Objectives of L3Pilot Methodology

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Objectives for the methodology

• Develop a methodology for the piloting, testing and evaluation of AD systems for achieving reliable results
• Reconsider the theoretical background and impact mechanisms required for building a multidisciplinary evaluation methodology
• Consider not only the expected positive impacts, but also the unintended, and possibly negative, impacts of AD
• Facilitate a good understanding of all possible effects of AD on the transport system, including the effects on equity of mobility and well-being of people, behavioural adaptation, safety and capacity, fuel consumption and emissions
• Provide input to a Code of Practice for AD testing, interface design, and investigation of Human Machine Interaction
L3Pilot methodology overall structure

PREPARE (i)
- Functions & use cases
- Research questions & hypotheses
- Performance indicators & measures
- Data collection tools
- Study design
- Test site set-up

DRIVE (ii)
- Pre-tests
- Piloting

LEGAL ASPECTS & CYBER-SECURITY (iv)

EVALUATE (iii)
- Societal impacts
- Impact on safety, mobility, efficiency and environment
- Driving behaviour and traffic
- User and acceptance
- Technical performance
- Data processing
- Test site wrap-up
Step 1: Define research questions, hypotheses & logging needs

- Theories & mechanisms
- Function descriptions
- Research questions
- Hypotheses
- Logging needs
Step 2: Define experimental procedures and make plans how to implement them on the pilot sites

Controlled tests:
- What is allowed?
- By whom?
- Where?
- When?
- In which conditions?
- For how long?
- Etc…
Step 3: Define research methods for all research questions

- Existing tools
- New tools
Thank you for your kind attention.

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