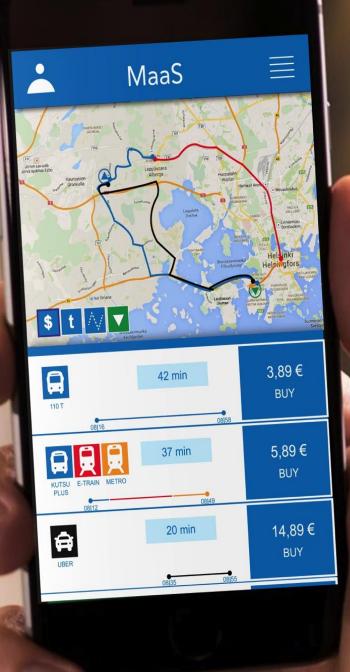
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# Mobility as a Service Can it be even better than owning a car?

SAMPO HIETANEN CEO MaaS Ltd SAMI SAHALA

Forum Virium Helsinki



### WHAT IF ALL TRANSPORTATION WAS CONVERGED...

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



#### CONFIGURE YOUR PACKAGE

HRT

UBER

Unlimited	
Unlimited	

 $\equiv$ 

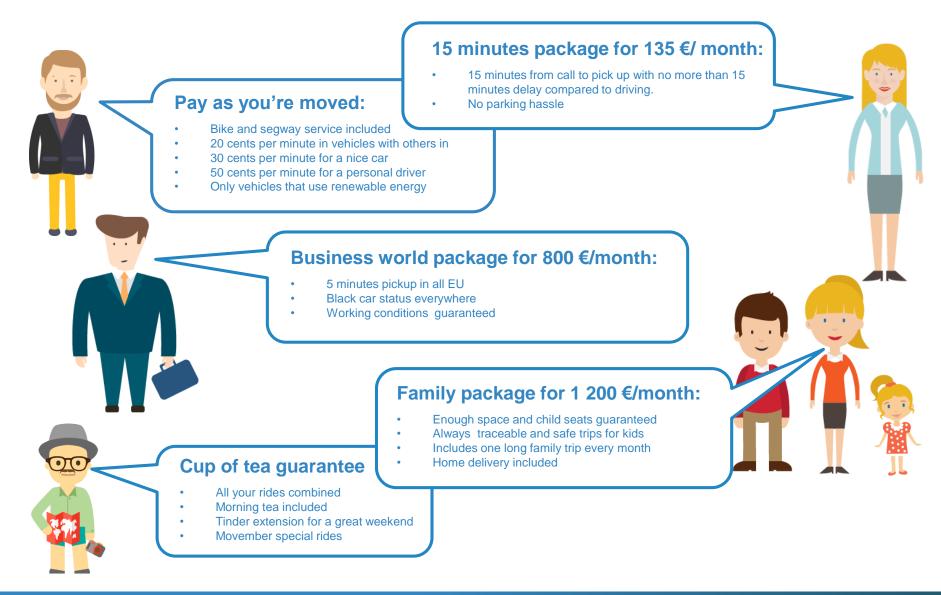
Global	V
120 km	

Intercity	
6 Journeys	

COST (per month)

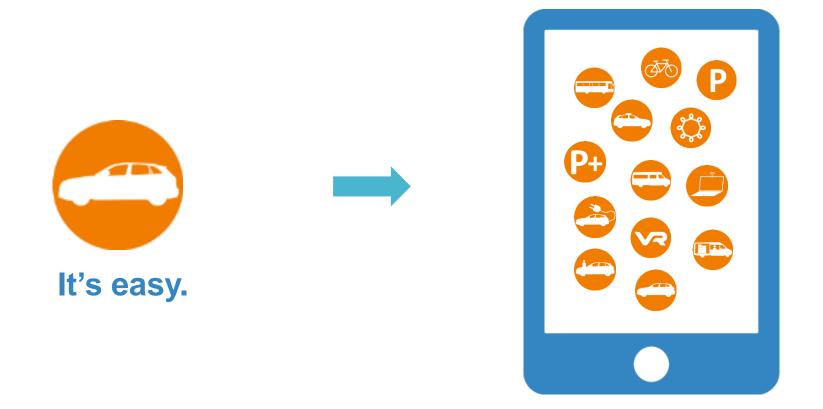
358 € BUY

### Mobility as a Service is the Netflix of transportation



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### It's all about Service Level Agreement (SLA)



### We make it easier.



As a customer you make a contract with one commercial operator, who provides you all the services chosen by you. Terms of contract may vary, and are up to you and your operator to negotiate

# Mobility as a Service

Introducing a new player: "Mobility operator"

ITS & Smart Mobility, Helsinki/FVH, sami.sahala@forumvirium.fi

Video courtesy of Ministry of Transport

hemmät lähdöt.

# From 2006 fast forward to June 2014





### And within just a couple of months:

TOWARDS INTELLIGENT MOBILITY Better use of space

	<b>BUSINESS INSIDER</b>	Tech	Finance	Politics	Strategy	Life	Entertainmer	nt All					j).	۹
	STRATEGY								More:	Features	Cities	Urban Planning	Photo	~
в	The 18 Most Inn	ovativ	/e Citie	s On E	arth									
	F FACEBOOK IN LINK	EDIN	y TWITTER	8+	GOOGLE+	₽	PRINT						«	*

Helsinki makes the list for a super innovative transit system — one that will soon have "a real -time marketplace for customers to choose among transport providers and piece together the fastest or cheapest way of getting where they need to go."



## Helsinki ranked #3 in innovation by citie.org

CITIE

FRAMEWORK DIAGNOSTIC TOOL

STRATEGIST

CONNECTOR

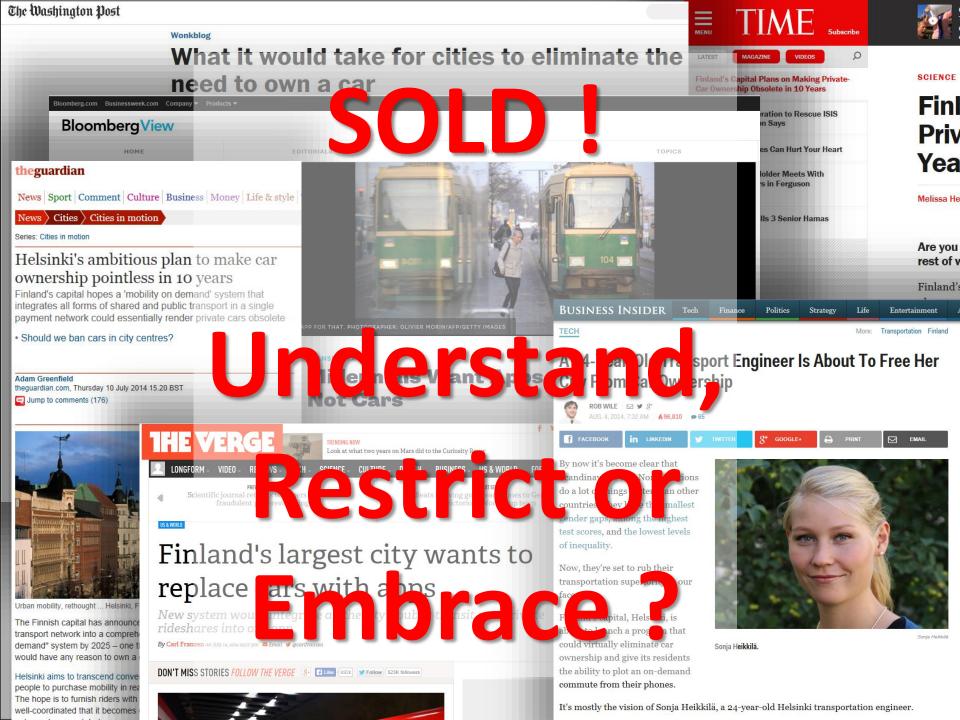
STORIES

2015 RESULTS CONNECT ABOUT

### TOP 5 PERFORMING CITIES

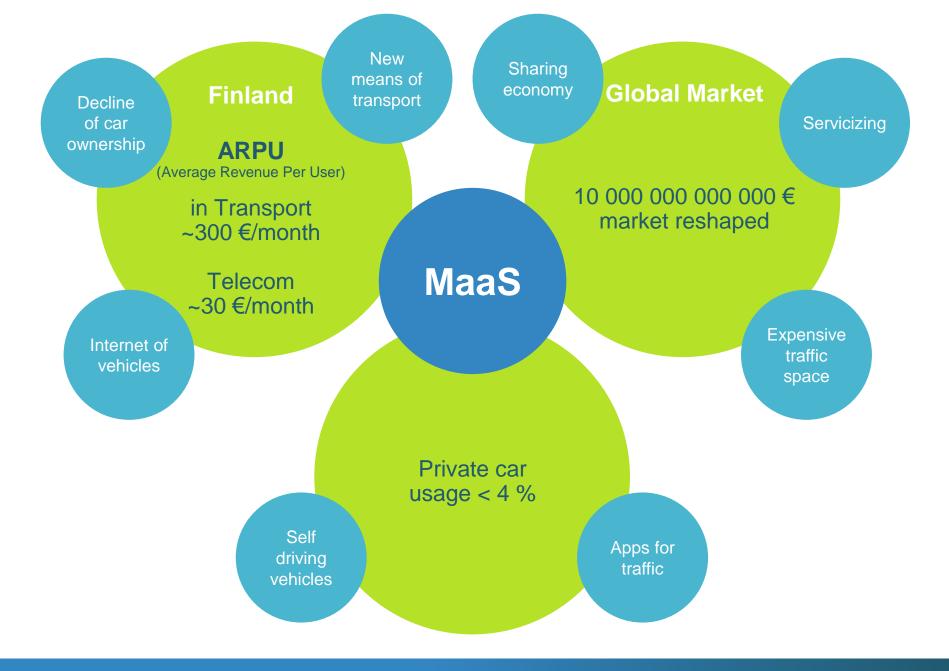
3. HELSINKI 4. BARCELONA

"Helsinki's vision of mobility on demand, a fully integrated public and private transport 'one click' solution, carries the scale of ambition you would more typically expect from a tech start-up and is defining mobility as a service agenda globally"



# TRANSPORTATION IS CHANGING TO CONSUMER BUSINESS





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# **Helsinki** MaaS

# City's perspective



Helsingin kaupunki Kaupunginkanslia

## **OECD's International Transport Forum**

Urban Mobility: System Upgrade

What we found

	Scenario - 24 hours	Fleet size
	Baseline (% of Daseline fleet)	203,000
TaxiBot	No high capacity public transport pominatorial(salway, 557, 157)	25,917 12,8%
Ride-sharing	High capacity transport powersconed, setway, son, con	21,120 10,4%
AutoVot	No high capacity public transport permitted with subway, 667, 667)	46,249 2 2,8%
Car-sharing	High capacity transport pominacor ref, salway, 657, 457)	04,082 16,8%

Public transport

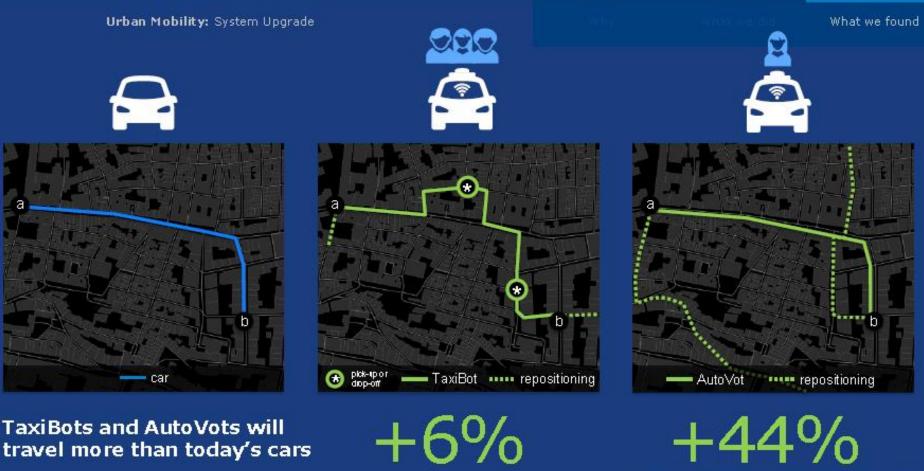
(high capacity)

number of vehicles required to provide the same trips as before:  $10^{\circ}/_{\circ}$ 



TaxiBots

# **OECD's International Transport Forum**



more kilometres travelled due to transfers from buses, pick-ups, drop-offs and repositioning more kilometres travelled due to transfers from buses and re-positioning

# Decrease need to own a car

by ensuring plethora of alternatives

# and making it as easy as possible to use them





Helsingin kaupunki Kaupunginkanslia

9.3.2016

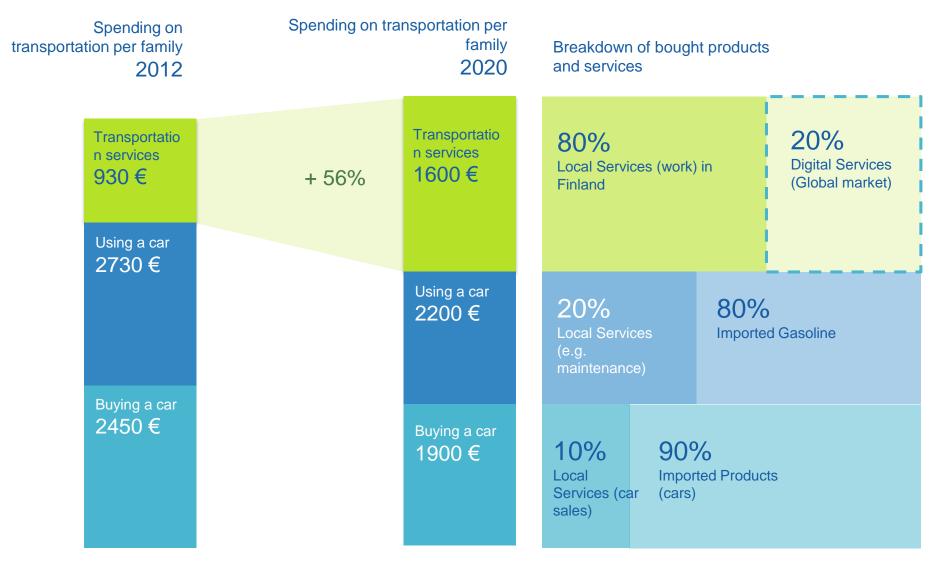
#### **MOBILITY AS A SERVICE FRAMEWORK**



# MaaS as a business



## Market opportunity: Savings in car expenditure





# Transport systems will become consumer business



User

#### SERVICE PROVIDERS (INTERNATIONAL BRANDS)

- Combinations for target groups
- Different packages for targeted groups
- Clearing for transportation, networks and services

### Mobility as a Service, MaaS

THE FOCUS IS HERE

#### TRANSPORTATION PROVIDERS (INTERNATIONAL BRANDS)

• Vehicles, public transport, rentals, parking, taxis, ride shares, car shares etc.

Transport as a Service, TaaS

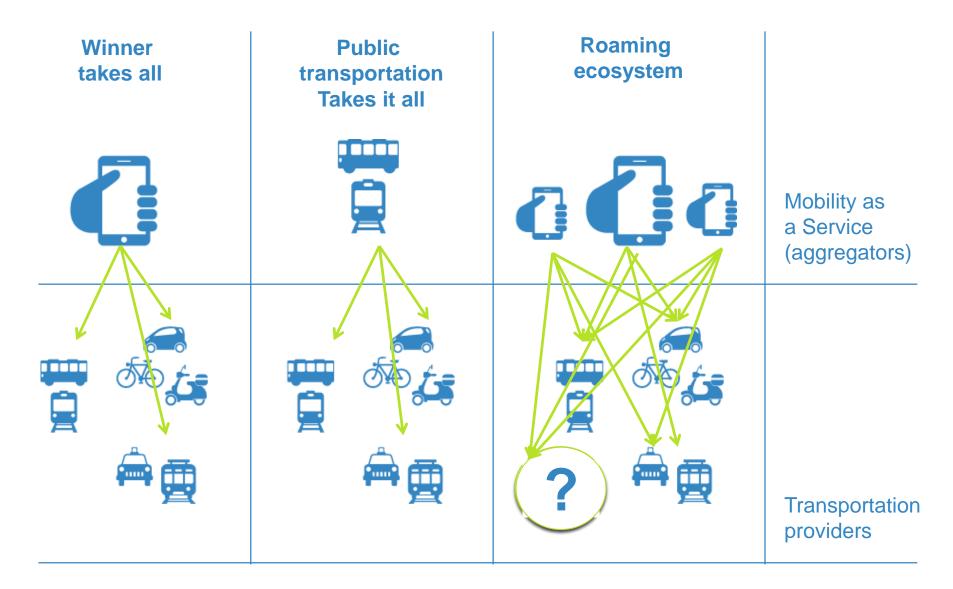
#### **NETWORK PROVIDERS**

• Planning, investments, maintenance

Infrastructure as a Service, IaaS

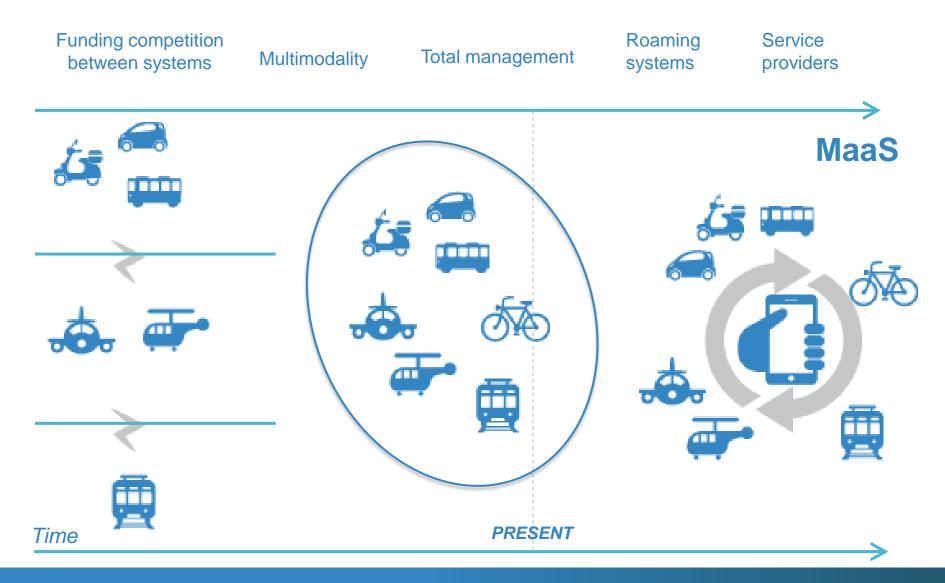
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### Three ways for markets to evolve



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## From silos to roaming





#### The European Mobility as a Service Alliance

Working to create a seamless, demand-based travel experience Launched at the 2015 ITS World Congress in Bordeaux

#### Press Release

### The European Mobility-as-a-Service Alliance has been launched

20 European organisations join forces to establish the first Mobility as a Service (MaaS) Alliance. This new initiative will work towards a truly European and common approach to MaaS through public and private stakeholder cooperation, providing the basis for the economy of scale needed for a successful implementation in Europe.

The key concept behind MaaS is to put the users, both travelers and goods, at the core of transport services, offering them tailor made mobility solutions based on their individual needs. This means that, for the first time, easy access to the most appropriate transport mode or service will be included in a bundle of flexible travel service options for end users.

The MaaS Alliance builds upon the momentum and drive achieved during the last European La Congress in 114 hosted by Helsinki, where MaaS received political support from the Finnish government. "MaaS is a new approaches and anging motions markets. It relies on existing and developing transport services and has huge chance for global scaling", says the father of the concept San to Hertaner, TEO of ITS Finland.

According to Rasmus Lindholm, ERTICO's Director of Communications and Part as h. Duelo, went: "MaaS have been potential to fundamentally change the behavior of people in and beyond cities, he want is regarded as the segment of a structure ign change in transport since affordable cars came into the market".

Founding Partners of the Mobility as a Service An undefinded Aanorg University, CastriaTech, Ericsson, ERTICO – ITS Europe, Federation International de l'Automobile (FIA) Region I, March of Transport and Communications, Helsinki Business Hub, IRU, Connekt, ITS Finland, ITS Sweden, ITS Ukraine, MOBINET, National Cobile Payment Plc. (Hungary), Swedish Ministry of Enterprise and Innovation, Finnish Funding Agency for Innovation (Tekes), Transport for London, Vinnovation aversity of Tampere and Xerox.

"Bundling services to simplify access to mobility is a key step to ensure the best use of all modes of transport. FIA Region I call upon the transport community to develop and combine these services based on the public's concrete needs. In the FIA, we believe mobility must be safe, sustainable, accessible and affordable for all", says Jacob Bangsgaard Director General FIA Region I.

# MaaS Ltd to revolutionize the global transportation market.

# And will be the World's first mobility operator.



# Introducing the world's first mobility operator

We want to:

- Give you back **90 minutes** to your day
- Make sure you have **freedom of movement**
- Take away the pain of 'how do I get there'
- Make sure you're not a polluter

"Helsinki's vision of mobility on demand, a fully integrated public and private transport 'one click' solution, carries the scale of ambition you would typically expect from a tech start-up and is defining mobility as a service agenda globally"



### User profile – segment sizes in Helsinki Region

### THE TOURIST

	Daily	Yearly
Max Users	1000 - 4000	15m + (trips)
ARPU	10-20€	20-40€

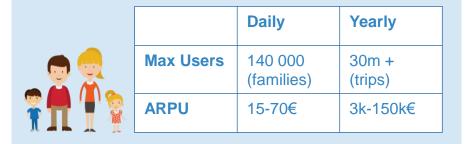
### THE URBAN SINGLE

	Daily	Yearly		
Max Users	50 000	11m (trips)		
ARPU	5-50€	500-100k€		

### THE LONG DISTANCE COMMUTER

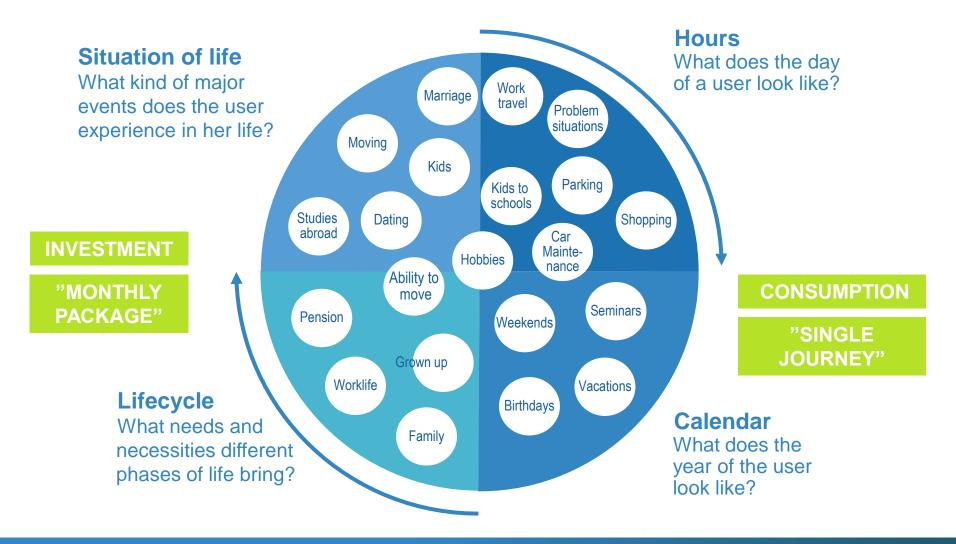
### THE SUBURBAN FAMILY

	Daily	Yearly
Max Users	85 000	13m (trips)
ARPU	10-60e	1k-120k€



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# View to mobility and user experience in designing the future services



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### **Initial service descriptions** THREE TYPES OF PRODUCTS FOR CUSTOMERS

#### SINGLE JOURNEY CUSTOMERS

- Customer buys door-to-door transport with zero commitment
- Mobility app to combine all transport services the fastest way to destination
- Customers receive journey through single window and payment
- Bonus program rewarding frequent use
- Reporting and separate accounts for private and company use
- Ease of use also in trips that are not ordered Just start your journey with your account that is connected to credit card

#### **HYBRID CUSTOMERS**

- Customers include their own car in the service
- Customers buy bonus packages to assist their transport needs
- Car may be bought and financed through operator or separately
- Packages can also be paid by sharing rides or car

#### **MOBILITY PACKAGE CUSTOMERS**

- Operator takes care of all transport needs as a service
- Packages contain enough of different transport services, enough journeys, kilometers or all inclusive
- Simple pricing scheme for journeys exceeding the package
- Packages contain bonus features like morning latte or Tesla weekend and are more affordable than when bought separately

LEASED CAR

CAR SHARING

PUBLIC TRAFFIC

0

80



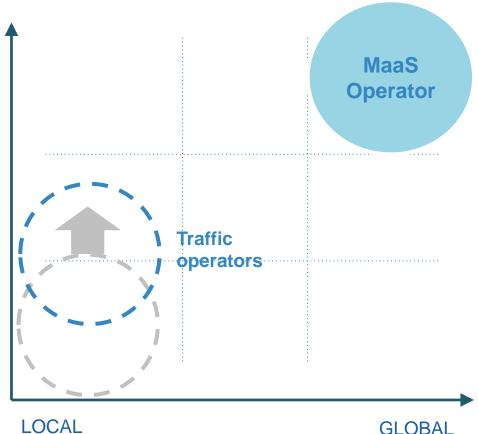


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# The operator business model strives for scalable digital global business

HIGH PROFIT Best partner for traffic operators: MaaS operator creates a quantum leap in efficiency therefore increasing the profitability of traffic operators

> LOW PROFIT



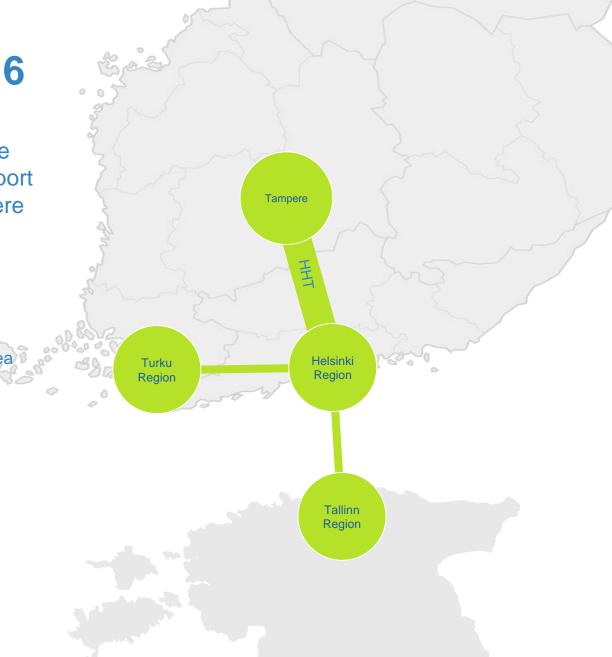


## First phase 2016

The intended test area for the MVP includes four key transport areas Helsinki, Turku, Tampere and Tallinn:

- HHT Growth Corridor
- Helsinki Region
  (HSL Traffic area)
- Turku and Turku region traffic area
  (9 municipalities)
- Tampere
- Tallinn

### Looking for 2 other areas



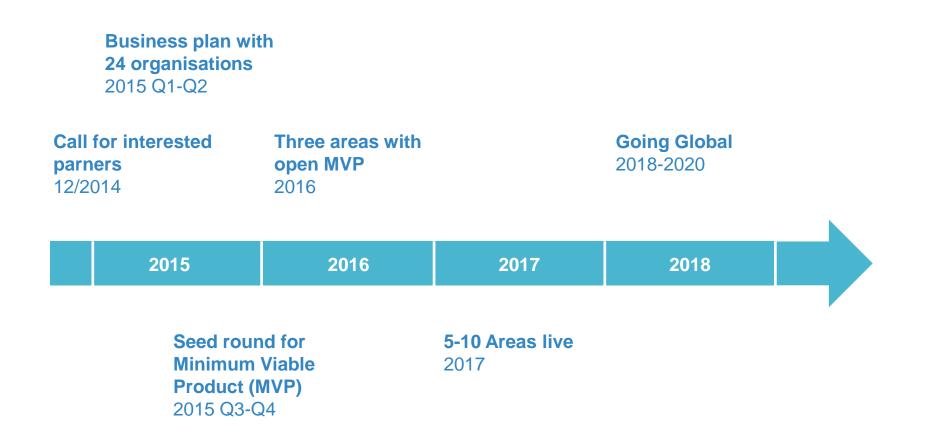


# It scales because the components are already there -- and growing





### MaaS Ltd. Plan for going global







# **Helsinki** MaaS

# City's enabling actions





Helsingin kaupunki Kaupunginkanslia

# **Our train of thought**

### New mindset

- What is MaaS ? Public transport ? Private business similar to travel agency ? Or a taxi central ?
- We don't need to own and control everything !
- Focus on results, what in the end actually needs to happen ?
- What kind of roadmap could lead there ?
- What can city do to make that happen OR help that happen

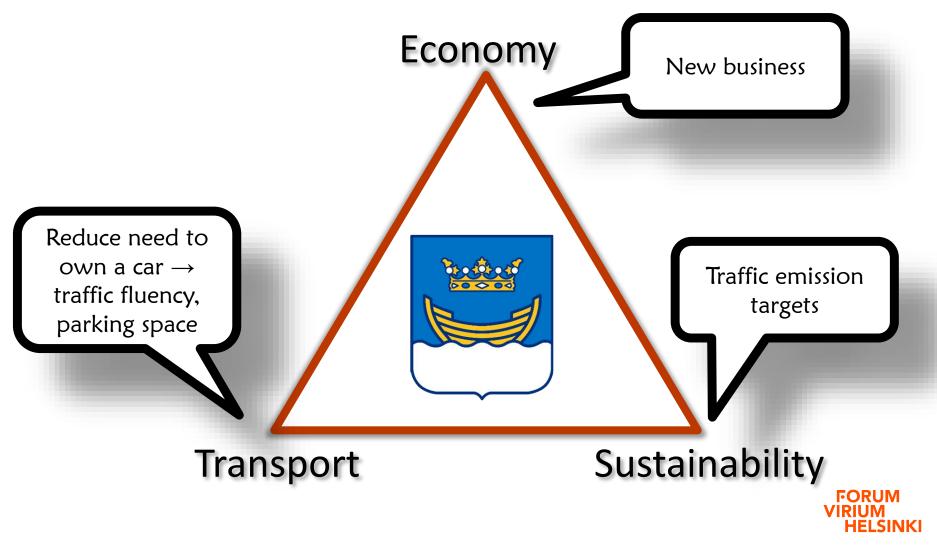
### → City as an enabler !



# **City as an enabler**

- What does MaaS need to succeed and grow ?
  - Proofing the concept
  - Paying customers, a market
  - Reference cases
- Our options
  - Spend money, fund operators NOT
  - Spend money, buy MaaS service MAYBE
    - Current city provisioned transport via MaaS operators ?
    - Show an example by own personnel switching to MaaS?
  - Focus on providing best possible environment for the business
    YES

# For a city: intriguing opportunity and an organisatory challenge



# Ingredients for successful MaaS

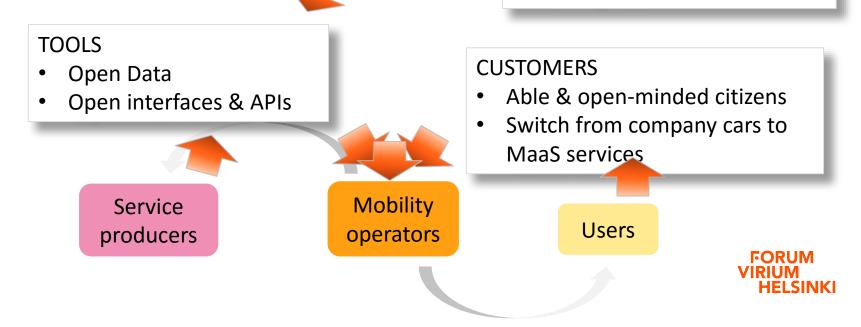
### FRAMEWORK

- Deregulation
- Legislation (eg planned finnish trial)
- Strategies, targets eg transport policy, climate
- Support for business development, investment



### ENABLING CULTURE

- Fresh mindset, dare to try
- Embrace digitalization
- Innovative procurement
- Subsidies rethought
- Mobility management: Incentives for choosing alternative mode of transport



# **Any lessons learned ?**

- Be more flexible, maintain pace
- Wide cooperation across public sector
- Involve stakeholders outside your own peer
- Organisations not able to grasp new things that fall outside /between departments' comfort zones
- Traffic planning vs Smart Mobility = focus on infrastructure vs focus on the function



### Helsinki MaaS Action plan \*DRAFT\*

Coordination

Manage city's actions, cooperation, R&D and communication of all MaaS activities

#### Legislation, regulation

 Ensure that legislation, city's own regulation, transport purchase and other administrative mechanisms develop to benefit MaaS operator business

#### City as a platform

- Support development of open interfaces and global interoperability
- Ensure necessary infrastructure for MaaS operation is in place

#### Business support

 KPI: new mobility related business and international investment to Helsinki region

#### Users

• Collect feedback and needs from users, support piloting of new innovative mobility services and facilitate the actions directed to MaaS users, eg campaigns

ORUM



# Currently, transport services are provided and subsidized separately

Purchase of transportation (incl. socially necessary transportation), public subsidization of PT

Public transport planning authorities and other transport service producers

Infrastructure

Fleet

City of Helsinki Media Bank / Juho Virolainen

Data



### In MaaS, all transport services are provided and subsidized jointly through mobility operators

Purchase of transportation (incl. socially **Mobility USER** necessary operators transportation), subsidization of PT Public transport planning authorities and other transport service producers Infrastructure Fleet Data

City of Helsinki Media Bank / Juho Virolainen

### Why Cities and MaaS?

### Transport policy goals achieved

- Without public spending
- Without banning cars
- New tools for managing transport
  - Incentives
  - Game rules
  - Customer rights
- But it won't happen without strong policy leadership

#### What is needed

- Roaming of transport (operators accessing all transport modes)
- Game rules (Market description, Data transfer and ownership, customer rights etc)
- Possible incentives to end users to kick-start markets and to cover low-density areas
- Mindhift from provider to enabler

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### FORUM VIRIUM HELSINKI

1 PT 1 PLACE SITE

# **SEE MAAS LIVE IN 2016**

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<u>sami.sahala@forumvirium.</u>

And a second sec

# **Seed investors and funding**

- Over 2,2 M€ in funding for Minimum viable product
- Finnish Funding Agency for Technology and Innovation Tekes
- Transdev, a French transportation giant offering land, rail and passenger transport services
- Karsan Otomotiv Sanayii and Ticaret AS, a leading car-industry family of Turkey
- Sampo Hietanen CEO and founder
- Kaj Pyyhtiä CXO and co-founder
- InMob Holdings
- Korsisaari
- Neocard
- GoSwift
- MaaS Australia
- Goodsign
- IQ Payments
- Delta Capital Force.

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