



CHALLENGE 4

GREENER TRANSPORT INFRASTRUCTURE



CHALLENGE STATEMENT

Design or produce cost-effective solutions for clean transport infrastructure.

CHALLENGE DESCRIPTION

We aim to contribute to an urban mass rail-based transit system that enables small to medium sized cities and towns to afford a clean, reliable and accessible connected public transport system.

This will decrease air pollution and emissions and improve connectivity; putting the West Midlands at the forefront of a mass transit system, enabling worldwide sales opportunities. The critical success factor to achieve this is in improve affordability, with a target construction of under £10 million per kilometre of track form.

SOLUTION EXAMPLES

Solutions that address this challenge could include:

- Reduce destruction and disruption of utilities.
- Decarbonise the materials being used.
- Build the track itself.
- Reduce the infrastructure requirements of building and operating the system, such as onboard signalling, control systems, turnouts, infrastructure required to produce cycling safety schemes, communication systems, drainage systems and more.
- Any other innovation which could support the target construction of under £10m per kilometre of track form.