

Low Carbon Vehicles Innovation Platform

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The challenge

- UK has committed to 60% cuts in CO₂ emissions by 2050 Transport contributes c25% of UK CO₂ emissions and is growing
- Of this, road transport accounts for c80%
- Although average car CO₂ emissions are 13% down, 22% increase in the number of cars gives a 6% overall increase



Government action

- Energy White Paper ~ May 2007
- Low Carbon Transport Innovation Strategy ~ May 2007
- Set up of the Low Carbon Innovation Platform
- Review of emissions legislation ~ TBC?
- Public education programme ~ “Act on CO2”
- Use road fund licence to drive use of low carbon vehicles
- Procurement initiatives for fleets ~ DfT’s £50m LCV public procurement programme

Innovation platform goals

- Promote Low Carbon Vehicle research, development and demonstration in the UK
- To deliver:
 - Carbon reduction in domestic and international vehicle markets.
 - Faster “standard market driven” introduction of low carbon vehicles.
 - Helping to position UK automotive sector to benefit from growing demand - domestic and international

Activity so far

- Support technologies with clear route to market within 5-7 years.
- Apply to road based vehicles
- Can be full vehicles or in-vehicle systems or components, OEM or after market fit.



Early Results

- **Over £23m of public funding = more than £52m of innovative, high quality projects.**
- **Range of themes:**
 - Lightweighting
 - Internal combustion engine efficiency
 - Hybrids
 - Energy Storage
 - Hydrogen Fuel Cells
 - Aerodynamics
- **16 consortia; over 75 partners**

Announcing...

The LCV Integrated Delivery Programme

- Launch autumn 2008
- £70m public sector co-funding secured from DfT, EPSRC, AWM and us... ambition to grow further before autumn
- Focusing on innovative medium/longer term road transport.
- Working with EPSRC to identify research for seed programme
- Governance structure being developed
- **Announcing consultation phase today**

Integrated Delivery Programme

- Spanning innovation landscape - strategic research, collaborative R&D and “real world” demonstration.
- Industry-driven but with academic and independent representation for commercial focus.
- A holistic and integrated approach
- Applying expertise of IMRC and leading universities
- Allowing continued adoption and promotion of independent external research.

Our vision

***For the UK to be
a global leader in innovation
and a magnet for innovative businesses,
where technology is applied rapidly,
effectively and sustainably to create wealth
and enhance quality of life.***

Technology Strategy Board

Driving Innovation

www.innovateuk.org

The background of the slide is a dark, abstract composition. It features several overlapping, semi-transparent geometric shapes, primarily triangles and quadrilaterals, in shades of vibrant green and deep red. These shapes are arranged in a way that suggests depth and movement, with some appearing to be in the foreground and others receding into the background. The overall effect is a dynamic, futuristic aesthetic that complements the organization's focus on innovation.