

Workstream #1 - Technology Roadmaps and Test Bed UK

Progress Report 13th July 2010

Delivering Value Through Innovation & Technology

Team now up and running with several meetings held and good exchange of information



Team:

- Pilots: Jane Whewell (BIS), Neville Jackson (Ricardo)
- Crew: Steve Faulkner, Dave Heaton, Robert M. McDavid (CAT), Nick Fell (TATA), Chris Walsh (Cenex), Jon Maytom (BIS), Denis Culloty (Leyland Trucks) + Allan McKenzie (SMMT)

Proposed Output:

- Create Commercial Vehicle and Off Road Low Carbon Road Map
- Promote the Test Bed UK concept and publish material to support UK Automotive R&D, Supply Chain and Manufacturing capability
- Update Passenger Car Low Carbon Vehicle Road Map

Approach:

• Based on TQM with 7 step process

Progress:

- Initial scoping meeting between pilots held on 23rd March
- Team meeting (conference call) held 16th April to clarify objectives
- Team meeting to address categories & roadmap 16th June in Leamington

Good progress made in developing Commercial & Off-road vehicle roadmap – Initial team view prepared & under review



Technology Roadmaps:

Objectives:

- To extend the idea of an industry consensus road map beyond passenger car towards commercial and off-road vehicles
- To establish a process on how these consensus road maps are created, how we can keep them relevant and how to make them widely available

Scope of Work/Approach

- Define objectives & process
 - Research/Collect existing material & views
 - Define categories & on-off road overlap

Arrange wider consultation with key UK stakeholders

Submit to Auto Council for review/adoption



Initial view of Commercial & Off-road vehicle rollout plan now prepared and under review before exposure to wider range of stakeholders



- Focus on route to low carbon rather than other features/commercial aspects
- Immediately clear that Commercial Vehicle/Off Road rollout plan more complex than passenger car
- Much more short term information available than medium/long term with clear focus on emissions rather than CO₂
- Have tried to learn as much as possible from all other work in this area
- Objective to keep it simple:
 - "If we can't summarise in one page in graphical terms it is too complicated for our wider audience"
- 2050 CO₂ reduction needs to be consistent with overall UK target
- Appreciation that in the short to medium term, trade-off between tailpipe emissions and CO₂ reductions will limit rate of progress in reducing CO₂
- Initial rollout plan presented in following slides:
 - Developed in stages with annotations to provide rationale and structure
 - Relatively complex but contains key technologies, timing & breakthrough requirements
 - Has similar structure to Passenger car rollout plan



Initial assessment of categories and duty cycles provides four main commercial/off road vehicle classifications:

































Progress with TestBed UK less advanced – initial definition and interactions under discussion

- Objectives:
 - Define in simple terms what "Testbed UK" means
 - Define & produce well structured material to promote Testbed UK
 - make this widely available
 - Research & collate information on activities planned/underway internationally
- Testbed UK has a wide range of interpretations:
 - "Co-ordinated demonstration of UK capability in new automotive technologies and services to define market/consumer feasibility & attract investment"





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