

TEMPLATE FOR CHARACTERISING ENERGY TECHNOLOGY ROADMAPS

REFERENCE	
Title:	Foresight Vehicle Technology Roadmap - Technology and Research Directions for Future Road Vehicles Version 2
Date:	2004
Author:	Foresight Vehicle for the Department for Trade and Industry
Funded by:	Department for Trade and Industry
Hard copy reference:	
URL:	http://www.foresightvehicle.org.uk/public/info_/FV/TRMV2.pdf
Date accessed:	August 2007
Web Format:	pdf
IEA topics covered	Transport
Geographical focus:	UK
Brief Abstract:	<p>The scope of the Foresight Vehicle technology roadmap is broad, reflecting the complex nature of the road transport system and the changing environment in which it operates. The roadmap represents a 'rich picture', capturing knowledge and thinking from a wide range of perspectives.</p> <p>This Version 2.0 has reviewed the information contained in the original, and current views and updates on the technology directions and targets are now included. The overall goal of the technology roadmapping initiative has been to support the aims of Foresight Vehicle, providing a framework for ongoing investment in research partnerships, focused on achieving sustainable wealth creation and quality of life. The technology roadmap supports the recommended actions of the UK Automotive Innovation and Growth Team (AIGT), in terms of providing a framework for:</p> <ul style="list-style-type: none"> • Encouraging technological innovation in road vehicle systems in the short, medium and long-term. The 20 year horizon provides a 'radar' to ensure that investment in technology and research accounts for the trends and drivers that influence the road transport system in that time frame. • Enabling communication, discussion and action within industry collaborations, academia and networks. • Mapping future innovation paths for a number of key technology areas. <p>For this version, the major priorities associated with the trends and drivers have been identified, giving more focus to the technology development needed. However, it is not desirable to overly constrain the research agenda. This is because of the broad scope of the roadmap, the inherent uncertainties associated with the 20 year time frame and the various interests of a diverse set of stakeholders. Rather, the roadmap should be used to provide structure, context and broad direction. This structure enables a consistent language and approach to be developed in terms of understanding the relationships between specific technology areas, system performance and industry drivers.</p> <p>In this summary, the investment required in road vehicle technology and research has been considered in terms of the</p>

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	contribution that the investment is expected to make towards the priority goals derived from the primary environmental, societal and economic themes during the roadmapping process.
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OUTPUTS	
Short Report?	No
Major report?	Yes, 69 pages
Visualisations?	Yes
Information held on dedicated software?	No
- which package?	N/A

ARCHITECTURE	
Timescales used:	20 years time frame
Trends and drivers?	Yes
- list	<ul style="list-style-type: none"> • Society • Economy • Environment • Technology • Policy • Infrastructure
Enablers?	No
- list	
Performance measures/targets?	Yes
- list areas	<ul style="list-style-type: none"> • Society • Economy • Environment • Policy • System • Technology
Mapping of RD&D activities?	Yes
Critical assessment of capabilities?	No

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PROCESS	
Methods used:	
- Desk study?	Yes
- Consultation	
- Interviews?	
- Facilitated workshop(s)	Yes
- Working groups/task force	
- Integrated Process	
Stakeholders engaged:	
- University based researchers	Yes
- Other public sector researchers	Yes
- Business – technology	Yes
- Business – other	
- Government - energy	Yes
- Government – SET	
- Government - other	
- NGOs	
No of people engaged:	more than 70 experts
Budget (if known):	
Commitment to re-visit?	

ACTIONS IDENTIFIED	
List of actions?	Yes
Actions listed according to timescale?	Yes
Actions prioritised?	Yes
Sequencing/dependencies identified?	No
Responsibility for actions identified?	No
Types of actions identified:	
- Basic research?	NA
- list areas	
- Applied research?	NA
- list areas	
- Development & demonstration	Yes
- list areas?	<ul style="list-style-type: none"> • Demonstration of clean hydrogen refuelling hydrogen from natural gas • Demonstration of high well to wheel efficiency
- Other types of action?	No
- list other types	