Enabling Mobility as a Service

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The world changes rapidly

– How does the transport system respond?





Today there are more than one billion cars on the road. That number will double by 2030. And quadruple by 2050. We are heading to The Global Traffic Jam.





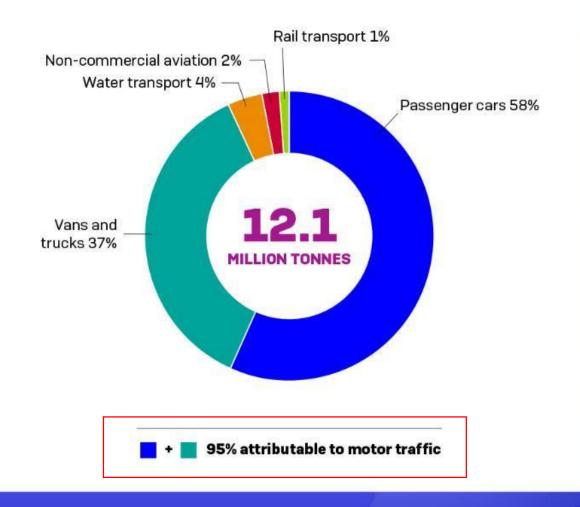
Year 2014 was the warmest year since recordkeeping began in 1880. So has been every year after that.



Annually there are about 1 300 000 road traffic deaths globally. That equals with 6 Jumbojet crashes, daily.

Traffic-related emissions to be halved by 2030

Greenhouse gas emissions from domestic transport in 2016



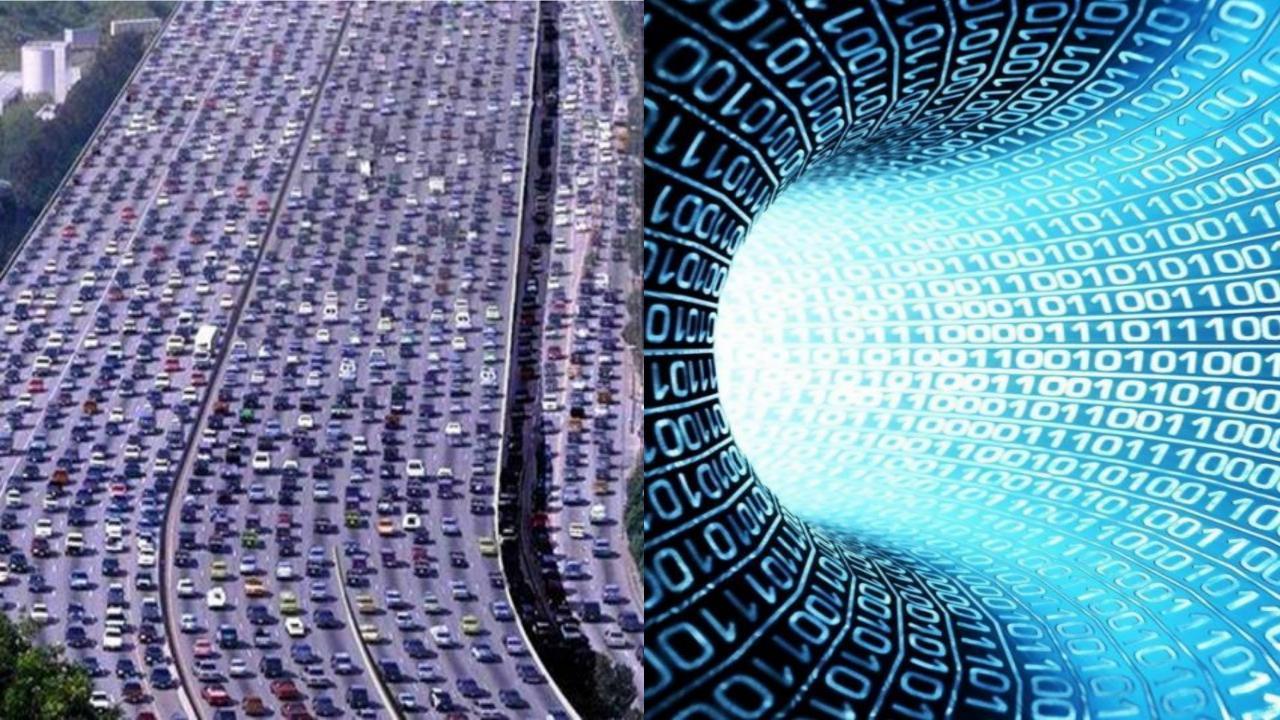
Global Mobility Market is Huge

Global MaaS Market 1.000 Bn€ by 2030 (ABI Research 2016)

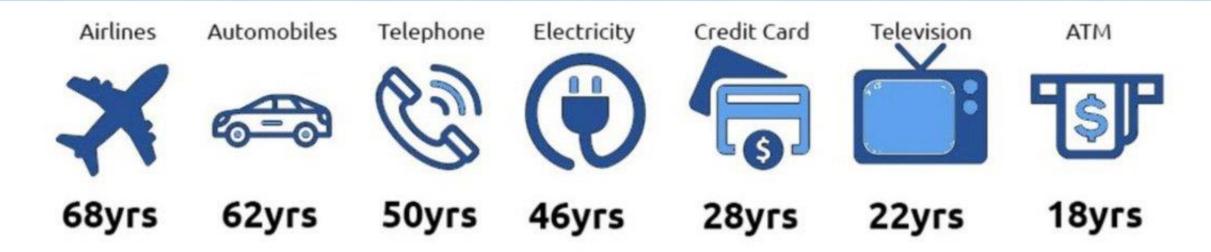
Global
Mobility
Market
≈ 6.500 Bn€
(McKinsey 2013)

Global
Transport Infra
1.000 Bn€
(McKinsey 2013)





NUMBER OF YEARS IT TOOK FOR EACH PRODUCT TO GAIN 50 MILLION USERS:





Mobility system 2.0

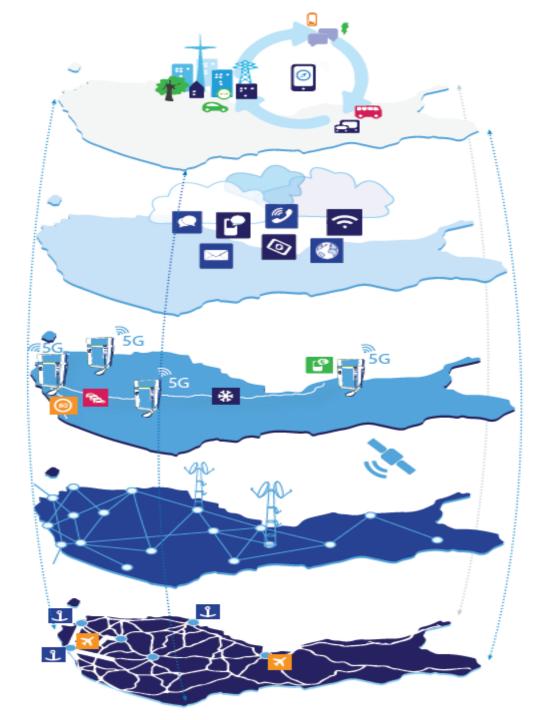


REGULATION

AND

GOVERNANCE

ENABLING



Mobility as a service

Mobility-as-a-service operators (big & small), Multiple customized services All Transport modes with single User Interface, Internet of traffic.

Integrated online services and interfaces

Online services platform: Open Data, Interfaces and APIs, Cloud Services, Internet of Things

Intelligent traffic infrastructure

Traffic management systems
Digital ticketing, routing services
Seamless connectivity

Telecommunications and information infrastructure

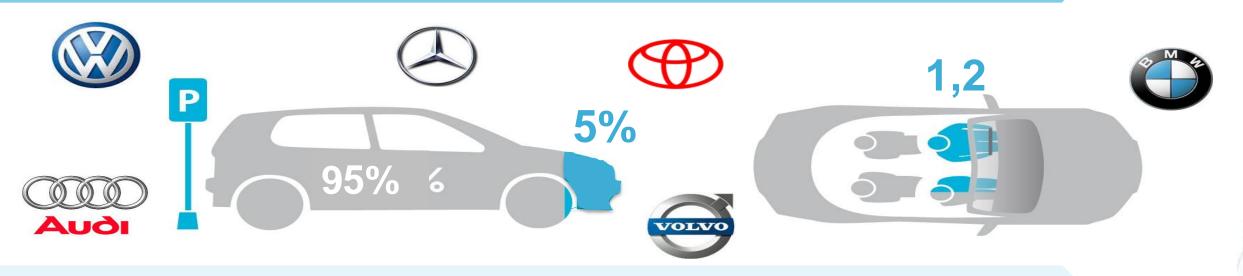
Mobile data networks 4G/5G Static networks enabling international interoperability, broadband for all

Core infrastructure

Roads, rails, airports and ports. Growth Corridors



A shift from ownership...



...to usership (access)



MOBILITY AS A SERVICE FRAMEWORK



MY MOBILITY SERVICES

SERVICE PLATFROM

TRANSPORTATION

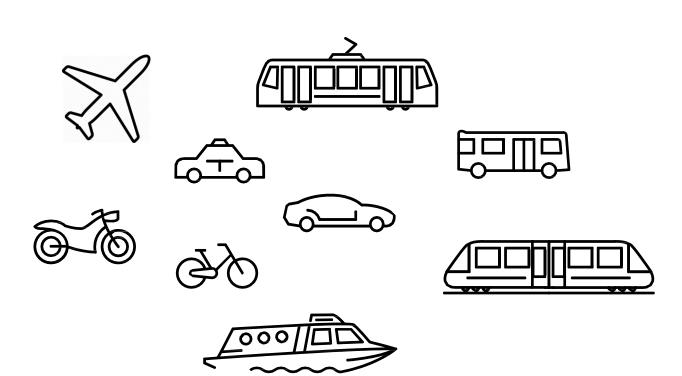
FLEET

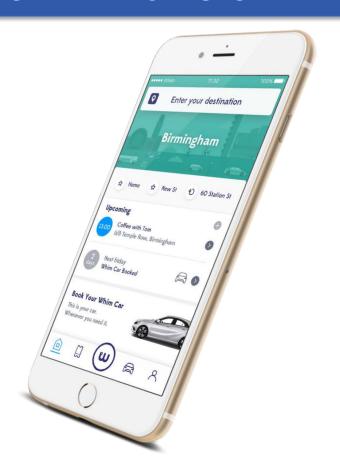
INFRASTRUCTURE

Mobility as a Service – The Netflix of Transportation

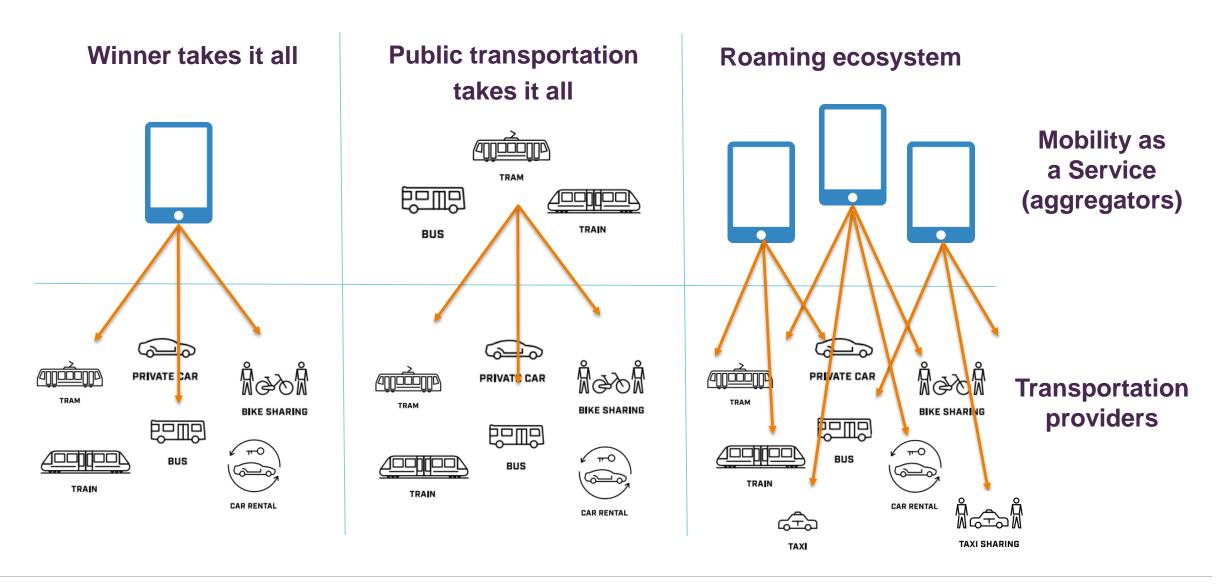
WHAT IF ALL TRANSPORTATION WAS CONVERGED...

... AND TAILORED TO YOUR NEED AS MONTHLY PACKAGES?





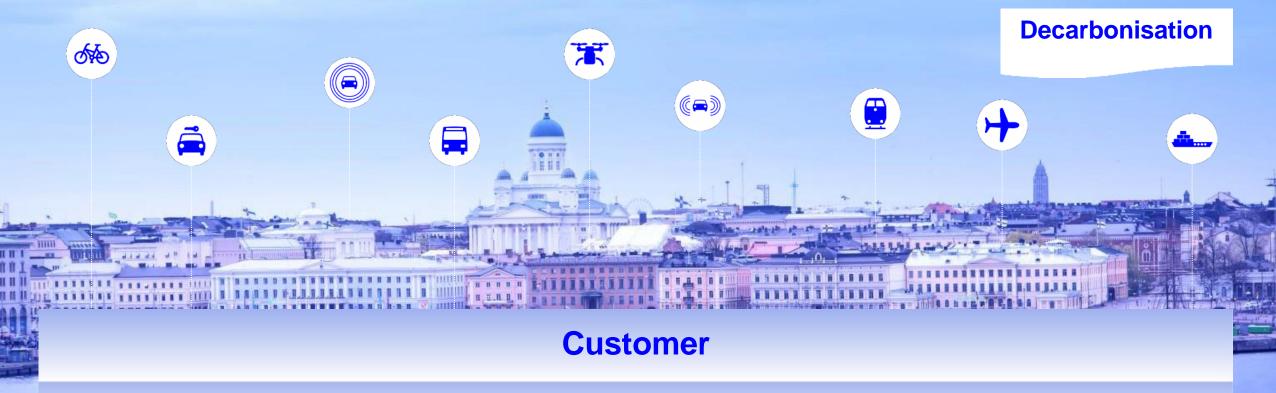
Three ways for markets to evolve



17



Basic principles on enabling MaaS



Easier market access & more room for innovation

Holistic approach: No more silos

Technology neutral rules

Enabling digitalisation

to a wider context

Leaving room for competition

Act on Transport Services

Better and more agile services

SERVICES

MaaS operators, apps, platforms, etc.

Data utilisation and regulation

DATA

Enabling digital services: APIs, open data, MyData

Deregulation, market access, competition























Transport and communications networks

Easy Travel Chains

Essential data on mobility services (APIs)

 All transport modes and services

Anonymous single tickets (interoperability of ticket and payment systems)

 Road and rail transport services

Phase I



Data concerning the use of transport services

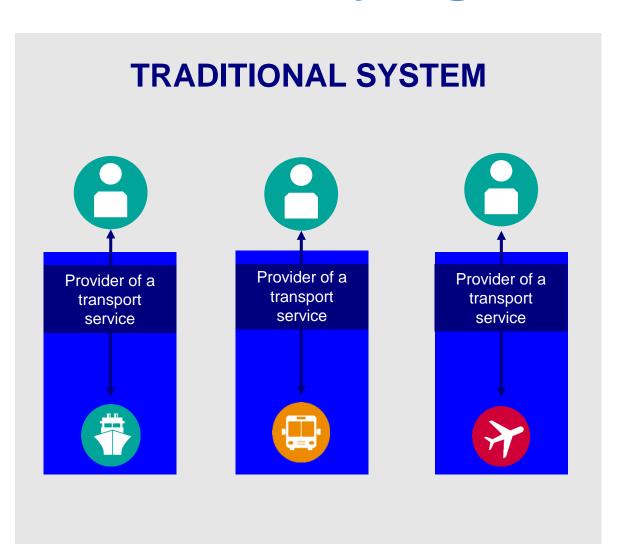
- Open interface of the Finnish Transport agency (anonymous and non-anonymous)
- Open data

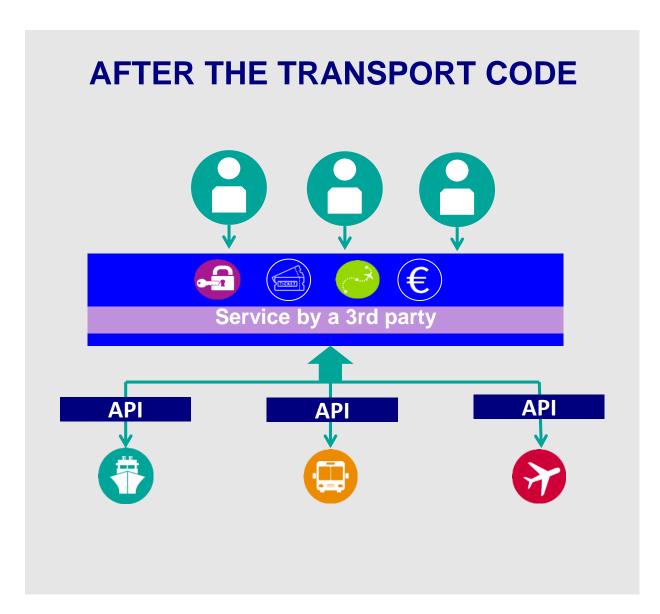
Personal tickets (if there is an account in a digital service)

- Seasonal tickets
- Student and senior discounts etc.
- All transport modes
- All transport services

Phase II

Buying transport services





What has changed?

- New market entrants domestic and international
- Ongoing trials and pilots: automation trials, open testing ecosystems, pilots for new services etc.
- New services being developed both in cities and in the countryside
- Investments in the Finnish startups
- People using services tend to use more public transit









What next?

- Integrating public transit and MaaS
- Development of value chains and business models
- Ecosystem vs. egosystem
- EU and international regulation
 - APIs, data, automation, liability
- Cybersecurity
- User behaviour

FINLAND, ready for a Moonshot

- # 1 Innovative Country in the World
- # 1 Good country index
- # 1 Educated Nation in the World
- # 1 Digital Country in Europe
- #1 Trust Society in the World
- # 2 Start-up ecosystem in the World
- # 1 Best Governed Country in the World
- #1 Sustainable Country in the World
- # 1 Stable Country in the World
- # 1 Happiest country in the world
- # 1 Best digital public services in the EU
- # 1 Digital knowledge capital in Europe
- # 1 Usage of mobile data per subscription





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