

MaaS and role of rail sector

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Web Conference LIVE on #lessCARS

"The opportunities for railways in digital Platforms"



The concept of MaaS in UITP



UITP WORK ON MAAS



UITP MAAS REPORT

&

POLICY BRIEF



O POLICY BRIEF

READY FOR MAAS?

EASIER MOBILITY FOR CITIZENS AND BETTER DATA FOR CITIES

MAY 2019

INTRODUCTION

The urban mobility landscape is evolving fast and new solutions are being offered to citizens all over the world: From e-scooters, to bike- car- and ride-sharing to the rise of (e-) cycling and ride-hailing. The number of mobility services are growing rapidly, and especially in larger citizes. Is this the mobility revalution everyone is talking about? Or are these niche services hyped by the media and huge capital investments? And how should public authorities and local public transport companies act in response?



It becomes more and more clear that we are at the beginning of a new mobility era based on these fundamental trends:



Clean vehicles: Combustion engines will be phased out and in the future all vehicles will (have to) be clean.



Shared vehicles: The shared use of vehicles will increase both in the form of car- sharing (consecutive sharing of vehicles) and ride-sharing (simultaneous sharing of vehicles).



Automated vehicles: In the future vehicles will be driverless and connected, which will offer many opportunities for completely new mobility services.



Digitalisation of mobility. Optimisation of existing services and creation of new ones based on smart data and IT solutions that change the way people move and consume goods.

But are we ready for these changes? Instead of being a spectator, we should act now and steer developments into the right direction. Because, if applied in a smart way, these trends offer an absolute momentum for better and more sustainable urban mobility with public transport as the backbone! They will help us to reclaim urban space and rabuild streetscapes to create attractive cities for people. If no action is taken, the risk is that cities and public transport companies lose control and the ability to shape future urban mobility ay stems.

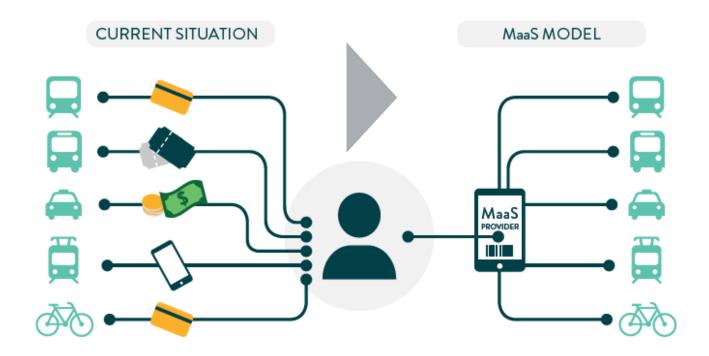




WHAT IS MAAS? - UITP DEFINITION

Mobility as a Service (MaaS) is the integration of, and access to, different transport services in one single digital mobility offer with active mobility and an efficient public transport system as its basis.

This tailor-made service suggests the most suitable solutions based on the user's travel needs. MaaS is available anytime and offers integrated planning, booking and payment, as well as, en route information to provide easy mobility and enable life without owning a car.





WHY IS MAAS INTERESTING?

1. Mega trends in mobility are boosting MaaS

2. Advantages for all stakeholders

- > User: complete and easy mobility
- City: helps to shape travel behaviour towards more sustainable modes
- PT: more customers and higher revenues





CREATING A USER CENTRIC EXPERIENCE

Usability and Trust are the keywords

- Simplicity: easy, user-friendly, convenient service
- High quality: correct information, reliability
- Impartiality: present mobility options in a transparent way
- Flexibility: personalized service adapted to customer needs
- EXTRA VALUE



BUILDING A STRONG PARTNERSHIP

MaaS is all about collaboration

- There must be a value for every partner
- Reciprocity & data deals
- Providers may keep their customer relationship





WHO TAKES WHICH ROLE WITHIN THE ECO-SYSTEM?





ROLE OF THE INTEGRATOR

WHO CAN MAKE IT FLY?

THE IMPACT ON SUSTAINABLE MOBILITY



MODAL SHIFT
REDUCED CAR OWNERSHIP
MORE MOBILITY OPTIONS
BETTER AIR QUALITY
IMPROVED TRANSPORT QUALITY
EFFICIENT ENERGY USE

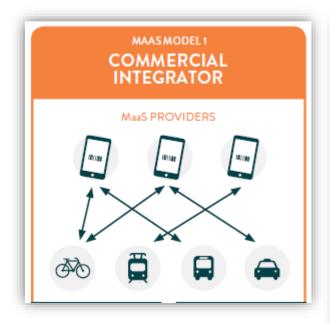


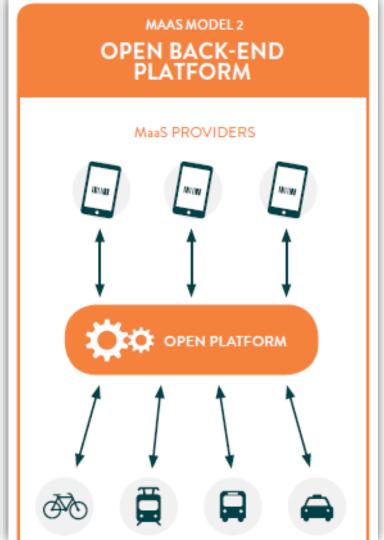


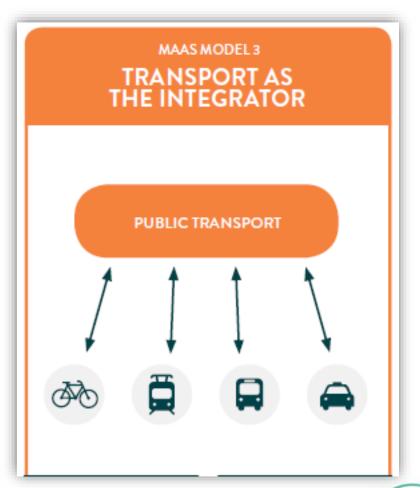
NUMBER OF USERS



DIFFERENT MAAS MODELS











Can rail be a backbone of MaaS?

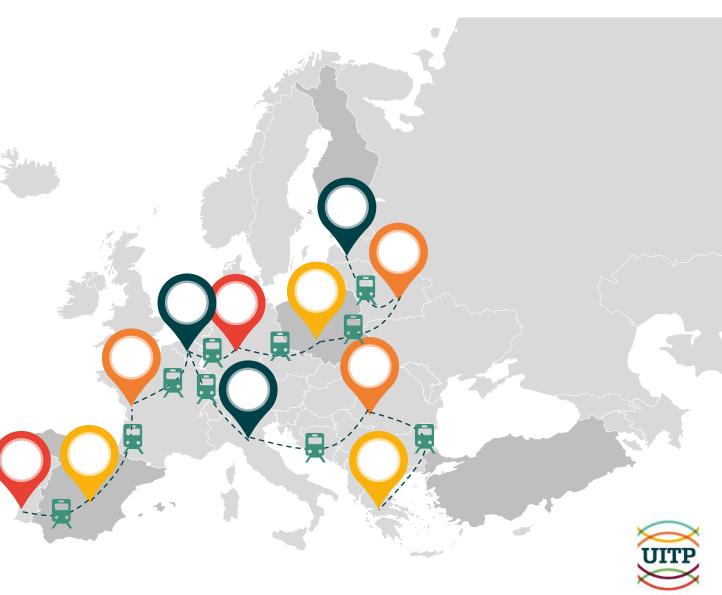


LET'S THINK IN THE FRAME OF EUROPE

MaaS projects in cities are not something new

Can we go towards globe MaaS?

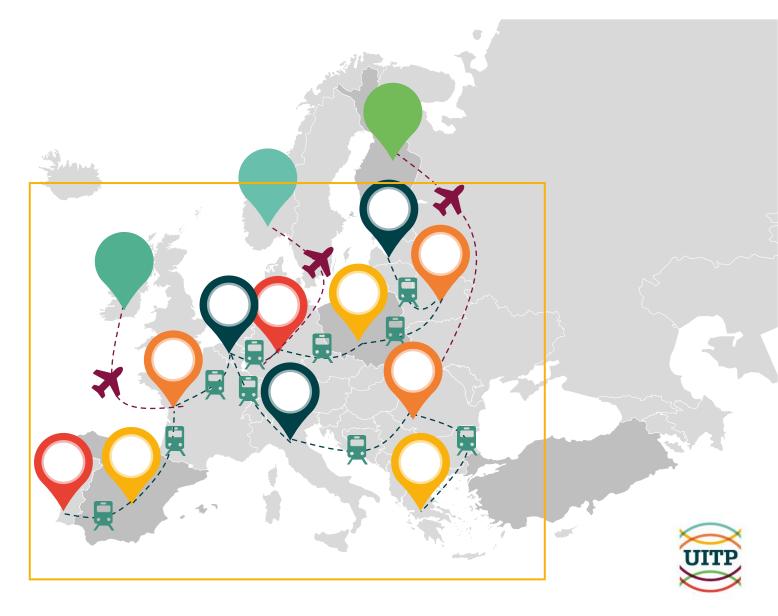
Rail can have a significant role in its delivering



LET'S THINK IN THE FRAME OF EUROPE

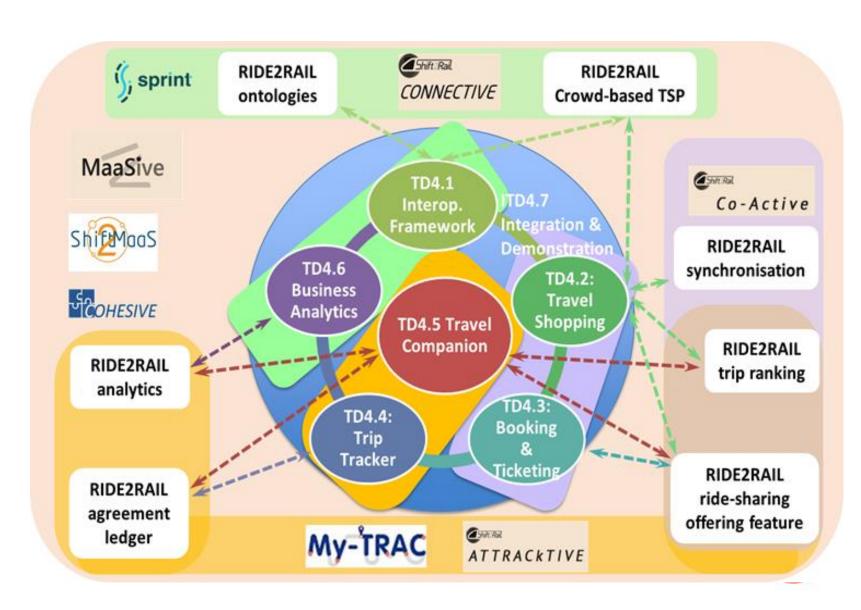
Planes can compliment MaaS for full seamless travel experience.

But rail is the backbone.



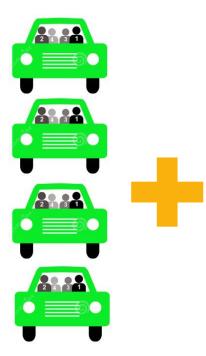
MAAS IN THE IP4 ECOSYSTEM

UITP is involved in some rail research initiatives of Shift2Rail that aims to deliver MaaS through IT technologies with focus on rail.



RIDE2RAIL - VISION











Objectives:

- To encourage carpooling (and ride sharing) as complementary for PT
- To enhance the performance of the overall mobility system, reducing road congestion and environmental impact reinforcing the mobility offer in rural and lowdemand areas

HOMS

- Framework for combined flexible and scheduled transport services
- Multimodal and integrated travel planning, booking, ticketing features including software components and a tool to choose/compare services across a set of criteria
- Recommendations for replicability

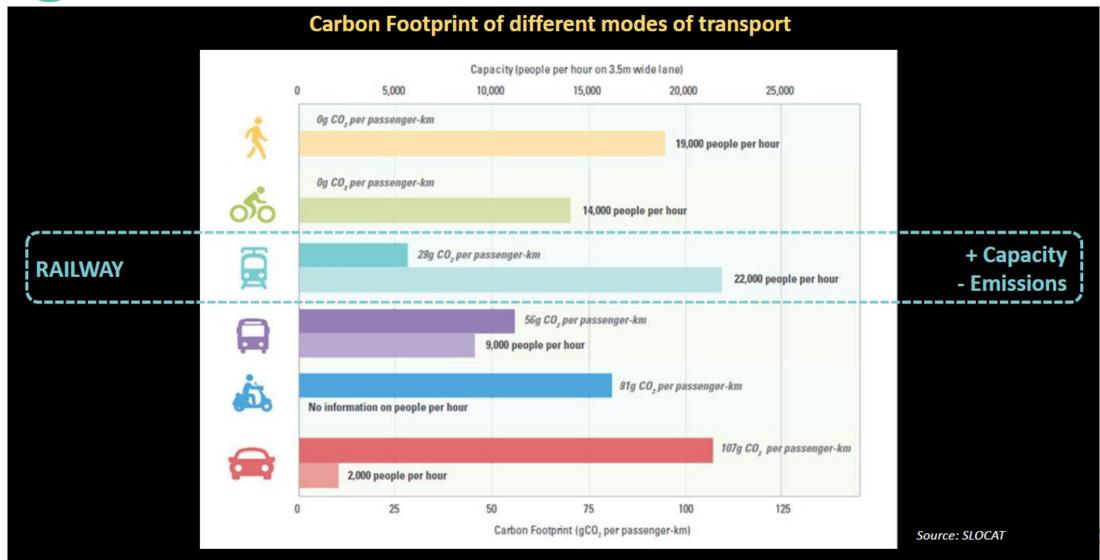
Impact:

- Increase the number of passengers using public transport
- Improve the rail connection with the rural areas
- Minimise environmental pollution while traveling
- Propose additional criteria for informed decision making when planning a trip.

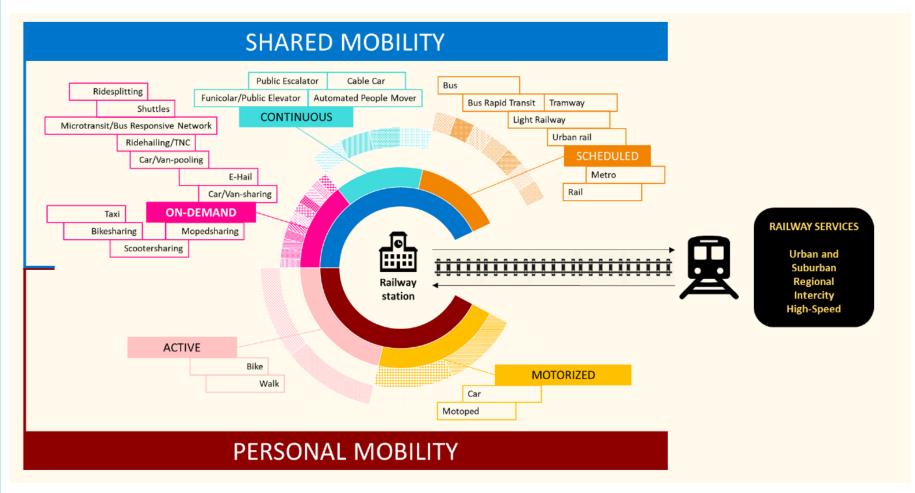


To measure impact, specific target indicators will be monitored

ADVANTAGES OF MAAS



ADVANTAGES OF MAAS



1% sitting in congestion

Typical European car parked 92% of time

Average European car has 5 seats but carries 1.5 people/trip

Source: UIC report of D2D mobility



Conclusions



CONCLUSION

- MaaS will become the future business model in transportation
- MaaS can be a brilliant tool for more sustainable mobility
 - if deployed around mass public transport & active modes
- Different approaches possible
- Move from a city to more global view: between countries, continents, global
- Promote complimentarity of different modes of transport



RECOMMENDATIONS

Setting up successful MaaS solutions

- Start to build the eco-system
- Care about data reciprocity & data protection
- Make use of the data to optimize the urban mobility offer
- Adopt and harmonise quality standards for all mobility providers
- Foster innovation by funding and R&I activities



RECOMMENDATIONS

Build up institutional and policy integration

- Overcome institutional fragmentation with mobility agencies or multimodal transport authorities in charge of all urban mobility services
- Encourage multimodal urban planning for the development of mobility hubs and multimodal "user-centric" infrastructure
- Include MaaS as a catalyst to reach policy goals (SDG)



RECOMMENDATIONS

Create the right framework to promote MaaS

- Stop wrong incentives that support car use and thus hinder sustainable mobility behaviour and MaaS (free parking, company cars, ...)
- Increase measures to limit car use (access restrictions, road pricing, parking restrictions, street reclaiming...)
- Invest in digital solutions that promote integration and openness.







QUESTIONS?



THANK YOU!

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