

Greening Vehicles – Challenges and Opportunities

**Stafford Constituency's Future Skills Needs in the
Low Carbon Economy**

**Staffordshire University
19th March 2010**

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Managing Director, Low Carbon Vehicle Partnership**

Low Carbon Vehicle Partnership

Accelerating a sustainable shift to low carbon vehicles and fuels in the UK

Stimulating opportunities for UK businesses

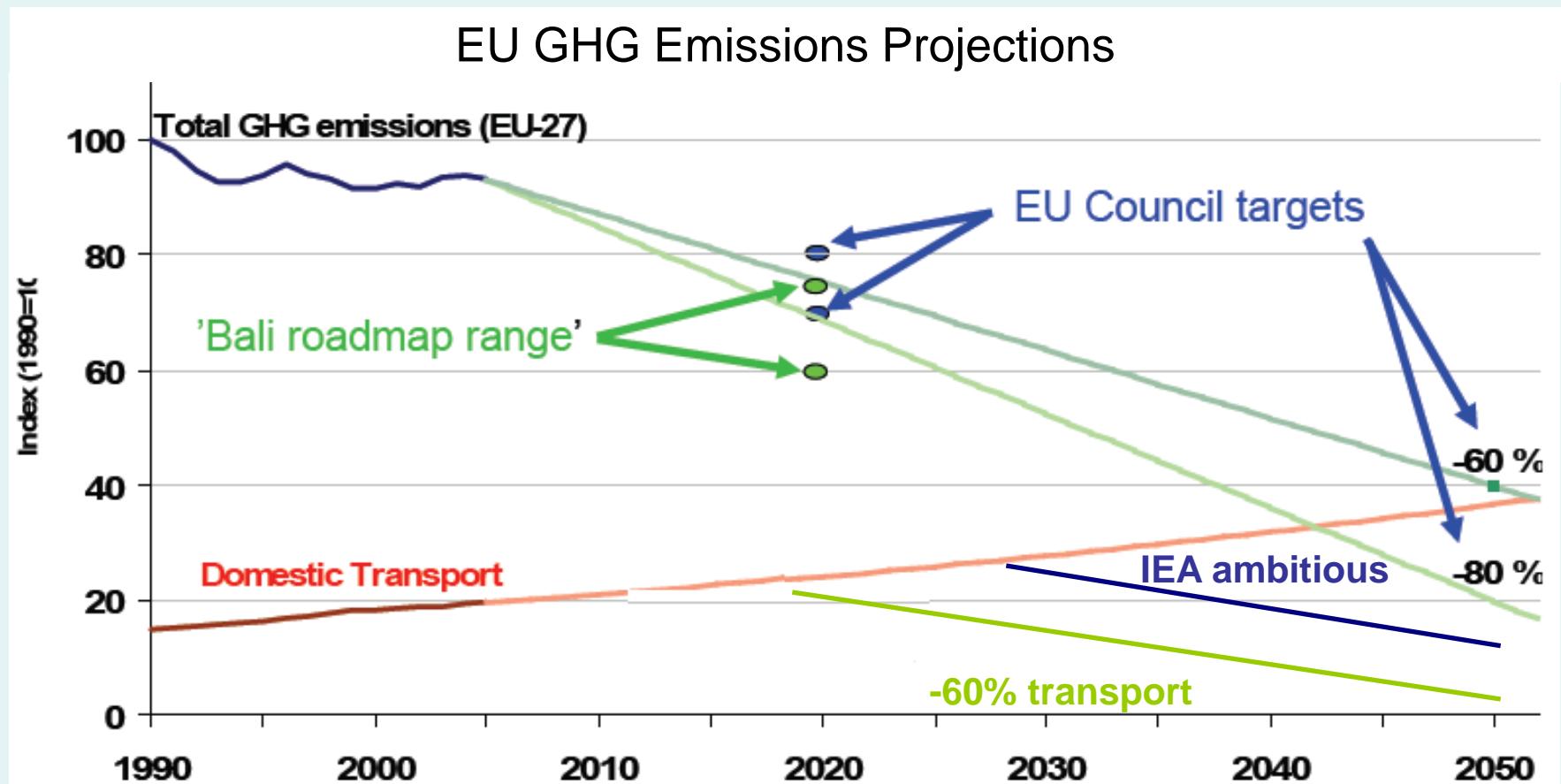


Outline

- ❑ The scale of the challenge & opportunity
- ❑ The technology roadmap for low carbon vehicles
- ❑ UK capabilities in low carbon vehicles and fuels
- ❑ Challenges for low carbon automotive SMEs
 - & how LowCVP helps
- ❑ Opportunities for Stafford to contribute & benefit

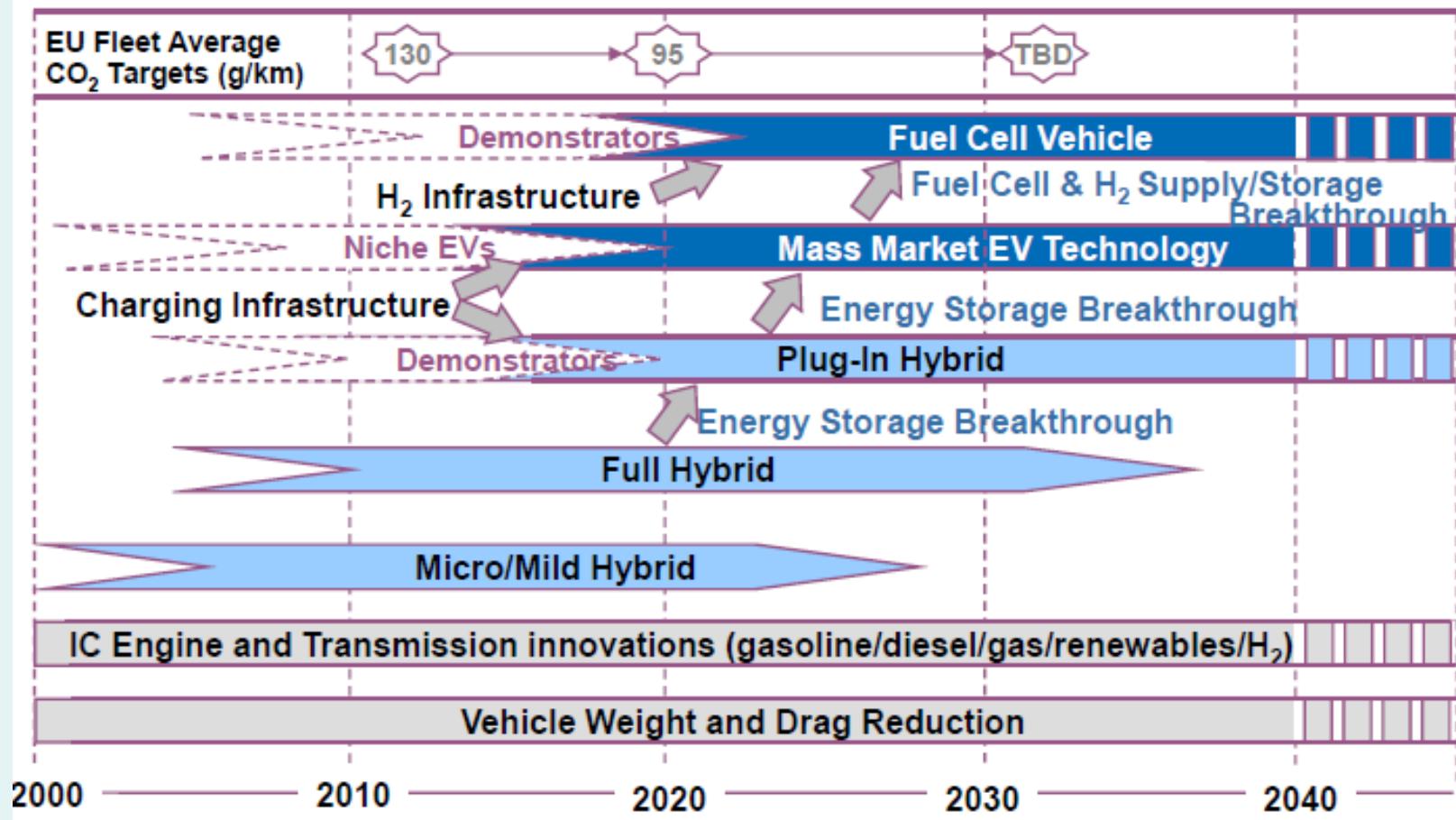


EU domestic transport emissions will consume the available CO₂ budget on current trends. Even ambitious scenarios leave inadequate headroom for other sectors

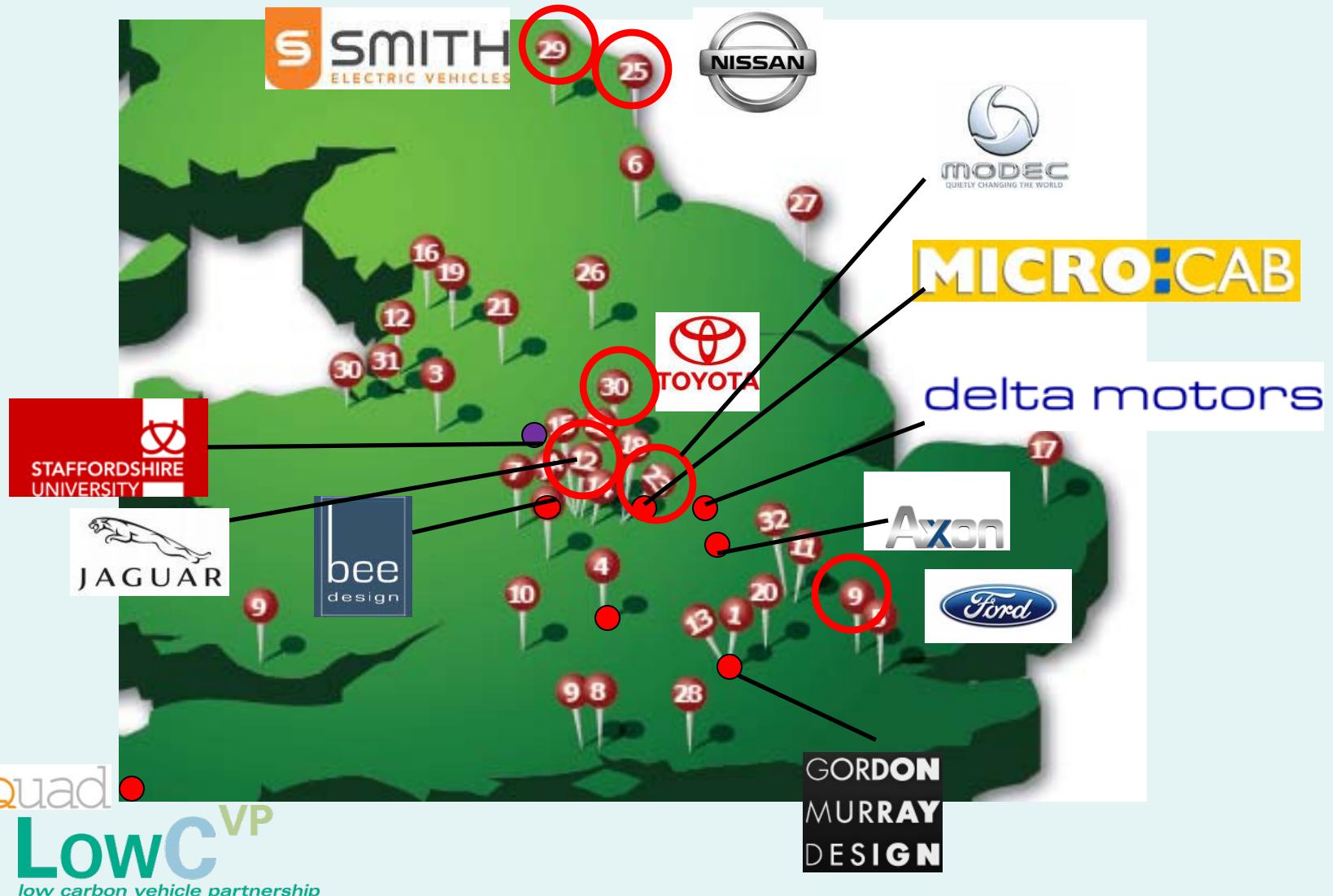


There is emerging consensus on the future evolution of low carbon car technologies

NAIGT low carbon car technology roadmap

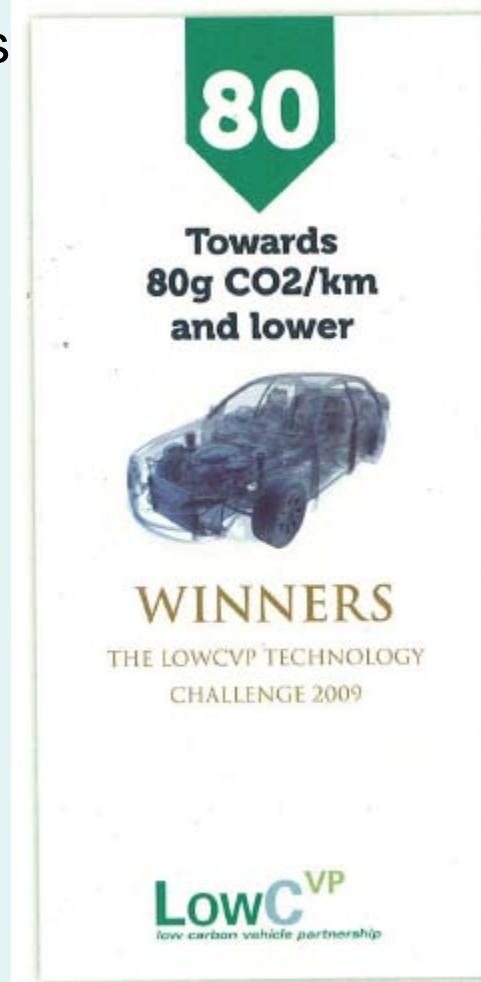


*The UK has strong and growing capabilities in low carbon vehicle manufacturing and technology
– much is centred on the Midlands*



UK Low carbon automotive SMEs face formidable challenges in bringing product to market

- High development & validation costs
- Limited access to R&D grants & availability of match funding
- Challenging route to market with restricted access
 - No Tier 1 & limited OEM R&D
 - Long development cycles
- Restricted access to investment capital
 - Incremental technologies less appealing
 - Low margin sector
- Business expertise
 - Limited incubator access



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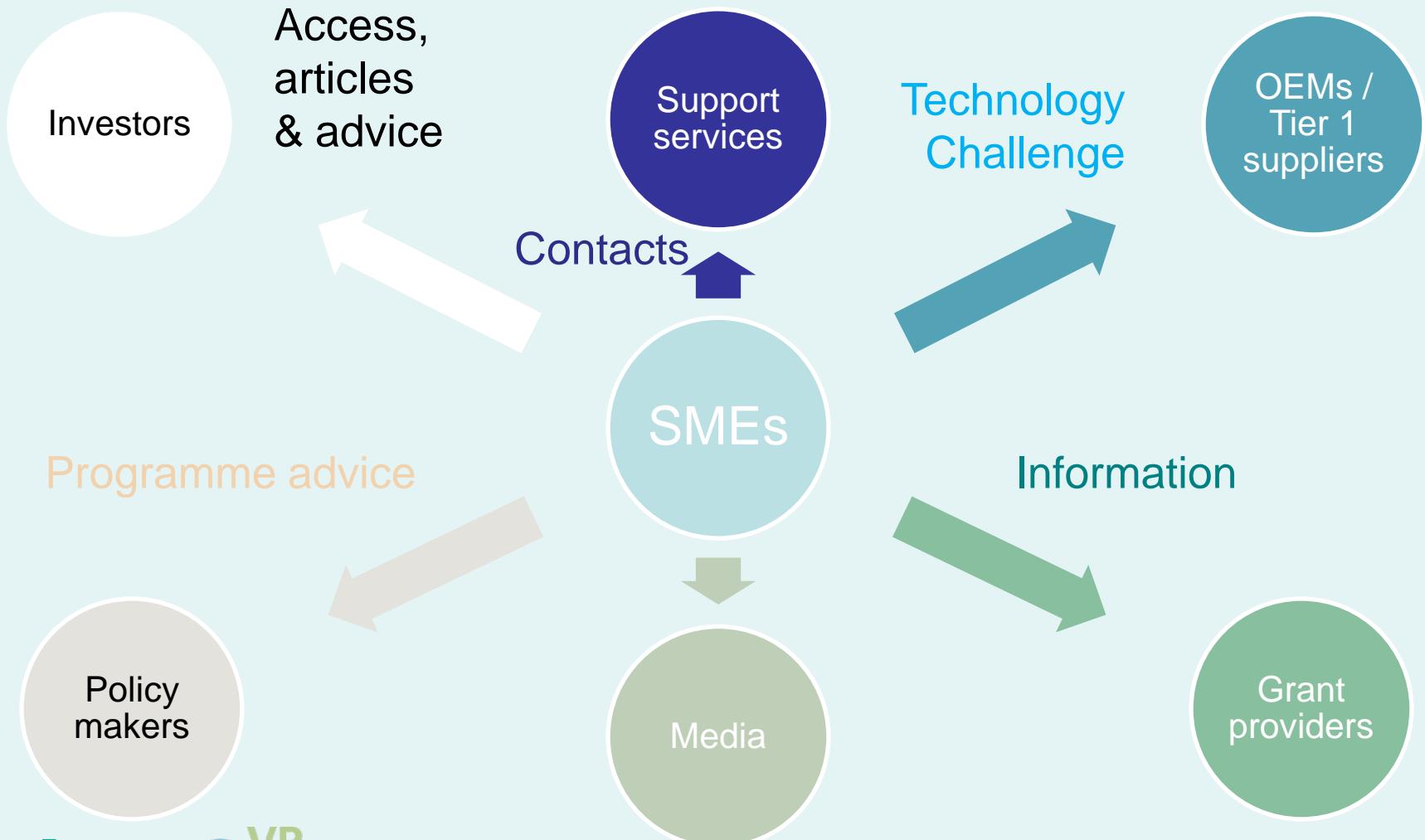


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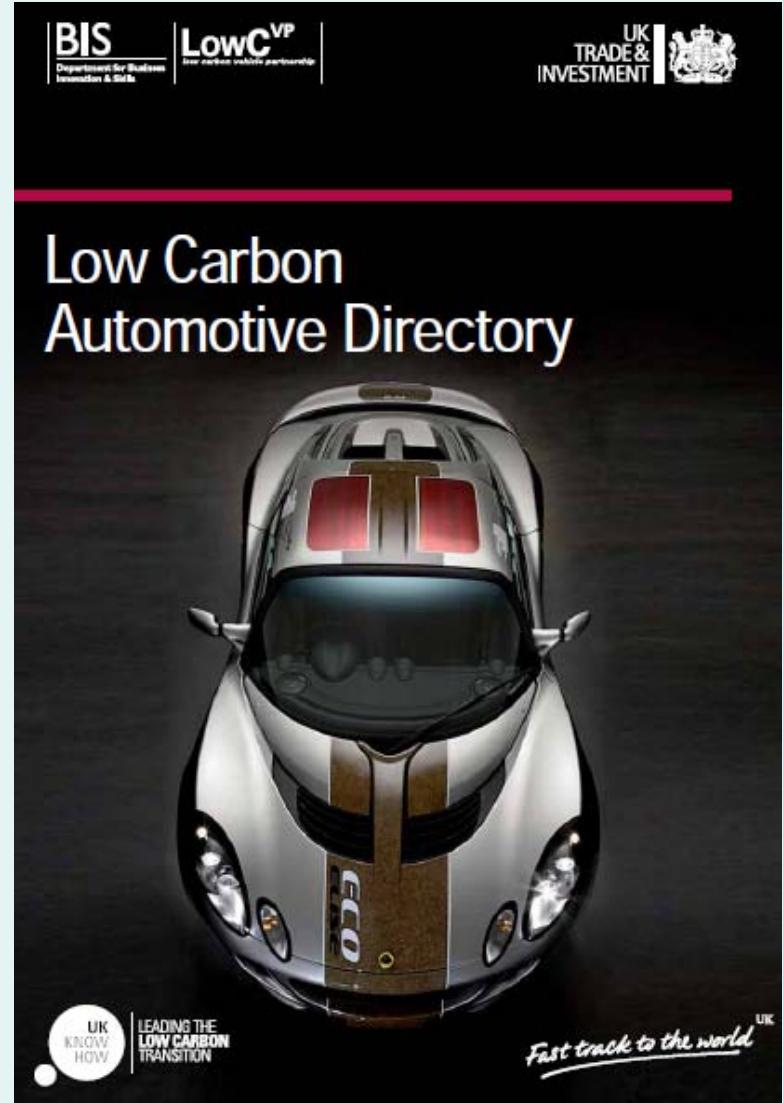
LowCVP Technology
Challenge Winners

LowCVP provides a networking role between low carbon automotive SMEs & key partners



The shift to low carbon vehicles provides new opportunities for Stafford & the University

- Specialist low carbon automotive services
 - Manufacturing robotics
 - Knowledge Transfer Partnerships
 - Automotive engineering support
 - Energy Efficient Motorsport
- Analytical / engineering testing / modelling support
- Business support
- Training courses
- Low carbon vehicle grad/post-grad. qual.



Thank you for your attention

Any Questions?

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The Low Carbon Vehicle Partnership

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