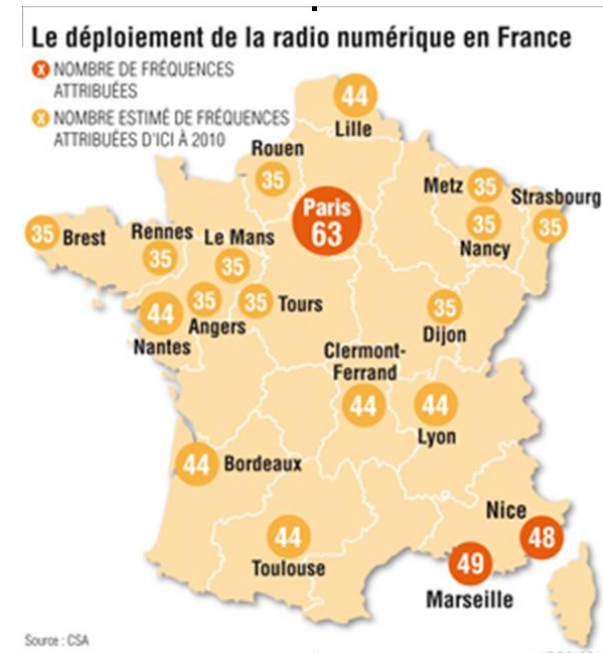
History

- Since end of last century, road traffic information uses TMC standard
- Development of text to speech services for on board equipment
- Complex information chain from data source to end user
- No transmission of image data
- New technology using digital transmission opens the door to new services



Context

- 2008: Call for Tender from French Radio Authority (CSA) for Digital Radio using DMB
- 2009: 377 proposals submitted for 19 cities
- 2010: Decision to postpone deployment due to development of UMTS network and connected applications





Objectives

- Decrease transmission time from the source to the end-user
- Decrease the risk of wrong translation



Technical choice

- Implementation of some generic messages related to road safety
- Use of Eclipse environment for development
- Java Development
- Acapela software for text to speech
- Push-Pull mode for Datex II data provision



Constraints

- Datex II model used UTF therefore call the right parameters for the development
- Language independent development therefore use properties files
- Facilitate location for end-user therefore use of Alert-C location code



Results

- #configuration des messages
- environmentalObstructionMessage=Un obstacle naturel est présent sur la voie!
- eventEndedMessageTemplate=L'évènement \$message\$ est terminé!
- animalPresenceObstructionMessage=Un animal est présent sur la voie!
- accidentMessage=Accident!
- vehicleObstructionMessage=Véhicule en panne
- generalObstructionMessage=La route est bouchée
- typicalMessageTemplate=\$date\$: Sur \$road\$ en direction de \$direction\$ à \$offset\$ mètres apres \$place\$, \$message\$
- abnormalTrafficMessageTemplate=Bouchons sur \$queueLength\$ mètres!
- abnormalTrafficMessageWithoutQueueLength=Bouchons !

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**Thank you for
your attention**

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