AutoNet 2030
Automated driving in France

Pr. Arnaud de La Fortelle

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AutoNet 2030

- European project with 4.6 M€ budget
- Focus: Co-operative Systems in Support of Networked Automated Driving by 2030
- Partners: BroadBit, Armines, CRF, Volvo, Hitachi, BaseLabs, EPFL, ICCS, TU-Dresden
AutoNet 2030

- Research and specification of cooperative maneuvering control algorithm and information sharing → specific rules?
- Perception processing and cooperative data fusion specification
- HMI specification for advised maneuvering
- Specification and standardization of required enhancements to existing cooperative communication protocol standards
AutoNet 2030

- Collaborative project
  - Connected to VRA (ERTICO) and other projects
  - Standardization aspects (communication, LDM...)
  - Exchange system design principles

- Tests on real platforms
  - Testing on INRIA's platforms (cybercars)
  - Testing with Volvo and CRF cars
  - Scalability tests through simulation

www.autonet2030.eu
Automated driving in France
Until recently research effort mainly supported by several national research institutes
- IMARA Lab in INRIA (Versailles)
- Robotics Lab in MINES ParisTech (Paris)
- LIVIC Lab in IFSTTAR (Versailles)
- Blaise Pascal Univ. (Clermont Ferrand)

Following Google Car demonstration, French car makers position has changed

Currently important research program are starting, motivated by concerns about energy saving, mobility and safety improvement
ABV Low speed automation

- **Goals:** to improve safety, comfort and fuel economy for vehicles in congested traffic on urban and suburban freeways

- **Key concepts:** secured highway
  - a road that guarantees a given level of service to facilitate vehicle automation
  - Includes sensing and cooperative technologies

- **Outcomes**
  - ABV prototype demonstrated on Versailles-Satory test tracks
  - Improved perception systems, trajectory planning and control algorithms etc.
  - Legal aspects analysis
French project with 5.6 M€ budget
FOT for cooperative systems
  - V2V and V2I
  - For safety
  - For traffic management
  - For mobility and comfort services

Linked to European FOTs (Drive C2X)

Testings
  - 6 test sites (motorways and arterial roads)
  - Data logging and analysis
  - Methodology and tool sharing through Drive C2X
Vivianes challenge

- Select teams and organize a competition
  - Organized by ANR and supported by Defense
  - Supported by Renault, PSA, Valeo and VeDeCoM

- Low cost automated driving (→ industry)
  - Restriction on equipment
  - Test of algorithms by simulation first
  - Competition with vehicles in a second phase

- Focus on intelligence, context awareness, interface with human rather than speed
  - Several criteria to be detailed

- Could be open to non-French teams later
Contact

Pr. Arnaud de La Fortelle

www.mines-paristech.fr
arnaud.de_la_fortelle@mines-paristech.fr