

# Socio-economic assessment and sustainability



Assessment is a continuous activity taking place parallel with the development of automated driving functions in road traffic. Several methods and approaches are needed. Currently, focus in the assessment activities is in piloting of automated driving in field, also on open roads.

## Challenges

- Impact mechanisms are complex. To catch all ripple effects, up-dates of modelling is needed on several levels; How to cover indirect and long term effects?
- Involvement of general public in pilots; safety and security in piloting phase
- How to scale up the results of local pilots
- The nature of CAD is fast-moving and knowledge is evolving gradually: How to introduce the assessment results to the different stakeholders?

## Research Needs

- Socio economic benefits in terms of inclusiveness, more livable cities and user-centric activity based mobility solutions
- Long-term studies on how automation supports mobility
- Research on emerging new mobility patterns
- Research on how trust, acceptance and adoption of road automation develop over time and with more exposure and experience with automated systems

## Statements

- Use of passenger cars (exposure) will increase due to L4 automation.
- Car sharing will increase significantly by 2030 as a result of automation.
- Car drivers are willing to pay more for L4 automated cars than non-automated cars.
- Drivers of automated vehicles will make productive use of time on-board automated vehicles (L4 above) – new value of time for the cost-benefit

## Expected Impact

- Decision makers and stakeholders (road authorities, OEMs, mobility service providers, fleet operators, transport and logistics owners, drivers/fleet organisations, medias, micro-electronics industry, telecom industry and finance sector) are aware of user reactions and impacts in alternative deployment scenarios
- A sound knowledge base for well-reasoned decisions would enable a sustainable path towards increased automation in road transport

