FOT Execution

French VMC

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SEVENTH FRAMEWORK PROGRAMME

www.eurofot-ip.eu

French VMC - FOT vehicles

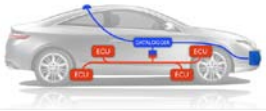
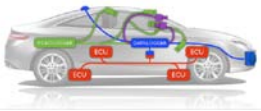
Two vehicles

Renault CLIO III

Renault LAGUNA III

Cruise Control and Speed Limiter

Instrumentation

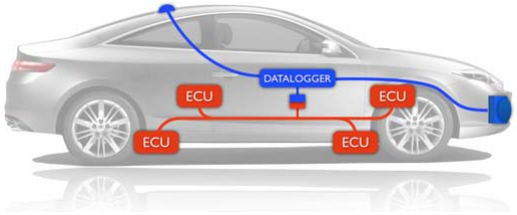
	Low Level	High Level
		
Vehicles used	35 drivers' owned cars	5 vehicles owned by CEESAR
CTAG datalogger 2	●	●
Max 4 CAN Channels	2 channels used	4 channels used
GPS	●	●
GPRS data transfer	●	*(not used: manual transfer)*
TRW AC20 radar *(not part of standard vehicle equipment)*	●	●
VideoLogger *(custom made for CEESAR, H.264)*		●
Cameras (*B&W, SuperHAD Exview)*		4
Mobileye AWS *(added, with special firmware)*		●
Smarteye Eyetracker		●

Instrumentation

- Design and validation of the installation kits
- Installation time *(5 hours)*
- Invisibility of the equipment *(no cable splicing, no hole drilling)*, reversibility
- No alteration of the vehicles' reliability or quality *(electronic and electromagnetic compatibility)*

All installation kits manufactured by CEESAR

Instrumentation



EX: *Low level installation kit*

Driver recruitment

- Renault dealership and Auxiliary Automotive Association (2009 – 2011)

  (Data base of private owners)
- 600 invitation letters and brochures were sent
- CEESAR called potential participants

  (demographic requirements, age, user of Speed Limier/Cruise Control)
- Recruitment meetings

  (presentation of the project, screening questionnaire)
- Sign legal documents

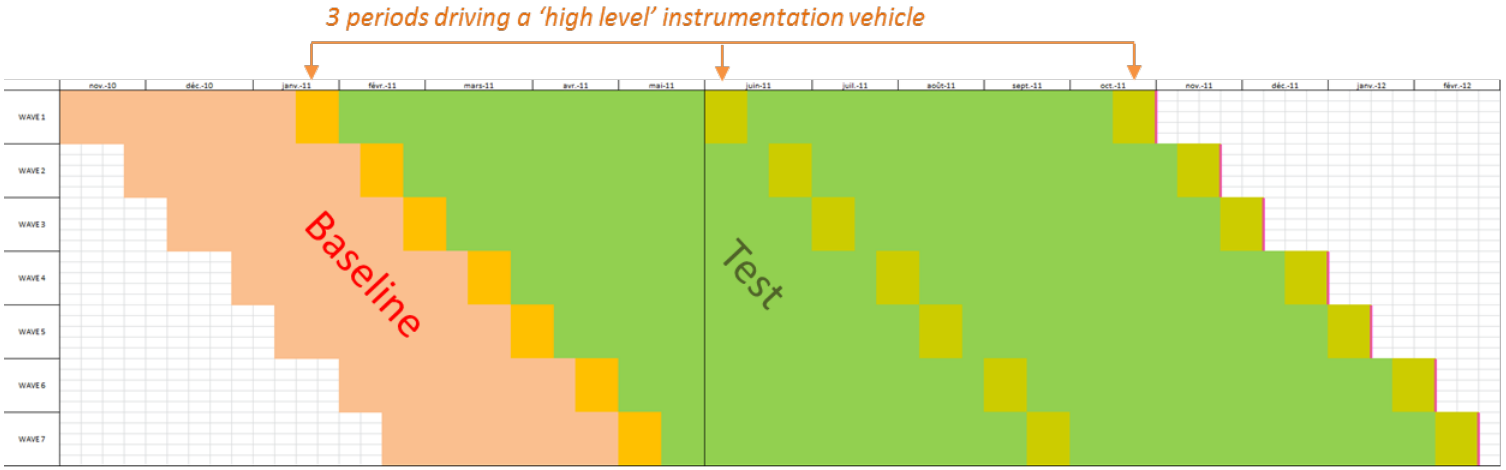
  (consent form, participations agreements)

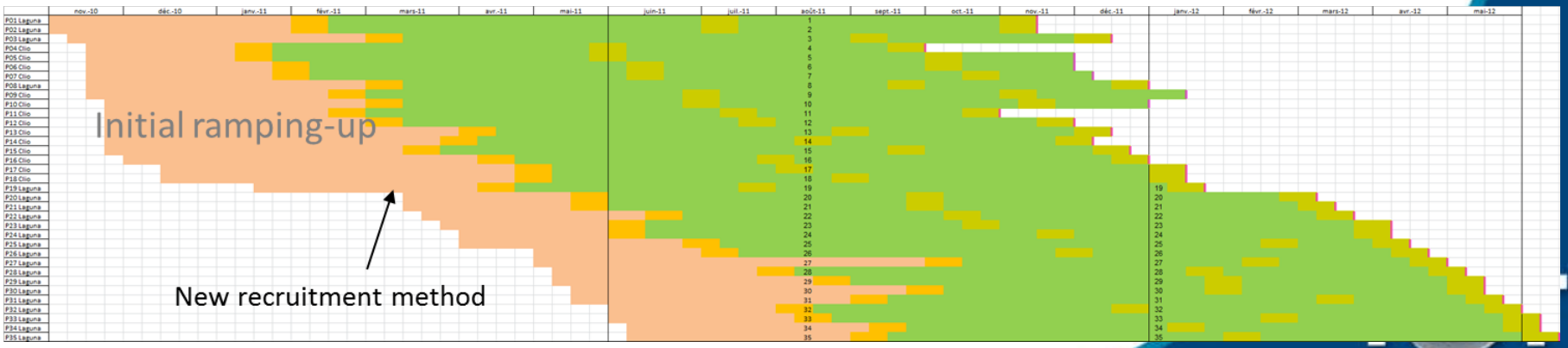
Driver recruitment

- 14 Clio III drivers and 21Laguna III drivers
- 77% men and 23% women
- Average age of the participants 49 years, annual mileage 18.120km

The implemented experimental design and the FOT operation

Ideal and actual experiment organization





Results of the FOT operation phase

- Amount of data 1.5 TB
- Data collected
  - 560 3000 km
  - 12 600 hours
- 1522 hours with high level instrumented car (video, lane tracking and eye tracking)

Lessons learned

- Recruitment
- Objective data acquisition
- Subjective data acquisition
- Organization

8 Functionalities, 28 Partners, 1000 Vehicles

1 Field Operational Test, **8 Functionalities**

28 Partners, 1000 Vehicles, 1 Field Operational Test

8 Functionalities, **28 Partners**, 1000 Vehicles

1 Field Operational Test, 8 Functionalities

28 Partners, **1000 Vehicles**, 1 Field Operational Test

8 Functionalities, 28 Partners, 1000 Vehicles

1 Field Operational Test