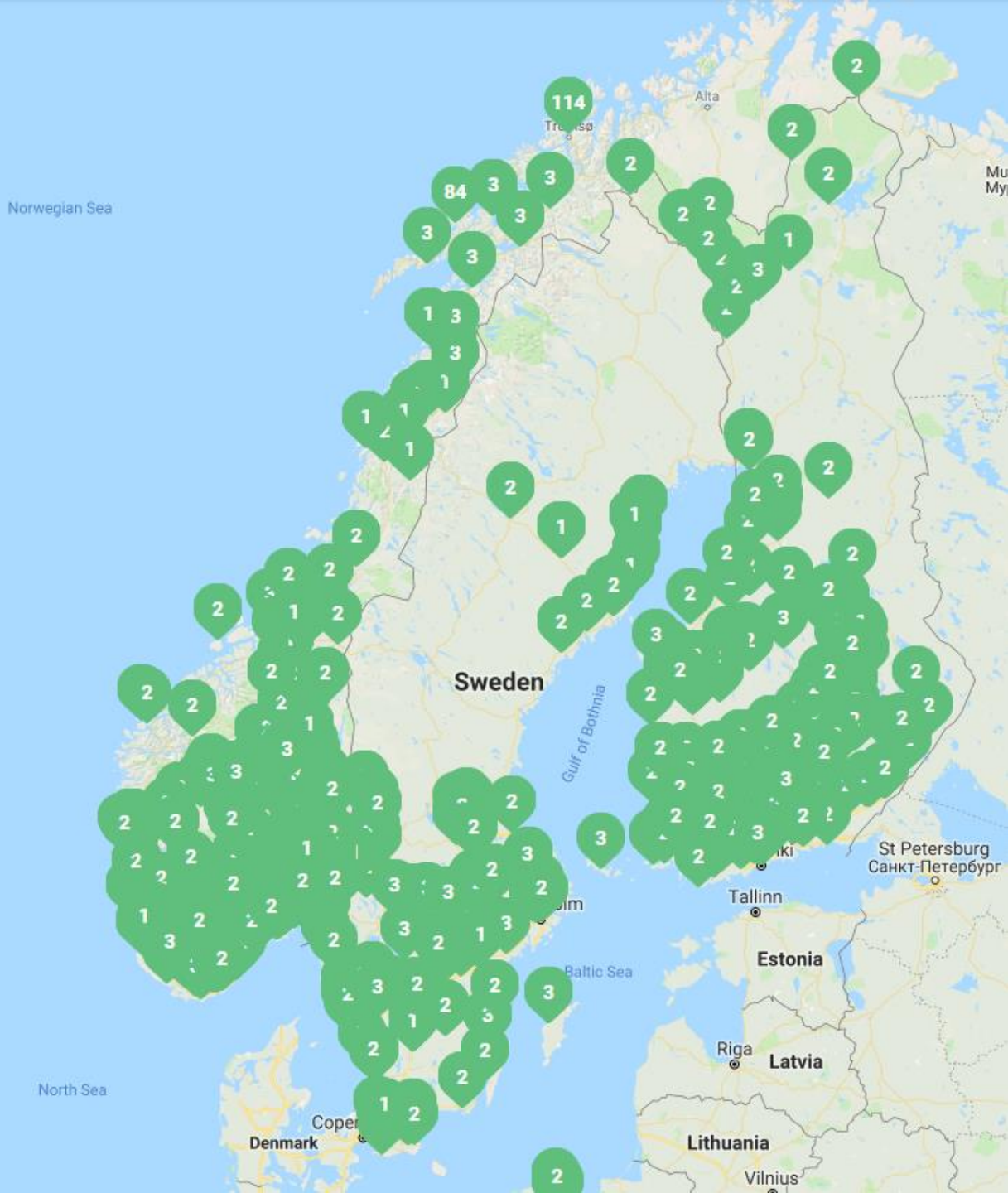




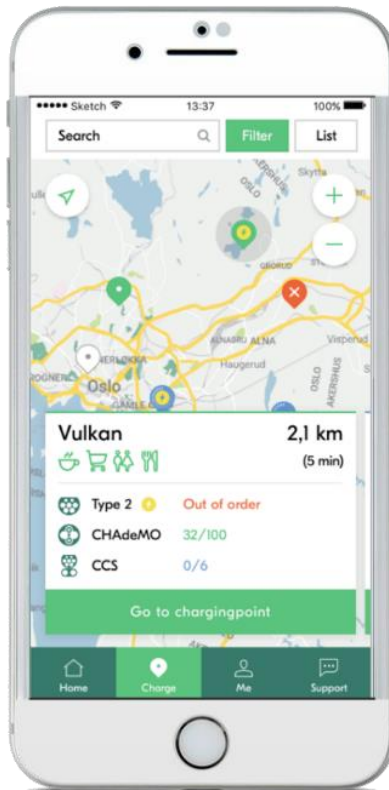
Electric vehicle charging in promotion of electromobility

Riitta Ståhl
Fortum Innovation & Venturing
Aalto Energy Breakfast: Electromobility Ecosystems, 24 Oct 2019



Fortum Charge & Drive

- Serving over 100 000 registered users
- Over 2400 chargers of which 800 rapid chargers and 3 high power chargers
- Market leader in Finland and Norway, the frontrunner in the global EV market
- Cloud service for operating charging networks, 16 countries
- Started operations in India



65 000
Charging points
125 000
Users
38
Countries



Sustainable mobility ecosystem for a cleaner world

Why?

What?



How?



Electric



Connected



Autonomous



Shared



Alternative fuels

Innovation & Venturing for a cleaner world



Build
new businesses



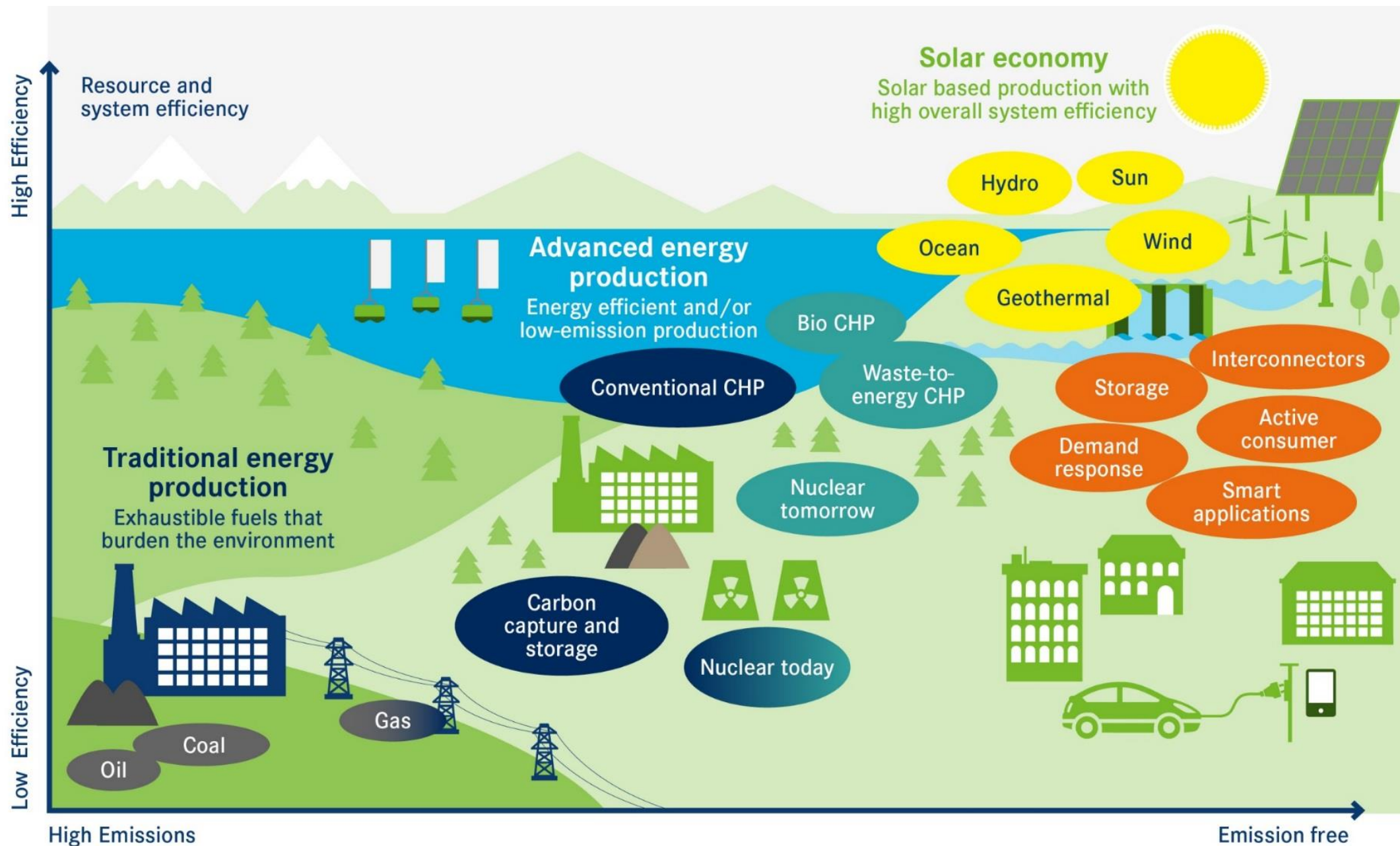
**Pilot
and invest**
in external
startups



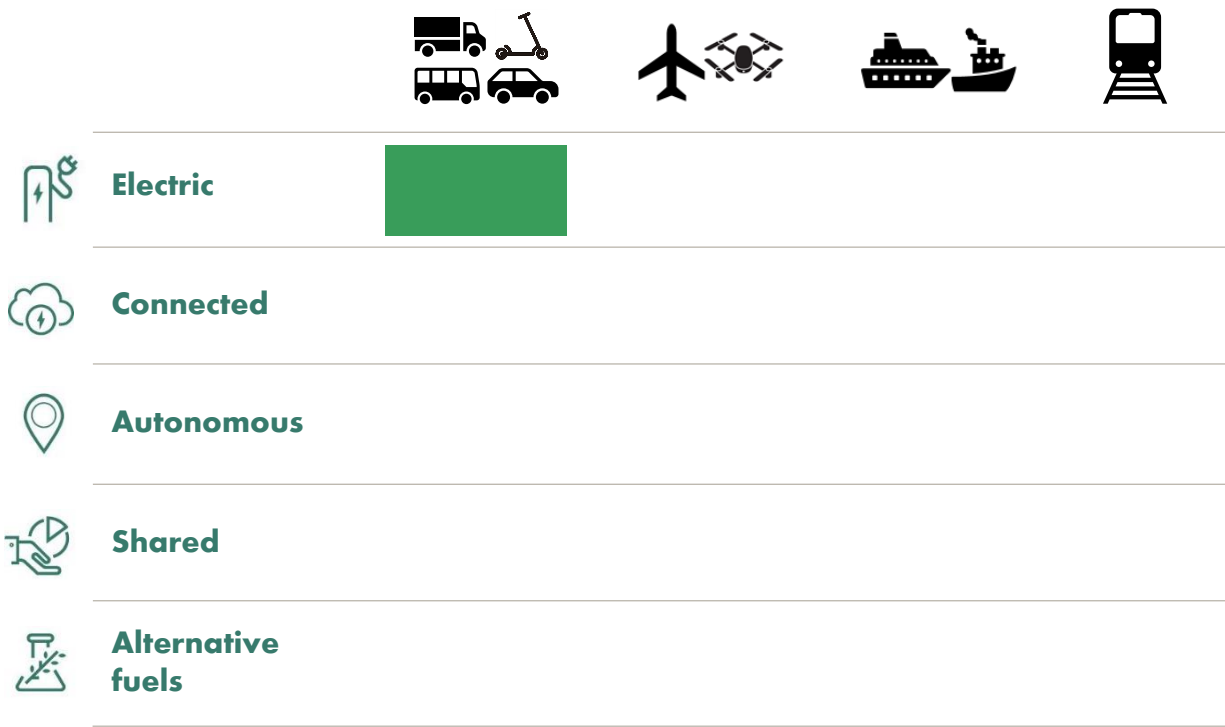
**Incubate
and coach**
internal startups










Develop
existing businesses

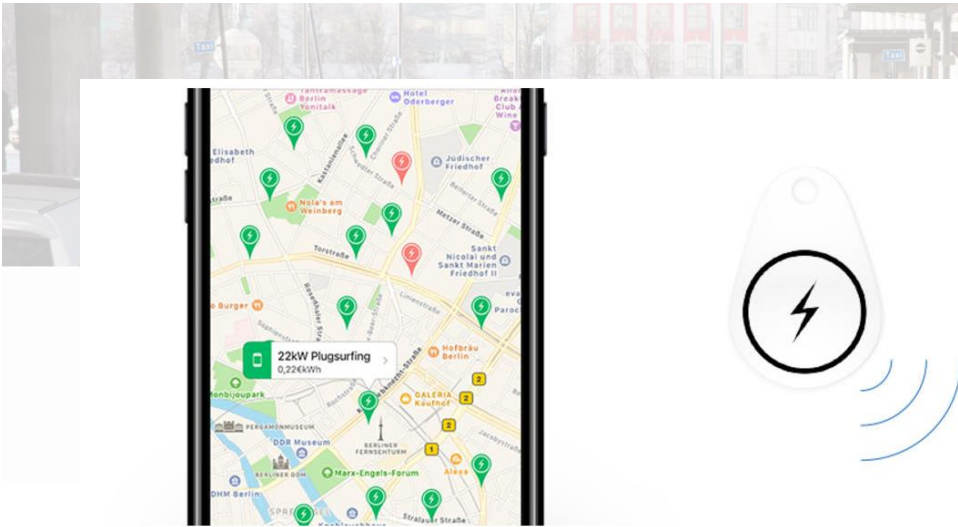


Taking foothold in the value chains of transportation and mobility



Taking foothold in the value chains of transportation and mobility

	
 Electric	
 Connected	
 Autonomous	
 Shared	
 Alternative fuels	



FORTUM CORPORATION PRESS RELEASE 6 March 2018

Fortum Charge & Drive and Plugsurfing have joined forces to provide services for electric vehicle drivers. In striving for the perfect, scalable customer experience, Fortum has acquired full ownership of Plugsurfing GmbH. Parties have agreed not to disclose the contract value.








Taking foothold in the value chains of transportation and mobility

Pop-up Charging Stations!

30 April 2019

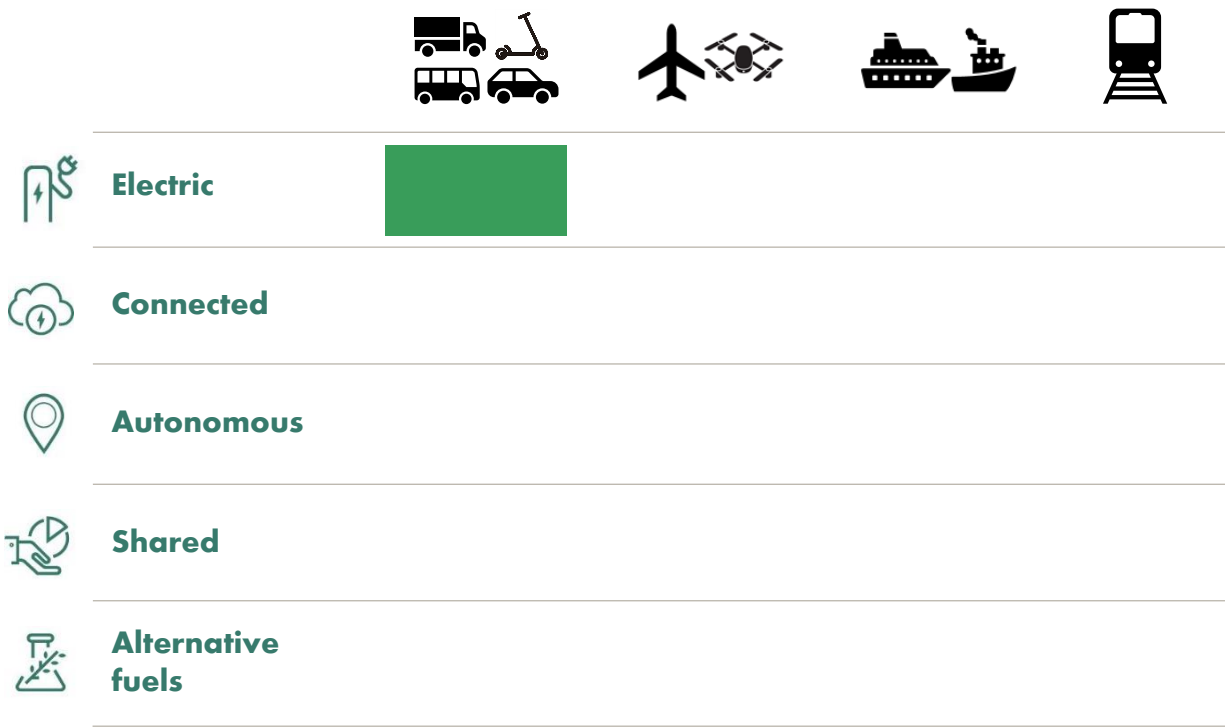
Fortum Charge & Drive has converted two containers that can be transported and used as pop-up charging stations!

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 Electric	
 Connected	
 Autonomous	
 Shared	
 Alternative fuels	



Taking foothold in the value chains of transportation and mobility



Pop-up Charging Stations!

30 April 2019

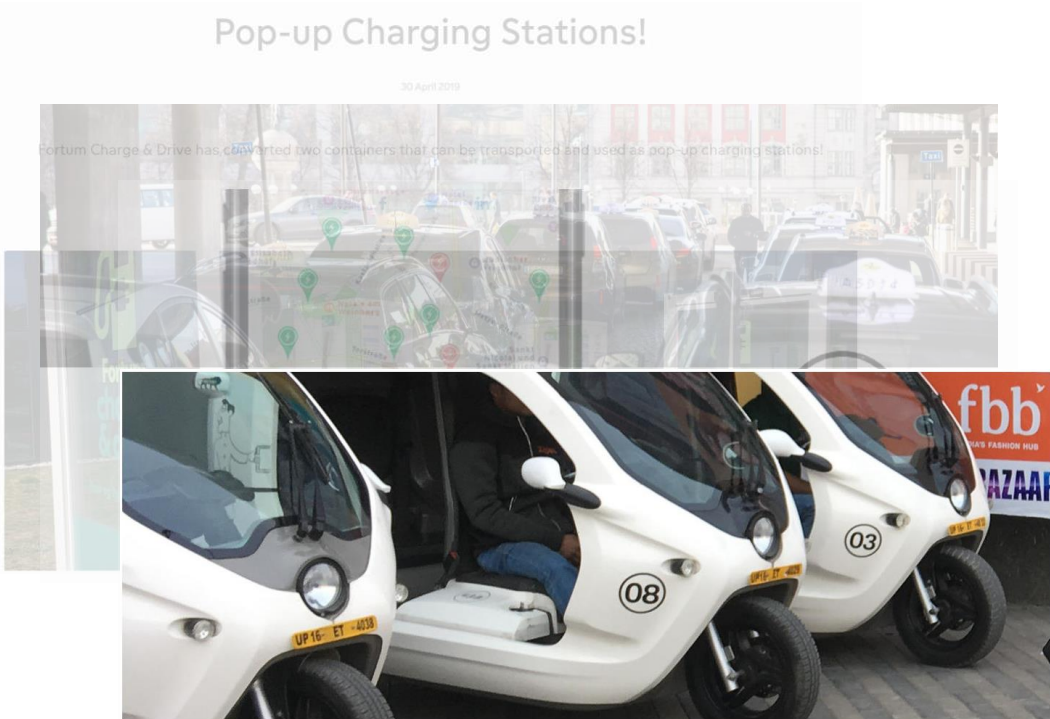
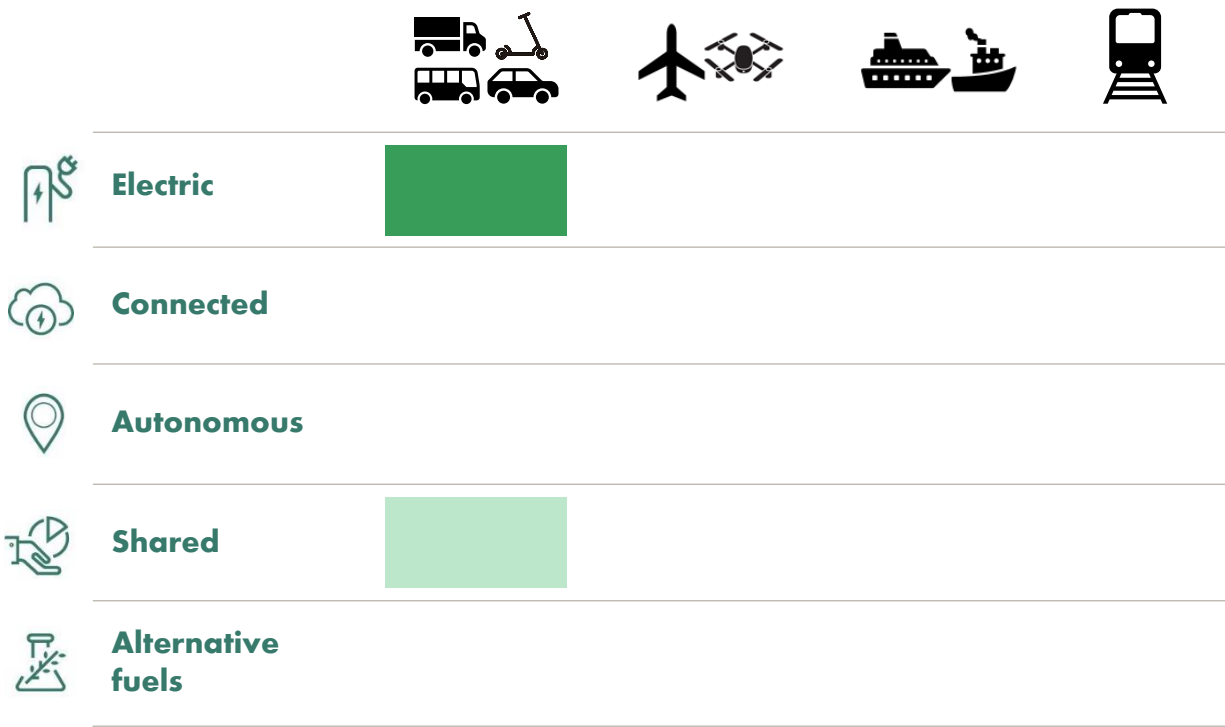


FORTUM CORPORATION PRESS RELEASE 21 March 2019

Clean-energy company Fortum is in cooperation with the City of Oslo and the American company Momentum Dynamics to build a wireless fast-charging infrastructure for taxis in the Norwegian capital.

The project aims to install wireless charging using induction technology.








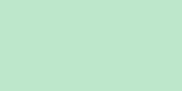





Taking foothold in the value chains of transportation and mobility



FORTUM CORPORATION ONLINE NEWS 30 May 2018

Fortum has signed an agreement with Swedish light electric vehicles manufacturer Clean Motion to jointly develop a battery swap system tailored specially for light electric vehicles. The primary target market for the initiative are the major taxi companies in India and other organizations with large fleets of vehicles that are in need of high uptime in their operations.


Taking foothold in the value chains of transportation and mobility

				
 Electric				
 Connected				
 Autonomous				
 Shared				
 Alternative fuels				

Pop-up Charging Stations!

30 April 2019


Fortum Charge & Drive has converted two containers that can be transported and used as pop-up charging stations!

















Public technology demonstrations

We are planning to conduct a number of remote and autonomous mobility pilots to explore the potential opportunities and challenges in this landscape with our project members at Technical Research Centre of Finland (VTT) and Fleetonomy.AI Oy.

First of these remote-driving demonstrations was organised in Helsinki on June 27. We believe that our demonstration was one of the first tests on the public road in Finland.



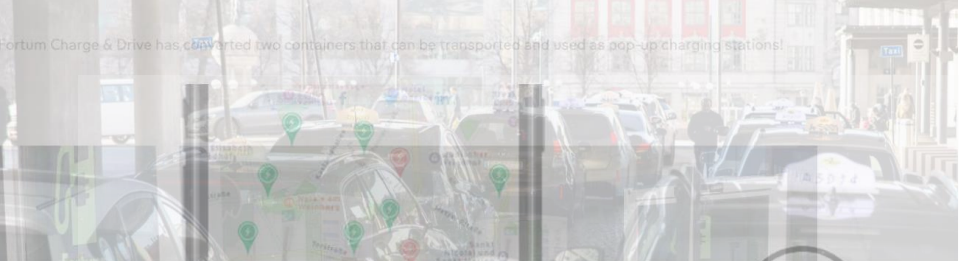
Taking foothold in the value chains of transportation and mobility

				
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Public technology demonstrations

FORTUM CORPORATION PRESS RELEASE 21 March 2019

Clean Air 2019, ensuring 100% electric power in the City of Oslo

Q19: All We are planning to conduct a number of remote and autonomous mobility tests to explore the potential opportunities and challenges in this landscape with our project members at Technical Research Centre of charging infrastructure in the city of Oslo.




Electric airplane flies best just before sunset










Jackie Lawrecki - 31 July 2019

Fortum participated in the development of electric aviation and in the first e-plane flight in Poland.

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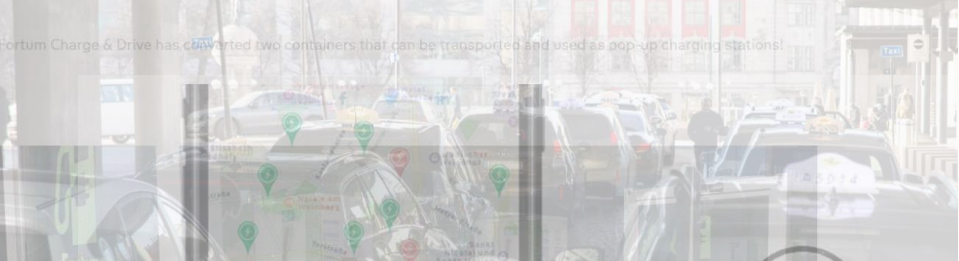
Taking foothold in the value chains of transportation and mobility

					
 Electric				?	?
 Connected					
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 Alternative fuels					

Pop-up Charging Stations!

30 April 2019

Fortum Charge & Drive has converted two containers that can be transported and used as pop-up charging stations!




FORTUM CORPORATION PRESS RELEASE 21 March 2019

Public technology demonstrations

Clean Energy Solutions for the City of Oslo

Fortum Charge & Drive is planning to conduct a number of remote and autonomous mobility tests to explore the potential opportunities and challenges in this landscape with our project members at Technical Research Centre of Norway (TRC) and the City of Oslo.



FORTUM CORPORATION PRESS RELEASE 25 March 2019

Electrification will rapidly increase the need for batteries. A new solution by Nordic clean energy company Fortum makes over 80% of the electric vehicle (EV) battery recyclable, returns the scarce metals back into circulation and resolves the sustainability gap by reducing the need to mine cobalt, nickel, and other scarce metals.

Taking foothold in the value chains of transportation and mobility





for a cleaner world