

Challenges in MaaS —the ERTICO experience

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AND DESCRIPTION ST



















































TRAFFIC AND TRANSPORT INDUSTRY





















VEHICLE MANUFACTURERS













































ERTICO's Vision 2030 for mobility

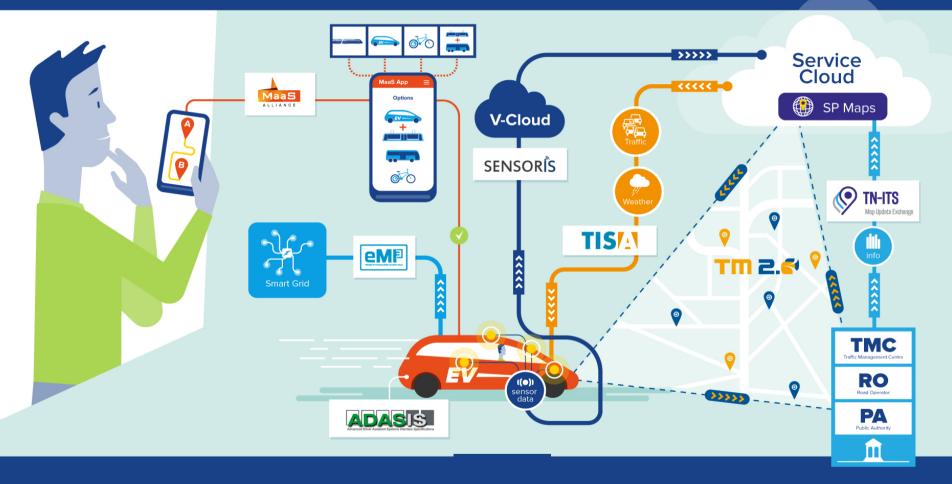
- Shared
- Digital
- Multimodal
- Connected

- Clean
- Safe
- On demand
- User-centric

Integrated



SMART MOBILITY DEPLOYMENT BY ERTICO PARTNERSHIP



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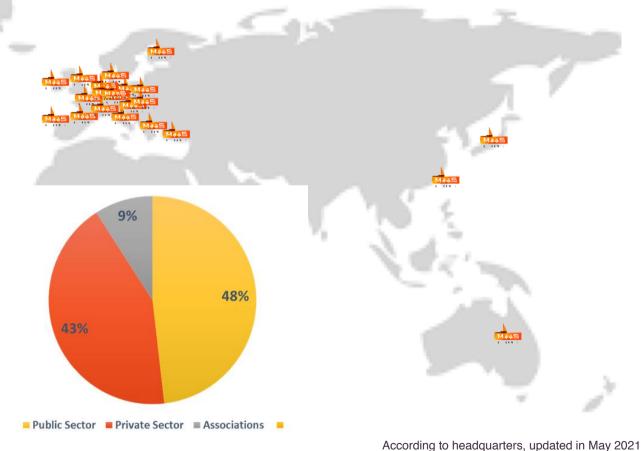


MaaS Alliance – Global network with Members from 26 coun



Bringing together

- Public and private sectors
- Mobility service providers (often local) and tech companies (often global)
- Disruptors and incumbents
- Data providers and data users
- Local and global approaches
- Players with different business models (B2C, B2G2C, B2B ...)



Mobility as a Service (MaaS)

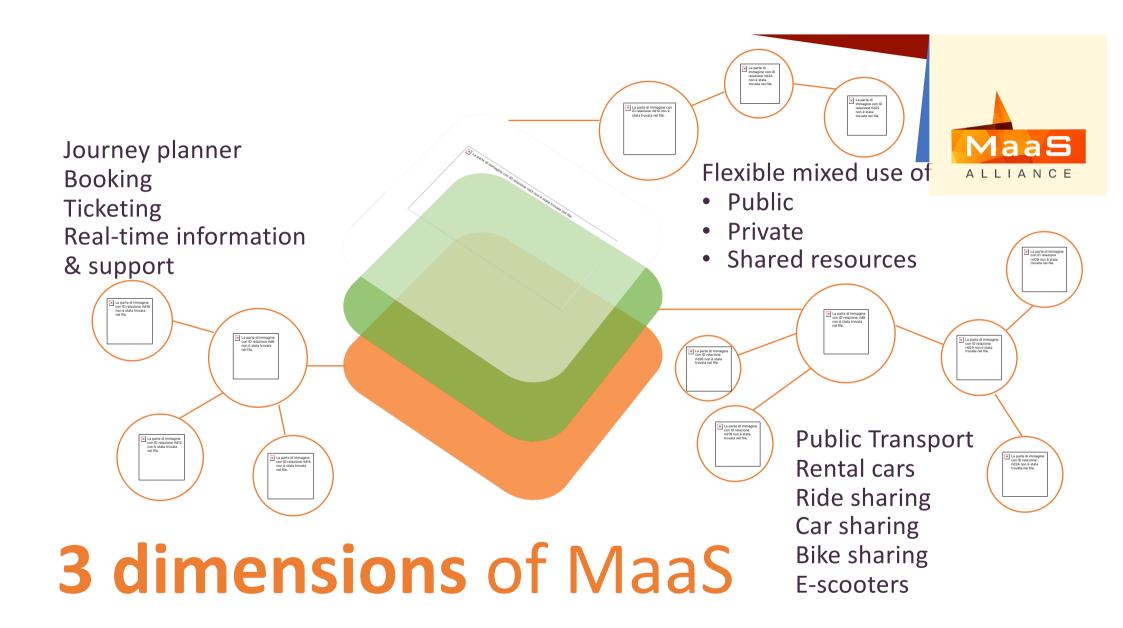
"MaaS is the integration of various forms of transport services into a single mobility service, accessible on demand."



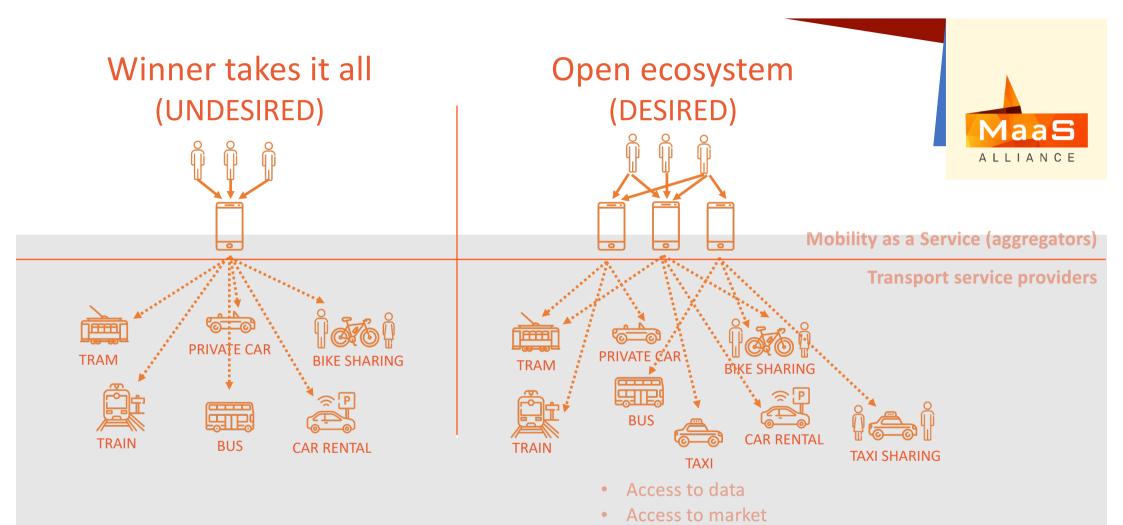
MaaS Alliance White Paper

https://maas-alliance.eu/wp-content/uploads/sites/7/2017/09/MaaS-WhitePaper final 040917-2.pdf

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➤ Challenges in MaaS



Vision: an open MaaS ecosystem

COVID-19 impacts

Emergency measures:

- Services for critical workers
- Safety measures

Changes in behaviour:

- Negative impacts: Public transport, car rental, automotive industry, ride-hailing
- Positive impacts: cycling, micromobility, delivery services

Acceleration of

- Contactless processes public transport and car rentals
- Electomobility (via stimulus packages)

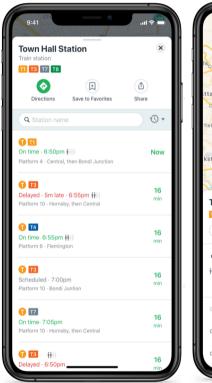
Structural changes:

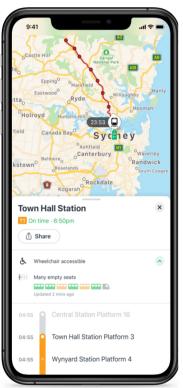
- Reallocation of space in cities
- New "togetherness" (we have to deal with this together, complementarity, MaaS, redefinition of public transportation)

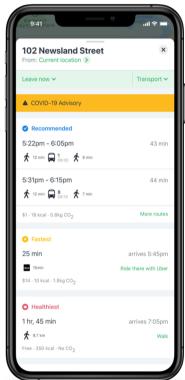
SKEDGO

Integrating occupancy features into MaaS









Current new features: real-time occupancy of carriages, COVID-19 alerts



Future dev: occupancy-based routing of journeys, alongside other priorities





Viavan: Supplementing public transportation with a free on-demand service for essential workers

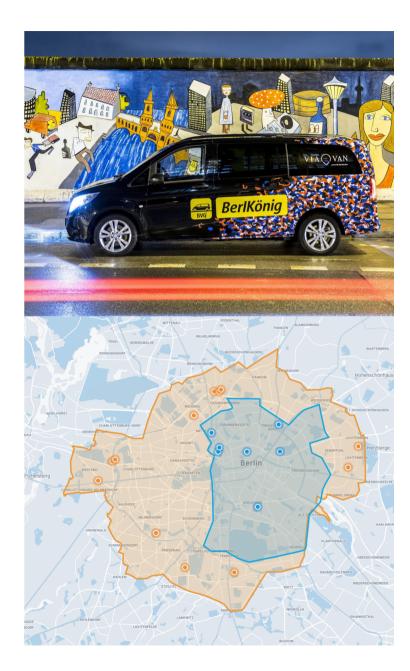


Getting essential workers where they need to go.

CASE STUDY:

BVG, Berlin

- Extending service zone to cover 10+ hospitals.
- Transforming an existing shared, ondemand service into a dynamic service for essential healthcare workers.
- Allowing registration to pre-approved workers only.
- Reducing vehicle capacity to allow for social distancing and public health recommendations.
- · Timeline: 1 week.





MaaS topology (Sochor, Arby, Sarasini, Karlsson, Holmberg)

See also **Sochor, J.**, Arby, H., Karlsson, I.C.M., Sarasini, S. (2017) "A topological approach to Mobility as a Service: A proposed tool for understanding requirements and effects and aiding policy integration". 1st International Conference on Mobility as a Service (Tampere, Finland, November 28-29, 2017).

4	Integration of societal goals Governance & PP-cooperation
3	Integration of service offer Bundling/subscription - responsibility
2	Integration of payment: Single trip - find, book and pay
1	Integration of information: Multimodal travelplaner, price info
0	No integration: Single, separate services

➤ Mobility Network

By encouraging desired modal shift:

- From single-occupancy to shared vehicles / rides
- Better information on active mobility options
- Making multimodal combined trips more predictable, easy and attractive
- Providing better info & access to tourist, to public transport networks, and services

By making transport network operations more efficient:

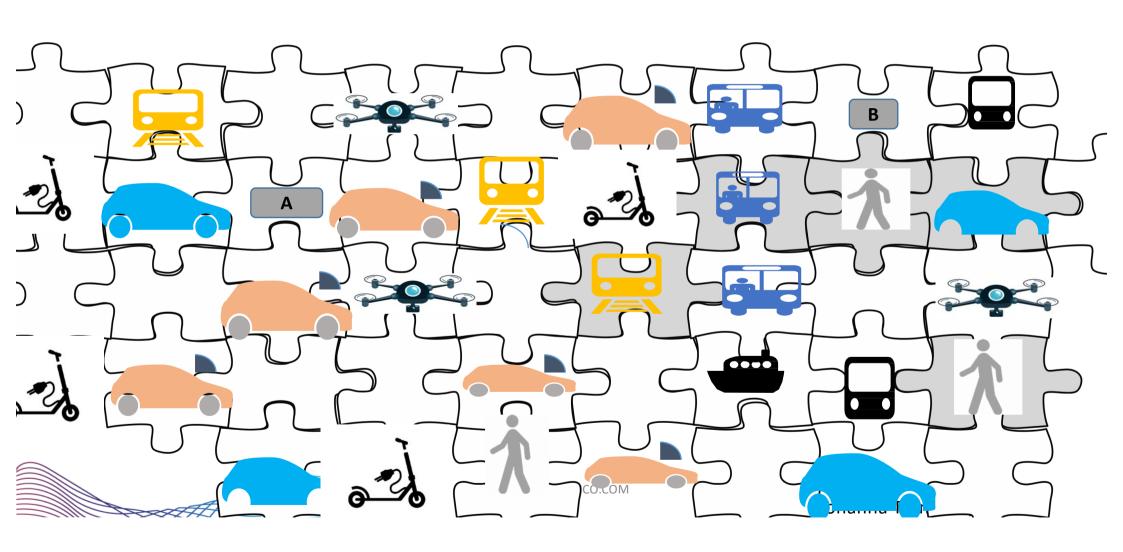


- Less vehicles in urban areas release urban space - less traffic & congestions related to search of the parking space
 - "Fleet effects" (B2B market): Easier to implement measures through agreement with fleet operators
 - Data gathered by MaaS app used for predictive traffic management services and network and capacity management

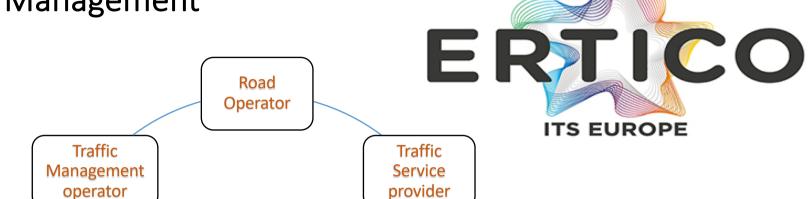


Mechanisms on how MaaS can change the world

Multimodal Mobility & Common Operational Picture



Interactive Traffic Management



Principles:

Collaboration & Trust

Co-opetition



Loop of information in TM value-chain

credits: Johanna Tzanidaki, ERTICO

Mobility Network Management



Principles:

Collaboration & Trust

Co-opetition



Loop of information in mobility value-chain



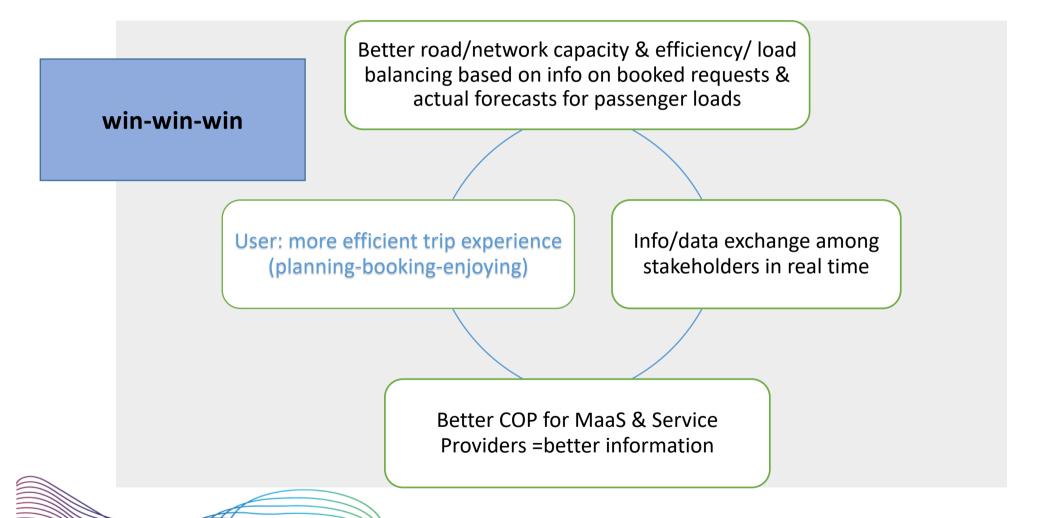






credits: Johanna Tzanidaki, ERTICO

Multimodal Mobility Management / Mobility Network Management





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