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Real world intelligent charging for the mass market

Smart Urban Mobility Solutions

Session: Keep charging on: fuelling the future – now!

Thursday 11th May 2017

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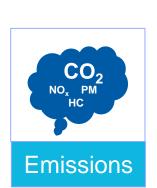




Vehicle electrification



















Users and Vehicles







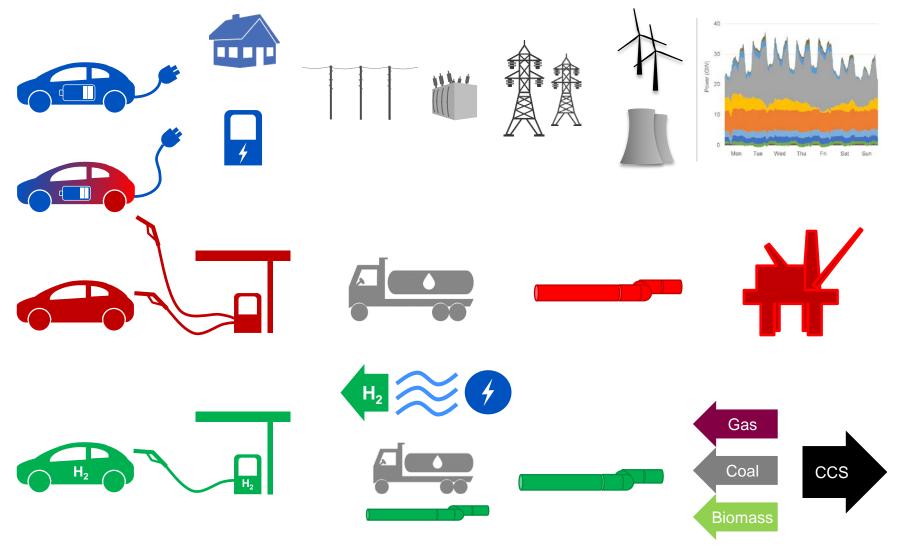


point long-term Car's economies type efficiency cell emissions travel design Consumer battery BEV size fuel range standards PHEV requirements overall rate overall rate adoption market flexibility regulations needs plug-in charging ULEV replace investment safety manufacturing vehicles risk plants



Energy supply

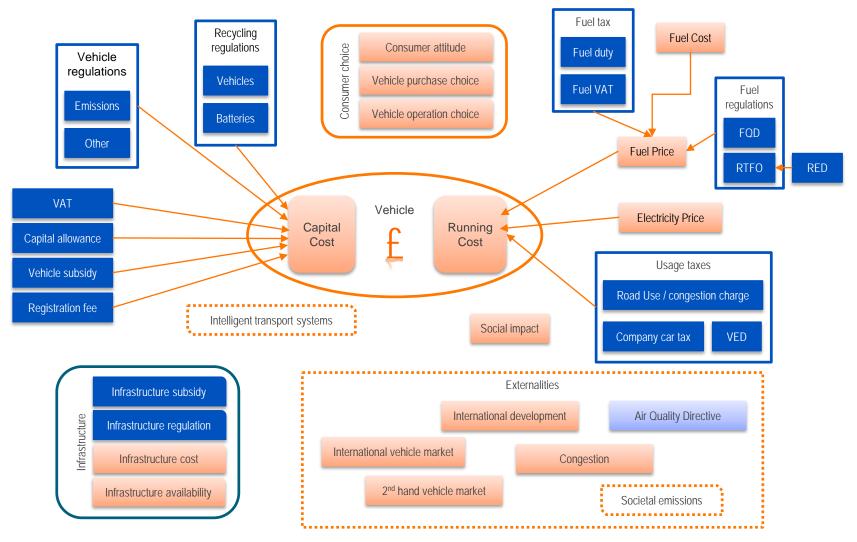






Market, regulatory and policy factors

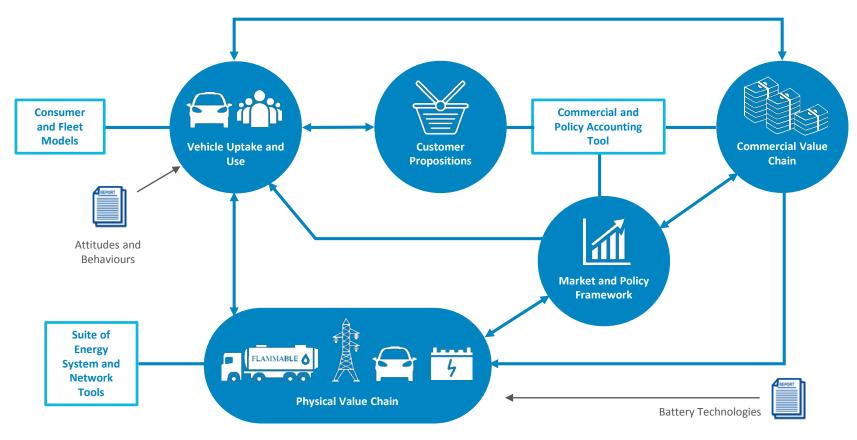






Analysis capability





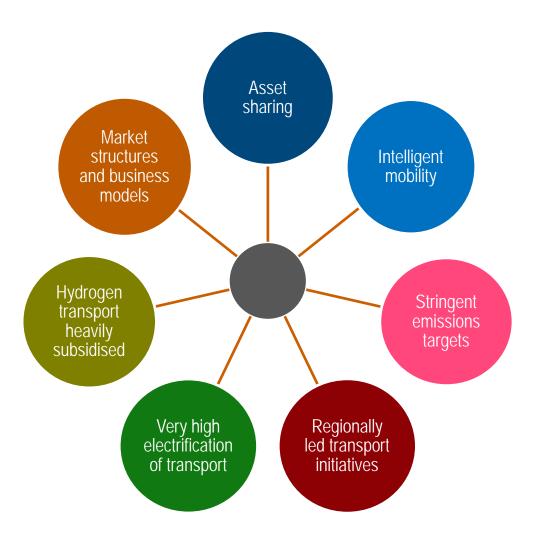
A combined set of modelling tools have been developed to provide an *integrated, holistic* means of quantifying and qualitatively assessing the impacts on and from *infrastructure, consumers, vehicle uptake and use, policy measures* and *commercial models* across the system



Accounting for trends and developments elsewhere



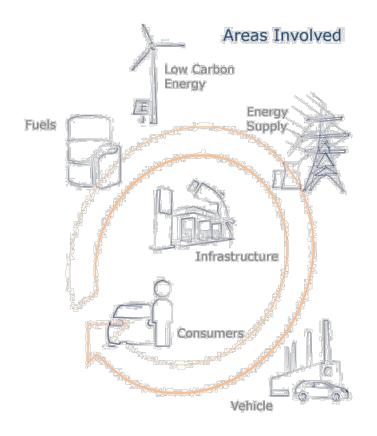
- Various "narratives" (scenarios)
 defined to describe aspects of
 possible future environments for
 ultra low emission vehicle
 (ULEV) deployment and use.
- These are used to "stress test" the effectiveness and robustness of solutions in different futures.
- Each narrative is designed to be self-consistent in how it represents key aspects of the:
 - customer proposition,
 - market & policy framework,
 - physical value chain, and
 - commercial value chain.





CVEI project overview





- £5m, 2.5 year project to address the challenges involved in transitioning to a secure and sustainable low carbon vehicle fleet
- Aims to understand changes to market structures and energy supply systems to support high deployment of plug-in vehicles, the technical implications of any changes and how people might respond to them
- It will examine how tighter *integration* of vehicles with the energy supply system can benefit:
 - vehicle users
 - vehicle manufacturers
 - organisations throughout the energy supply chain
- The outputs will be available to:
 - help inform UK and European government policy
 - help shape energy and automotive industry products





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