





# A382 Carbon Negative Road

A Presentation on Devon's Live Lab







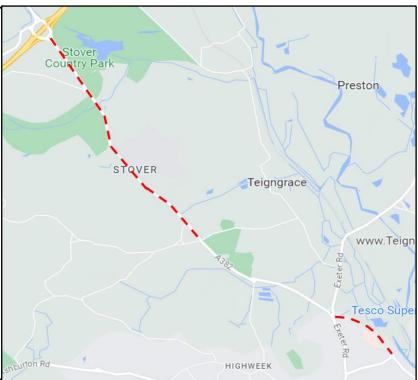
### **Overview of Scheme**











Improvements along 2.5 km stretch between Drumbridges and Forches Cross

New 0.4 km Jetty Marsh Link Road

3 new roundabouts

New bridge and culverts

Drainage improvements

Approximately 3 km of new shared-use pathway





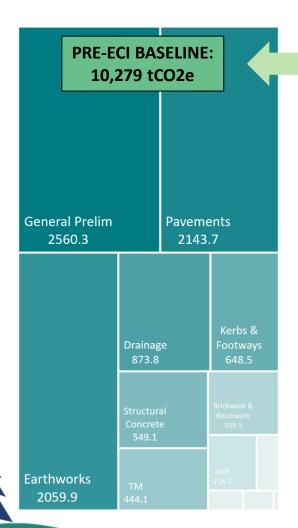


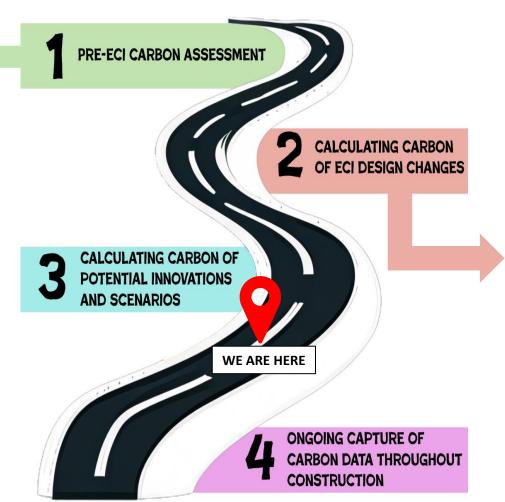
### Road to Carbon Negative











Design Choice	BAU Approach	Our New Approach	Carbon Saving (tCO2e)
Carriageway width	10 metres wide	8.3 metres wide	~ 249
Kerbing	Kerbs both sides	Removed where drainage and shared-use path allow	~ 38
Forches Cross	Shared use bridge	Bridge removed and replaced with parallel crossing	~ 208
Earthworks	Substantial earthworks/ embankments throughout	Vertical alignment amended to reduce earthworks	TBC
Traffic management	Keep traffic running along route throughout	Discussions with contractor on options for closures and study of the effects	TBC
Bat protection	2 metre bat culvert	Removed and replaced with bat hop-over	~ 18







#### **Innovations Overview**







**FUELS** 













## **Project Timeline**









Planning permission awarded



Devon County Council declares a climate emergency Scoping options – decision to pursue two-stage ECI

Contract awarded to Milestone Infrastructure



Live Labs 2 'Dragons Den' pitch

2017

2019

2021

Jan 2022

Oct 2022



Works commence on site subject to funding

Vegetation clearance and tree translocation begins on site

tree translocation begins on site

Pre-ECI carbon baseline established

Live Labs 2 business case submitted



May 2024



Jul 2023

**Apr 2023** 



Biochar production on site Construction completed on the scheme

End of 3-year Live Labs 2 programme



5-year extended monitoring and evaluation period

**Summer 2024** 

Spring 2026

Spring 2026

2026-2031





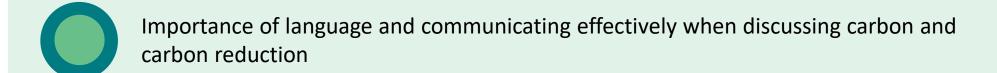


#### **Lessons Learned**



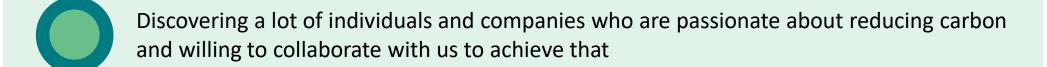
























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**Thank You** 





