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# LIVELABS2

## Decarbonising Local Roads





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## Live Labs 2: Decarbonising Local Roads

- 3 year, £30million, UK-wide programme
- Funded by DfT
- Delivery element runs until March 2026
- Further five years of monitoring & evaluation
- Our goal - to test novel approaches to decarbonising the design, construction, maintenance of local roads





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## Scale of the challenge

- Big focus on reducing transport ‘tailpipe’ impacts
- Less so on decarbonising local roads – the ‘hidden carbon’?
- Yet £2bn spent every year on local road maintenance in the UK
- Significant but unquantifiable sum on local construction
- The highways sector is now responding to the challenge



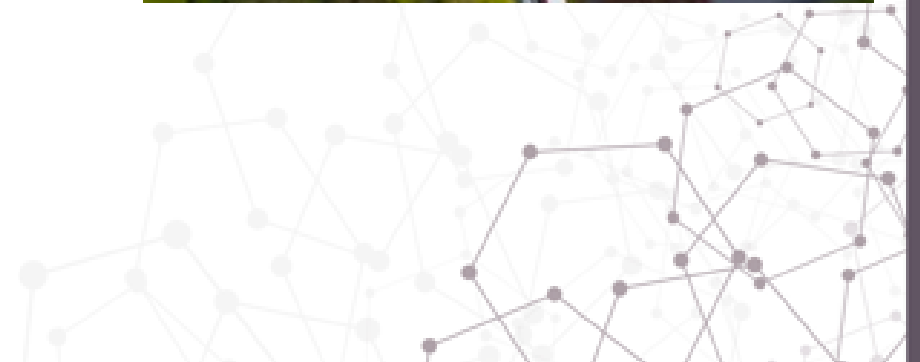
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## The approach

- Laser sharp focus on carbon reduction across the whole lifecycle of road assets & operational portfolio
- Tackle technically challenging Scope 2 & 3 carbon emissions
- Clear method for carbon data baseline & monitoring
- Monitoring, evaluation & learning





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## The Live Labs 2 selection process

- UK wide competition
- Sought ambitious, local highways authority-led partnerships
- Dragons' Den received pitches from long list
- Agreed seven projects grouped by four themes
- Supported to produce SOBCs - agreed last month



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## The seven Live Labs

- **Devon County Council:** A382 – Carbon Negative Project
- **East Riding of Yorkshire Council** (with DoI Northern Ireland; Cambs CC; Derbyshire CC; Hull City; Lancs CC; Oxfordshire CC; Westminster City; York City): High Visual Efficiency for low carbon lighting – decarbonising street lighting
- **Liverpool City Council** (with Aberdeen City; RB of Kensington & Chelsea; Newcastle City): ‘Ecosystem of Things’ driving a low-carbon economy
- **N. Lanarkshire Council:** UK Centre of Excellence for Material Decarbonisation in Local Roads
- **S. Gloucestershire Council & West Sussex County Council:** Greenprint – a net carbon-negative systems model for green infrastructure management
- **Transport for West Midlands:** Highways CO2laboration Centre for materials decarbonisation
- **Wessex Partnership** (Somerset CC, Cornwall Council, Hampshire CC): Wessex Live Labs – Net Zero Corridors

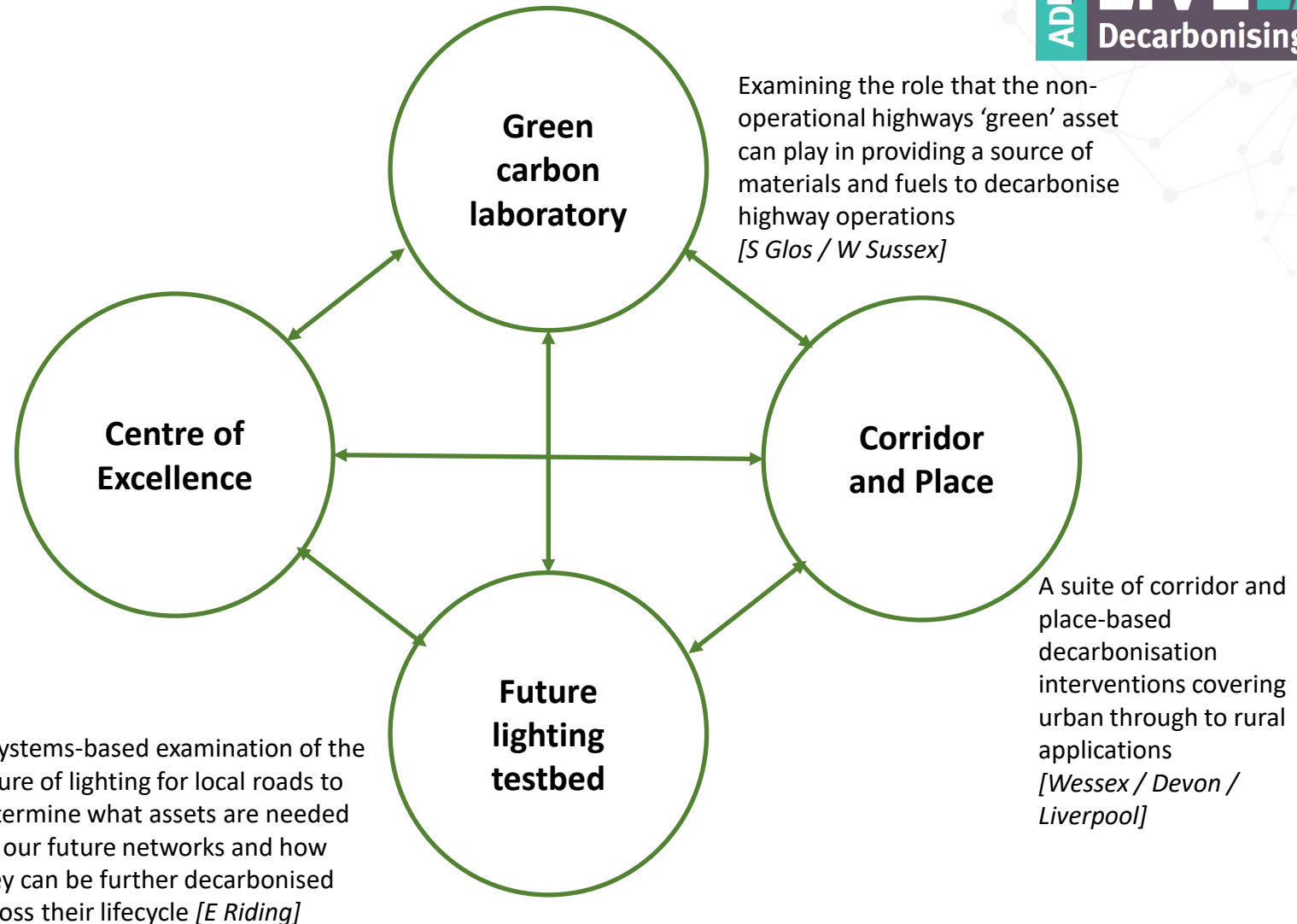


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A hub for research and innovation for decarbonisation of local roads materials  
*[N Lanarkshire / TfWM]*

## Four interconnected thematic areas

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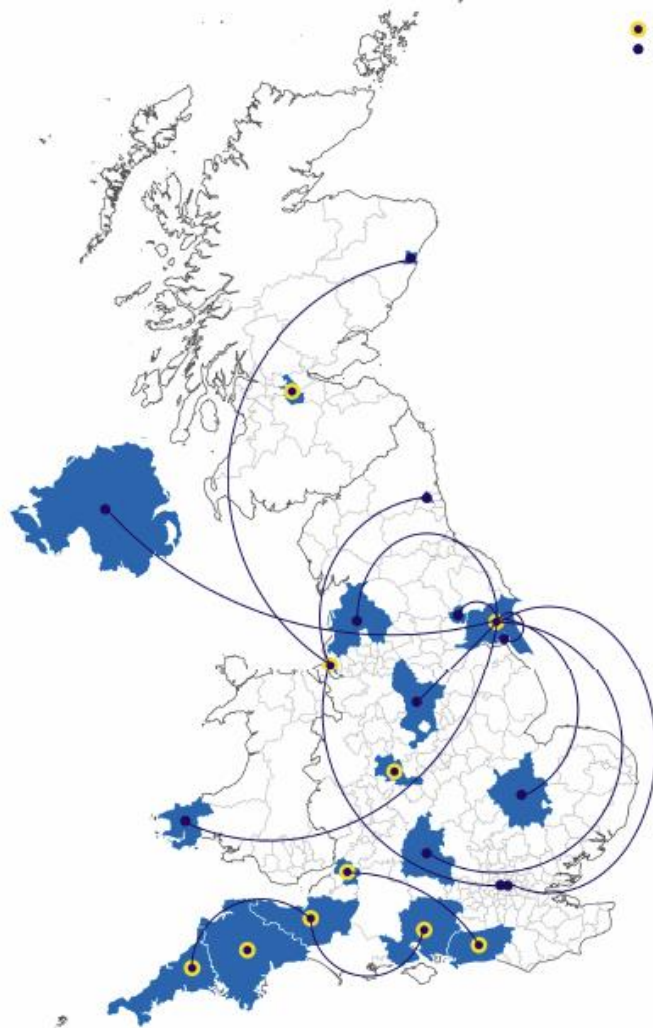


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Live Labs 2  
Winning Projects



● Lead Organisation  
● Partner Organisation



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Location &  
partnership  
reach

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0 50 100 Miles

Map Created By: Roads Geography & GIS Data Team  
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## Governance and next steps

- Live Labs now live!
- Commissioning Board – 18 active programme ambassadors with strategic oversight
- Programme Management Team fully established
- M&E Phase 1 completing & Phase 2 being commissioned
- Aim to share findings/progress in real time



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## Live Labs 2: Decarbonising Local Roads

[www.adeptnet.org.uk/livelabs2](http://www.adeptnet.org.uk/livelabs2)

