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Linking Europe

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# Mobility As A Service For Linking Europe (MAASiFiE)



the 2nd Workshop on Infrastructure Cloud, Brussels, June 9<sup>th</sup> 2017

Dr. Aki Aapaoja, VTT Technical Research Centre of Finland

Collaborative Innovation Days

2nd Workshop on Infrastructure Cloud - Operation and Services workshop 09/06





2

# MAASiFiE project information

- Research programme: CEDR Transnational Road Research Programme – Mobility & ITS
  - Funding partners of ITS & Mobility are the National Road Administrations (NRA) of Austria, Finland, Germany, the Netherlands, Norway, Sweden and United Kingdom
  - Research Calls are managed by the Austrian Research Promotion Agency
- Project duration: 1st June 2015 31st May 2017
- Project coordinator: VTT Technical Research Centre of Finland Ltd.
- Project partners:
  - AustriaTech (Austria)
  - Chalmers University of Technology (Sweden)

# The Finnish And The Global Mobility Market



- The Government is pushing heavily to develop Finland into the forerunner in transport digitalization.
  - "Transport code enables better transport services: the code will make market access easier and promote interoperability of the different parts of the transport systems" (MinTC 19.4.2016)



Liikennekaari avaa joukkoliikenteen markkinoita ja voi oikeasti helpottaa Eri liikennevälineitä voi yhdistellä joustavasti ja yhdellä lipulla voi matkustaa Suomen halki. Yhdessä paikassa se toivon mukaan tuo säästöiä, toisessa uusia palveluia.





# Project background and motivation

#### Changes in our environment...

- Decreasing importance of owning a car
- Sharing economy
- Modal shift targets (public transport)
- Sustainability
- Smartphones and applications
- Digitalization and automatization

#### ...require and enable new transport services

- New mobility services, e.g. car sharing, ride sharing...
- Strong IT-support for new mobility services
- Access to services at any time and from anywhere
- Real-time information
- Automated passenger and freight services

Emergence of Mobility as a Service (MaaS) can make the use of alternative transport modes even more attractive





# MaaS definition by MAASiFiE (2016)

"Multimodal and sustainable mobility services addressing customers' transport needs by integrating planning and payment on a one-stop-shop principle"

Multimodal transport; shared mobility

Multimodal traveller information

Integrated booking/ticketing/payment

# **Objective of MAASiFiE**

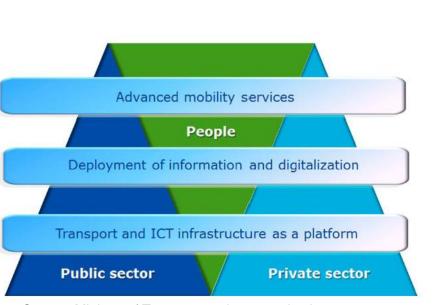


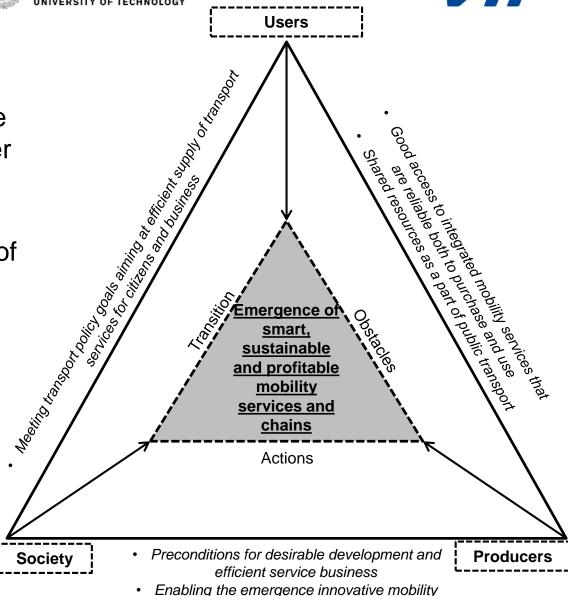
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MAASiFiE aims to

create a roadmap for the development of MaaS in Europe and especially in CEDR member states

increase the national road administrations' understanding of a wide scale implementation of MaaS





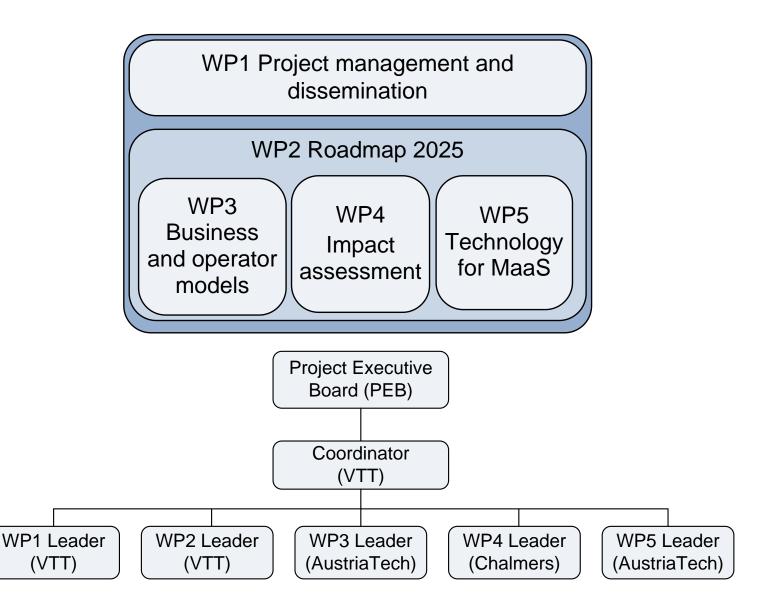
services

Source: Ministry of Transport and communication 2014

# **Project structure**





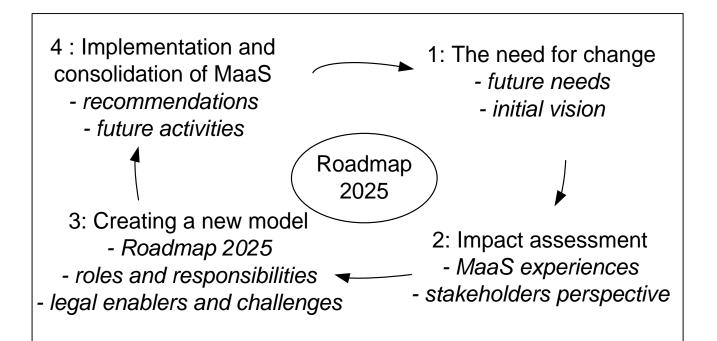


# **Project main content**

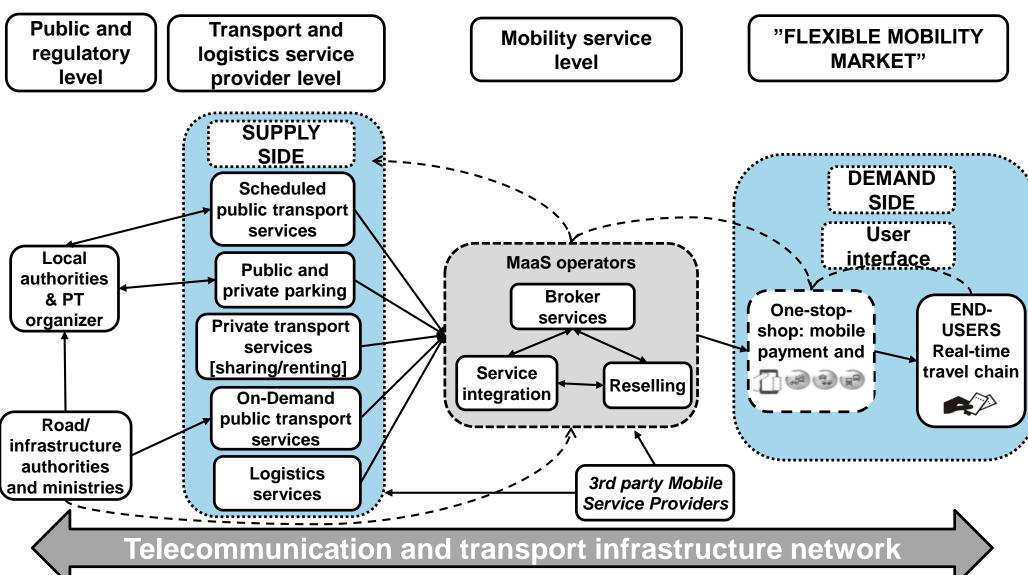




- MaaS vision, Roadmap 2025 and implementation of MaaS (WP2)
- MaaS state-of-the-art (WP2+3)
- MaaS service combinations in different geographical areas (WP3)
- Business and operator models (PPP & Commercial models) (WP3)
- Impact assessment and KPIs (WP4)
- Technology for MaaS (architecture, interoperability, roaming...) (WP5)











# MaaS in different geographical areas

#### Cities

#### **Objectives:**

- Reduce the use private of cars (congestions, parking)
- **Reduce emissions**

#### Based on:

- **Existing public transport**
- Extended with rental and shared cars and bikes...

#### Suburban areas

#### **Objectives:**

- No need for a 2nd car
- First-/last-mile accessibility

#### Based on:

Park & ride -services, on-demand other services transport and connecting suburban to citv transport services

#### Rural areas

#### **Objectives:**

- Increase efficiency and utilization rate
- Maintain sufficient service level
- Improve accessibility

#### Based on:

- Demand-responsive transport, taxis, busses and connections to long-haul transport, and car pooling
- Additional services: parcel deliveries, library services, and food and medicine distribution...

#### **National and international levels Objective:**

Offer easy all-in-one packages

#### Based on:

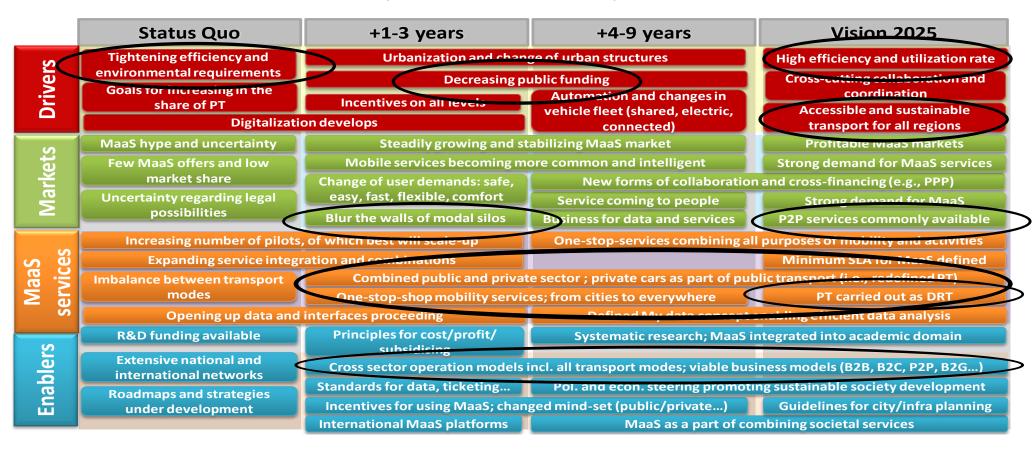
- Long-haul transport including air traffic
- Additional services: accommodation, tickets. event activities...







#### European MaaS Roadmap 2025



European MaaS Roadmap 2025.

http://www.vtt.fi/sites/maasifie/PublishingImages/results/cedr mobility MAASiFiE deliverable 2 revised final.pdf





#### More information?







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Please visit: <a href="http://www.vtt.fi/sites/maasifie/">http://www.vtt.fi/sites/maasifie/</a>

