Summary of the context and overall objectives of the project

Global socio-economic and environmental megatrends are posing new challenges and demands on mobility in Europe. Novel technologies and services for passenger and freight transport provide opportunities to answer these. However, in order to become disruptive and change behavior, these solutions have to be cross-modal and tailored to the needs of users. User centric design concepts and a focus on interfaces between modes have to be employed. Collaborations and exchange are needed across a diverse stakeholder group from various sectors and perspectives to deliver efficient solutions and tap the full potential of new opportunities. Last not least, users have to be directly involved in a bottom-up approach.

Mobility4EU is a Coordination and Support Action of the European Commission that started in January 2016 and lasts for 3 years, until 31 December 2018. The project is working on delivering a vision for a user-centered and cross-modal European transport system in 2030 and an action plan including a roadmap to implement that vision. Recommendations for tangible measures in research, innovation and implementation targeted towards various stakeholder groups are being derived. Furthermore, a European Transport and Mobility Forum is being initiated. This forum intends to bring together stakeholders from supply and demand side in passenger and freight transport to discuss and collaborate on topics of cross-modal and user centered transport.

Work performed from the beginning of the project to the end of the period covered by the report and main results achieved so far

The entire process from studying trends and options for solutions, developing a vision and finally creating the action plan is organized within a structured participatory approach that aims to engage a broad stakeholder community into the consultation processes (see figure). This is achieved by employing a structured tool, the Multi-Actor Multi-Criteria Analysis (MAMCA) and an accompanying story mapping process that supports the process in a more creative and interactive way.

The work towards the vision and action plan for the future of transport in Europe in 2030 is based on the identification and assessment of societal challenges that will influence future transport demand and supply. Within the first phase of the project 9 trends that are projected to have relevance in shaping the future European transport system in 2030 have been identified extending on first results of the first Mobility4EU workshop on “Societal requirements and challenges for transport”. The Mobility4EU context map (http://www.mobility4eu.eu/graphics-and-maps/) visualized the results of this process. This builds one part of the story mapping process.
Together with European experts from all fields in transport of passengers and freight, a portfolio of 92 promising and innovative transport solutions across all modes answering the identified user needs has been composed. A major part of this work was interactively carried out at the second Mobility4EU workshop “Novel and innovative mobility solutions”. These include solutions in concept or research stage but also recently implemented ones that need to be supported for advancing technologies or products for wider deployment. Links from the solutions to user needs are made within an opportunity map (http://www.mobility4eu.eu/graphics-and-maps/). This opportunity map composes the second part of the story mapping process.

The portfolio of solutions and the work on trends have been the foundation for building scenarios for the development of future transport in Europe within the MAMCA. The scenarios have been co-created with stakeholders within the 3rd Mobility4EU workshop “Scenario Construction”. Within the MAMCA process, these scenarios and the included solutions are being ranked by a broad stakeholder community coming from all fields of transport. The weighting of stakeholder criteria was started off in the 4th Mobility4EU workshop “Criteria Weighting” and continued through an online survey. This survey was filled in by 210 stakeholders from 28 countries representing private and public companies, research organisations as well as European national, regional and local associations and local, regional and national governments. The criteria weights from the different stakeholder groups will be used to ultimately calculate the ranking of the scenarios for each stakeholder group.

A further prioritization of solutions will be done through an adapted extended Failure Modes and Effects Analysis (FMEA). The solutions coming out of these rankings, MAMCA and FMEA, will be taken into a creative process of vision building that will be undertaken together with stakeholders from all fields of transport. This will lead to the Vision for Transport in Europe in 2030 which will concentrate on interactions, combinations and interfaces between prioritized solutions. Finally, an action plan to implement that vision will be drafted and put into a broad stakeholder consultation.

One of the major aims of the project Mobility4EU is to define the scope, structure and activities of a “European Transport and Mobility Forum” which is being built by involving all relevant stakeholders from supply and demand side in passenger and freight transport. This forum shall continue the activities of the project and start by defining next steps and activities to implement the action plan. The forum will be an alliance that helps identifying, designing and implementing disruptive mobility solutions in participatory and

**Progress beyond the state of the art and expected potential impact (including the socio-economic impact and the wider societal implications of the project so far)**

The final action plan will recommend what needs to be done in research, innovation, and implementation both in technical and non-technical domains in order to achieve the vision. The action plan will focus on links between modes, opportunities for collaboration and knowledge transfer. It will furthermore emphasize strategies that will enable the development of a user-centered transport system. Moreover, it will promote consensus building and dissemination of good practices.

The European Transport and Mobility Forum will establish cross-modal links between transport modes for passengers and freight, integrate user representatives into the network and include their perspectives into all transport aspects. It shall involve stakeholders beyond transport and sustain the work of Mobility4EU beyond its duration.

Thus, the project Mobility4EU will support the advancement towards a user-centered cross-modal European transport system by bringing together the relevant stakeholders from R&D&I with representatives of users. Furthermore, the structured democratic and participative stakeholder dialogue that is being established will foster the collaboration and cooperation between the stakeholders from the individual modes.

**Related information**