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ALICE – Connected, Cooperative and Automated Logistics Operations Activity Field Launch

European Approach to CCAM development

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Cooperative, Connected and Automated Mobility (CCAM)



- Bring us on the path towards near zero road fatalities (vision zero)
- Increase accessibility of mobility services
- Help reduce harmful emissions from transport by making traffic more efficient

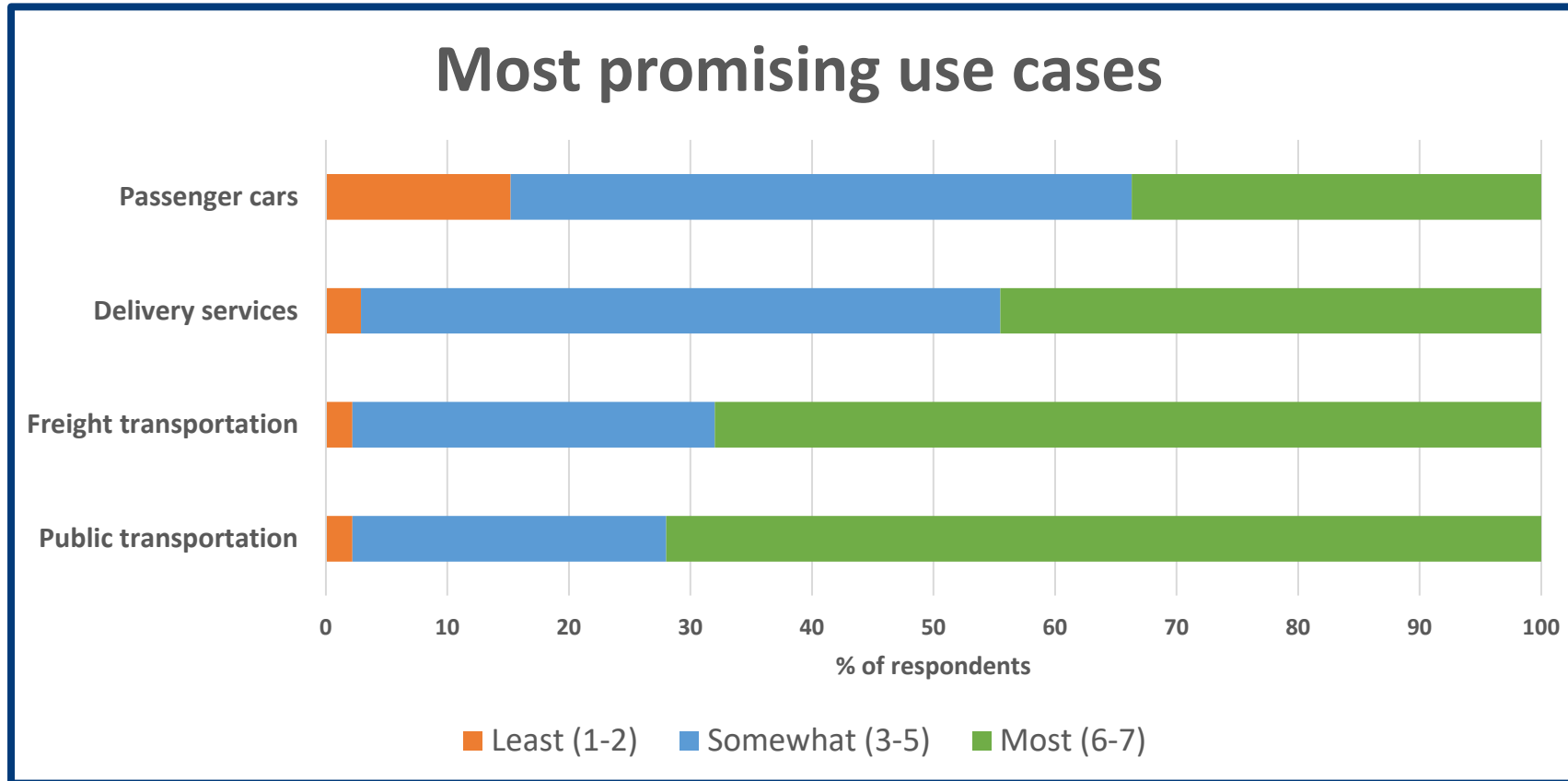
EC vision

We want CCAM solutions that

- are fully integrated in the transport system, accompanied by the right support measures by the public sector
- **support new mobility concepts, shifting from a driver-centred to mobility-user oriented approach**



Relevance of automated solutions for logistics



Source: EU CCAM survey September 2023

Price of Anarchy*

NEW TECHNOLOGIES ALONE ARE NOT THE SOLUTION



*Belov et al. (2020) The Simulation-Based Price of Anarchy Estimation with Different Model Parameters. Journal of Intelligent Transport Systems

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Main challenges

- Which are the most promising use cases?
- What is the societal added value of the different CCAM solutions?
- What is the specific business model for each autonomous solution?
- How to move from EU/National (research) funding to other sustainable long-term development and deployment funding?



Role of Regulation

Amendment of the ITS directive 2010/40/EU

Information & mobility services



Travel, transport & traffic management services



Road safety & security



Cooperative, connected & automated mobility



Extension of the scope of the Directive:

- **Mandates availability of crucial data** (real-time traffic information, road-safety related events and multimodal travel information services)
- **Introduces a definition of C-ITS: *intelligent transport systems that enable ITS users to interact and cooperate by exchanging secured and trusted messages, without any prior knowledge of each other and in a non-discriminatory manner***



Harmonisation of testing exemption procedures in Europe



Discussions ongoing

- FAME project
- Projects (i.e Hi-Drive)
- CCAM SRG
- DG GROW MVWG



International Collaboration

- **Supporting international collaboration remains a top priority**
 - *share experiences, knowledge and data collected in research projects and large-scale demonstration pilots*
 - *harmonised approaches in terms of testing, methodologies and standards.*



Thank you for your attention

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