



# Building an action plan for user centric transport in 2030

## The project Mobility4EU

Beate Müller, VDI/VDE-IT, Germany (coordinator)

AMAA 2017

Smart Systems Transforming the Automobile

25/26 September 2017 - Berlin, Germany

# 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)

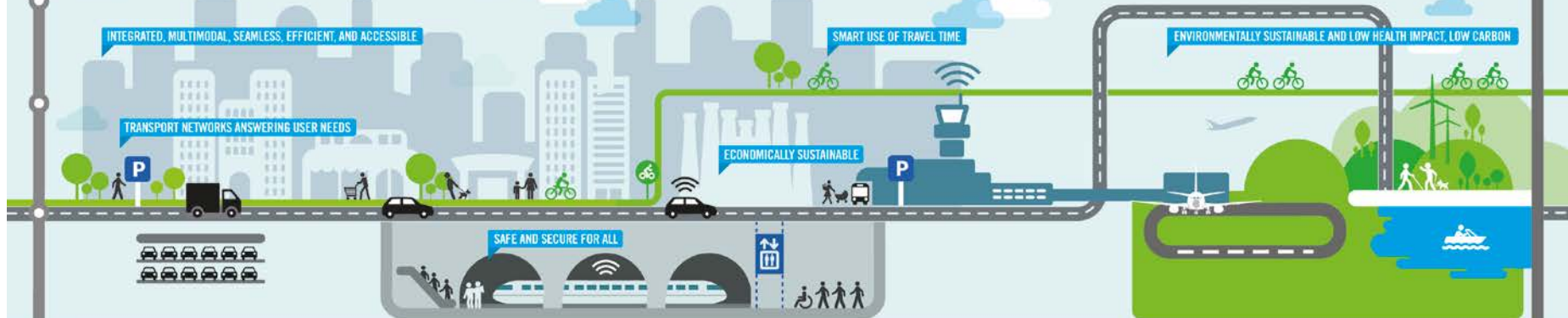
# Objectives



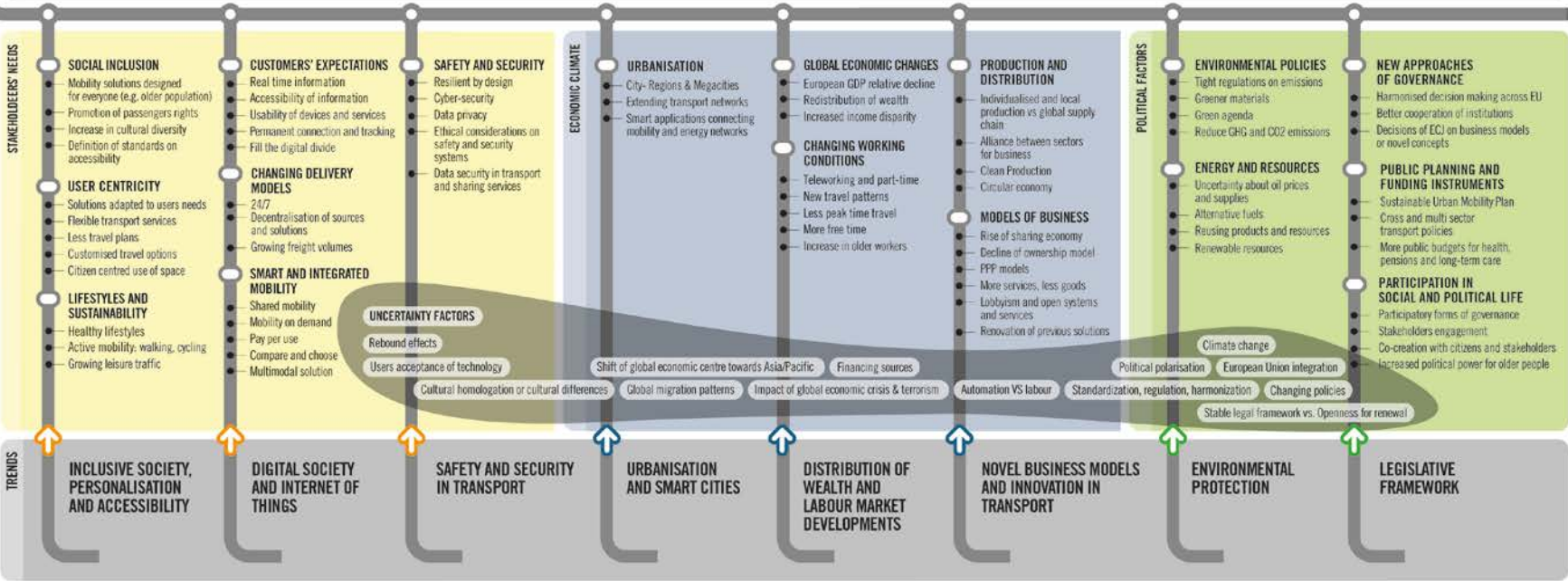
- identify and assess **societal trends and challenges** that will influence future transport demand and supply
- find and categorise promising **cross-modal technical and organisational transport solutions**
- establish a **future vision of a transport system in 2030**
- develop an **action plan including a roadmap** for the implementation of that vision
- **recommend tangible measures in research, innovation and implementation**
- **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







- 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



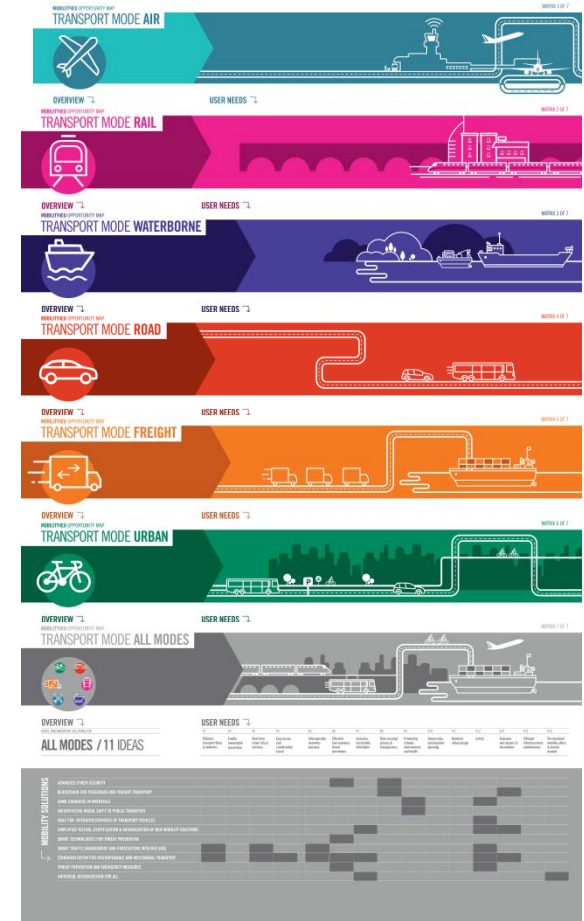
# From Portfolio of Solutions to Opportunity Map



## Novel and Innovative Mobility Concepts and Solutions (05 July 2016, Brussels)



Portfolio of solutions



Opportunity Map

# From Portfolio of Solutions to Opportunity Map



## Novel and Innovative Mobility Concepts and Solutions (05 July 2016, Brussels)



### Portfolio of solutions



## Road specific topics

- Adaptive **safety** systems
- **Automated** and **connected** vehicles
- Future Generation of **electric** vehicles
- **On-road charging** for trucks
- **Car-/Ride-/Parksharing**
- Small vehicles developed fit-for-urban-purpose
- Urban electric busses
- **V2X** for safety and **traffic management**

## Topics horizontal across modes

- Advanced **(Cyber)security**
- **Blockchain** solutions for passenger and freight transport
- Game changers in materials
- **ADAS**
- Smart traffic management and forecasting with **big data**
- **Standardization** for interoperable and multimodal transport
- **Universal design/design** for all

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

Enhancing impact of solutions by opening **opportunities** for high additional benefits through

- **Collaboration, cooperation, standardization, technology and knowledge transfer** within and across modes
- Broader cooperation strategy including **players from outside** the traditional transport sector, as e.g. IoT, automation, big data
- **Outreach to policy makers, urban planners etc.**

To be facilitated 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

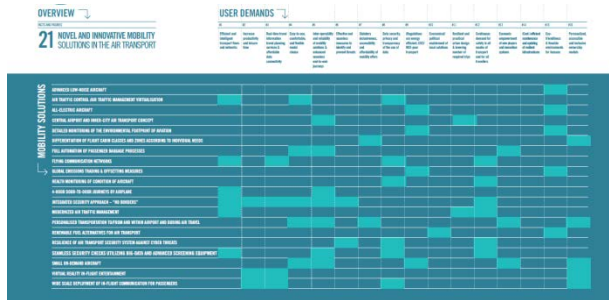
## Objectives

- 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
- sustain the work of Mobility4EU beyond its duration

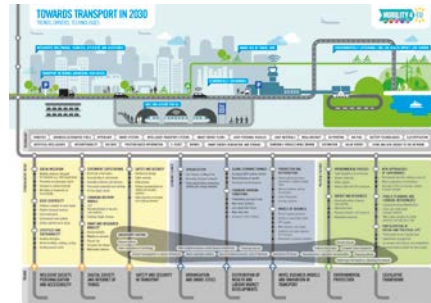
# Towards the Action Plan



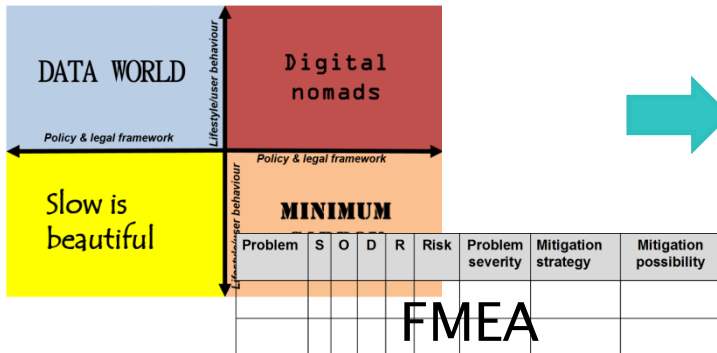
## Pool of solutions Opportunity Map



## Initial ideas for transport system in 2030 Context Map



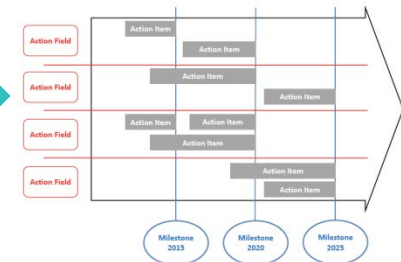
## Ranking of solutions MAMCA & FMEA



## Vision for Transport 2030



## Action Plan



# Towards the Action Plan

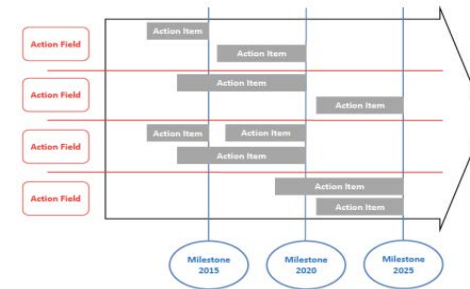
## Vision for Transport 2030



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

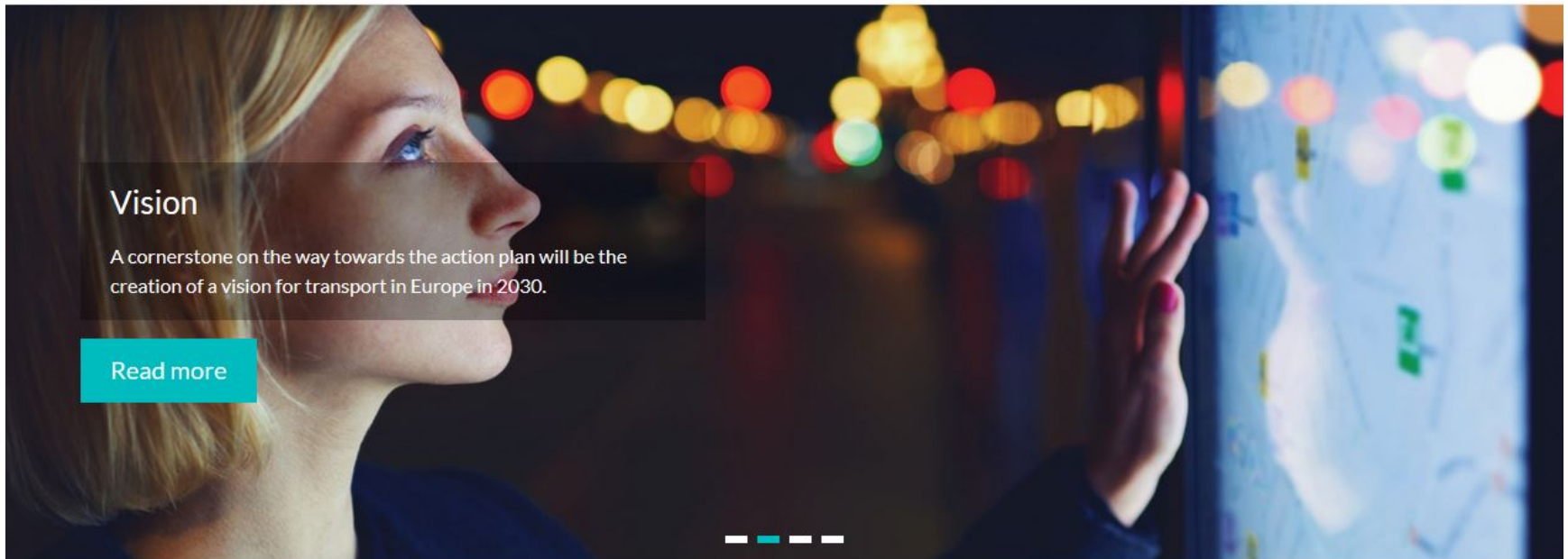
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# MOBILITY 4 EU

## Action Plan for the future of mobility in Europe (690732)

Project funded by the European Commission within the H2020 Programme (2014-2020)



# Interfaces between solutions

Synergies



Car Sharing



optimizes energy use

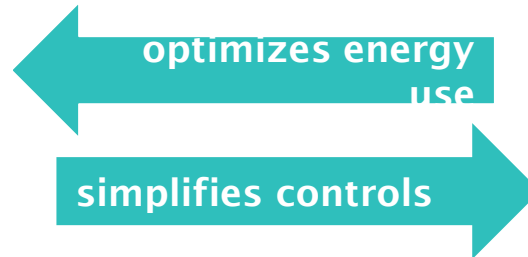
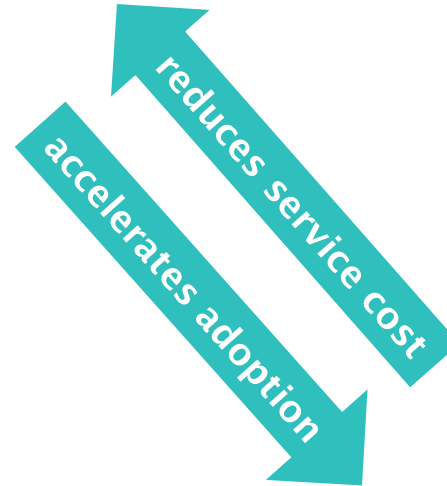
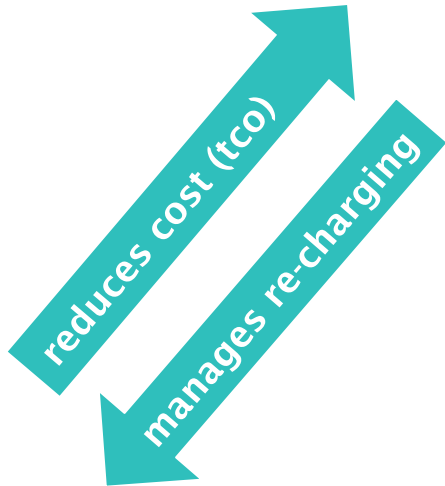
simplifies controls



Electrification



Automation

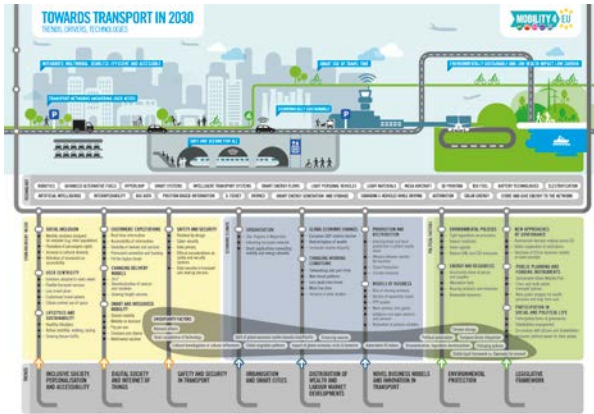




# Definition of user needs



Stakeholder needs from Context Map

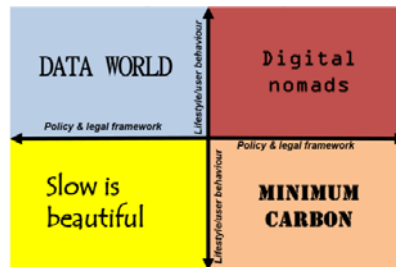


Details in



Trends and their impacts on mobility

Collection of stakeholder objectives through MAMCA



# Associated Partners



AGE Platform (BE)

Airport Munich (DE)

Athens (GR)

AVERE (BE)

BMT (UK)

Catalunya Camina (ES)

ComTrade (SI)

European Cycling Federation (BE)

ERTICO (BE)

EURNEX (DE)

Fincantieri (IT)

Ideas & Motion (IT)

Knowledge Transfer Network  
(UK)

Low Carbon Vehicle  
Partnership (UK)

MOV'EO (FR)

Rail Group (ES)

Procter & Gamble (BE)

Rupprecht Consult (DE)

Liaised with ALICE ETP

**And more contacted...  
Let us know if you are  
interested!**