

The cultural challenge

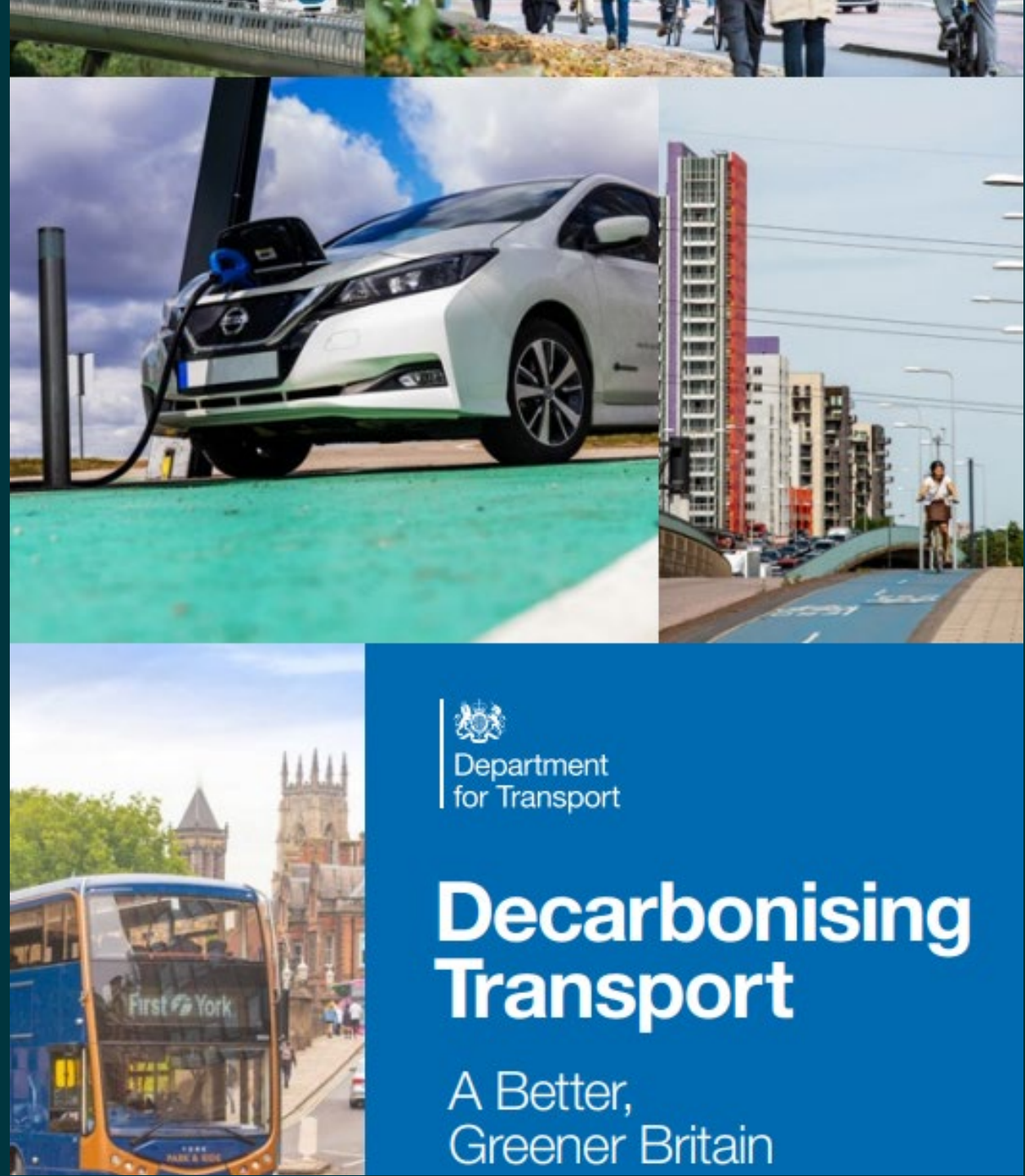
Switching commercial fleets to electric

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The need to transition

Policy commitments:

- End of sale of petrol and diesel cars and vans by 2030 2035
- All cars and vans emission-free by 2035
- Heavy Goods Vehicles:
 - 2035 for vehicles up to and including 26 tonnes
 - 2040 for vehicles greater than 26 tonnes



Department
for Transport

Decarbonising Transport

A Better,
Greener Britain

The cultural challenge



Budget

- Fuel costs
- Facilities
- Capital
- TCO and replacement planning



Depot

- Grid capacity
- Infrastructure – cabling / types of charging
- Parking requirements
- Layout



Parking and refuelling

- Where
- How often
- Standard operating procedures
- Client charging
- On-route charging



Operational impact

- Driver training including behavioural change
- Support training
- Range and payload
- Operational practices
- Maintenance



Technology

- HGVs
- Hydrogen
- Alternative fuels
- Smart charging
- Back office software
- V2G

Case studies



- DEFRA – Department for Environment, Food and Rural Affairs
- Leeds City Council
- EVRI



The methodology for change

- 1** Baseline fleet, infrastructure and operations
 - Vehicle assessment
 - Infrastructure assessment
 - Operational assessment

- 2** Transition scenario development
 - 'As is' / ICE to ICE
 - Fast transition
 - Transition in line with replacement policy

- 3** Costed options and funding
 - Capex and Opex
 - Infrastructure costs
 - Funding options

- 4** Pilot / trial
 - Vehicle onboarding
 - Implementation of fuelling infrastructure
 - Monitor and learn

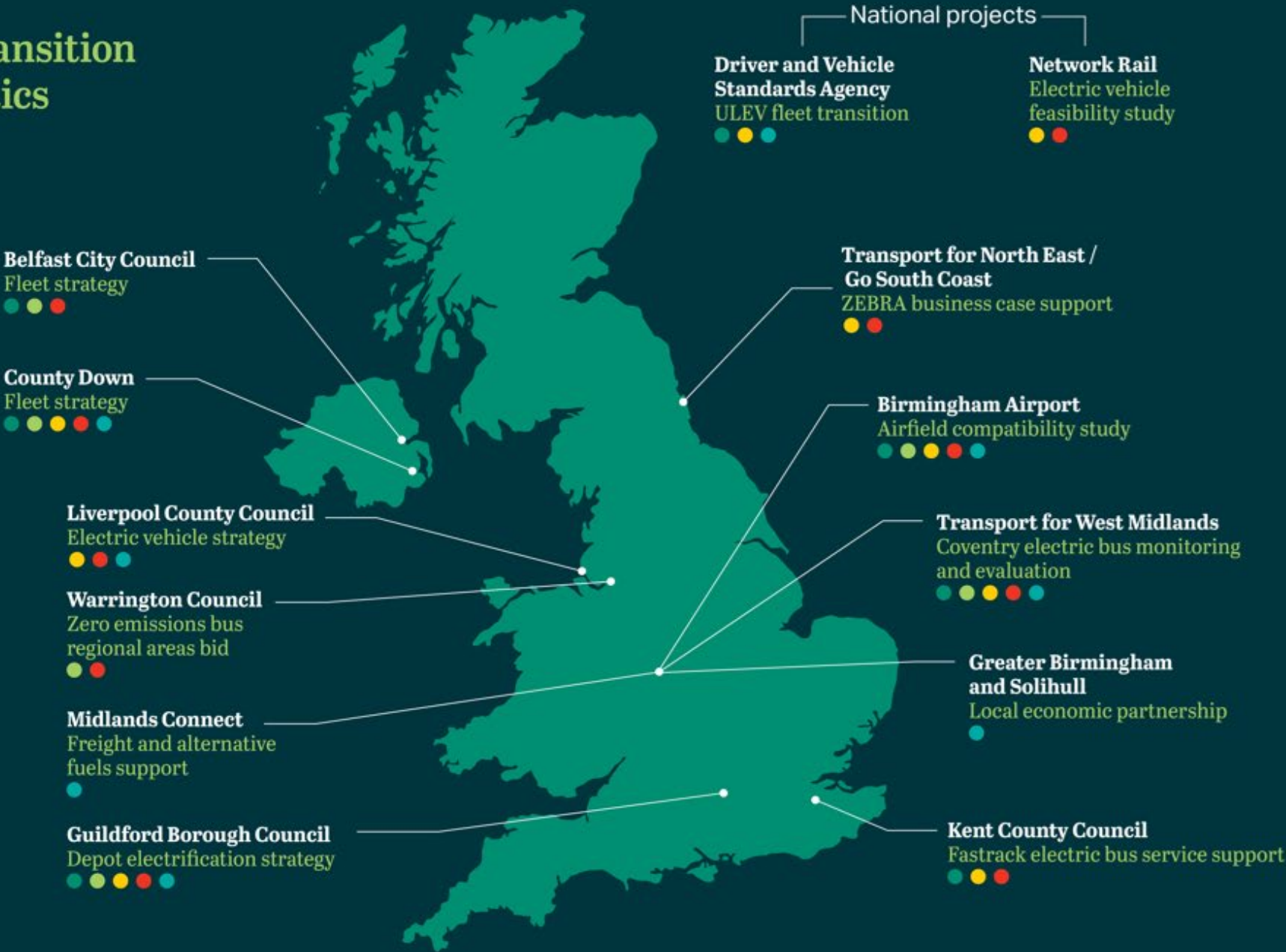
- 5** Implementation
 - Additional infrastructure
 - Deployment of new vehicles

- 6** Annual review of progress
 - Operational performance
 - New technology
 - Assumption amendments

Selection of AECOM's fleet transition sustainable freight and logistics project experience

AECOM has provided specialist support and guidance for a wide range of clients, helping to migrate operations to zero emission services.

-  Fleet review
-  Data analysis
-  Charging infrastructure
-  EV transition strategy
-  Alternative fuels



Conclusion

- Fleet operators are very experienced in operating and managing traditional ICE fleets
- The switch to BEVs requires a cultural change to adapt to the new ways of working and this must be considered within any planning
- A programme approach is required to manage the change
- There is no 'one size fits all approach'



At AECOM, we recognise the positive impact of low and zero emission vehicles on health, environment and business.



Thank you.

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