

Challenges of ADAS FOTs: the euroFOT approach

FOT-Net Stakeholder Workshop



Aria Etemad

Ford Research & Advanced Engineering Europe
Brussels, 25/09/2008



www.eurofot-ip.eu

eur
FOT

Bringing intelligent vehicles to the road

Contents

- euroFOT objectives and plans
- Project status to-day
- Needs and ideas for cooperation with other EU projects

euroFOT Objectives (1)

- Perform multiple coordinated tests of Intelligent Vehicle Systems with **ordinary drivers in real traffic**
- Investigate performance, driver behaviour and user acceptance
- Assess the impacts on safety, efficiency and the environment, based on road data

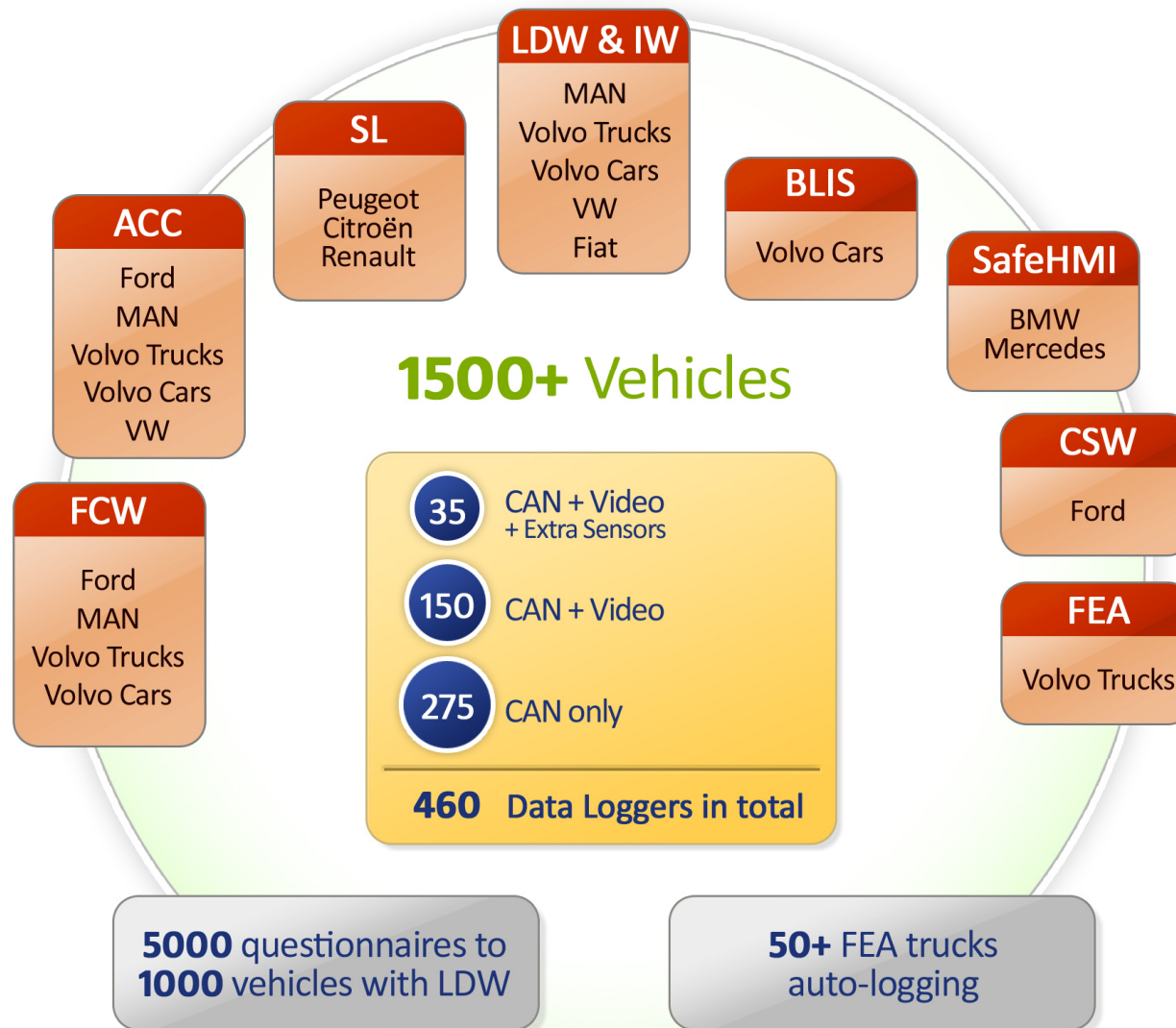
euroFOT Objectives (2)

- The project aims to apply a common European approach for Field Operational Tests
- An additional relevant goal is to create awareness in the public and a wider socio-economic acceptance

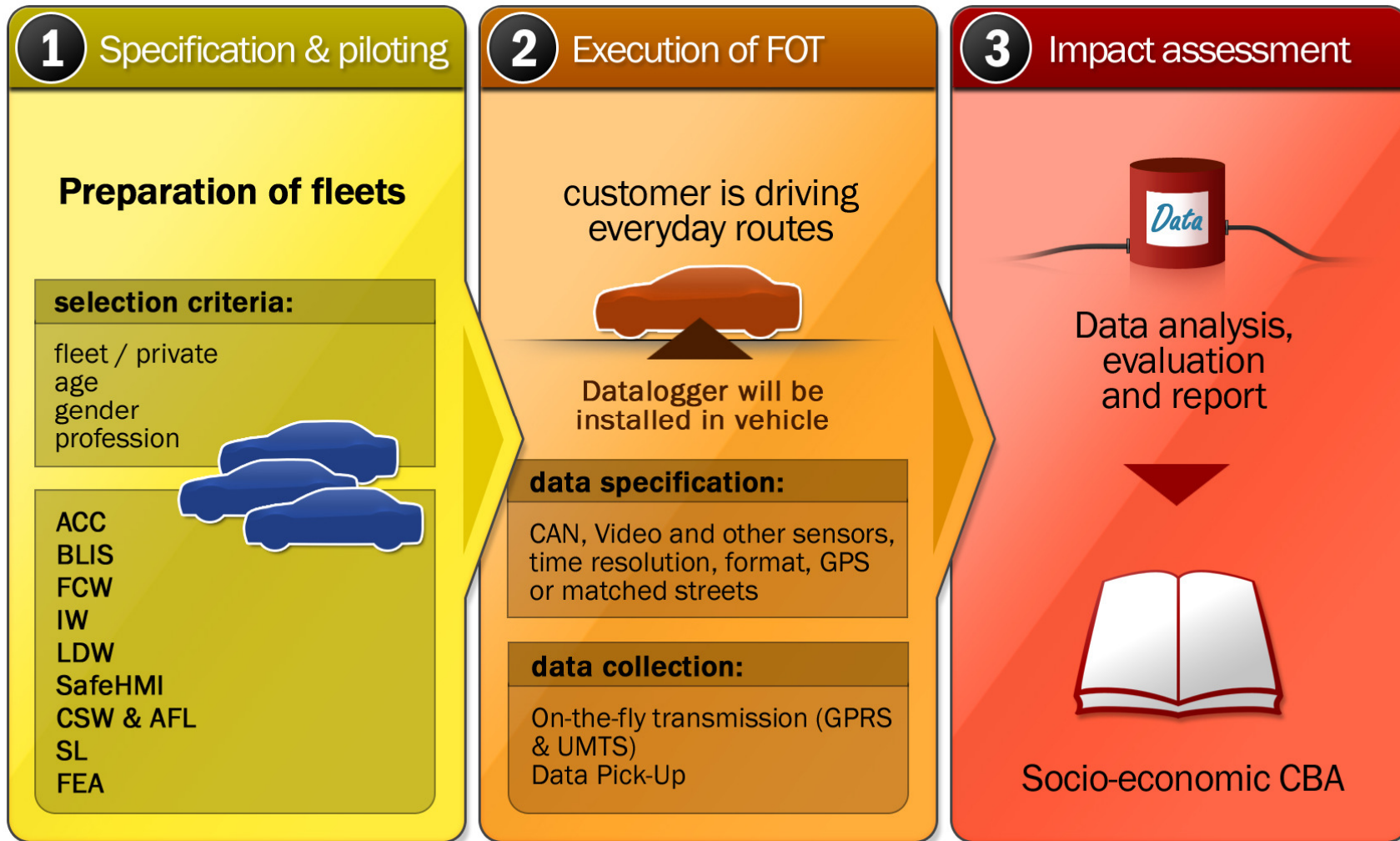
Test Management Centres



The functions under test



Project plan



Several challenges are similar in different FOT projects



- analyzing a wide range of driving conditions in terms of vehicles, drivers, and environments
- identifying key scenarios and indicators – define baselines
- focusing on transferable and harmonized testing methods at European level for different geographical areas
- addressing the issues of data collection and data storage, for tests which are essentially unrestricted and unsupervised

Some challenges are more specific for ADAS / euroFOT

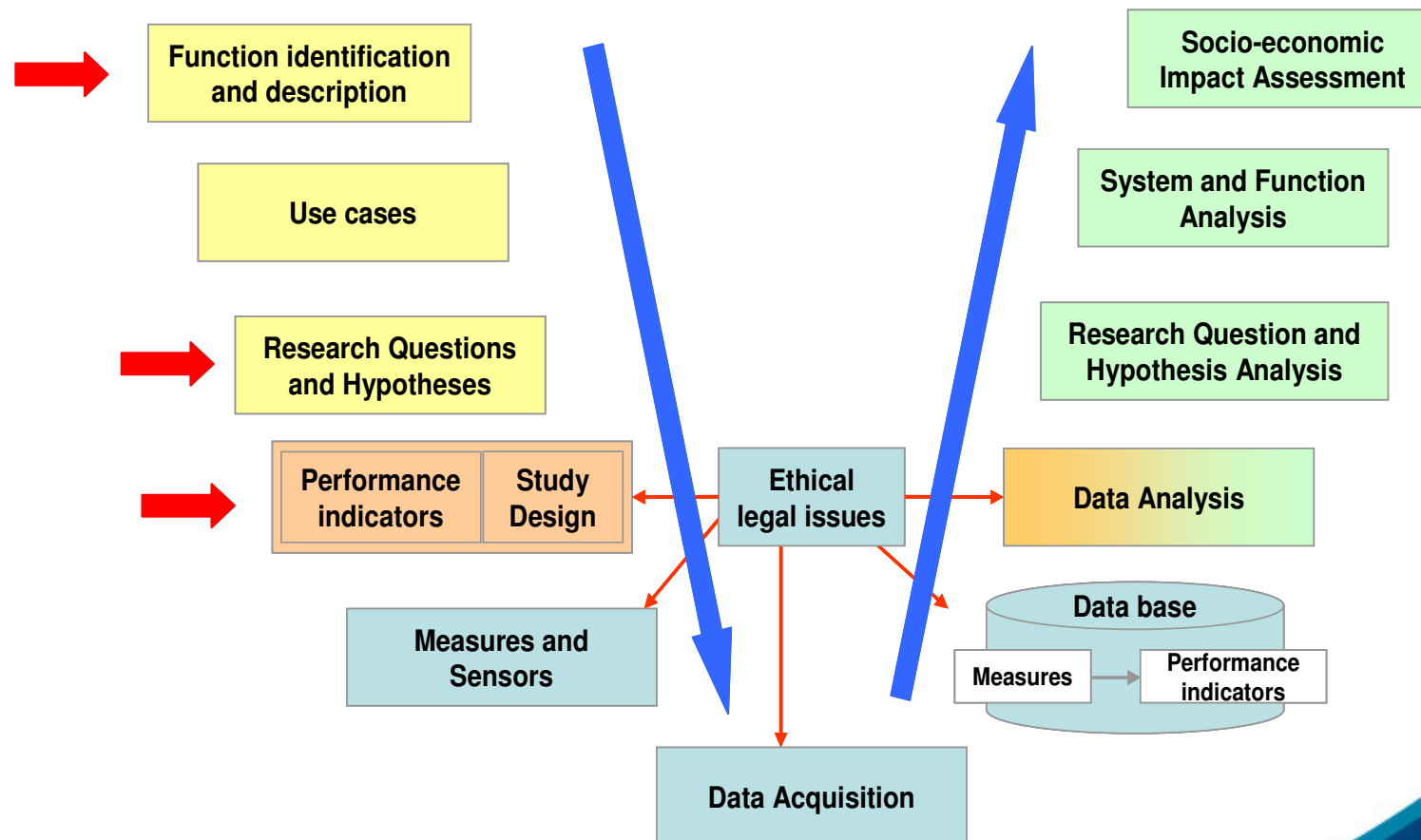


- Importance of road / traffic situations all around
- Focus on indicators of dangerous situations
- Some applications for truck drivers
- Possible use of multiple functions

Project status

Project status

Activities in all subprojects and especially some basic tasks (➡) have been launched at the recent Technical Kick-off Meeting (Sept 2-4)



Major on-going activities:

- Define system specifications (*FESTA scheme*): functions, use cases, research questions
- Define Data Acquisition Systems
- Coordinate and harmonise Vehicle Management Centres
- First version for Dissemination Plan
- Project management (document centre, synchronisation of activities, quality, etc...)

Needs and ideas for cooperation

Ideas for cooperation with other EU projects (1)

- Glossary
 - ♂ Improve and coordinate the glossary for FOTs – Common definitions among different projects
- Data Management
 - ♂ Exchange experiences on data loggers, data storage
- Legal issues
 - ♂ Contribute to a common understanding on legal and ethical aspects (major issue for some of the euroFOT applications – e.g. trucks)

Ideas for cooperation with other EU projects (2)

- Performance indicators
 - ♂ Promote common use by different projects whenever suitable
 - ♂ Measuring procedures
- Vehicle Management Centres
 - ♂ Compare methods for driver selection / recruitment
 - ♂ Compare different operational procedures
 - ♂ Collaborate for tests on SafeHMI and nomadic devices (VMC Germany)

Ideas for cooperation with other EU projects (3)

- Dissemination
 - ♂ Joint presentations (EU level) at selected international events
- Evaluation
 - ♂ Exchange of state-of-the-art on data analysis methods for FOTs
 - ♂ Discussion on evaluation methodologies, focusing on safety, efficiency and environmental impacts
 - ♂ Exchange experiences on analysis tools; use of comparable tools



Bringing intelligent vehicles to the road

Thanks for your attention

Aria Etemad

Ford Research & Advanced Engineering Europe

Email: aetemad1@ford.com



www.eurofot-ip.eu

8 Functionalities, 28 Partners, 1500 Vehicles

1 Field Operational Test, 8 Functionalities

28 Partners, 1500 Vehicles, 1 Field Operational Test

8 Functionalities, 28 Partners, 1500 Vehicles

1 Field Operational Test, 8 Functionalities

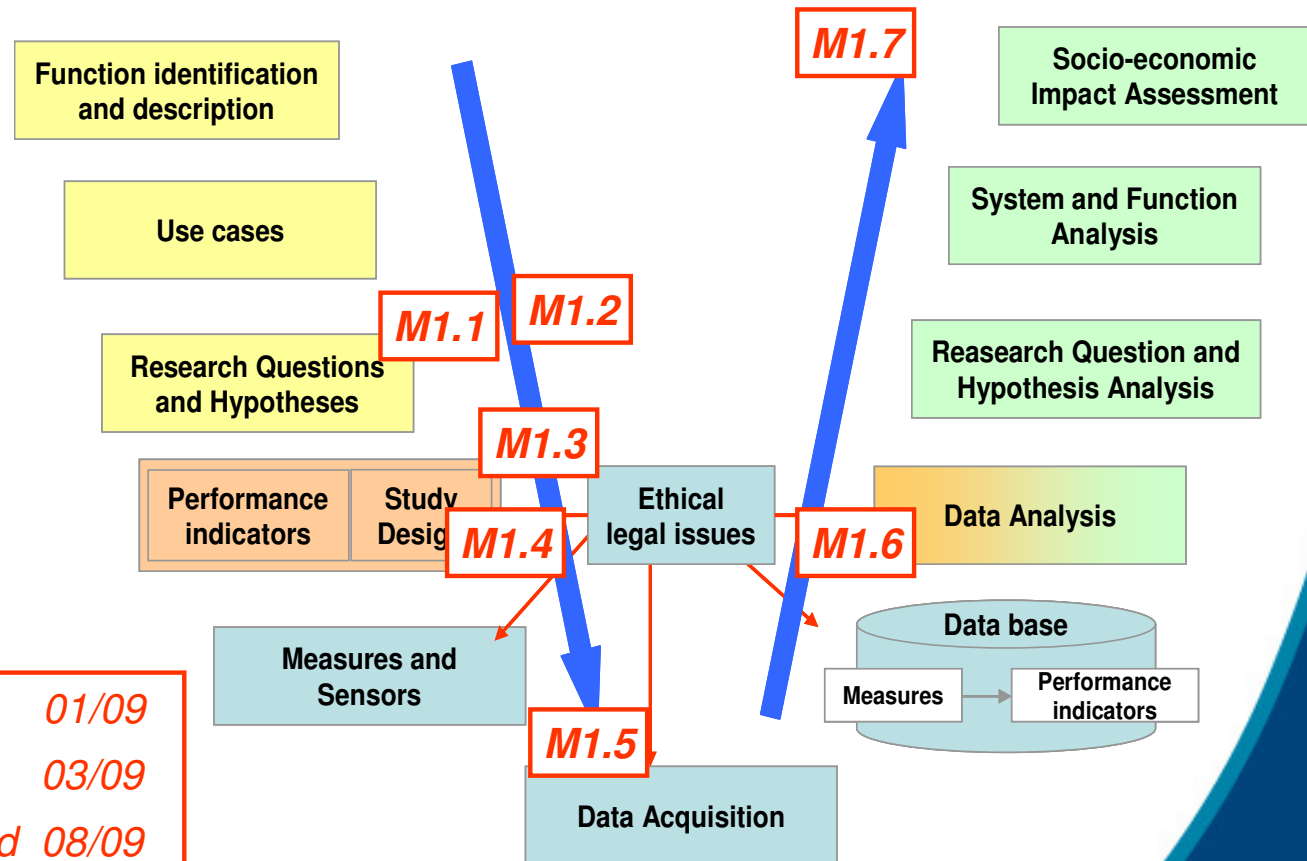
28 Partners, 1500 Vehicles, 1 Field Operational Test

8 Functionalities, 28 Partners, 1500 Vehicles

1 Field Operational Test



Next planned results



IP Milestones

<i>M1.1 First plan FOT is defined</i>	<i>01/09</i>
<i>M1.2 Systems are specified</i>	<i>03/09</i>
<i>M1.3 Second plan FOT is defined</i>	<i>08/09</i>
<i>M1.4 Prototypes are validated</i>	<i>11/09</i>
<i>M1.5 Vehicle fleets are ready</i>	<i>12/09</i>
<i>M1.6 All data are available</i>	<i>02/11</i>
<i>M1.7 Evaluation is concluded</i>	<i>08/11</i>