

Introduction to event & Overview of electric vehicles at EU level



Aalto-yliopisto
Aalto-universitetet
Aalto University

Sam Cross

Manager, Aalto Energy Platform

Today's event

- 08:30 **Introduction**
Aalto Energy Platform
Yrjö Neuvo | *Aalto University*
- Overview of electric vehicles at EU level**
Sam Cross | *Aalto University*
- Electric vehicle systems: current research & future outlook**
Kari Tammi | *Aalto University*
- 09:05 **EVs from different sectoral perspectives**
Electric vehicle charging in promotion of electromobility
Riitta Ståhl | *Fortum Charge & Drive*
- 09:25 **Hybrid and electric vehicles: In media and in practice**
Mika Kauppila | *Valmet Automotive*
- 09:45 **Electric bicycles: An energy efficient mode of transportation**
Pauli Salminen | *Aalto University*
- 10:05 *Coffee Break*



Today's event (continued)

Broader context for transport:

10:25 **EU-level evidence synthesis on decarbonisation of transport: adapting it in the Finnish context**
Nanna Särkkä | *Finnish Academy of Science and Letters*

10:45 **Self-Driving Urban Area – Opportunities and challenges for envisioning sustainable urban futures**
Milos Mladenovic | *Aalto University*

Discussion

11:05 *with Meri Löyttyniemi | Aalto Sustainability Hub*

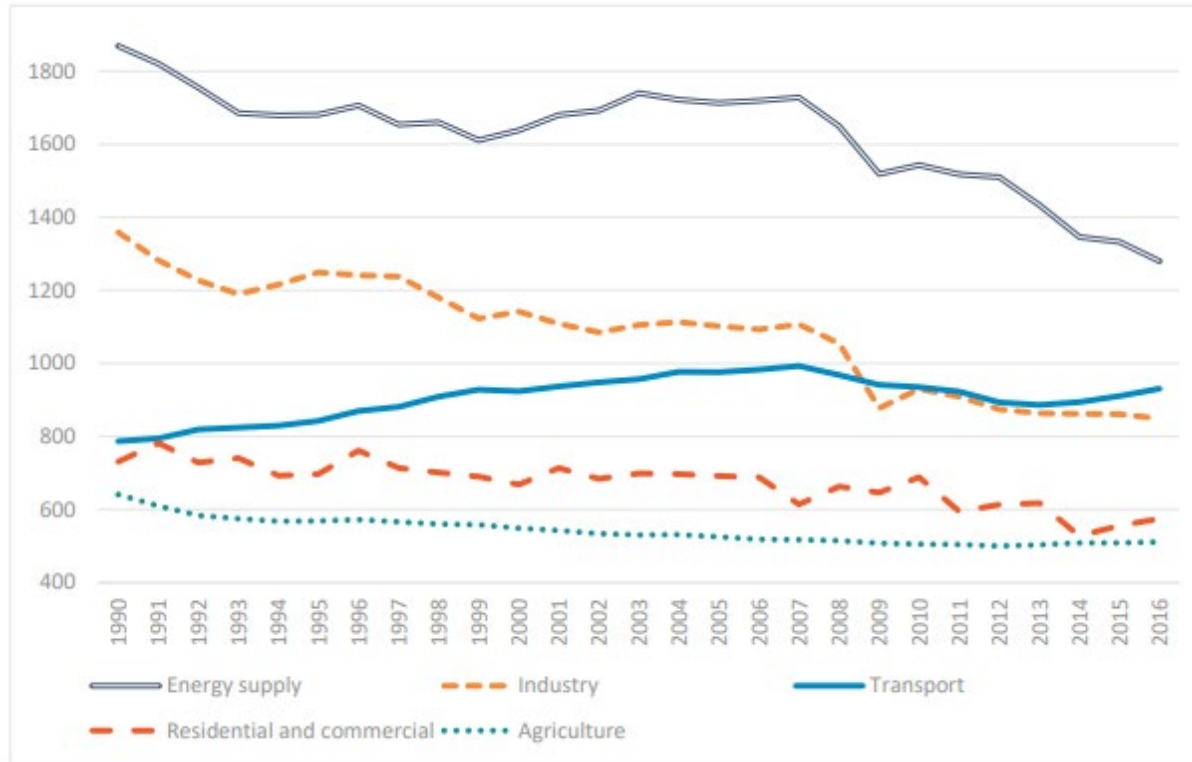
Re-scheduled presentation

11:30 **Electric buses in promotion of electromobility (TBC)**
Tom Granvik | *Linkker*

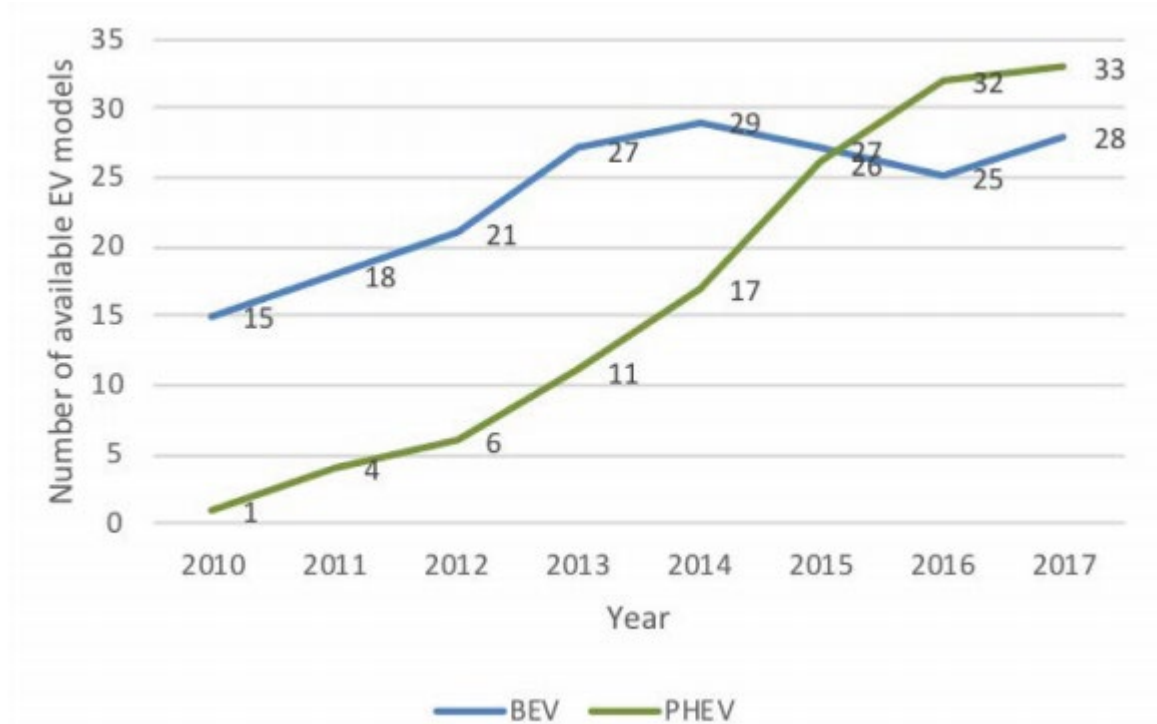
11:45 *Lunch*

Context: EVs at EU-level

EV role in transport decarbonisation is critical (EU sectoral carbon emissions 1990-2016)



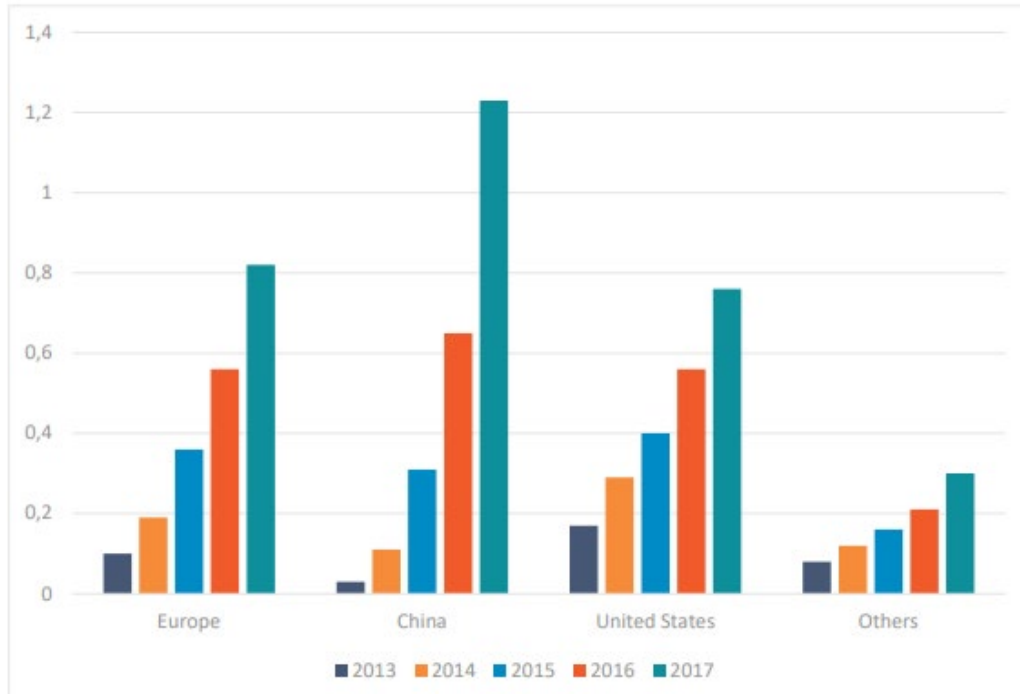
EV models on market



BEV = Battery Electric Vehicle

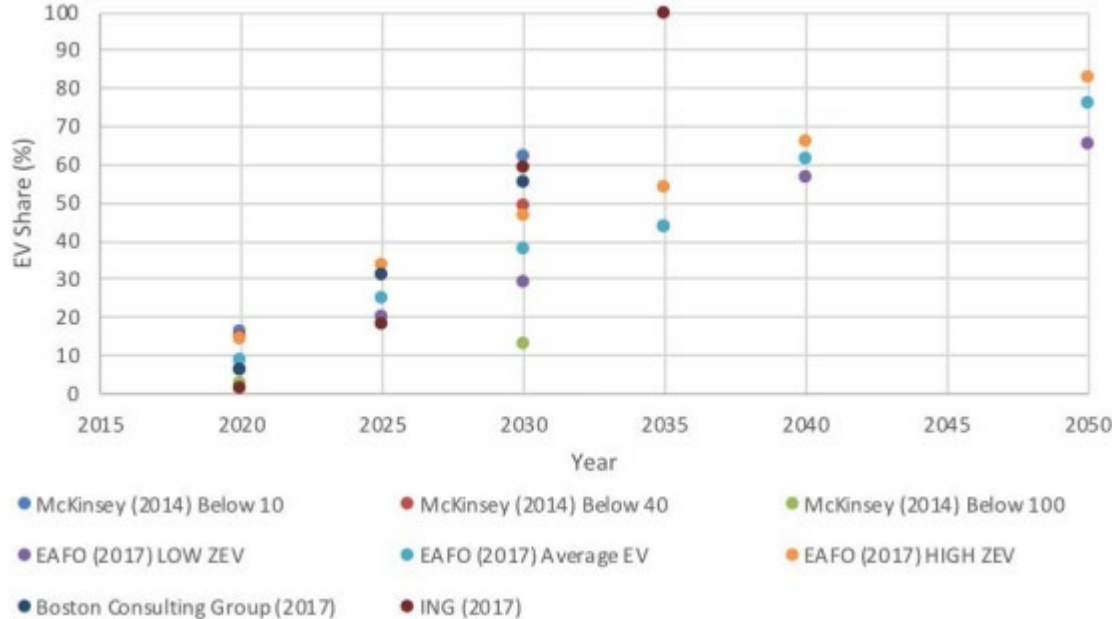
PHEV = Plug-in hybrid electric vehicle

Electric cars on the road (mn, BEVs & PHEVs)



**BEV EU & EFTA Market share
H1 2019 = 3%
(highest NO, 45%; FI = 1.7%)**

EU Sales projections for BEVs & PHEVs to 2050



Audience participation today

presemo.aalto.fi/ev2019

Audience questions at presemo.aalto.fi/ev2019

1. What do you forecast to be the market share of BEVs/PHEVs by 2025?

Under 10% 10-20% 20-30% 30-40% Over 40%

2. Where might Aalto University have the greatest impact in transport electrification?

- Drivetrain and understanding operation of EVs
- Battery technology
- Developing policy measures to promote EVs
- Charging infrastructure and interaction with power system
- Societal & Planning impacts
- Other?

3. Any issues that you would particularly like to raise for discussion?

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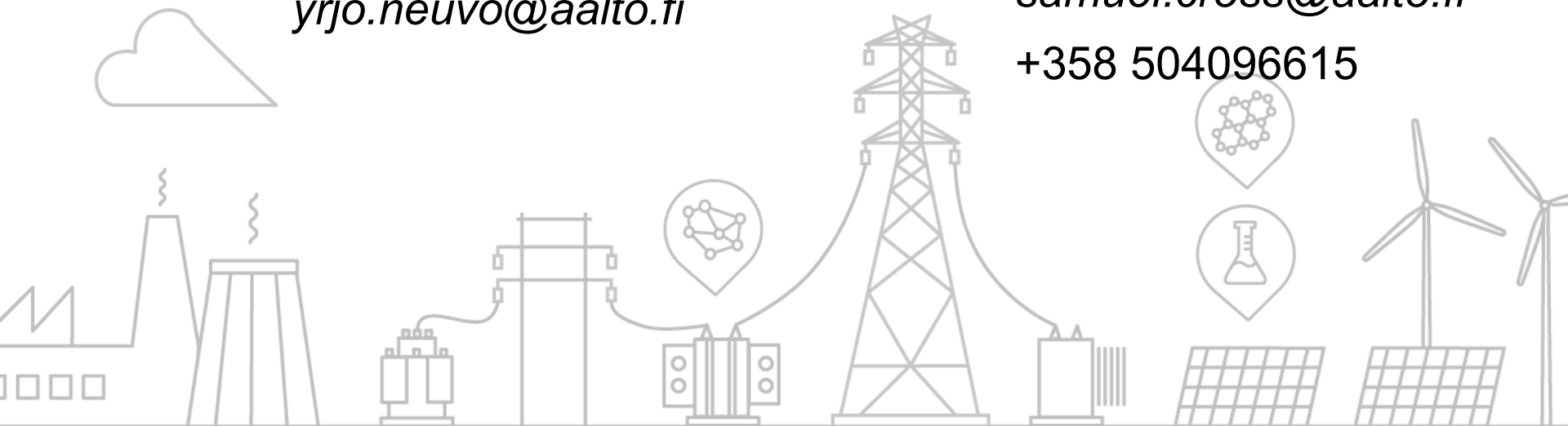
Chairman: Yrjö Neuvo

yrjo.neuvo@aalto.fi

Manager: Sam Cross

samuel.cross@aalto.fi

+358 504096615



energy.aalto.fi