CityMobil2 and CATS European Projects
How to combine electric mobility and automation

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"We want to be the first to launch autonomous functions in production vehicles. You can be sure: we will accomplish that in this decade," Thomas Weber, Daimler head of development said in September 2013.
I am committing to be ready to introduce a new ground-breaking technology, Autonomous Drive by 2020, and we are on track to realize it (Oct. 2013)
Honda Valet Parking (2013)
- Accidents
- Use of fossil energy (GHG+dependency)
- Quality of life
- Pollutions
- Health
- Cost
- Equity
- Space

Problems of the automobile

**PETROLE**
2006, le début de la fin

Comment nous vivrons sans essence
Space*Time Expenditure

- **Moving (4 km):**
  - Pedestrian: 1 m²*h
  - Bicycle: 1 m²*h
  - Moped: 2.0 m²*h
  - Car: 9 m²*h
  - Bus (30p): 0.3 m²*h
  - Tram (200p): 0.1 m²*h

- **Parking (8h):**
  - Pedestrian: 0
  - Bicycle: 8 m²*h
  - Moped: 12 m²*h
  - Car (street): 80 m²*h
  - Car (parking): 240 m²*h
  - Bus/Tram: 0
Parking
Peugeot-Tulip (1996)
Last Mile Link
Praxitele (1993-1999)
Liselec - La Rochelle (1998)
• 60 Vehicles (3 types)
• Any location
• VuLog System
• 4000 vehicles (one type)
• 2000 stations
• 120,000 subscribers
• Now in Indiannapolis!

Paris Autolib
La Rochelle Yelo (Mia)
Twizy Way
• Small Public Urban Vehicles
• Assited driving
• Platooning
• Automated Parking
• Automated tracks
• Complement to other modes

Concept INRIA/INRETS (1991)
Platooning (INRIA-1994)
Schiphol ParkShuttle (1997)
Organized by: Fira Barcelona
Hosted by: avele
In collaboration with: AVERE, NEA, Ajuntament de Barcelona, EVAAP, EDTA
Supported by: European Commission
• First concepts in 1990’s
• First exploitation in 1997
• CyberCars/CyberMove en 2001
• Demonstrations Antibes en 2004
• MobiVIP (2004)
• CyberC3 (2005)
• CyberCars2 (2006)
• CityMobil (2006)
• Cristal-CATS (2007)
• CityNetMobil (2008)
• CityMobil2 (2012)
Heathrow Terminal 5 Station
CityMobil in La Rochelle (2011)
CityMobil2 (2012-2017)

- 5 manufacturers
- 12 cities
- 12 vehicles to be built
- 4 large scale demonstrations
- 10M€ funding from EC
The ultimate solution would have transportation hubs where all forms of travel intersect, so you can get off a subway and get onto a Segway. Or get off a bus and get on a bike or share a Zipcar”. Bill Ford, Sept. 2011.
In twenty years, only cybcars will be allowed to enter most cities in industrialised countries.

Senator Trégouët, March 2000
Merci

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