



Feasibility analysis and development of on-road charging solutions for future electric vehicles

Wireless Power Transfer technologies for EVs

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TRL

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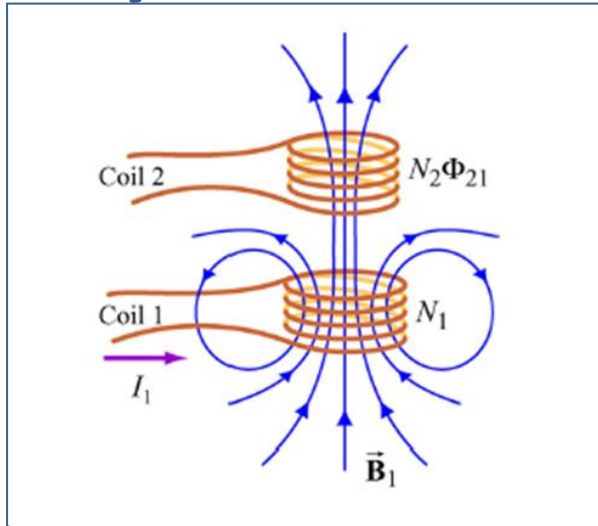


Why use Wireless Power Transfer (WPT)?



Source: TRL

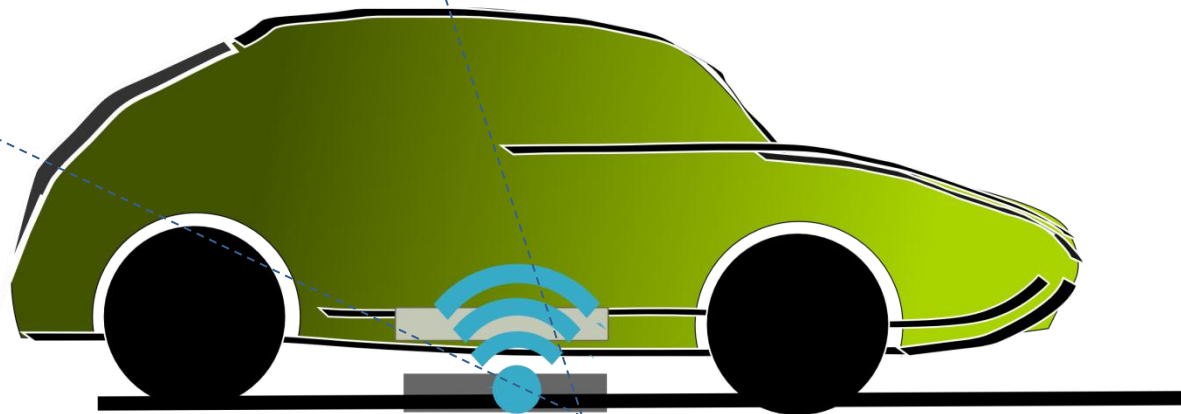
Why use Wireless Power Transfer (WPT)?



Static

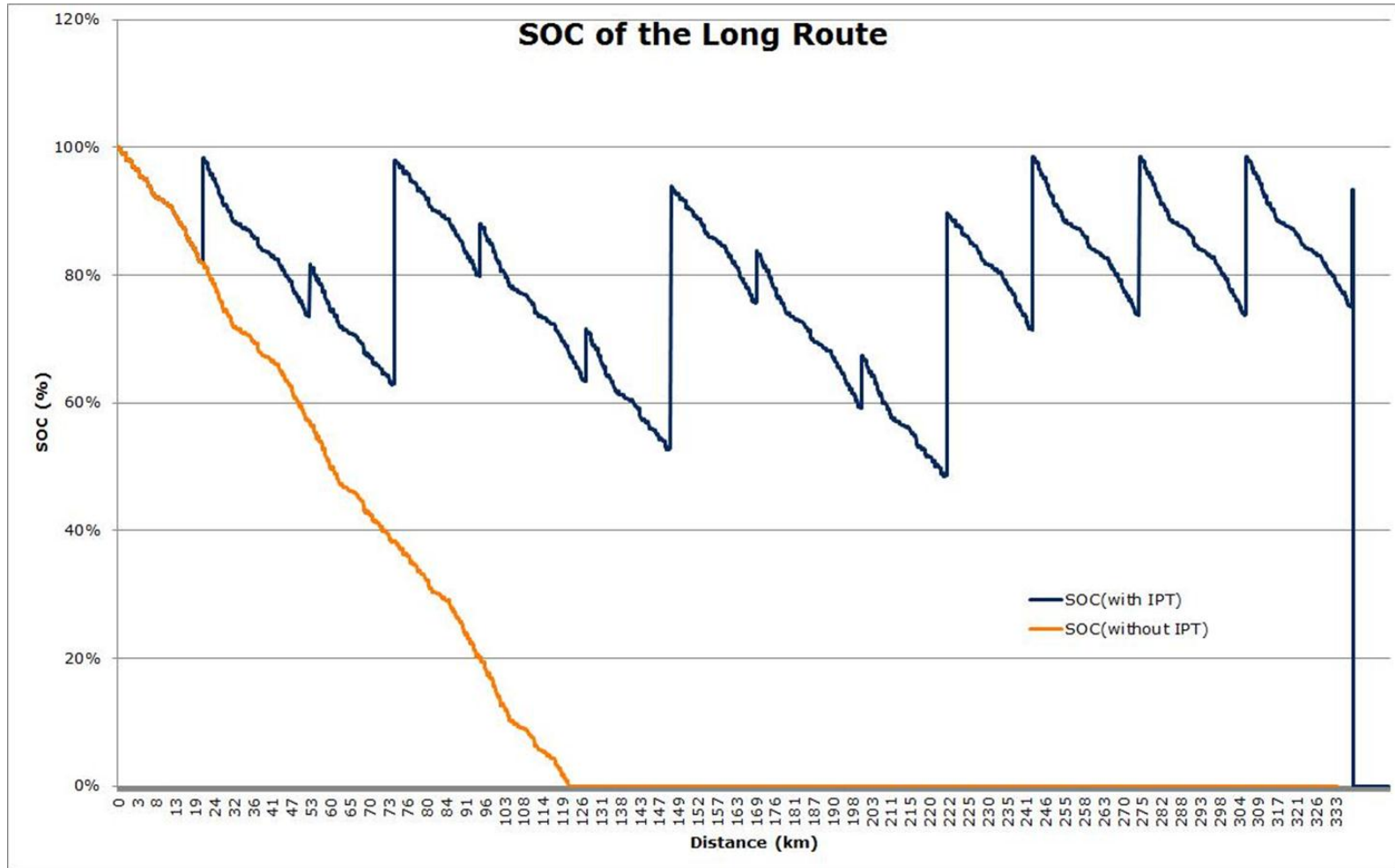


While parked the car is recharging automatically



Source: SAET

Why use Wireless Power Transfer (WPT)?



Source: TRL

Dynamic WPT

Position 1

Vehicle detection & recharging system in stand-by



Position 2

Vehicle is charging by passing over the recharging pad and receiving transmitted power



Position 3

Vehicle has been automatically recharged while driving.



Source: SAET

Add a picture caption here

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Vehicle Manufacturers



CRF (Italy)



VOLVO (Sweden)



SCANIA (Sweden)

Energy operators



IRE (Italy)

Road Managers



TECNO (Italy)



SNF (France)

Technology suppliers



VeDeCom(France)



SAET (Italy)

Research Institutes



ICCS (Greece)



TRL (United Kingdom)



TNO (United Kingdom)



CEA (France)



FKA (Germany)



UNIGE-DITEN (Italy)



CIRCE (Spain)



POLITO (Italy)



KTH (Sweden)

SMEs



QIE (Spain)



ENIDE (Spain)



ATA (Italy)



MECT (Italy)



AMET (Italy)

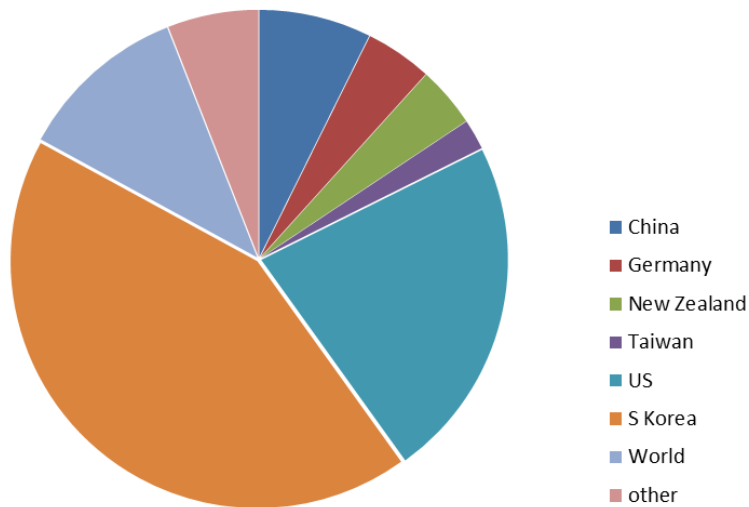
Association



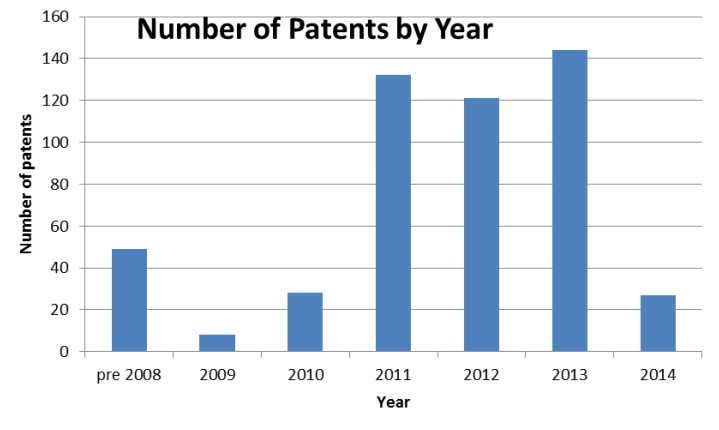
ERTICO (Belgium)

FABRIC project – SP3 Charging Solutions

Number of Patents by Country

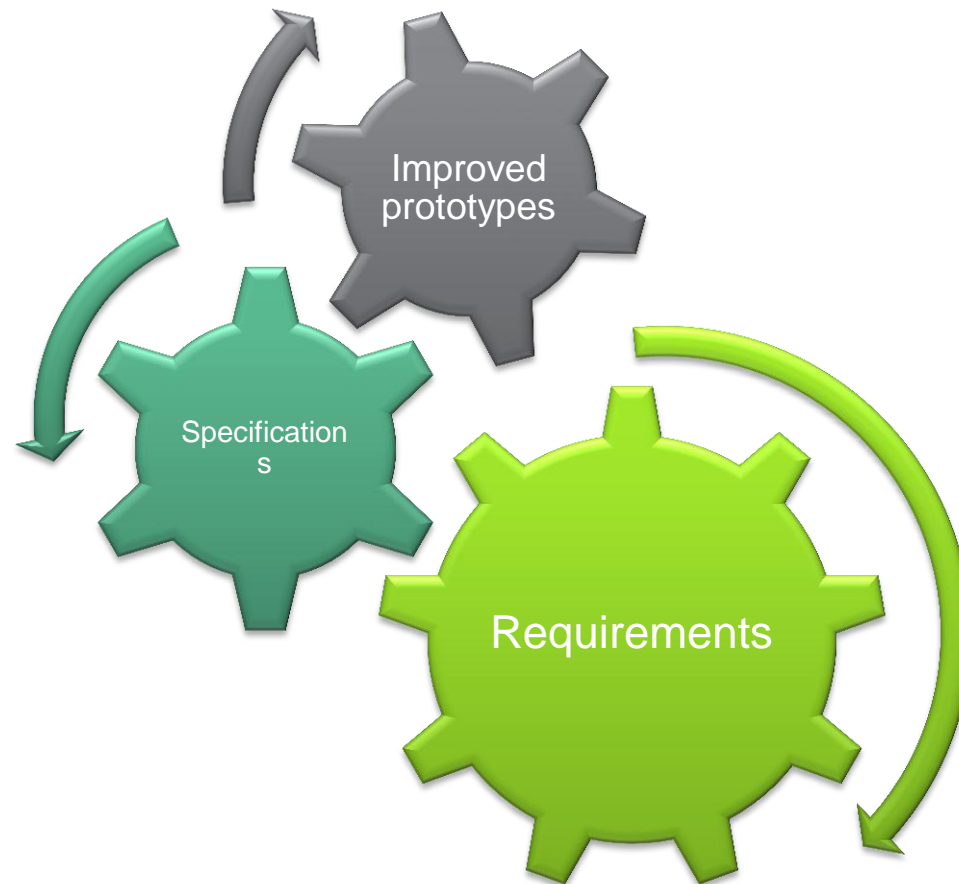


Number of Patents by Year

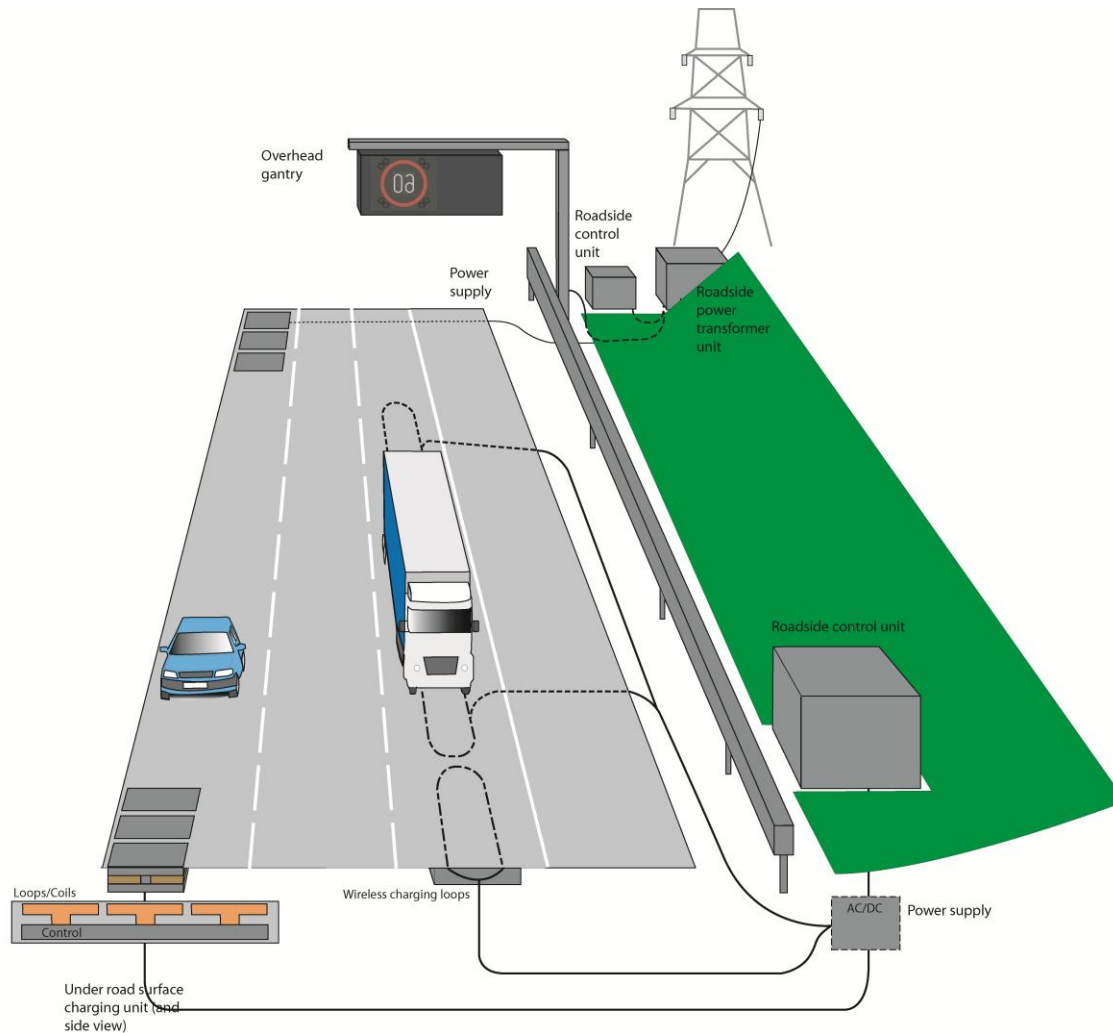


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To ensure optimum integration in the transport sector, start with a clean slate...

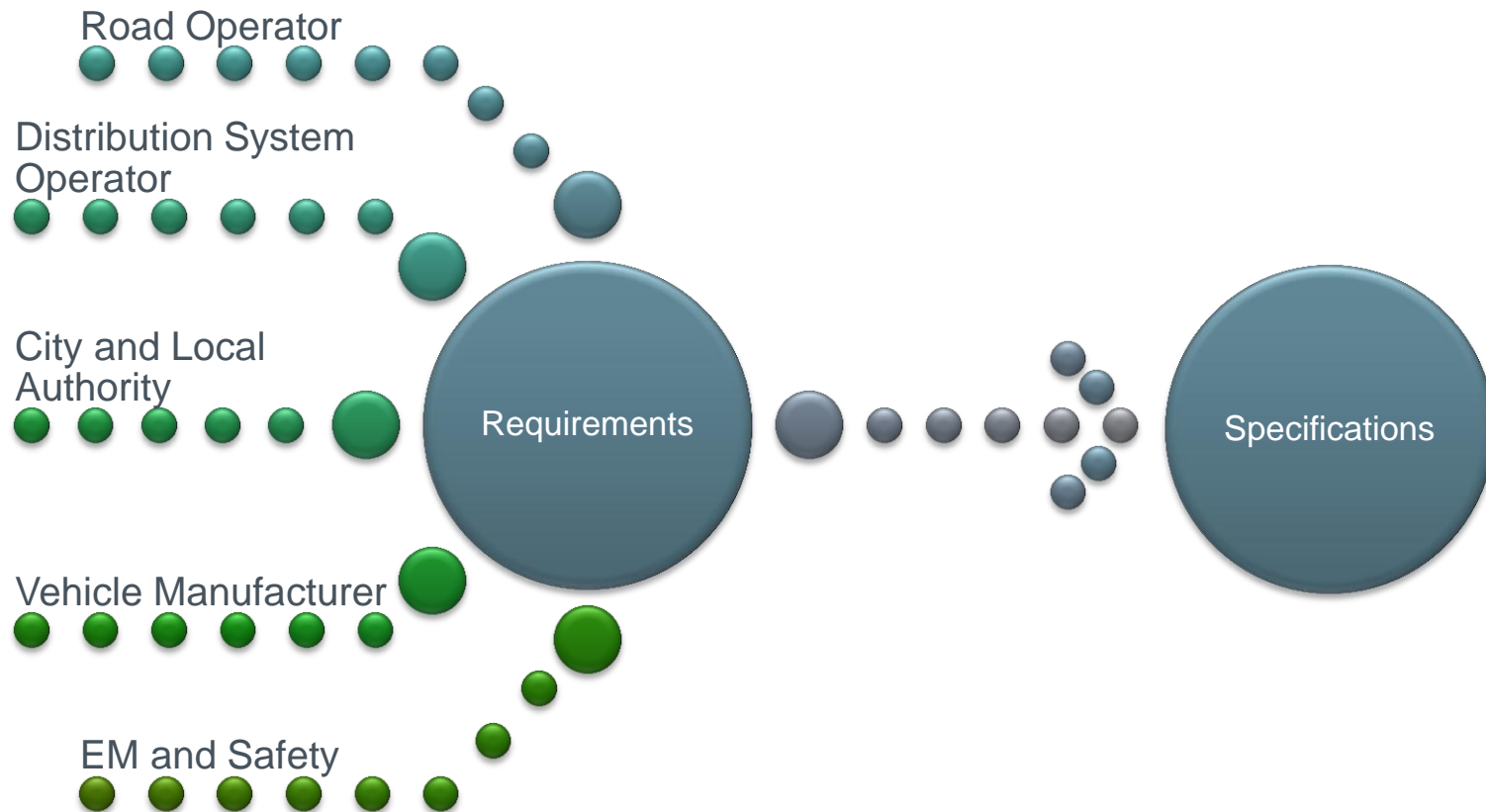


FABRIC project – SP3 Charging Solutions

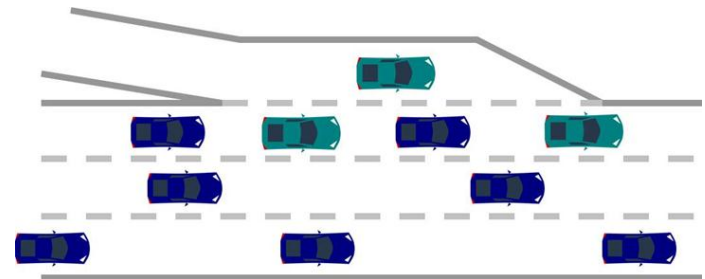
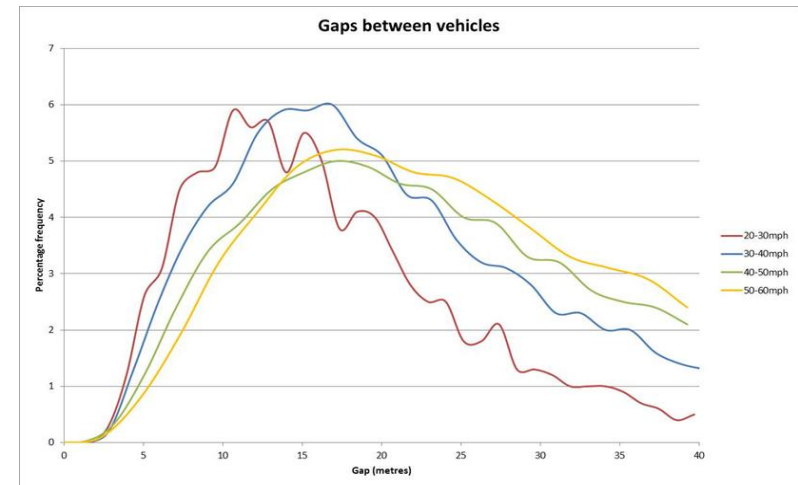
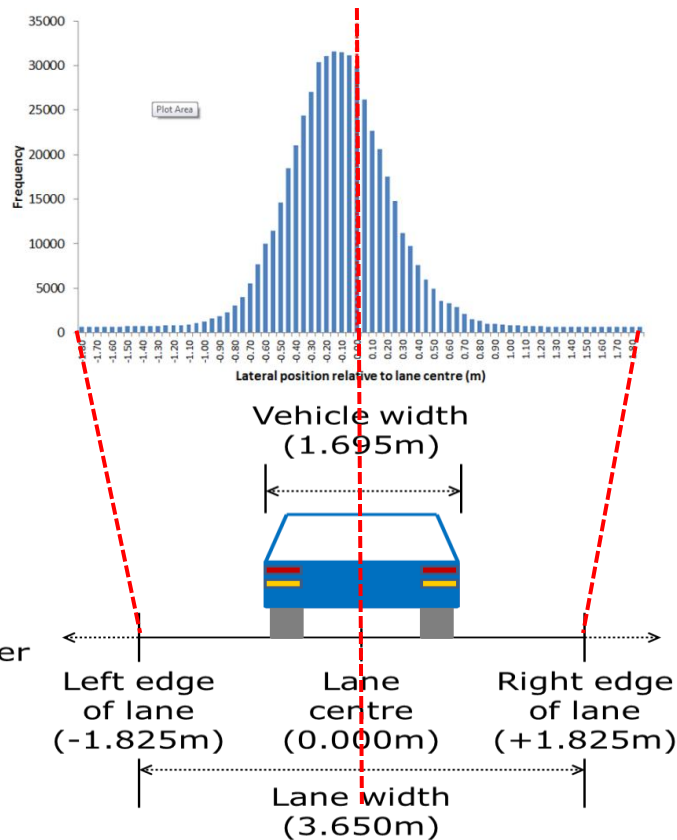


Source: TRL

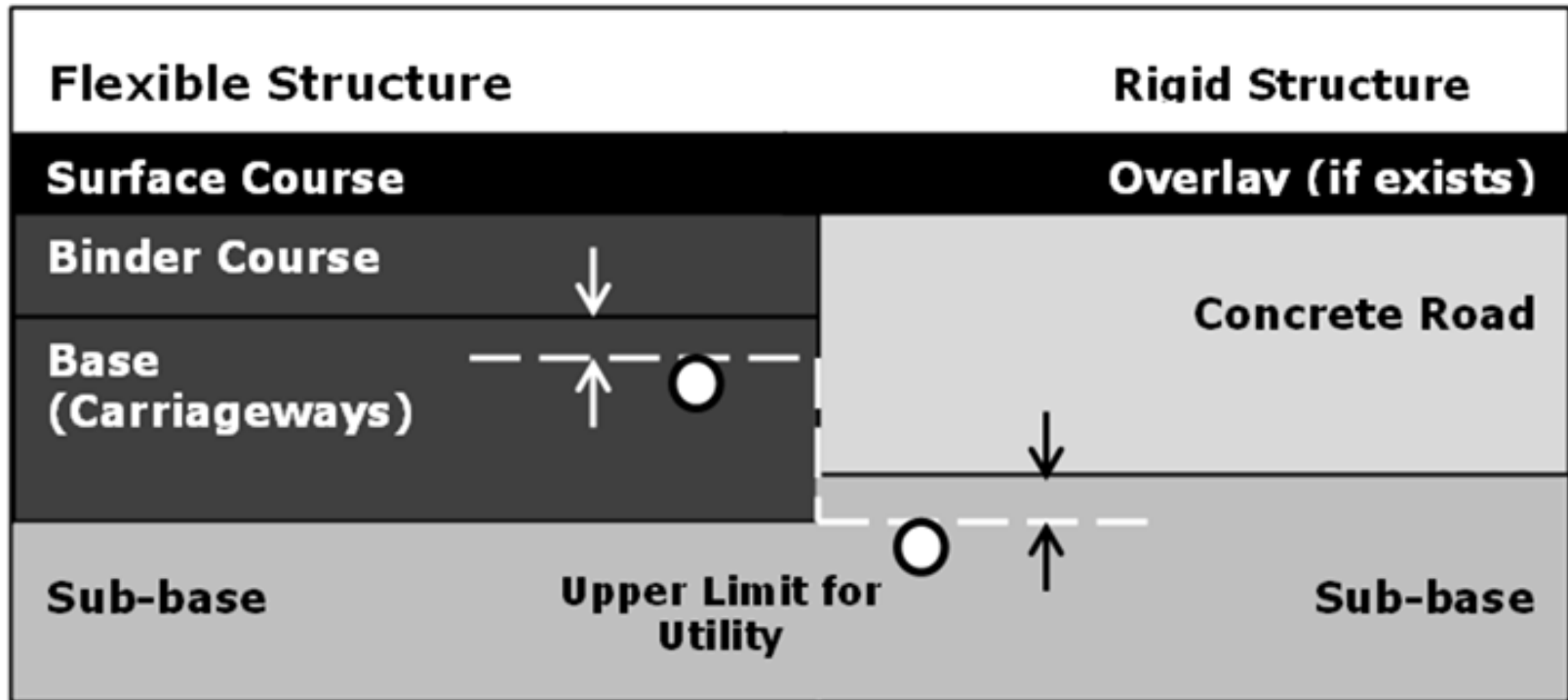
FABRIC project – SP3 Charging Solutions



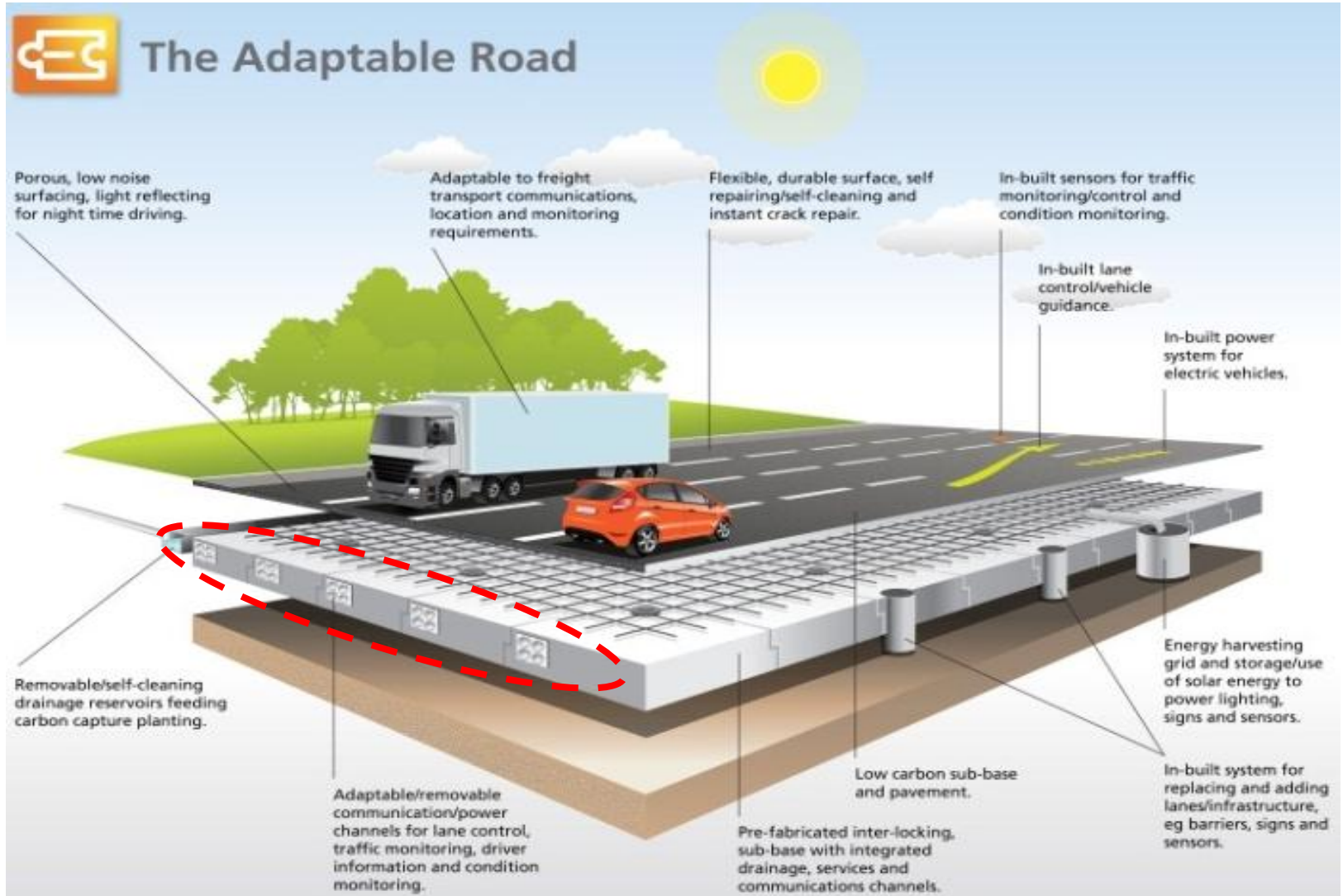
FABRIC project – SP3 Charging Solutions



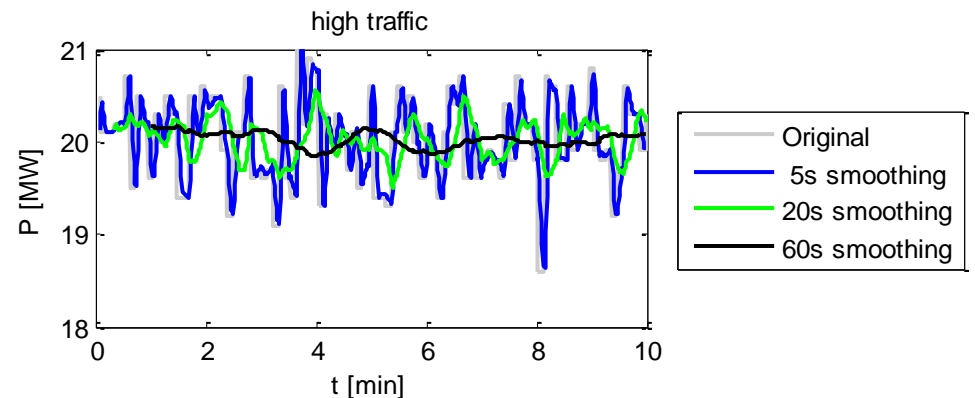
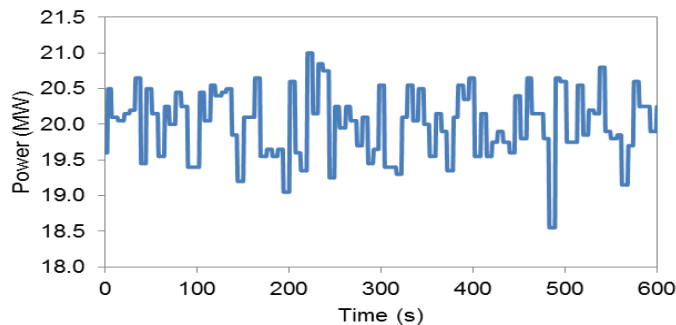
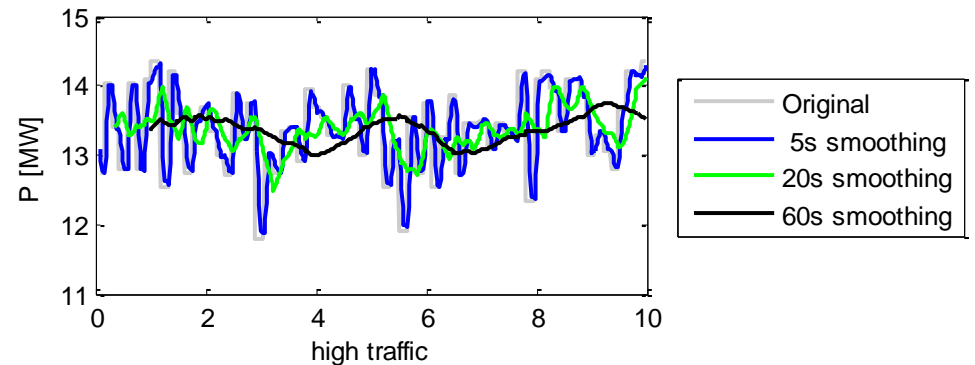
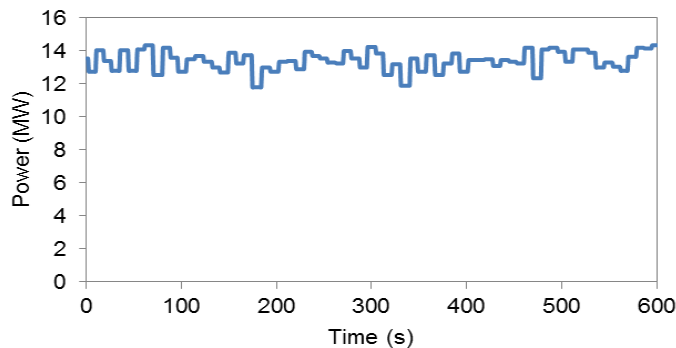
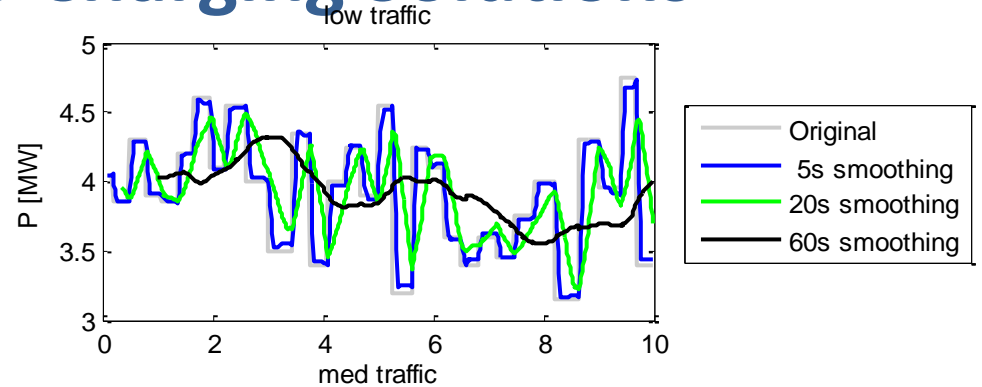
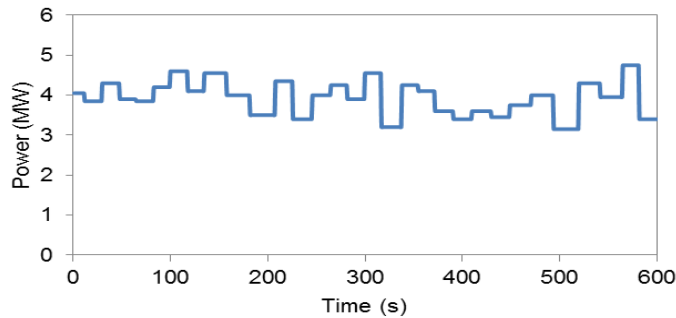
FABRIC project – SP3 Charging Solutions



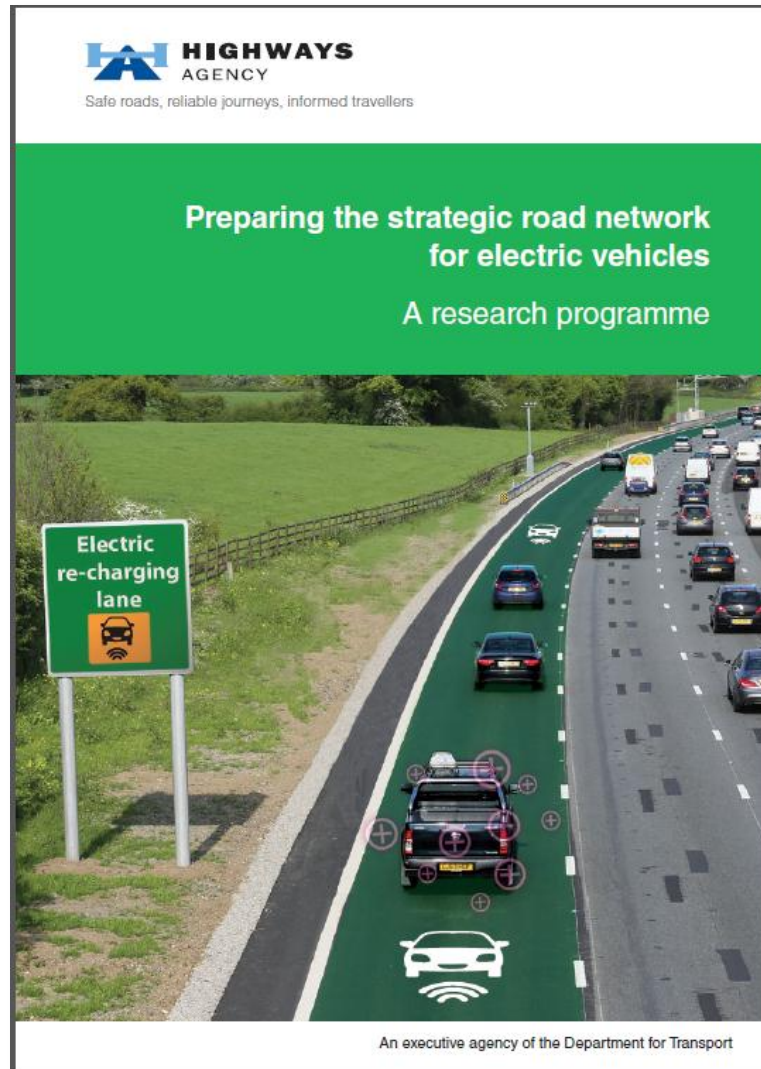
FABRIC project – SP3 Charging Solutions



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Feasibility of dynamic WPT in the UK





Feasibility analysis and development of on-road charging solutions
for future electric vehicles

Thank you!

Denis Naberezhnykh

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ITS Technology

TRL

