

# Technology Strategy Board

Driving Innovation

## Low Carbon Truck Demonstration Trial

A current £9.5m competition for funding

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Low Carbon Vehicles Innovation Platform, TSB

# Technology Strategy Board

- The UK Innovation Agency investing in business innovation
- Working across business, universities and government
- Investment of £1bn over the last 3 years



# Low Carbon Vehicle Innovation Platform Goals

- UK Auto Sector Business Growth



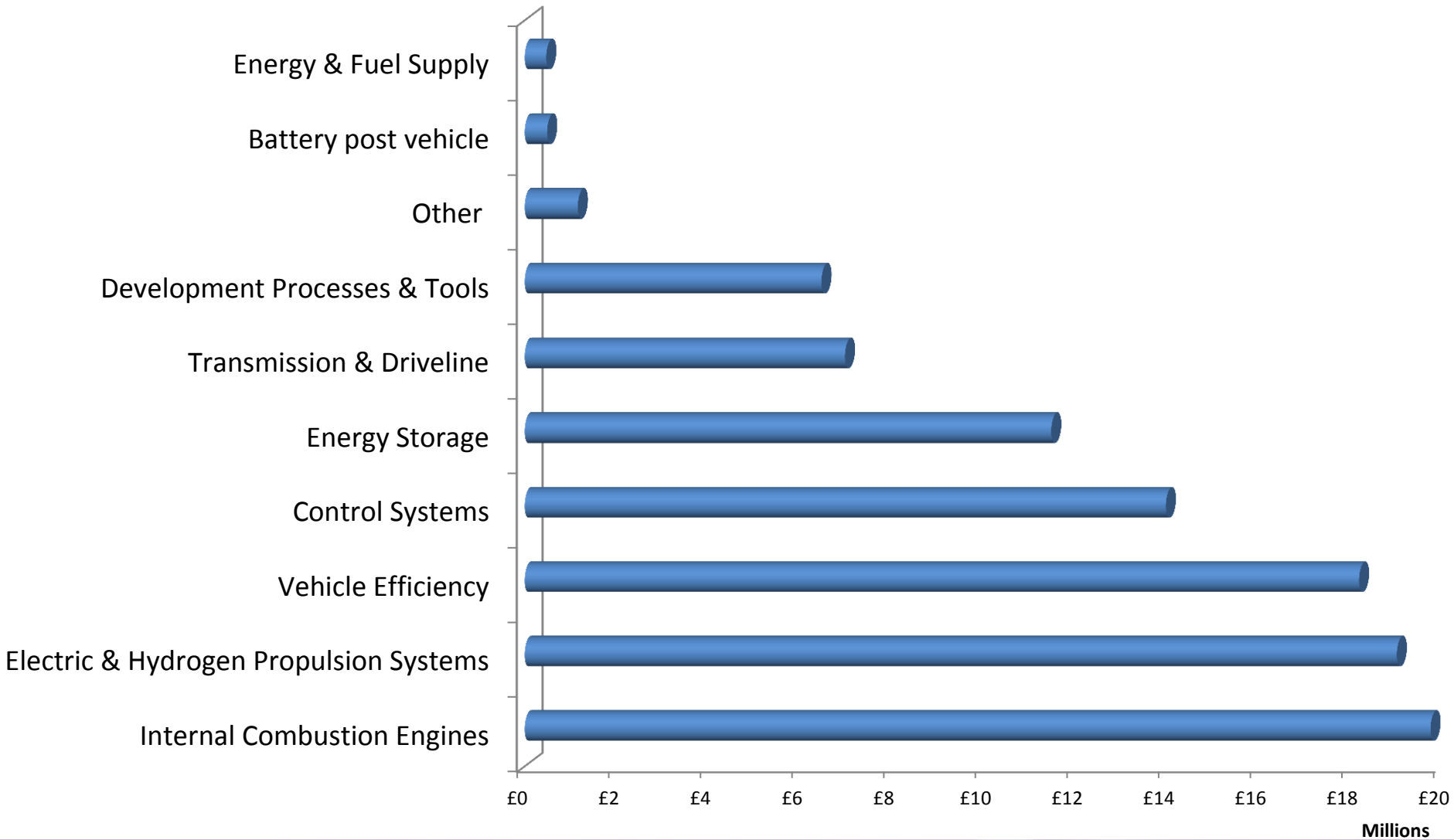
- Accelerate introduction of LCVs



- Reduce transport emissions

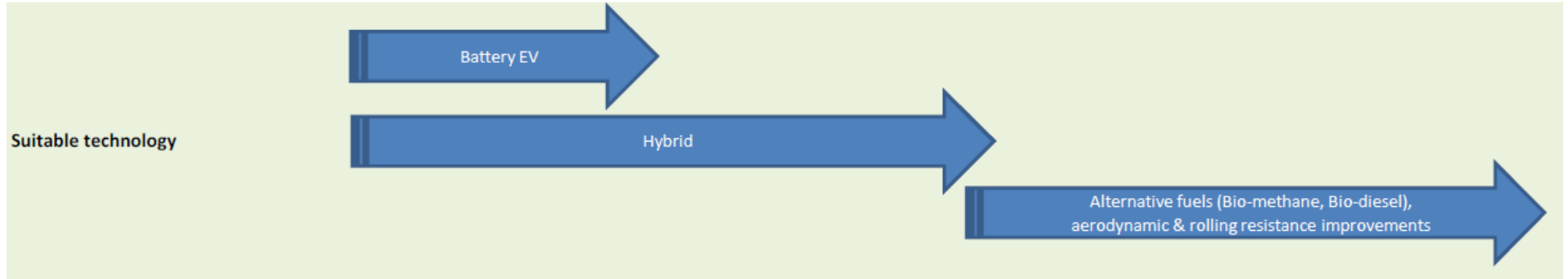


## Grant by technology area



- 2050 CO<sub>2</sub> targets mean
  - ALL transport emissions HAVE to be dramatically reduced
  - Government aim to also improve business resilience
- DfT researched options for reducing HGV CO<sub>2</sub>
- Technology Strategy Board consulted since Autumn 2010

| CV application type | Light duty         |      |     | Heavy duty                          |     |                               |
|---------------------|--------------------|------|-----|-------------------------------------|-----|-------------------------------|
| GVW class           | <7.5T              | 7.5T | 12T | 17T                                 | 26T | 44T                           |
| Typical usage       | Short range, urban |      |     | Intra-urban, delivery, distribution |     | Long distance, constant speed |



|  |   |  |   |  |
|--|---|--|---|--|
| <b>Merits of suitable technology</b>             | Most gains made in stop-start use                                 | Hybridisation may permit engine downsizing for benefit at constant speed |   | Minimum impact to vehicle or operation |
| <b>Commercial and operational considerations</b> | London congestion charge exemption, Zero-emission zone operation, | Travel distance beyond EV range?   | Impact on payload of technologies with batteries or larger/extra fuel tanks | Operator focus on cost per mile        |

### High-level aims:

1. Reduce long-distance HGV tailpipe CO<sub>2</sub>
2. Opportunity for operators to trial new technologies over 2 years
3. Kick-start market adoption of cleaner CVs
4. Initiate installation of methane refuelling infrastructure

SoS (Hammond) sign-off Autumn 2011

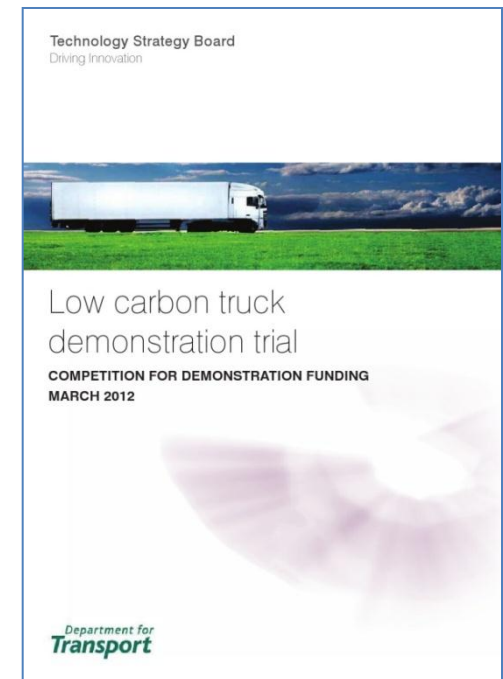


## Focii:

1. Lower-carbon fuels for long-distance HGV's.  
Tech neutral but technologies need to be market ready  
Focus on gas (NG, enabling BM in the longer term)
2. Other technologies for regional & local CV's
3. Refuelling/charging infrastructure

## Method:

- Collaborative R&D
- Competition for funding
- Business led consortia





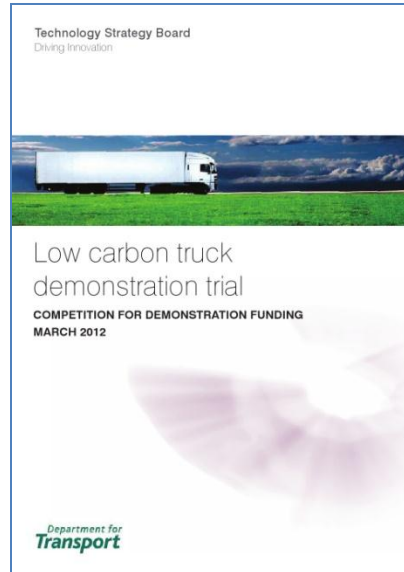
## Funding

- £8m DfT + £1.5m TSB = **£9.5m**

## Timing, Status

- Info Day 3<sup>rd</sup> April. 120 industry delegates.
- **Competition now Open**
- **Competition Briefing Day 9<sup>th</sup> May**
- Registration closes noon 13<sup>th</sup> June
- Application closes noon 20<sup>th</sup> June
- Successful consortia announced August 2012

# Questions?



<https://connect.innovateuk.org/web/low-carbon-truck-demonstrator-trial>

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