



www.sustainableroadfreight.org

EPSRC
Pioneering research
and skills



HERIOT
WATT
UNIVERSITY

UNIVERSITY OF
WESTMINSTER

Centre for Sustainable Road Freight

Virtual Tour of ELISA eHighway Project

10 September 2020

David Cebon



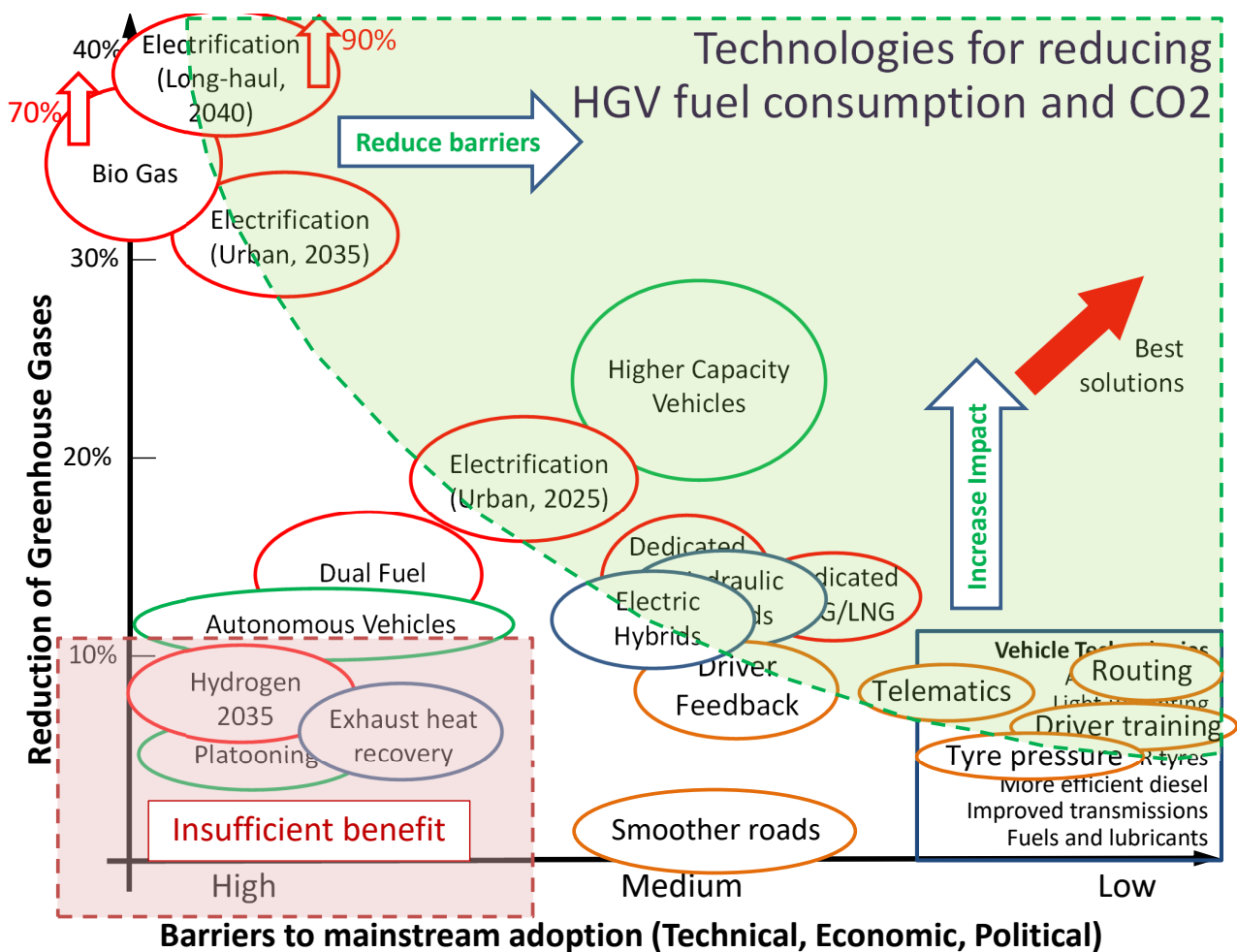
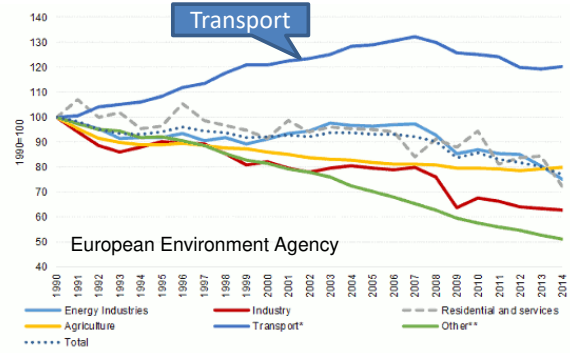
Agenda

BST	CET	Item	Presenter	Duration
13:00	14:00	Welcome and Introduction	David Cebon, Cambridge University & CSRF	00:10
13:10	14:10	Climate-friendly road freight transport – putting catenary trucking in context	Julius Joehrens, Fraunhofer, Ifeu	00:20
13:30	14:30	The Catenary Electric Road from the Truck Perspective	Christer Thoren, Scania	00:20
13:50	14:50	Lessons from Field Trial ELISA: Planning, permitting, installing and operating	Dr Achim Reusswig, Hessen Mobil	00:20
14:10	15:10	Q&A	Justin Moss, Siemens UK	00:15
14:25	15:25	Break		00:20
14:45	15:45	Presentation from the ELISA site: vehicle and infrastructure, driving experience and status of norming and standardization	Markus Staub and Gerrit Stumpe from Siemens Mobility Germany	00:45
15:30	16:30	Q&A	Justin Moss, Siemens UK	00:20
15:50	16:50	Break		00:10
16:00	17:00	The Role of eHighway Field Tests on the Way to Large-scale Implementation	Manfred Boltze, TU Darmstadt	00:20
16:20	17:20	Proposed freight electrification pilot project in the UK	David Cebon	00:20
16:40	17:40	Q&A	Justin Moss, Siemens UK	00:20
17:00	18:00	Close		



Background

- Carbon emissions to be 'net zero' by 2045/2050.
- As other sectors decarbonise, transport's share of emissions is increasing.
- Heavy lorries are difficult to decarbonise:
...ITF predicts 3xCO2 by 2050.



Background

- Carbon emissions to be 'net zero' by 2045/2050.
- As other sectors decarbonise, transport's share of emissions is increasing.
- Heavy lorries are difficult to decarbonise:
 - ...ITF predicts 3xCO₂ by 2050.
- SRF modelling:
 - Implementing all possible measures, including electrification of urban can yield **30-40% reduction**
 - Electrification of long haul HGVs is essential to achieving 40-90% reduction by 2050**

