



Building an action plan for user centric transport in 2030

The project Mobility4EU

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WoCoMoCo 2017
5th World Collaborative Mobility Congress
19 October 2017 - Berlin, Germany



Objectives



- identify and assess **societal trends and challenges** that will influence future transport demand and supply
- find **cross-modal technical and organisational transport solutions**
- create a **future vision of a transport system in 2030** and develop an **action plan including a roadmap** for the implementation of that vision
- **engage a broad stakeholder community** into the consultation processes of the project and its implementation
- **sustain the work of the project beyond its duration**, e.g. in the form of a new European Transport and Mobility Forum
- **Co-mobility is important building block for a user-centric cross-modal transport system, but can also still be enhanced within such a system**

Action Plan for the Future of Mobility (CSA)

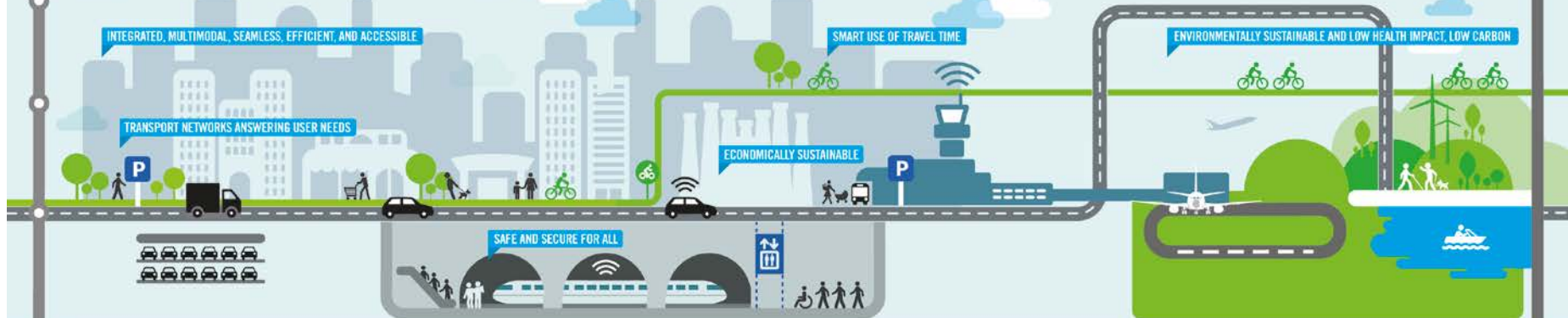


Duration: 1 Jan 2016 – 31 Dec 2018

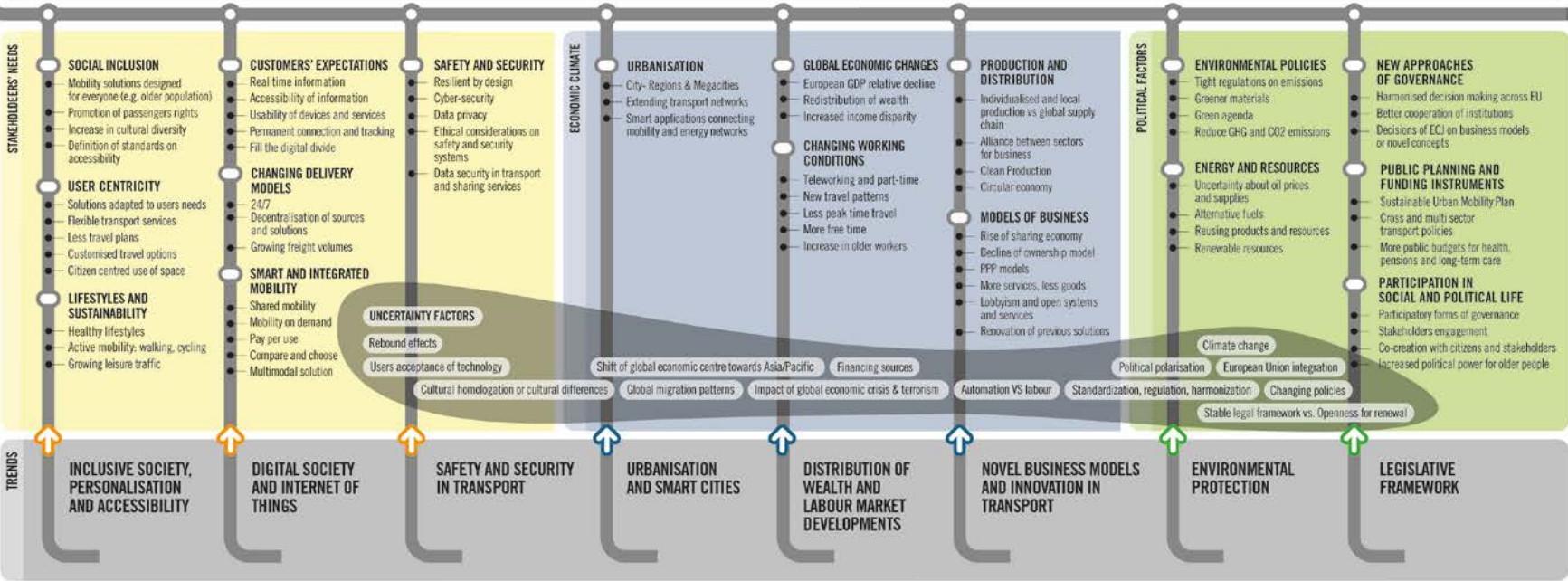
Funding: DG RTD

Consortium: 19 partners from 11 countries

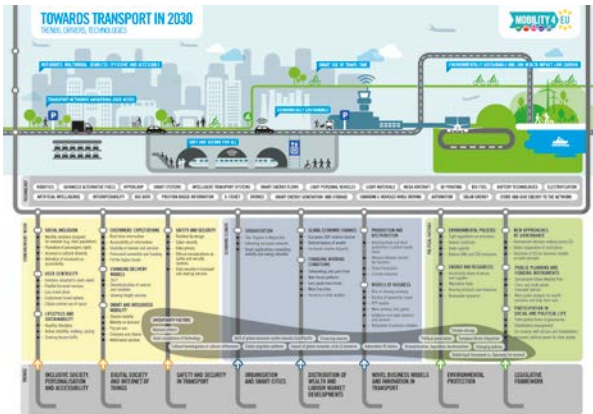
- VDI/VDE-IT (Germany) (Coord.)
- VUB (Belgium)
- Ifsttar (France)
- CERTH (Greece)
- Deep Blue (Italy)
- SIEMENS (Germany)
- CRF (Italy)
- Zaragoza Logistics Center (Spain)
- Bauhaus Luftfahrt (Germany)
- Echandia Marine (Sweden)
- ST Micro (France)
- HUMANIST (France)
- Osborne Clarke (Belgium)
- Transport Authority of Barcelona (Spain)
- Dutch Passenger Association (Netherlands)
- International Longevity Centre (UK)
- Budapest Association of Persons with Physical Disabilities (Hungary)
- VTT (Finland)
- ICCT (Germany)



- TECHNOLOGY**
- ROBOTICS
 - ADVANCED ALTERNATIVE FUELS
 - HYPERLOOP
 - SMART SYSTEMS
 - INTELLIGENT TRANSPORT SYSTEMS
 - SMART ENERGY FLOWS
 - LIGHT PERSONAL VEHICLES
 - LIGHT MATERIALS
 - MEGA AIRCRAFT
 - 3D PRINTING
 - BIO FUEL
 - BATTERY TECHNOLOGIES
 - ELECTRIFICATION
 - ARTIFICIAL INTELLIGENCE
 - INTEROPERABILITY
 - BIG DATA
 - POSITION BASED INFORMATION
 - E-TICKET
 - DRONES
 - SMART ENERGY GENERATION AND STORAGE
 - CHARGING E-VEHICLES WHILE DRIVING
 - AUTOMATION
 - SOLAR ENERGY
 - STORE AND GIVE ENERGY TO THE NETWORK



Definition of user needs



- Stakeholder needs
- Trends and their impacts on mobility



Details in



Benefits of collaborative mobility



Various user needs can be satisfied through collaborative mobility services

- **Easy-to-use**, comfortable, and **flexible** travel
- Enhanced **seamless end-to-end-journeys**
- accessibility and **affordability** of mobility offer
- **Personalized** mobility offers and (**shared**) ownership models

Others still have to be met, as e.g.

- **Inclusiveness**
- **Data security, privacy and transparency of the use of data**

- **enhance road based transport of passengers and freight**
 - Car-/Ride-/Bike-/Park-sharing
 - Shared courier platforms
- **Support multimodality by benefiting Mobility-as-a-service**
- **enhance transport beyond road**
 - Air
 - 4-hour-door-to-door journeys
 - Rail
 - Intermodal megahubs/future station
 - First/last mile solutions
- **Potentially benefit shift to**
 - **public transport**
 - **low emission vehicles**
 - **active modes**



MOBILITY 4 EU

OPPORTUNITY MAP FOR THE FUTURE OF MOBILITY IN EUROPE 2030

ACTION PLAN FOR THE FUTURE OF MOBILITY IN EUROPE
EU COORDINATION AND SUPPORT ACTION H2020
JANUARY 2016 - DECEMBER 2018

In this brochure:
DEFINITION OF USER NEEDS / INNOVATIVE SOLUTIONS FOR DIFFERENT
MODES OF TRANSPORT AND USES / CROSS-MODAL APPROACHES /
LINKS TO ENRICHED CONTENT
—short version—

Portfolio of mobility concepts and solutions that answer user needs

Interfaces between solutions

Synergies



Car Sharing



optimizes energy use

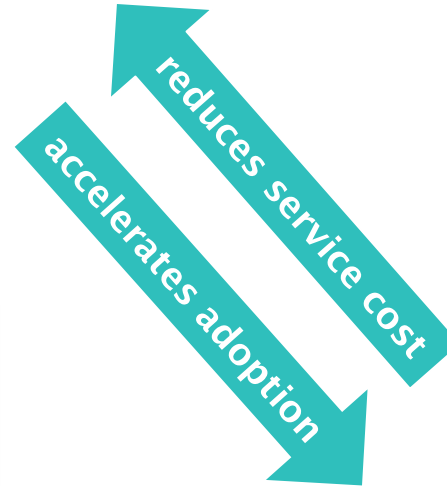
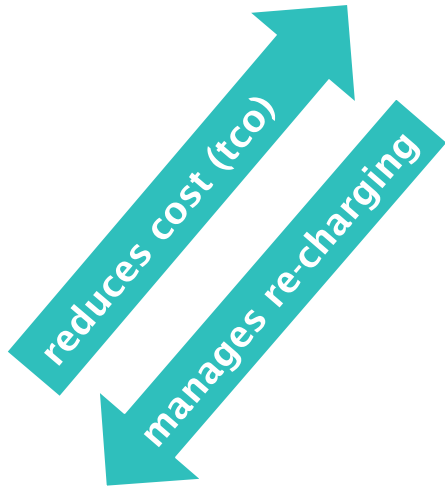
simplifies controls



Electrification



Automation



- **Automated** and **connected** vehicles
- **V2X** and **big data** for safety and traffic management
- Advanced **cybersecurity**
- **Blockchain** solutions for passenger and freight transport
- **Universal design/design** for all
- **Gamification**
- **Urban design** supporting active modes
- **Standardization** for data flows and modal interfaces

will make collaborative mobility

- **safer**
- **inclusive**
- more **efficient**
- **sustainable**
- **protect** the **data** of users
- **encourage** the **use** of collaborative mobility services
- **support** the **integration** of collaborative services in multimodal transport

- **Integration in other modes** especially in the urban context
- New usage models have to look closely on **user needs**
- **Inclusiveness** and accessibility for all included from the start
- **Reducing impact on climate, environment and health**

Enhancing impact of collaborative mobility services by opening opportunities for high additional benefits through

- **Collaboration, cooperation, standardization, technology and knowledge transfer** with stakeholders and actors within different transport modes
- Cooperation with **players from outside** the traditional transport sector, as e.g. IoT, automation, big data
- **Outreach to policy makers, urban planners etc.**

**Mobility4EU is working on that through
“European Transport and Mobility Forum”**



Vision

An alliance that helps **identifying, designing and implementing disruptive mobility solutions** in **synergetic ways** and in **participatory** processes taking into account innovation potentials and **user perspectives** from the start

Objectives

- establish **multi-/cross-modal links** between transport modes for passengers and freight
- **integrate user representatives** into the network and include their perspectives into all transport aspects
- involve **stakeholders beyond transport**
- **follow up** on the **action plan** and propose implementation steps

Towards the Action Plan

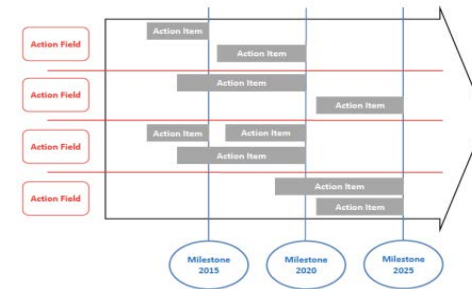
Vision for Transport 2030



In creative and interactive process build a **vision** from **prioritized solutions** by concentrating on their **interactions/combinations /interfaces**

- **Consensus Building WS**, 24 Oct 2017, Brussels
- **Creative WS on vision** for transport, 21 Nov 2017, Brussels

Action Plan



Detail measures regarding **policy, regulation, standardisation, forms of governance, user acceptance, technology development** and other **implementation related issues**

- **WS to finalize Action Plan**, Early 2018
- **Stakeholder Consultation Conference**, Spring 2018

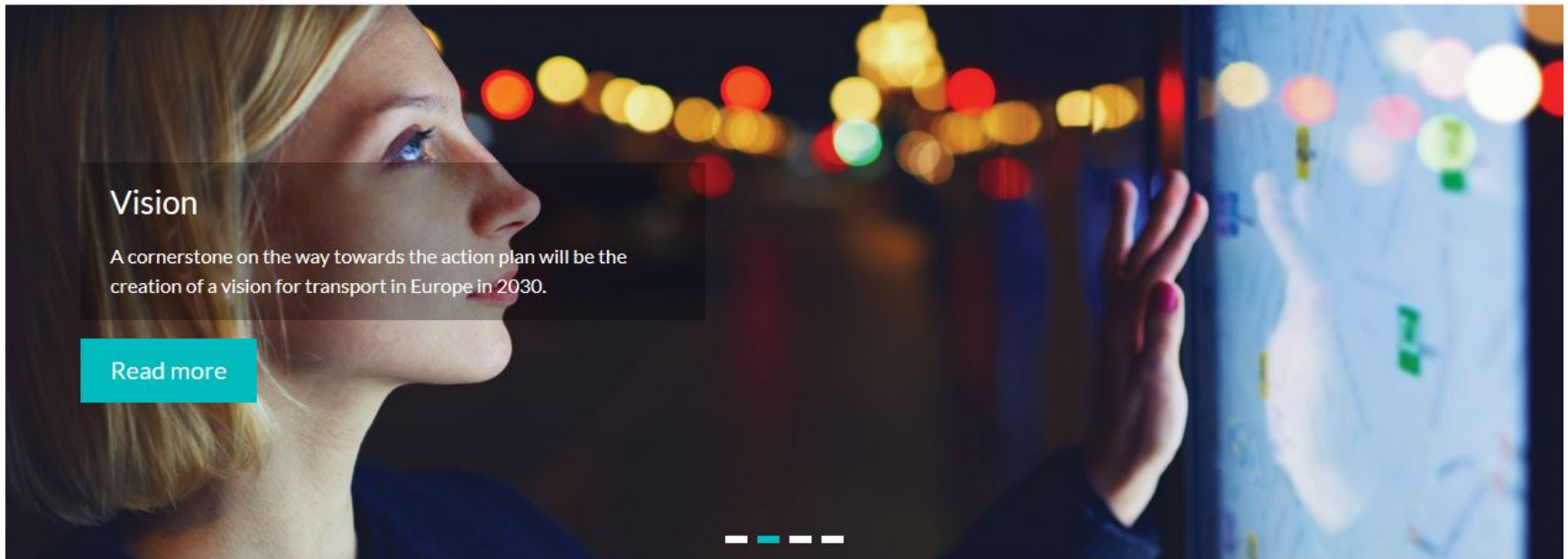
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