

HS2

Buckinghamshire Council

Transport, Environment and Climate Change Select Committee

10 March 2022

Constructing HS2 in Buckinghamshire



Responsible for the delivery of:

- The Colne Valley Viaduct and the Western Valley Slopes
- HS2's Chiltern Tunnel
- Five shafts along the route of the tunnel
- The north portal of the tunnel, located near Great Missenden

Responsible for the delivery of:

- HS2 between Great Missenden and Turweston in Buckinghamshire
- A number of key design features inc Wendover Green Tunnel, Small Dean / Wendover Dean Viaducts
- The interface with East West Rail and the HS2 Infrastructure Maintenance Depot
- Stoke Mandeville Relief Road



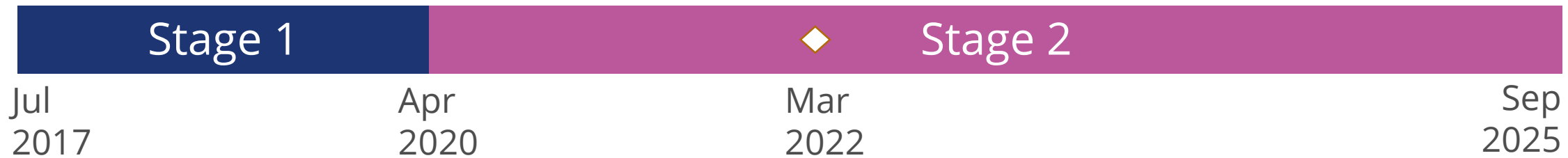
HS2

Align works update

David Emms

Project Client, HS2

Where are we now?



◆ Contract Award

➤ Mobilisation

➤ Scheme Design

➤ Stage 2 Estimate

➤ Stage 2 Programme (c~4.5 years to handover)

◆ Notice to Proceed

➤ Detailed Design

➤ Construction



Align Main Works (C1)

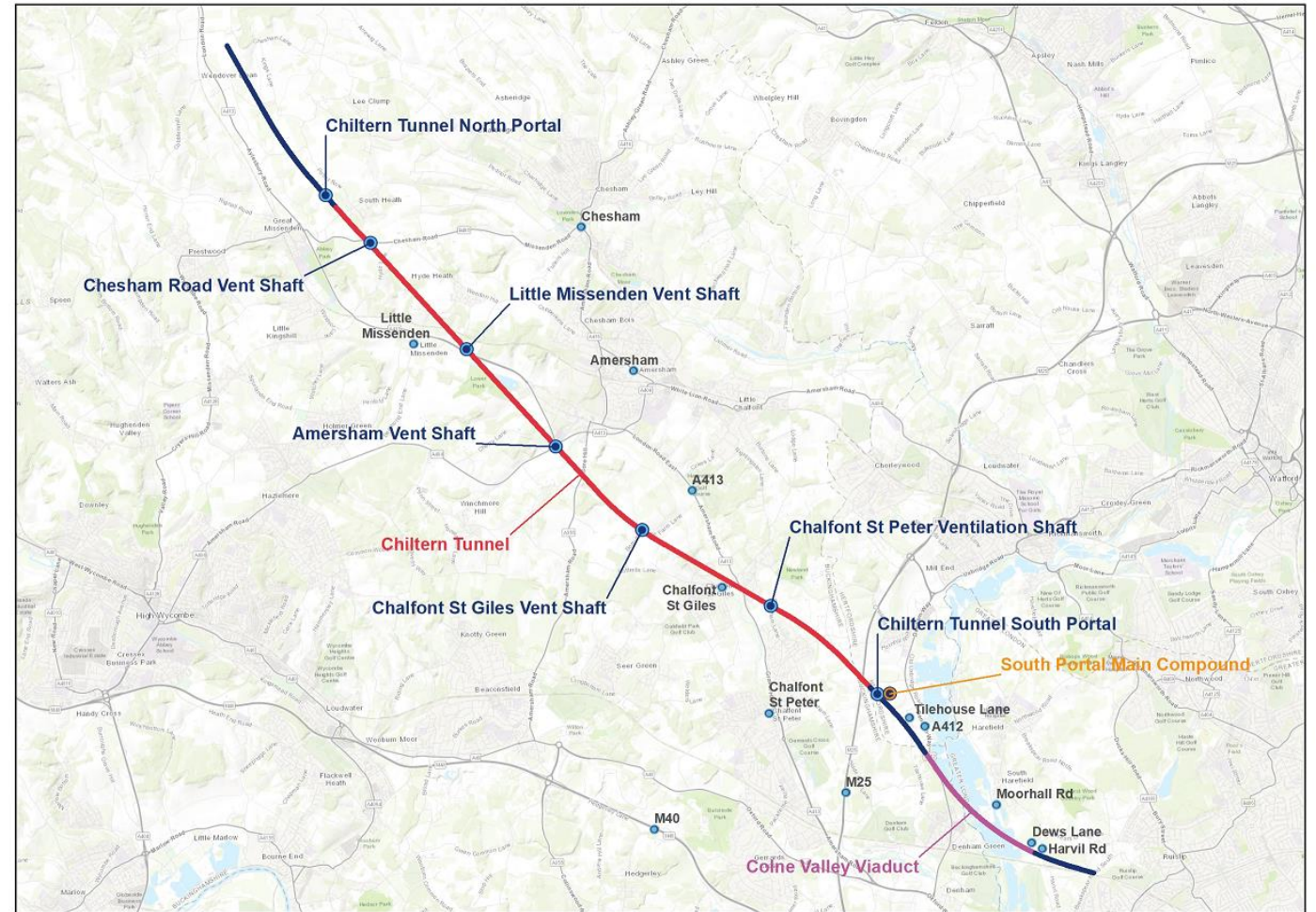
C1 consists of 21.6km of high speed rail infrastructure :

- 3.37km viaduct
- 16.04km twin-bored tunnel
- 5 shafts handling both intervention and tunnel ventilation
- The Align South Portal main site is located to the west of London just inside the M25

+ 500 C1 Align IPT Staff

In total, + 1330 people on site

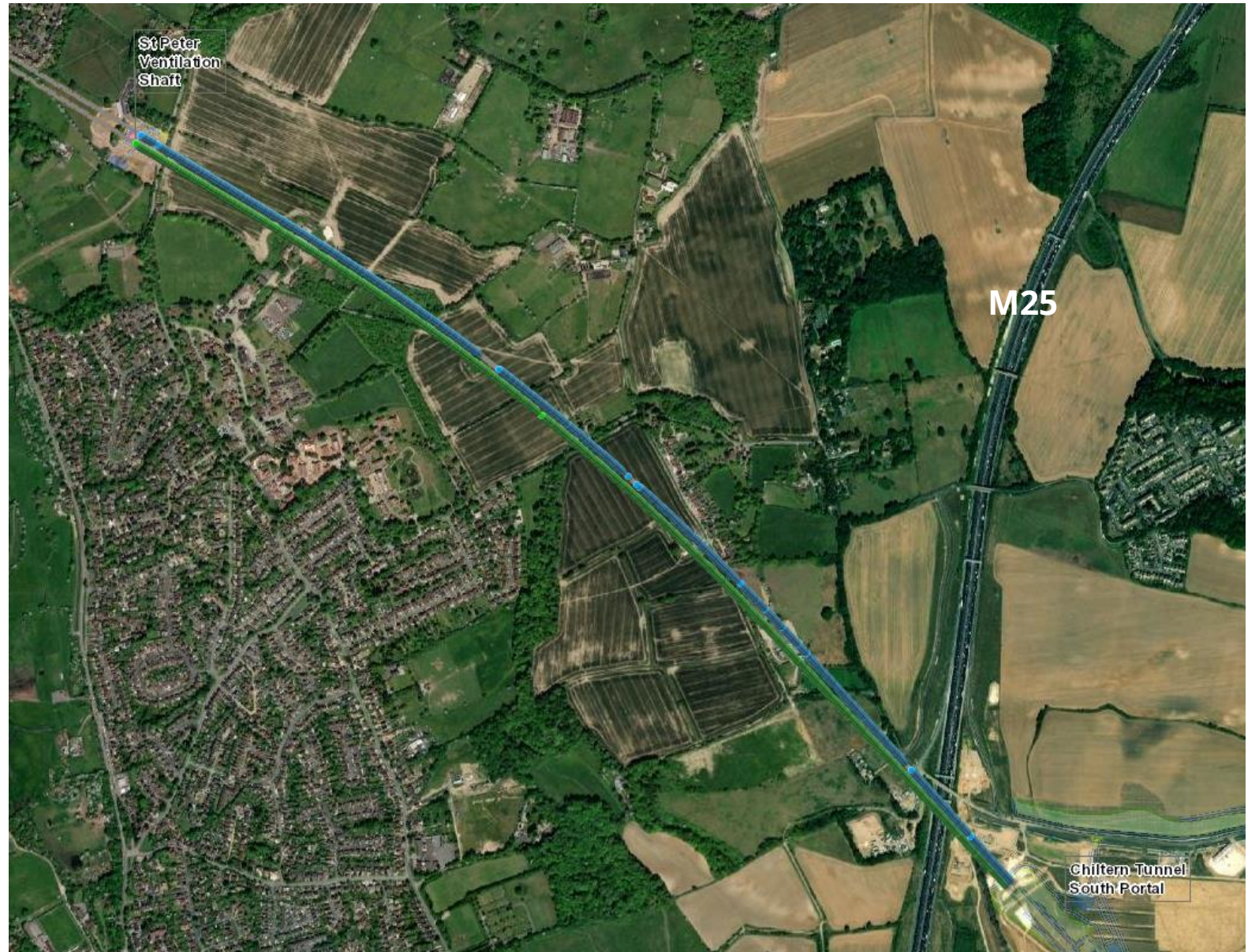
More than 80 subcontractors



Align Main Works

What to expect in 2022:

- Florence and Cecilia have both tunnelled 2.8km each
- Currently breaking through the Chalfont St Peter Vent Shaft
- By the end of 2022 both TBM will be approaching Amersham



Align Main Works

What to expect in 2022



Viaduct deck gantry launches in Bucks, May 2022 and will lay deck as far as Denham Water-ski Club



Construction of viaduct piers will continue in Bucks between the Hertfordshire border and the Colne River

HS2

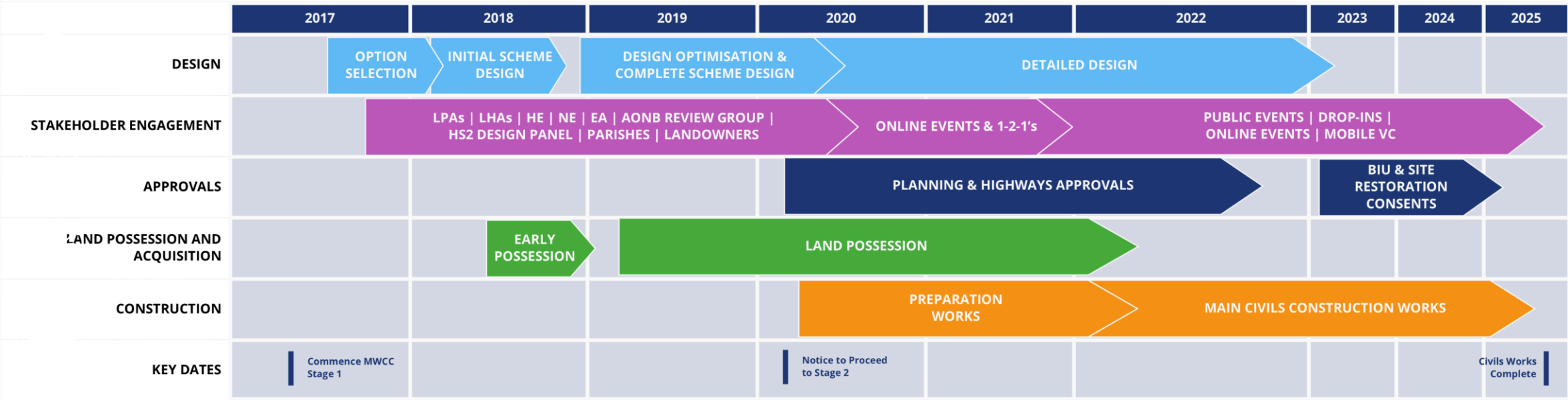
EKFB works update

Rohan Perin

Project Client, HS2

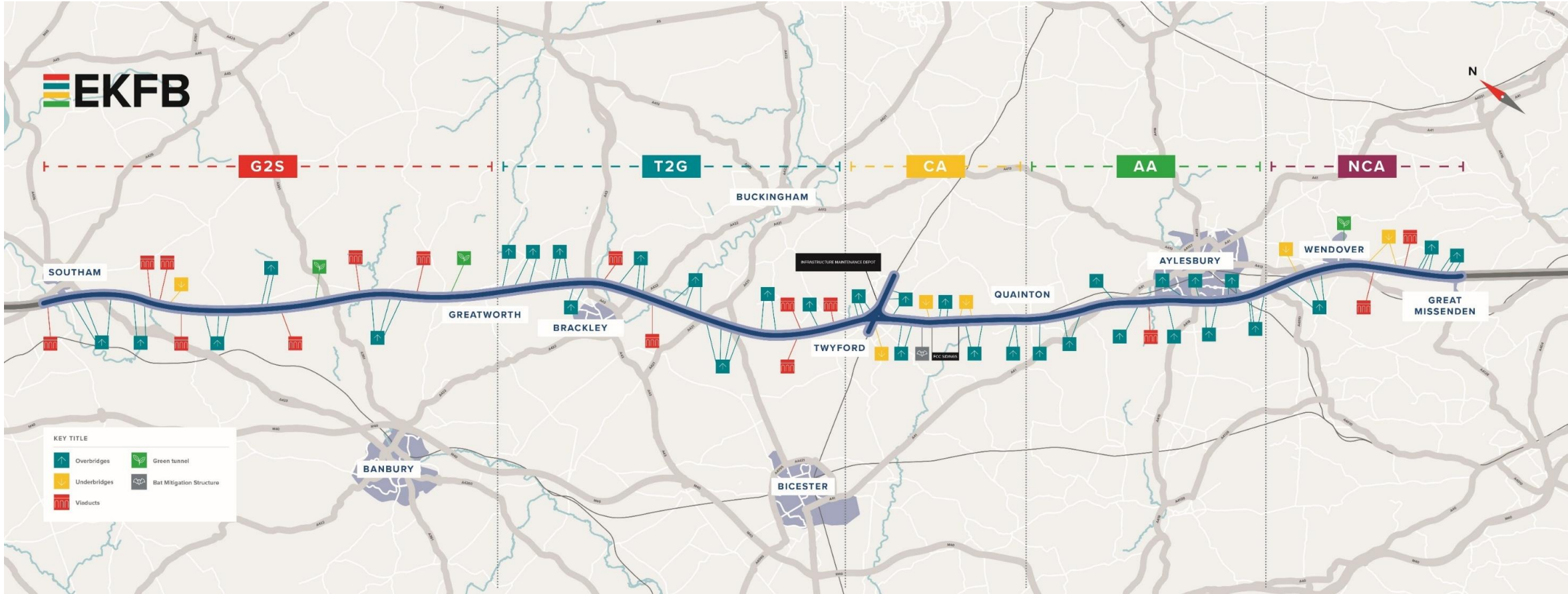
EKFB Overview

Project Timeline



EKFB Main Works

Project Delivery Areas



EKFB Main Works

What to expect in 2022:

- Completion of site infrastructure
 - Compounds
 - Internal site access roads
 - Temporary bridges
 - Temporary drainage networks
- Bulk earthworks
- Import of bulk materials by rail
- Construction of viaducts, bridges and highways



Initial Excavation to Turweston Cutting

EKFB Main Works

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Excavation to South Heath Cutting, Gt Missenden



A41 Compound, Fleet Marston



Removal of MCJ line, Grendon Underwood



Piling to Perry Hill Overbridge, Twyford

HS2

Community Engagement

Maddelyn Sutton

Head of Community & Stakeholder Engagement, HS2

Community Engagement Strategy

How we will engage with you



Informing

We will keep you updated on issues that affect your area.



Involving

We will involve you in opportunities as we plan and build HS2.



Responding

We will listen to you and help with your questions and concerns.



HS2



Respecting people,
Respecting places

HS2 Community
Engagement Strategy

Updated
October 2021



Informing, involving, responding



Regular meetings



Events and webinars



Website and online

ALIGN Working in partnership with **HS2**

Temporary traffic lights and construction update: Chesham Road

High Speed Two (HS2) is the new high speed railway for Britain. This notice is to inform you of temporary traffic lights in place at Chesham Road site along with a construction update for the main works.

Why are we doing these works?
Over the last few months, you will have seen our intervention shaft site at Chesham Road being set up. The intervention shaft, located off the B485 at Hyde End, near Gt Missenden, is an important structure for the railway because it will provide access for emergency services. We are now ready to begin the excavation and construction of the shaft itself.

What will we be doing?
In November we will begin works to construct the outside wall of the intervention shaft at Chesham Road. The construction method being used is known as the caisson method where a temporary sheet pile cofferdam is constructed. These are preformed corrugated steel piles which are driven in from the surface. The cofferdam is circular and allows excavation of the weaker superficial clays so that the caisson can be installed directly into the stronger chalk.

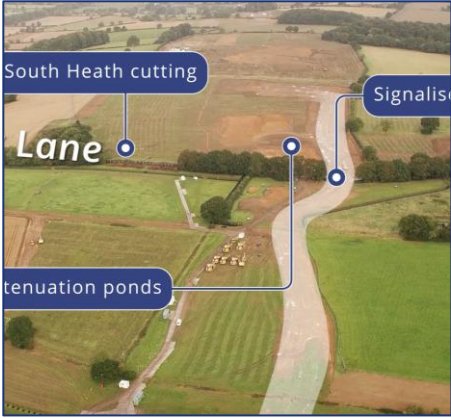
Duration of works
Caisson construction from mid November until summer 2022

Working hours are 8am to 6pm Monday to Friday and 8am to 1pm on Saturdays. Our contractors will be on site for one hour's start-up and shut down either side of these times. There will be at least two days each week where works will take place over 24 hours. We do not plan to work on a Sunday.

Notifications



Mobile visitor centre



Use of drone footage



In your area updates



Helpdesk

COMMUNITY & BUSINESS FUNDS

A total of £40 million is available for community and business groups along the Phase One route to improve their local area or support their local economy.

+£3m

£3,350,000 has been awarded in Buckinghamshire from HS2's Community & Environment Fund (CEF) and Business & Local Economy Fund (BLEF)

58

58 local projects in Buckinghamshire have received funding since 2017

Most recently, last month **Chiltern Forest Golf Club 2018 Ltd** has **successfully applied for £27,326** of funding towards their 'Accessibility for All' project. They are a community amateur sports club located in Halton, near Aylesbury.



Further funding

Road safety fund



Woodland Fund



Area Specific funding

Area specific funding for Buckinghamshire

£3m Colne Valley additional mitigation plan

Funding for additional landscape and ecological mitigation and enhancements within the Colne Valley Regional Park, in furtherance and beyond the mitigation proposed within the HS2 Proposed Scheme. This may encompass proposals both within and outside the present HS2 Bill limits.

Funds are administered through the Colne Valley Regional Park Panel.

X projects approved to date with a total investment of £1.7m.

£3m Chilterns AONB Panel

Funding to support the identification and delivery of local environmental integration and enhancement measures (over and above that proposed in the Environmental Statement or related detailed design).

Buckinghamshire Council is the commissioning authority for this funding. The Chilterns AONB Review Group has been established to drive this work. This group is made up of Local Authorities in the Chilterns affected by HS2, the Chilterns Conservation Board, Natural England, Department for Transport and HS2 Ltd.

3 projects approved to date with a total investment of £741k.

Localised community investment



Jobs, skills and business opportunities

Senior Quantity Surveyor

- South East England
- Twyford
- Closes 17 April 2022

New: 03 March 2022



Works Manager - Aylesbury Area

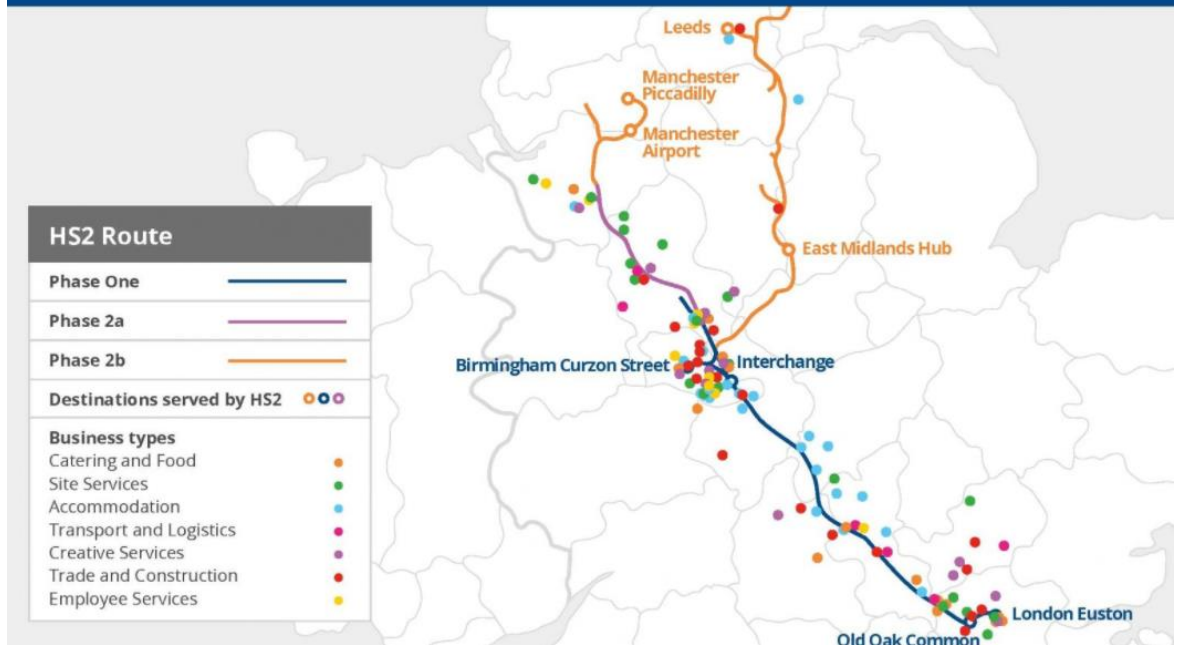
- South East England
- Aylesbury
- Closes 16 April 2022

New: 02 March 2022



Jobs and Skills

Onboard Local Businesses



Local business opportunities

HS2

Environment & Sustainability

Gary Rogerson

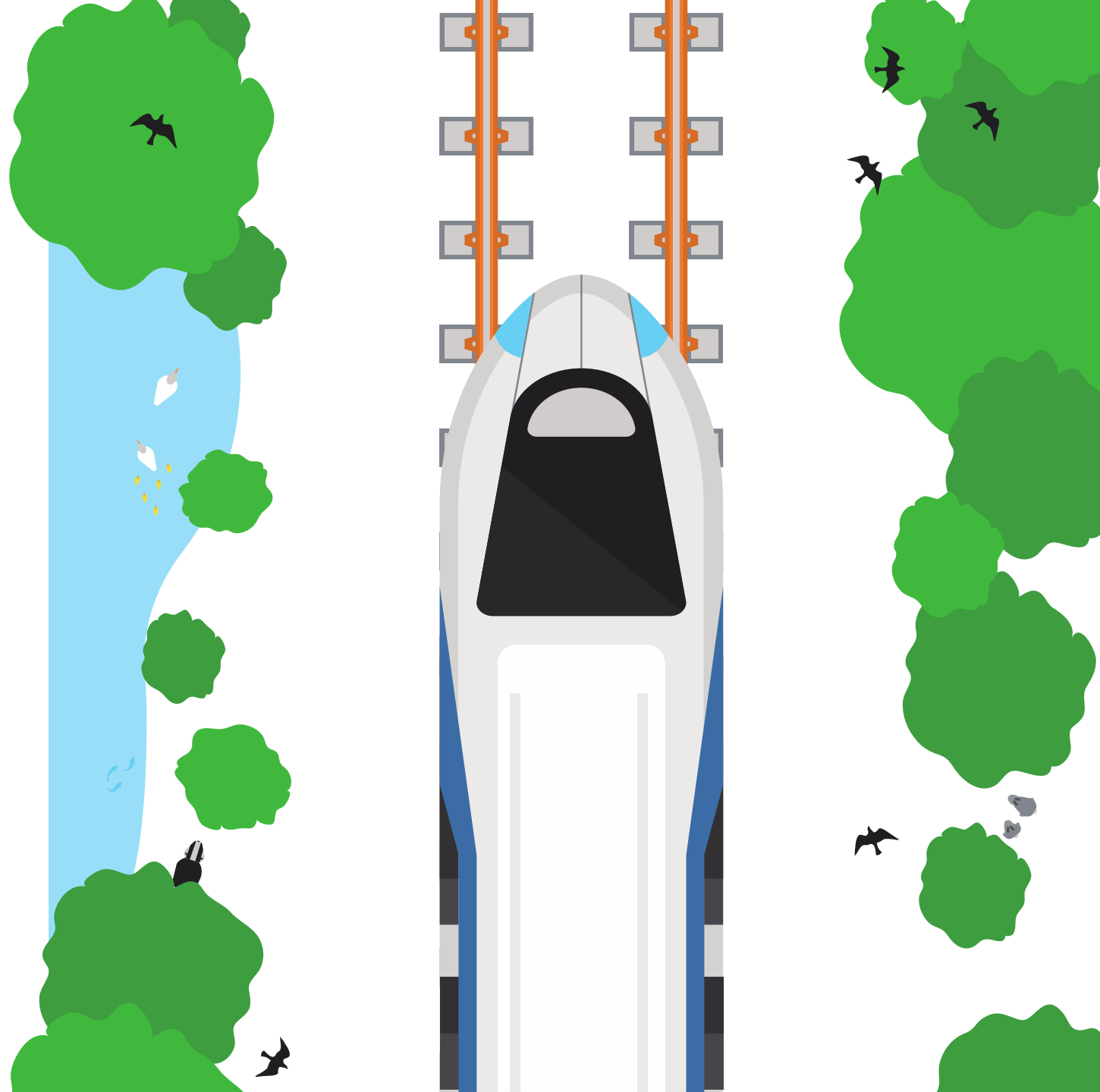
Senior Environment Manager, HS2

Creating our green corridor

We will plant up to 7 million **trees and shrubs** along the Phase One route

Over 400,000 trees and saplings have already been planted by HS2 in Buckinghamshire

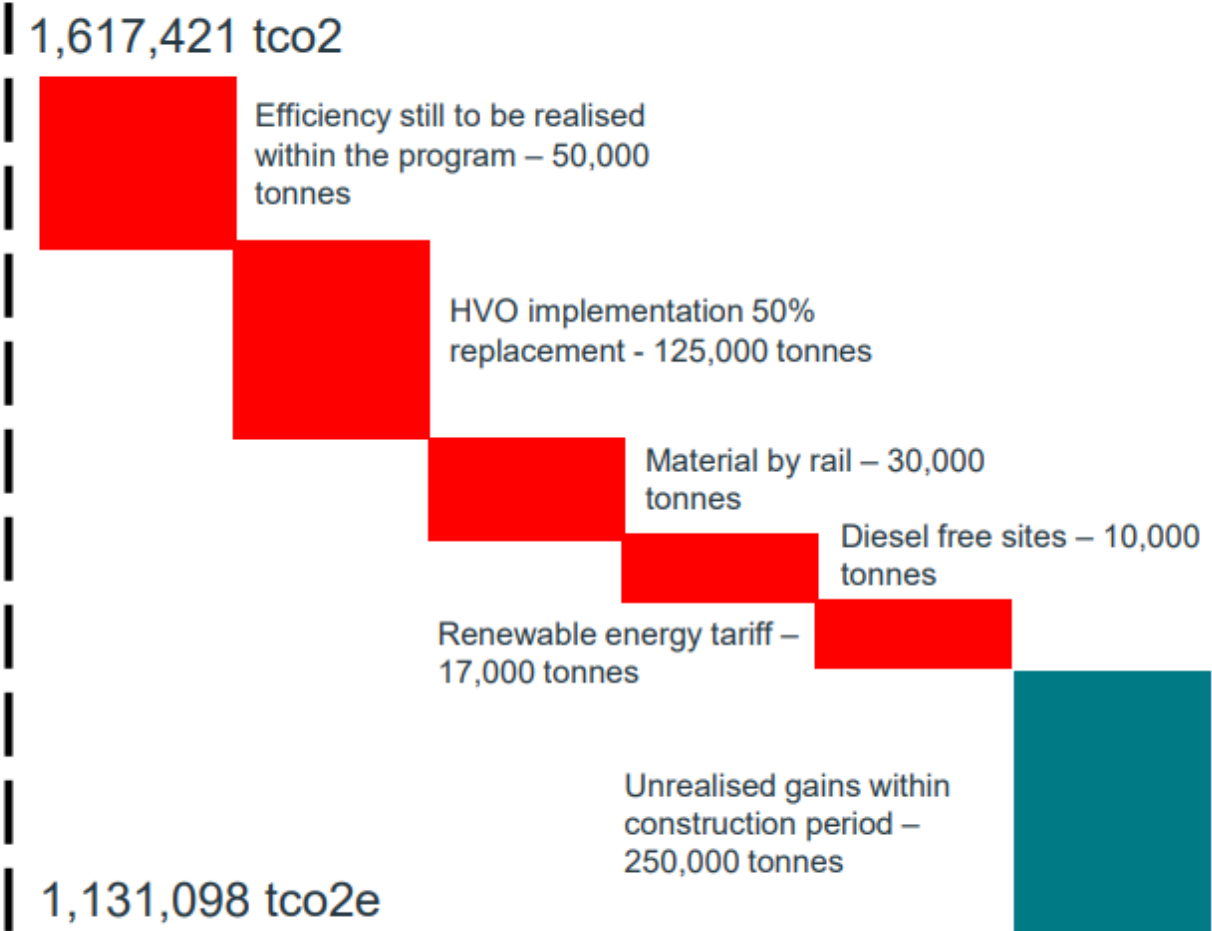
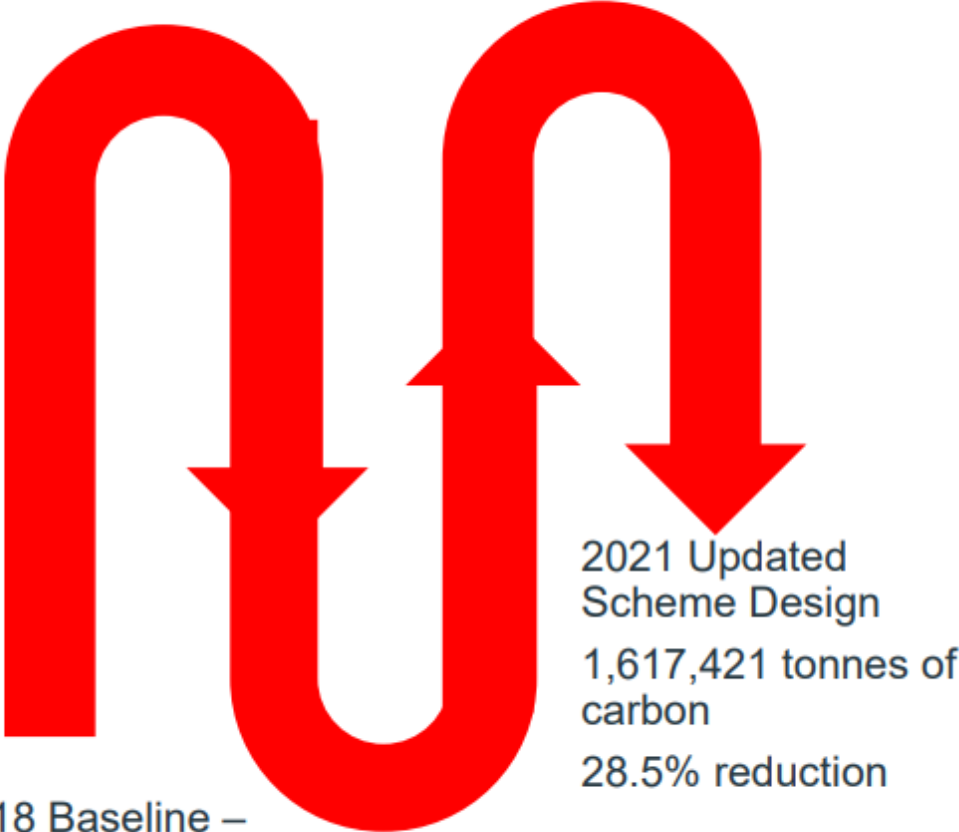
Over **100 wildlife habitats and planting sites** created, over 40 in Buckinghamshire totalling 130ha



Carbon

Scheme design 2019-2020:

- 1. Optioneering and lean design
- 2. Implementation of PAS2080



Innovation:

Supporting UK research and development as a decarbonisation enabler

HS2

There are no “**One-Size-Fits-All**” solutions



Innovate
at HS2

We are **innovating and collaborating** across industry, academia and the supply chain.

- **Build understanding** and develop evidence
- **Influence Policy** to stimulate demand & supply
- **Address challenges and common issues** with multiple stakeholders
- **Develop market guidance** and share best practice



UNIVERSITY OF
BIRMINGHAM



Imperial College
London



The
Alan Turing
Institute



energy
saving
trust

ULEMCo

SIEMENS
energy



mtc
Manufacturing
Technology Centre



Advanté



Carbon



In 2020, we became the first UK transport organisation to meet the global standard for cutting carbon emissions.

And in 2021, we reduced emissions from building HS2 by almost

25%



HS2

Net Zero Carbon Plan A cleaner, greener future

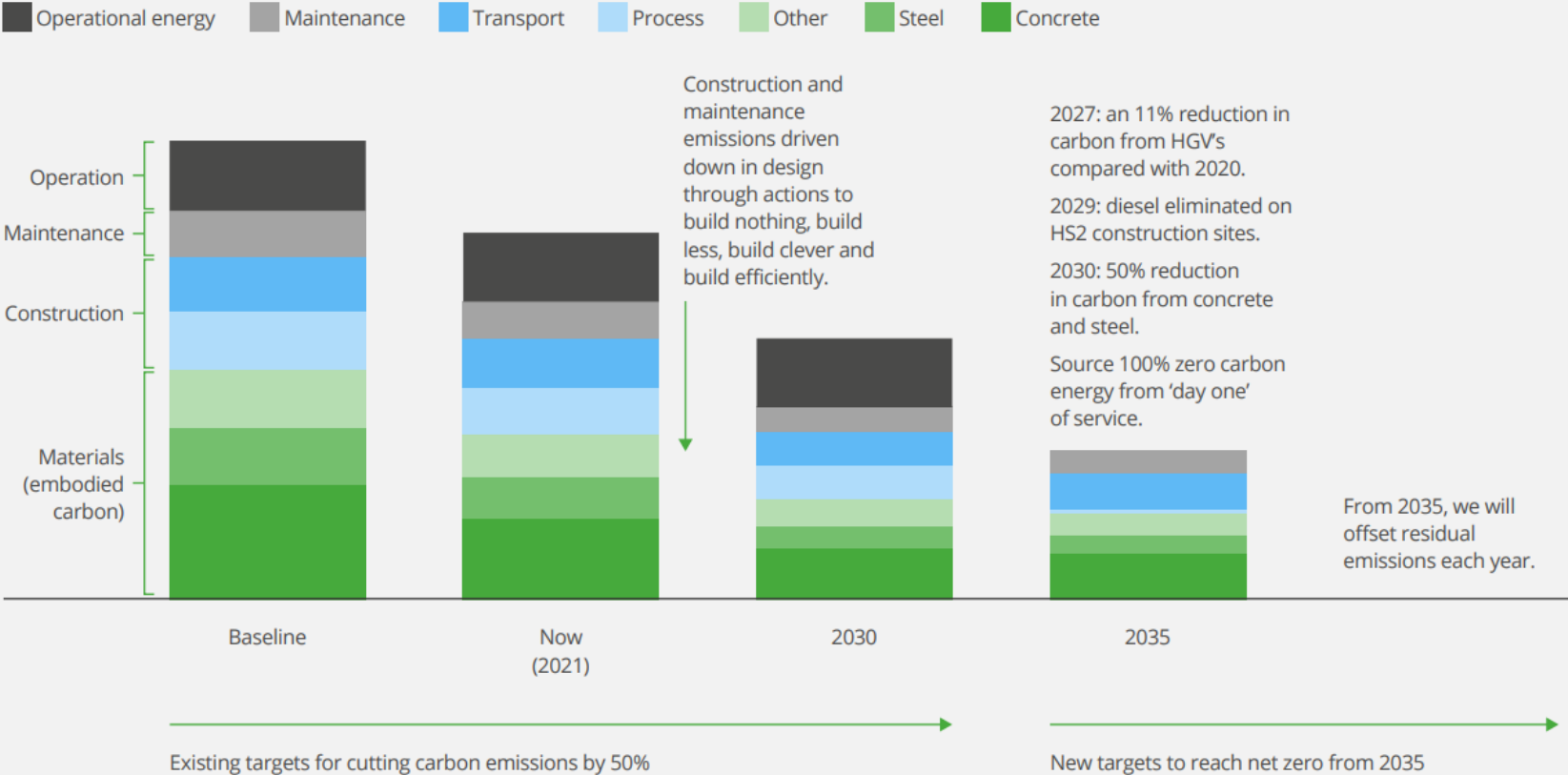
January 2022



Carbon

Destination net zero

How the carbon reduction actions in this plan will contribute to net zero from 2035



Our targets for reducing carbon emissions and achieving net zero from 2035



Net zero
for HS2 Ltd corporate activities by 2025



50% reduction
in carbon emissions by 2030



100%
zero carbon electricity to power trains

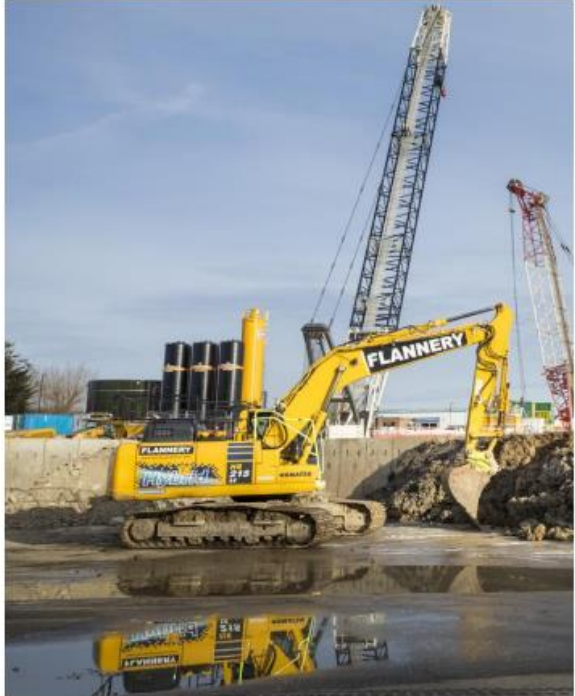
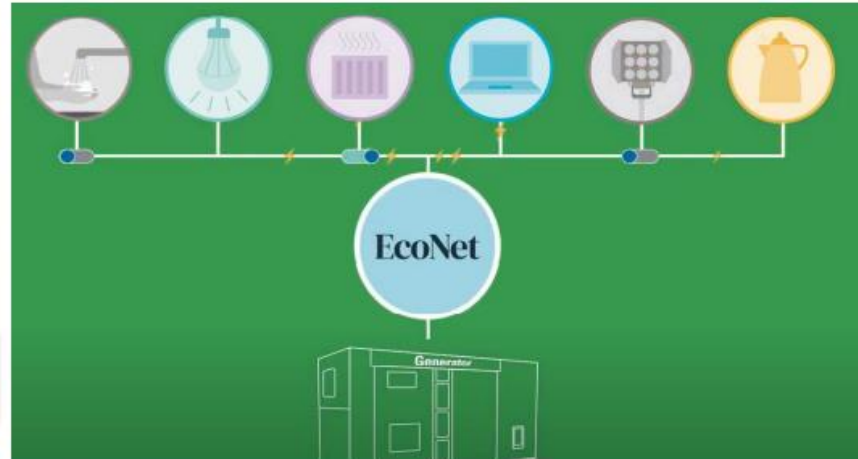


100%
residual carbon emissions offset from 2035

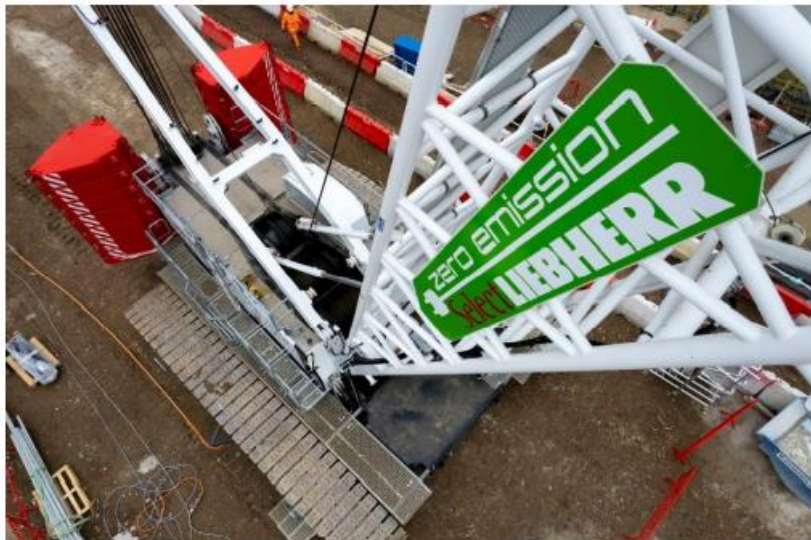


Net zero
construction and operation from 2035

Efficiency Solutions



Zero Emission Alternatives



Questions

