



Supporting e-mobility in European regions and cities

Policy background, barriers and drivers

Simon Hunkin
Thematic Expert on
Low-carbon economy



**Interreg
Europe**



European Union | European Regional Development Fund



Decarbonising transport

- **Preventing climate change and meeting international targets**
 - 25% of carbon emissions
 - Reduction is slow
- **Urban growth = air quality and noise**
 - ‘A public health catastrophe’
- **Energy autonomy**
 - Two-thirds of EU oil use is in transport
 - Highly import-dependent

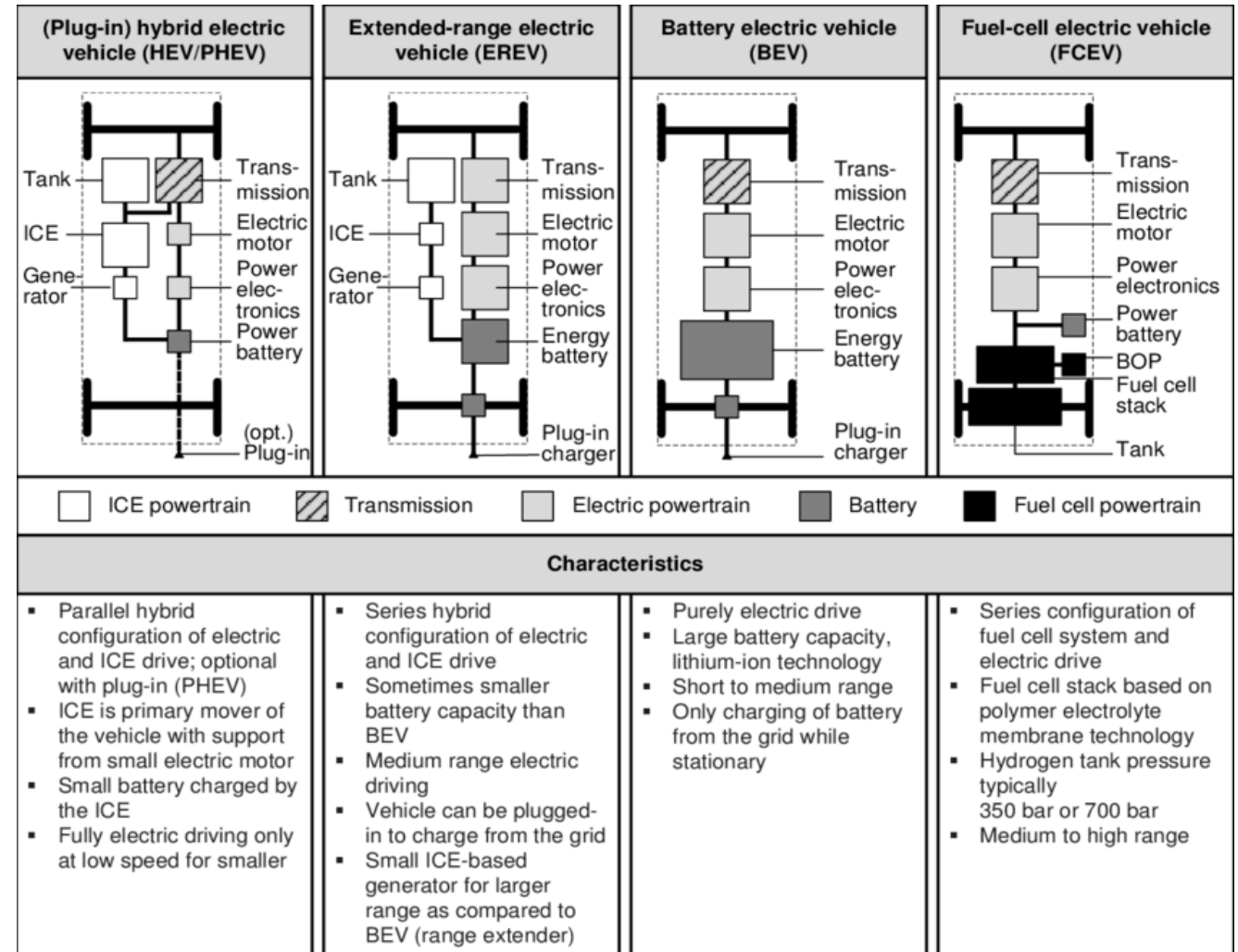




Electric vehicles

‘Electric vehicle’ means a motor vehicle equipped with a powertrain containing at least one non-peripheral electric machine as energy converter with an electric rechargeable energy storage system, which can be recharged externally

Directive 2014/94/EU



Framework

- **2030 Energy Strategy**
- **Directive on alternative fuels infrastructure (2014)**
 - From 2017, European standard; Charger IEC Type 2
- **Europe on the Move and the Clean Mobility Package (2017-2018)**
 - Battery initiative
 - Action plan on infrastructure
- **2018 Energy Performance of Buildings Directive revision**



Barriers

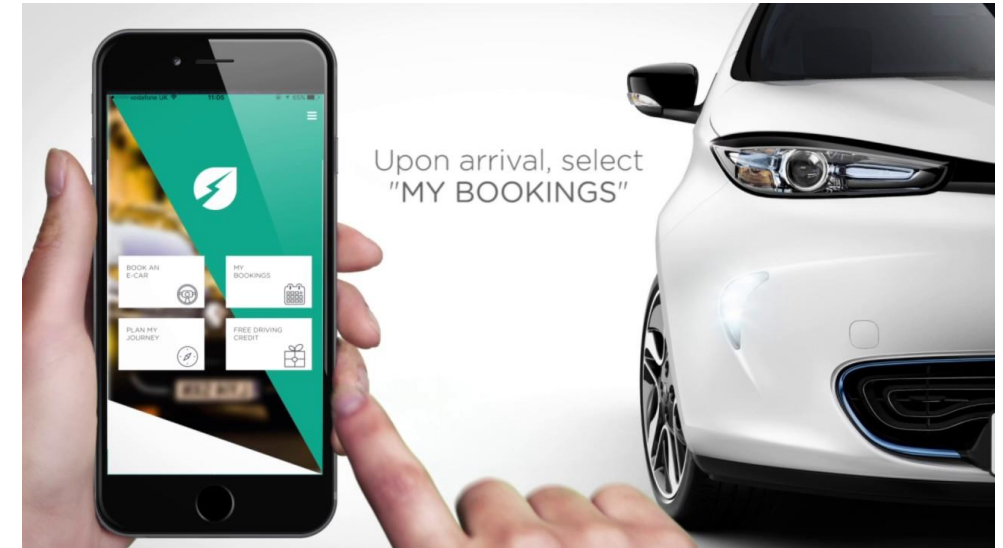
- **An infrequent investment**
- **Higher initial up-front investment**
- **Range Anxiety – battery capacity**
- **Insufficient charging infrastructure**
- **Charging is longer than refuelling with petrol**
- **Must go hand-in-hand with roll-out of renewables**





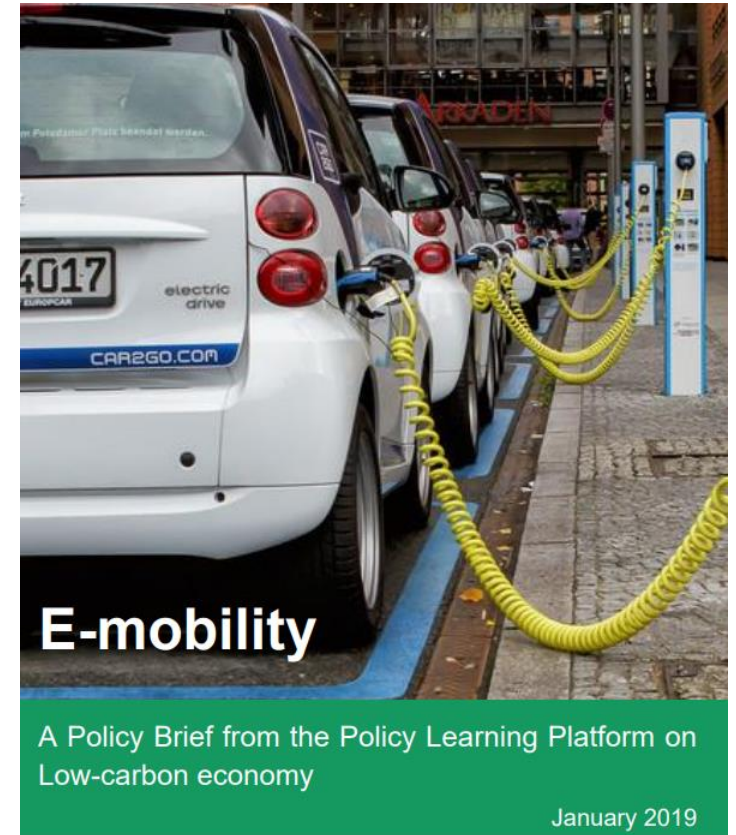
Enablers

- **Changing social norms**
- **New approaches in urban transport**
- **Suitable for day-to-day transport**
- **Economic and time savings**
- **Smart grids and energy stability**



Concluding Remarks

- **Electric mobility has huge potential for decarbonising Europe's transport sector**
- **Flexible solutions are available for *almost* any requirement**
- **But many barriers remain**
- **Regions across Europe already pioneering initiatives:**
 - Infrastructure
 - Awareness raising
 - Strategies
 - Tax cuts, and incentives
 - Smart grids



Policy brief available now



Thank you!

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s.hunkin@policylearning.eu



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