

New shared and automated mobility services



Road vehicle automation, (from SAE level 4) will offer concrete solutions not yet technically or economically feasible with conventional transport systems and long haul/urban freight delivery services. It will open new business and operating model opportunities

Challenges

- Regulatory framework
- Combination of sharing economy and shared mobility effects
- Impacts on professional drivers
- New business models
- Integration with existing public transport
- Foster innovation and creativity
- Social inclusion and mobility for all
- Impact on inter-urban and urban logistics and e-commerce
- Transport models and simulation tools to be upgraded

Research Needs

- Safety and security
- New hybrid and integrated transport models and simulation tools
- Overall cost/benefit analysis
- User behavior and adaptation
- Role of local road operators
- Impact on cities and society
- Potential of combined people and goods vehicles, Connected and self-organized services for long distance freight transport
- Large scale demonstrations

Statements

- New mobility services will need policies
- New mobility services will blur the current boundaries between collective, individual, passengers and freight mobility
- Need a new win-win collaboration between public and private actors, shared governance and business models, and require new taxation
- Could help create profitable businesses
- Safe operations rely on supervision systems
- Require to remove the on-board driver
- Will preserve the city centers
- Require various stakeholders' cooperation
- Should be reserved to license-owners
- Require users willingness to share
- Will be fostered by markets creativity
- Will allow and require new public space allocation

Expected Impact

- Competitiveness of European transport industry
- Foster the development of start-ups and SMEs
- More effective and customized collective transport
- Enhanced accessibility, social inclusion, multimodality, environment, safety and reduction of road externalities

