The Infrastructure Race

Somerset Council

April 2023

Hinkley Point Complex

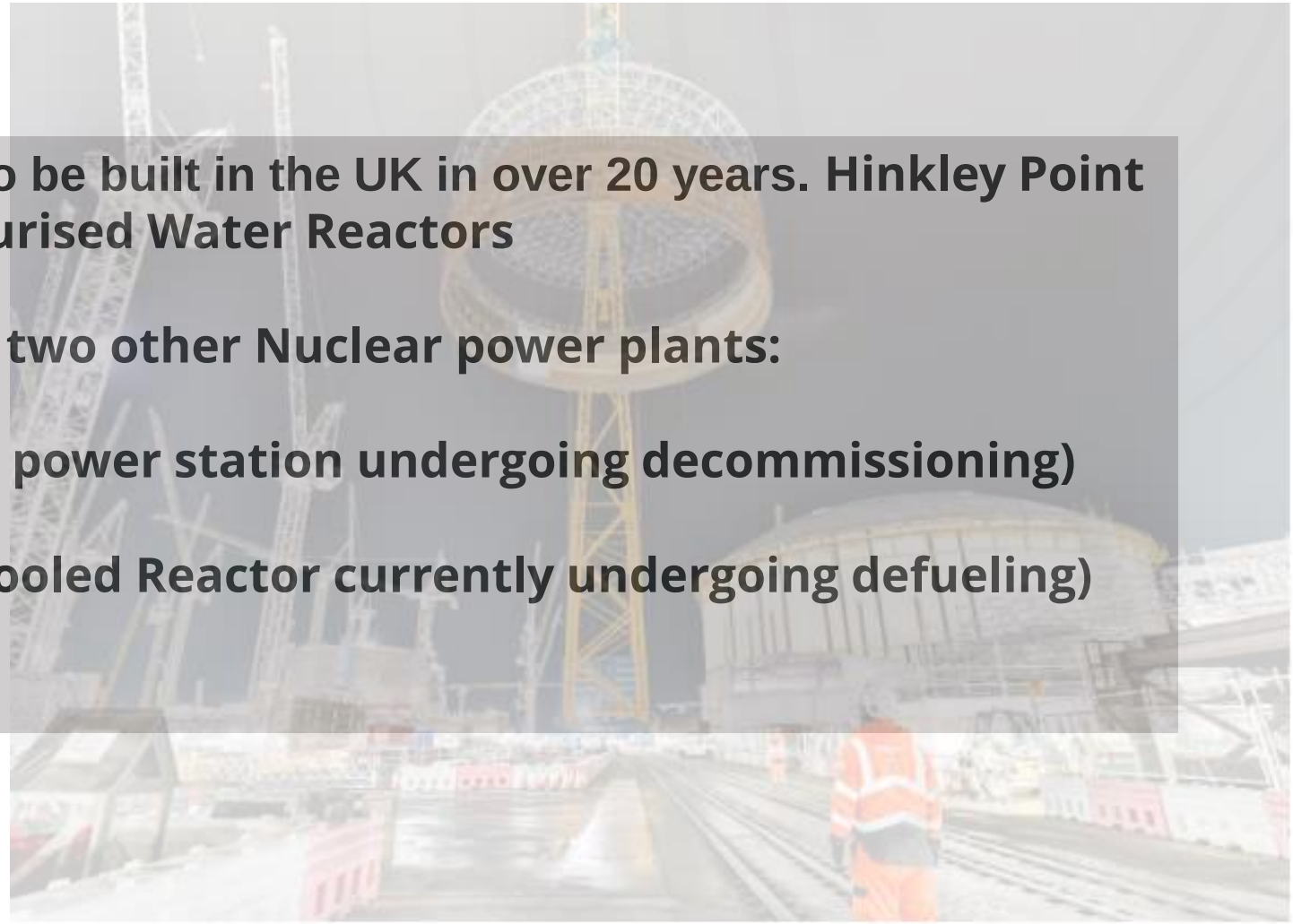
The Infrastructure Race

What is Hinkley Point C

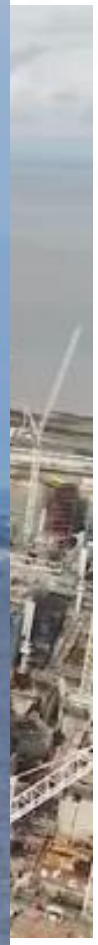
The first new nuclear power station to be built in the UK in over 20 years. Hinkley Point C will be a new generation of Pressurised Water Reactors

The current build is located next to two other Nuclear power plants:

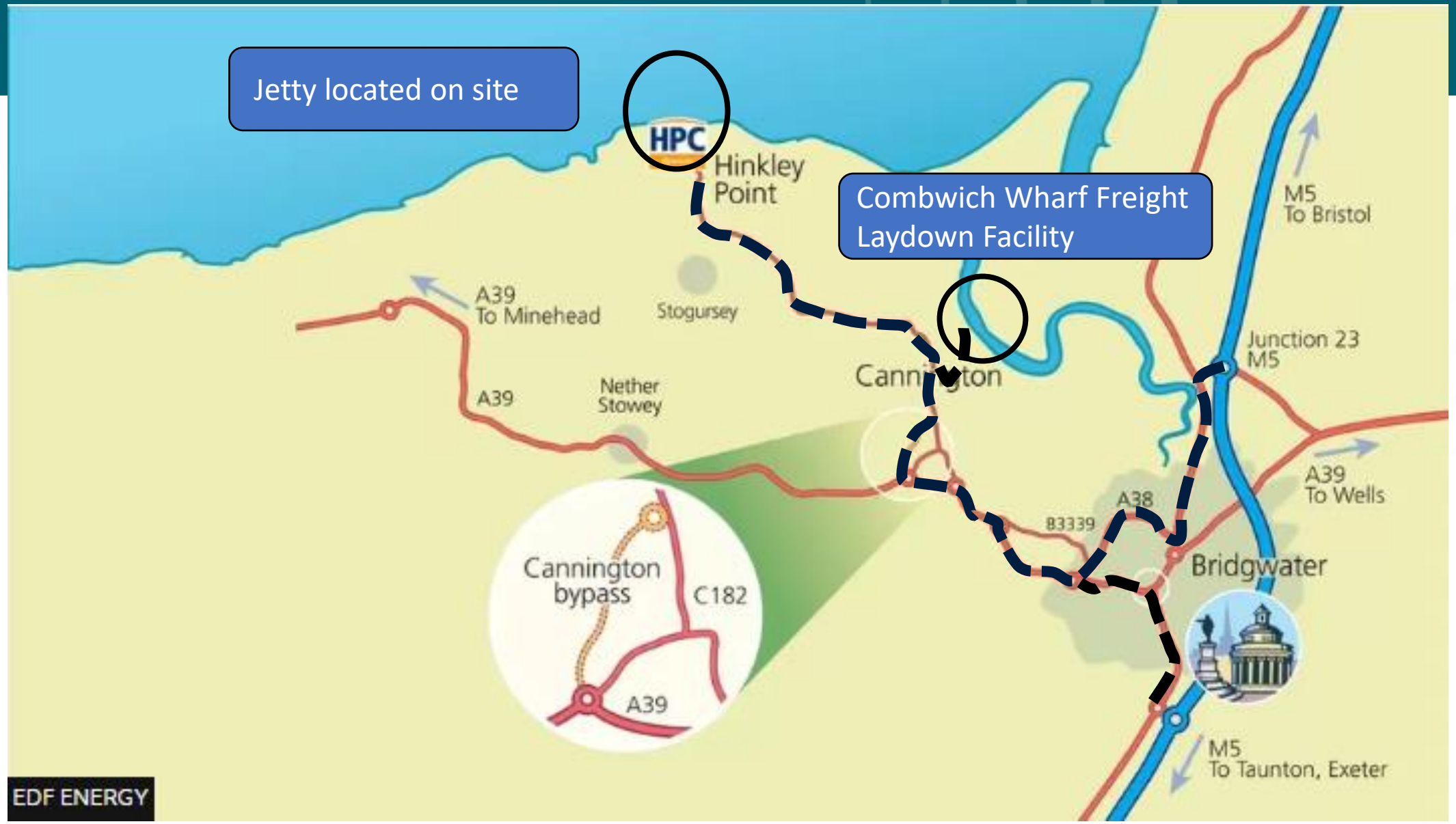
- **Hinkley Point A (Magnox nuclear power station undergoing decommissioning)**
- **Hinkley Point B (Advanced Gas-cooled Reactor currently undergoing defueling)**



Hinkley Point C



Hinkley Point Access



Scale of Construction

Hinkley Point C - Scale of the construction site

176 hectares

400 km pipe work

4000 km electrical cabling

5.6 MILLION m^3 of earth to be moved

3 Million tonnes of concrete

50,000 tonnes structural steel

5,600 workforce at peak of construction

HPC

ENERGY

CGN

Enabling Works

A programme of off-site enabling works

To support the main construction works at HPC site
It is a shop window for Hinkley Point C

All works are off the main site within the local communities
Taking place at a early stage within the HPC project timescale

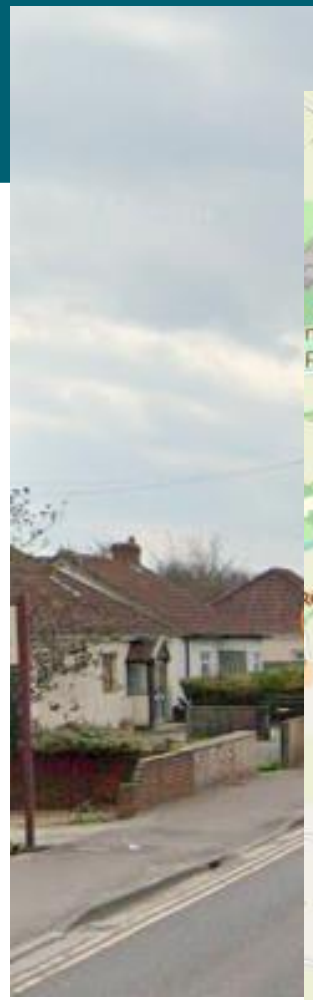
Programme value £225m consisting of:

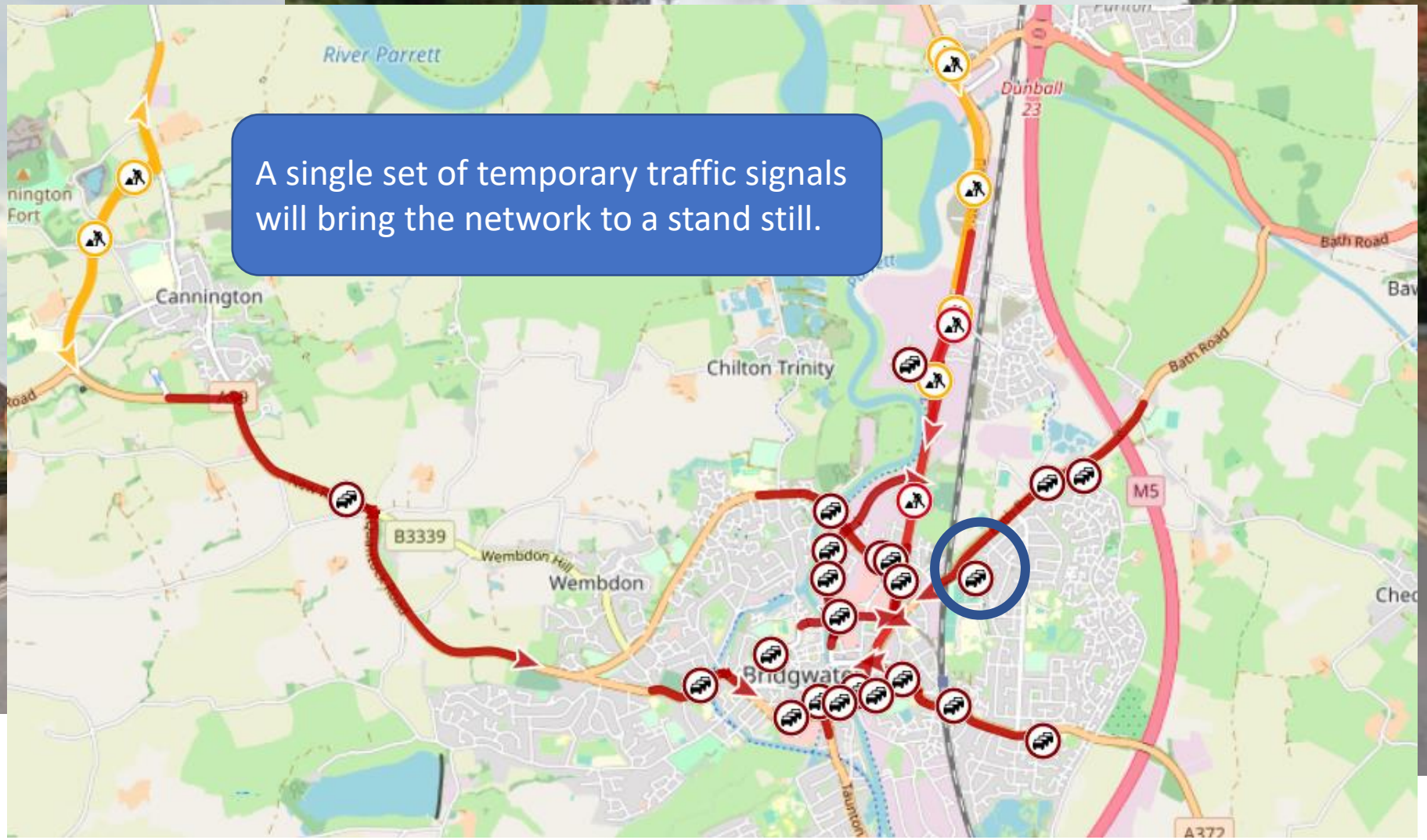
- Early works (£12m)
- Accommodation (£131m)
- Highway improvement schemes (£28m)
- Park and Ride facilities (£31m)
- Combwich AIL Laydown (£9m)
- Reinstatement (£14m)

Limitations of existing Infrastructure

- Bringing London-level traffic to a small Somerset town
- Limited network capacity for the expected increase in traffic volumes
- Majority of the route is urbanised, limited scope for upgrade
- Aged infrastructure – traffic signals, unsuitable junction alignment, lack of pedestrian facilities

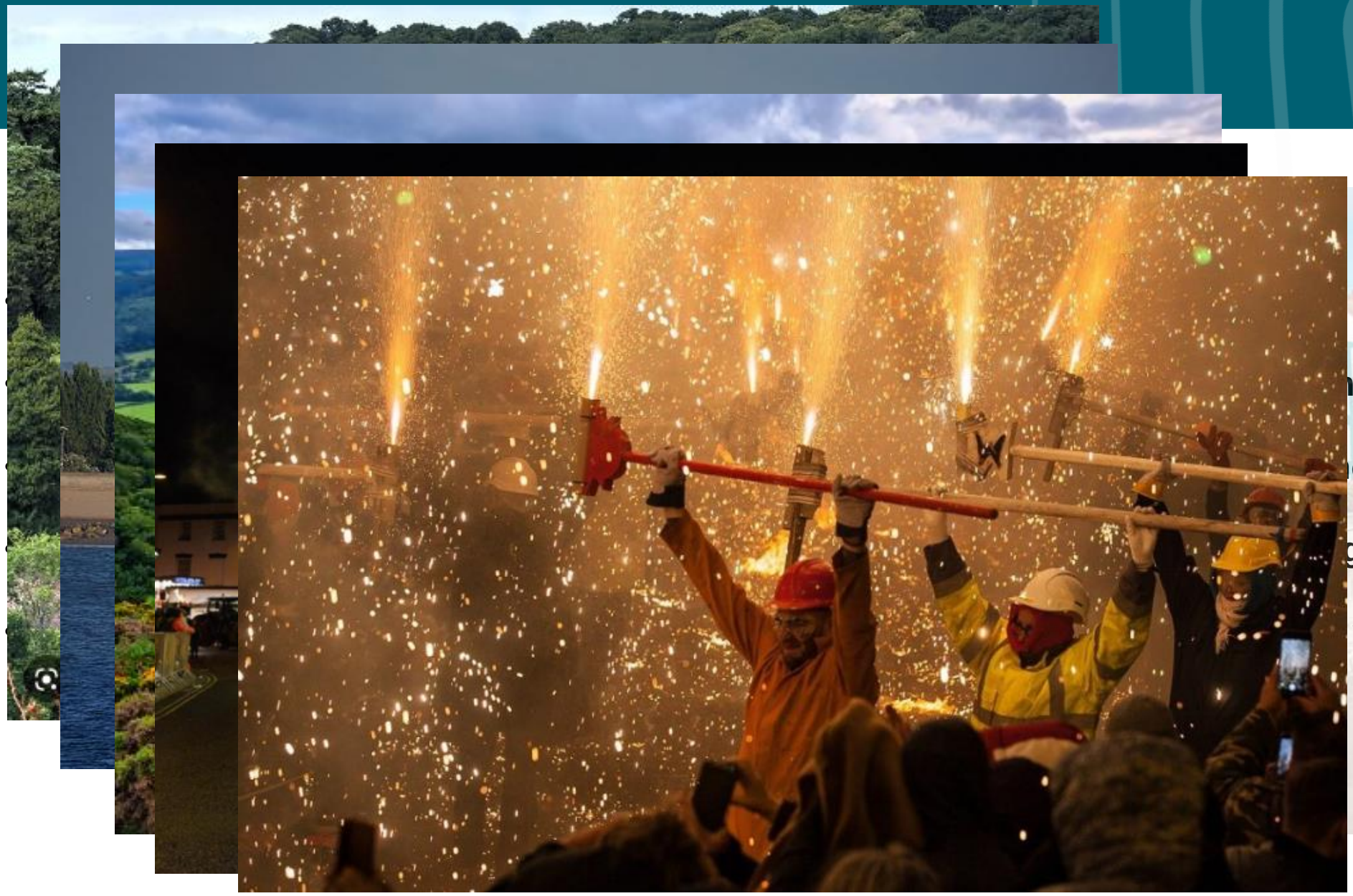
Network Pinch Points





A single set of temporary traffic signals will bring the network to a stand still.

Wider Access



to communities

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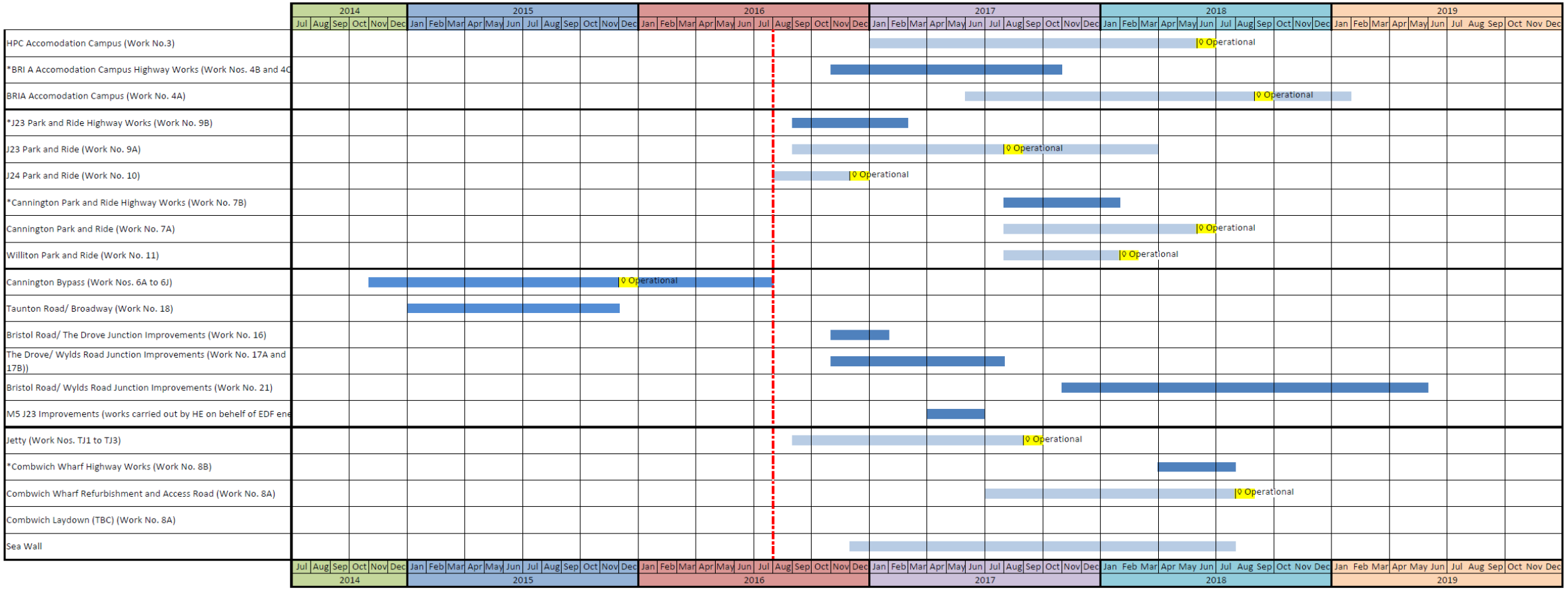
gwater

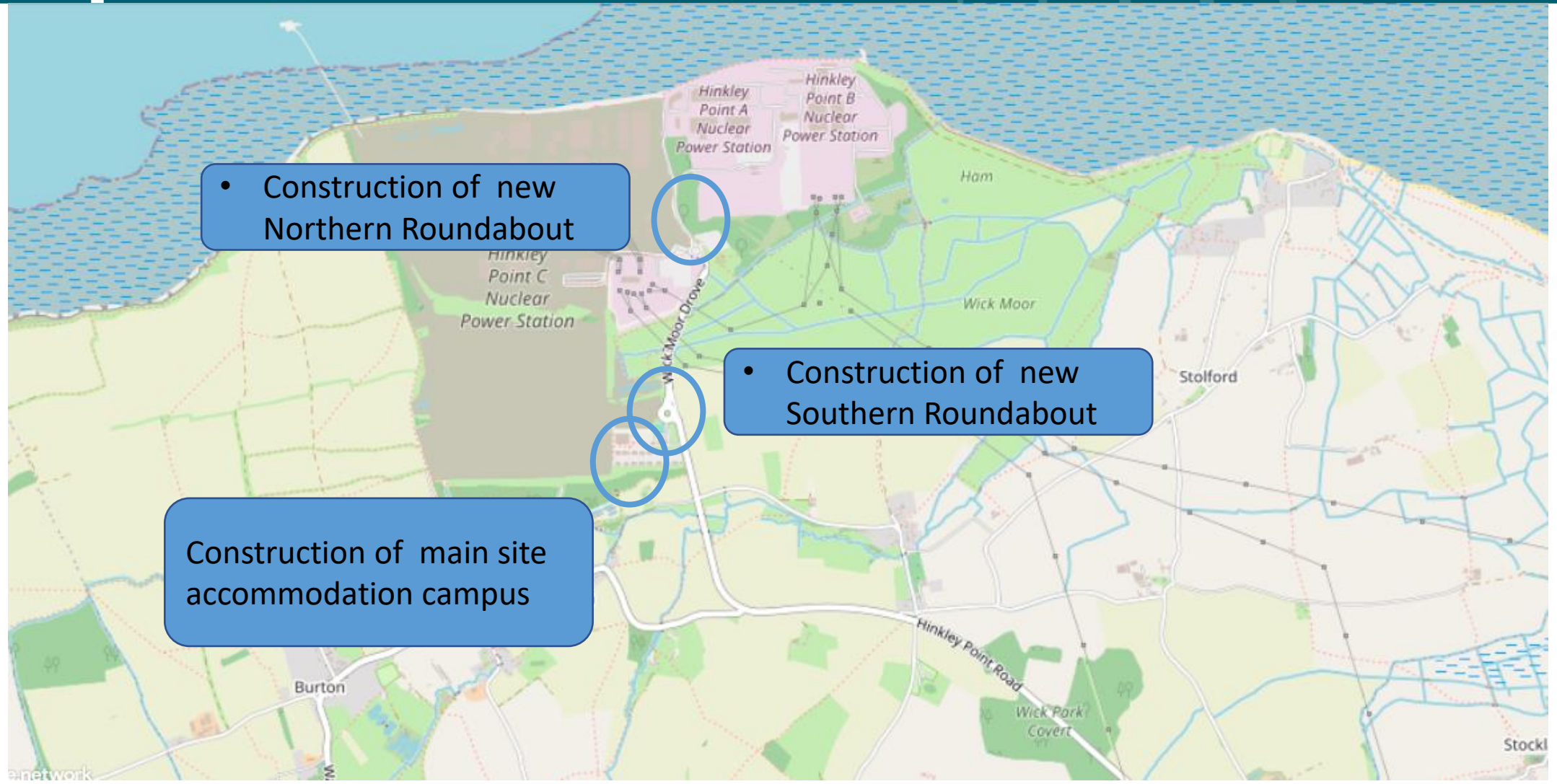
works, Somerset Council

Programme

Detailed Implementation Programme - HPC and Associated Developments August 2016

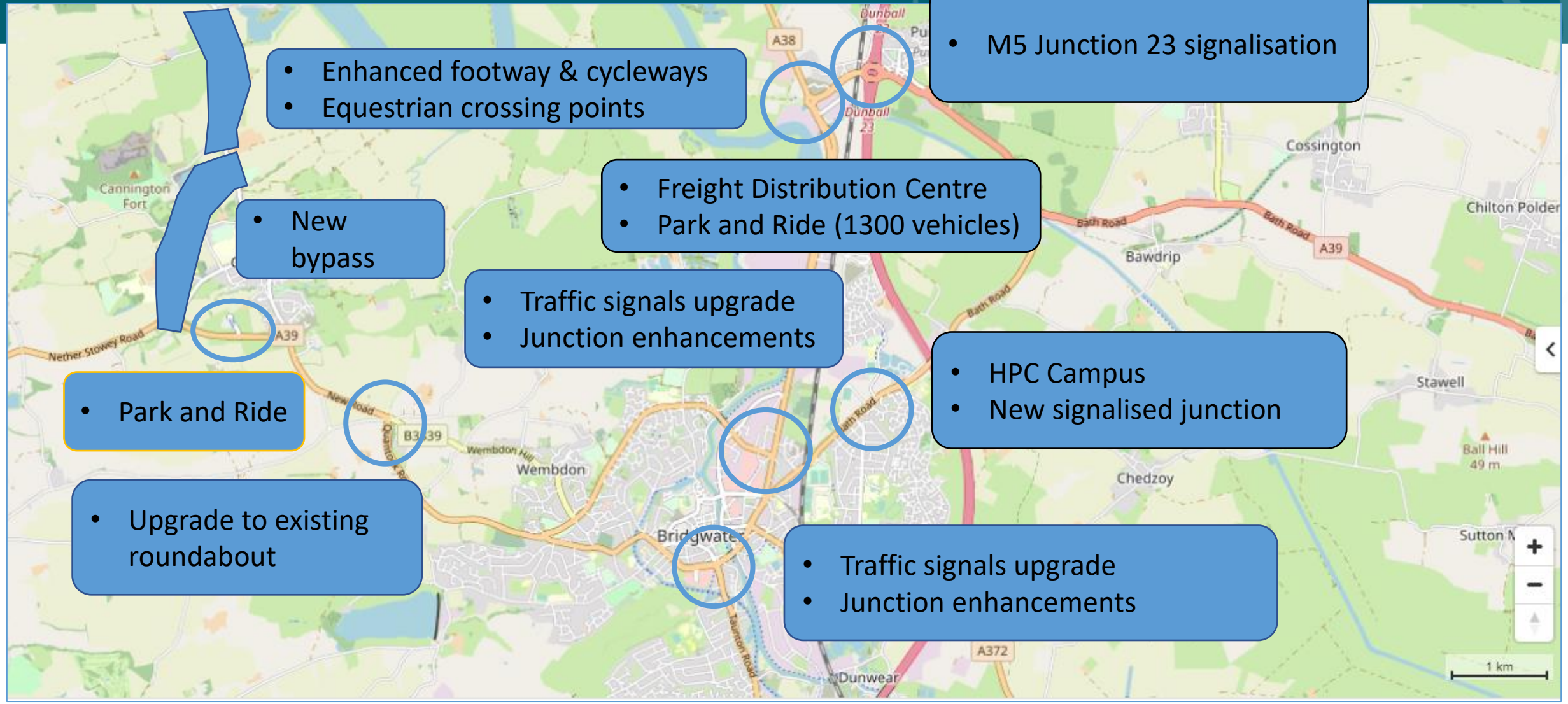


Pre Hinkley C Main Build Required Infrastructure



- Construction of new Northern Roundabout
- Construction of new Southern Roundabout
- Construction of main site accommodation campus

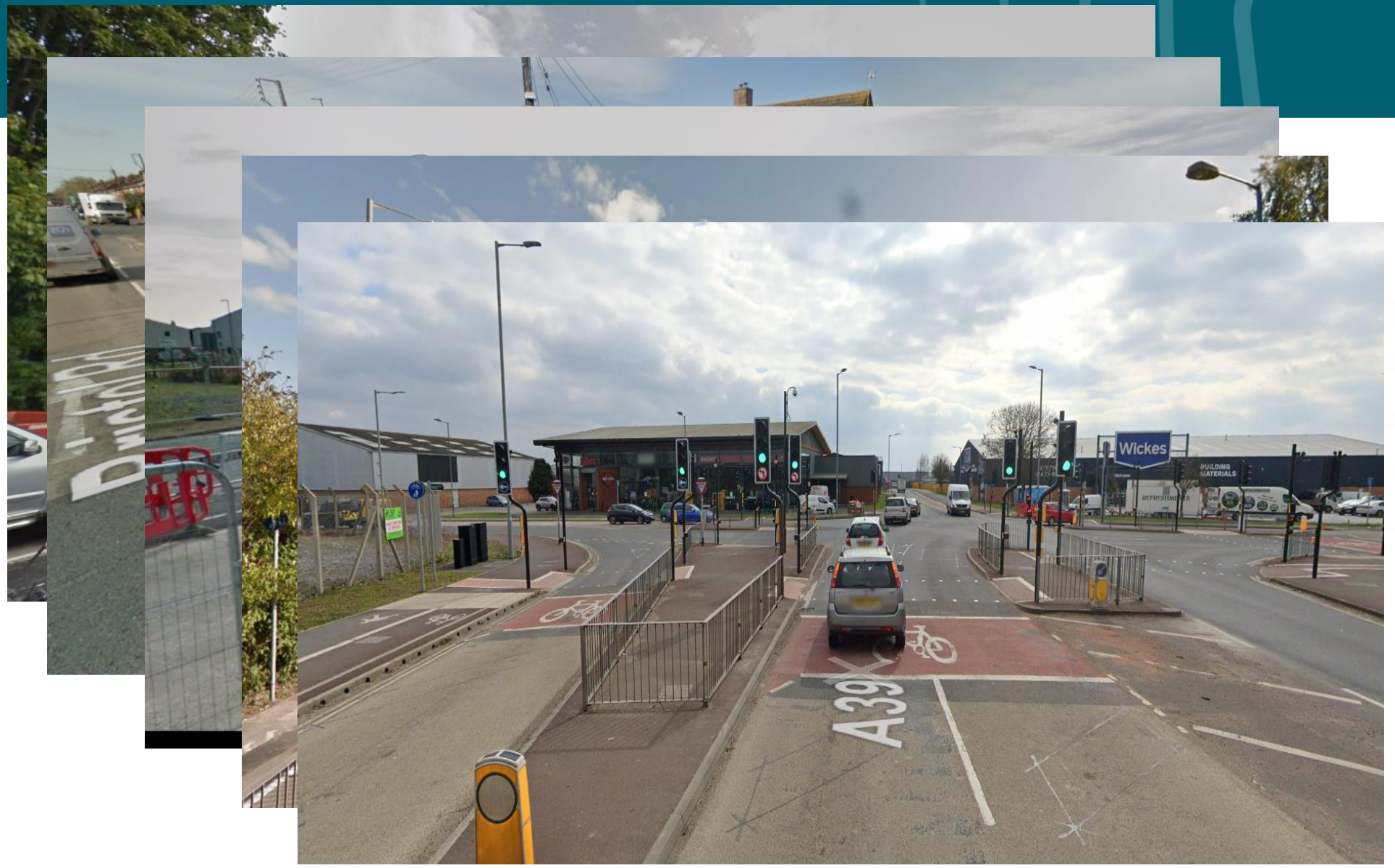
Pre Hinkley C main build - Required infrastructure



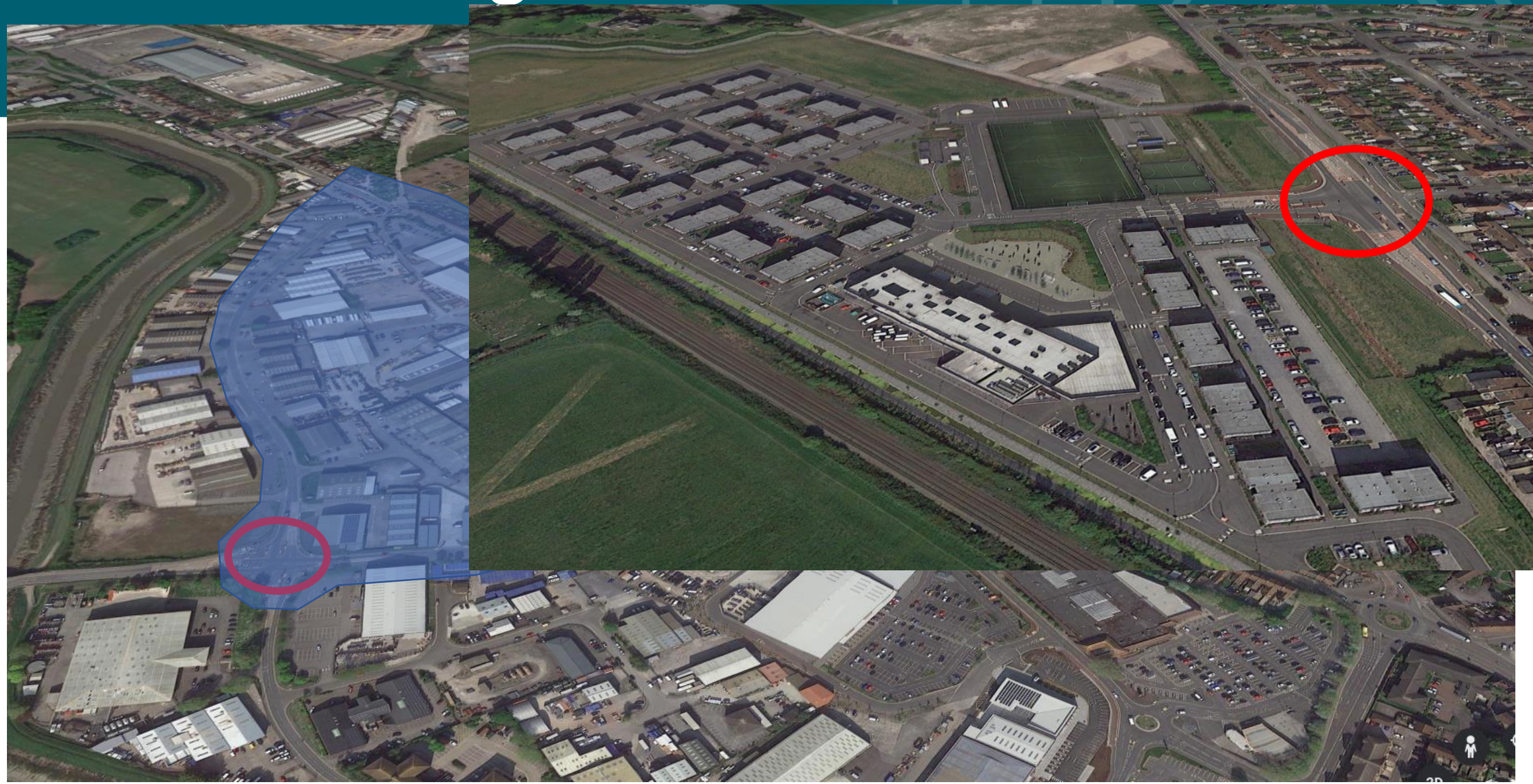
Golden Triangle

- Junction refurbishment works in close proximity, within 0.5 miles of each other
- Roads could not be fully closed for full duration
- Works under extended signal heads would not work, traffic volumes would overwhelm phasing times
- Allow for M5 incidents
- One way gyratory system was devised
- Would also reduce the duration of the works by 15 weeks.

The Infrastructure Race



Golden Triangle



M5 Junction Access

Engagement

- The HPC design teams were not necessarily familiar with the area and the local challenges
- While there was a DCO in place - it still relied on negotiation and compromise, knowledge sharing
- Works timeline was not necessarily realistic

Agreed a common framework applicable to all works

- Only one major set of works on one arterial route at one time
- A38 north and south routes could not be worked on that the same time
- Only one motorway junction to be worked on at one time
- Thinking out the box in terms of traffic management - what worked before may not work now
- Sometimes shorter disruptive traffic management options are better than long drawn out restricted working

Infrastru
EDF add

- Limited capacity for
- Unavoidable networ
- Delivery slots imple urs)
- Park and ride to trar
- Installation of Numb
- Upgrading nearby w
- Construction of jetty

HGV vehicle movements

Due to urban settlements, loads are only moved during the day due to environmental constraints

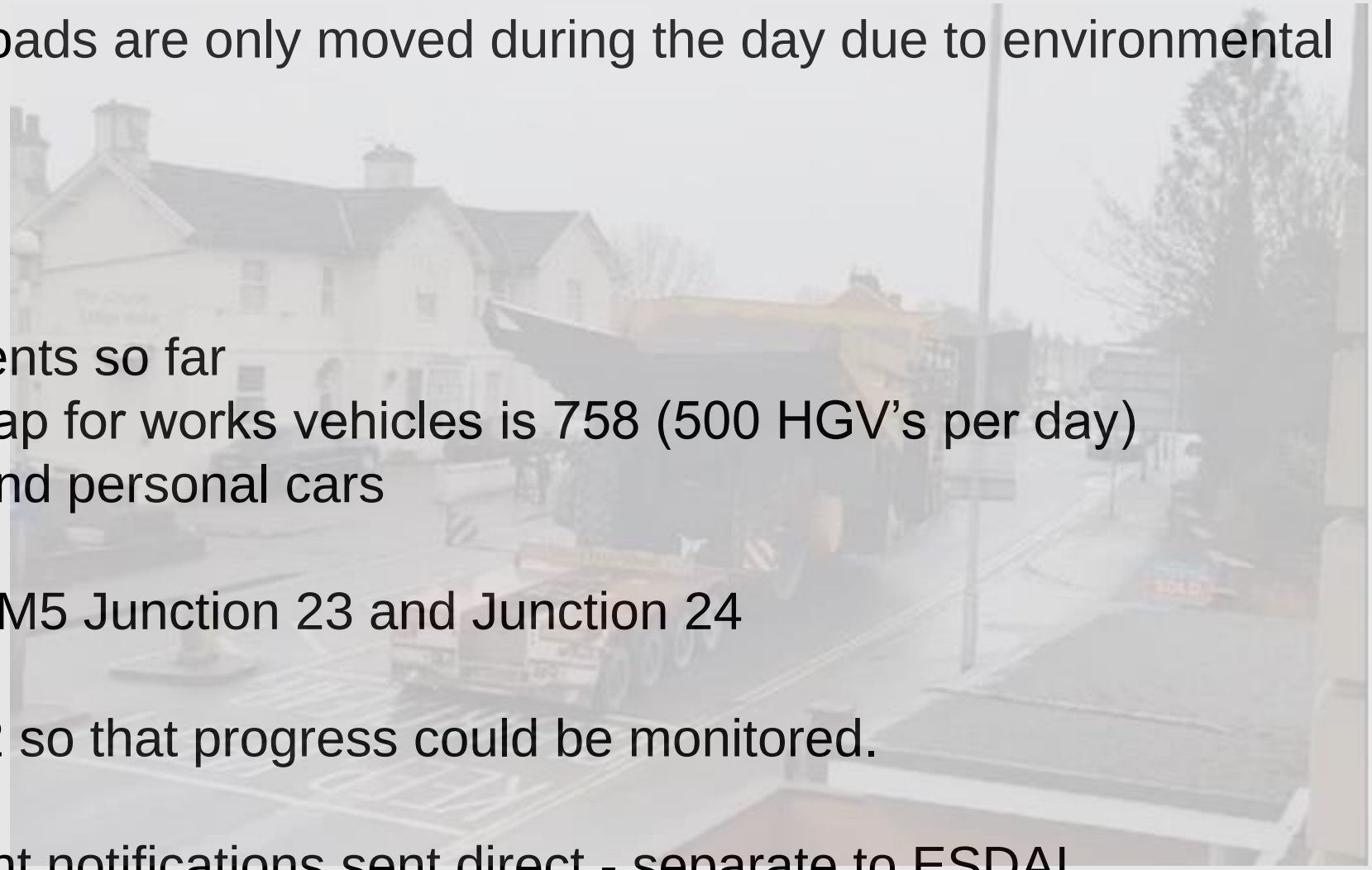
Timed slots for movements

- 7,138 AIL movements so far
- Daily movement cap for works vehicles is 758 (500 HGV's per day)
- excluding buses and personal cars

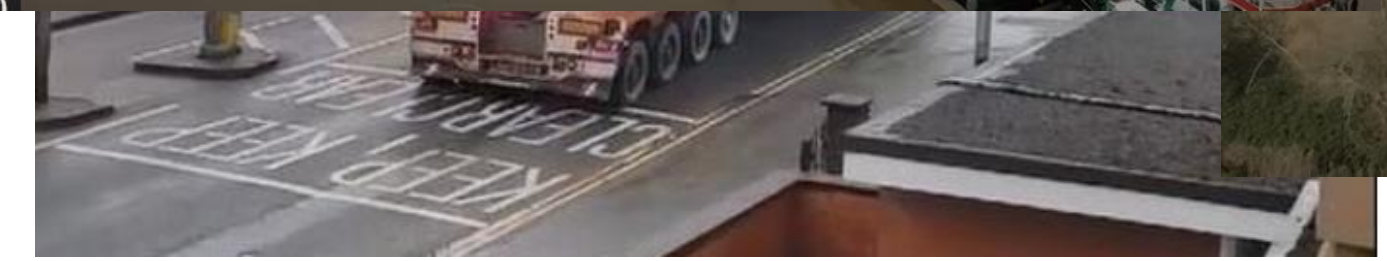
Assigned HGV routes from M5 Junction 23 and Junction 24

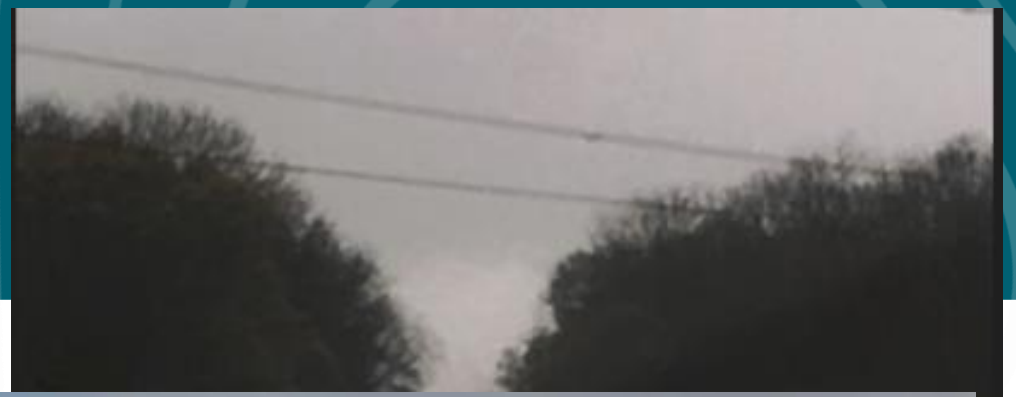
Cameras installed on C182 so that progress could be monitored.

Regular direct AIL movement notifications sent direct - separate to ESDAL

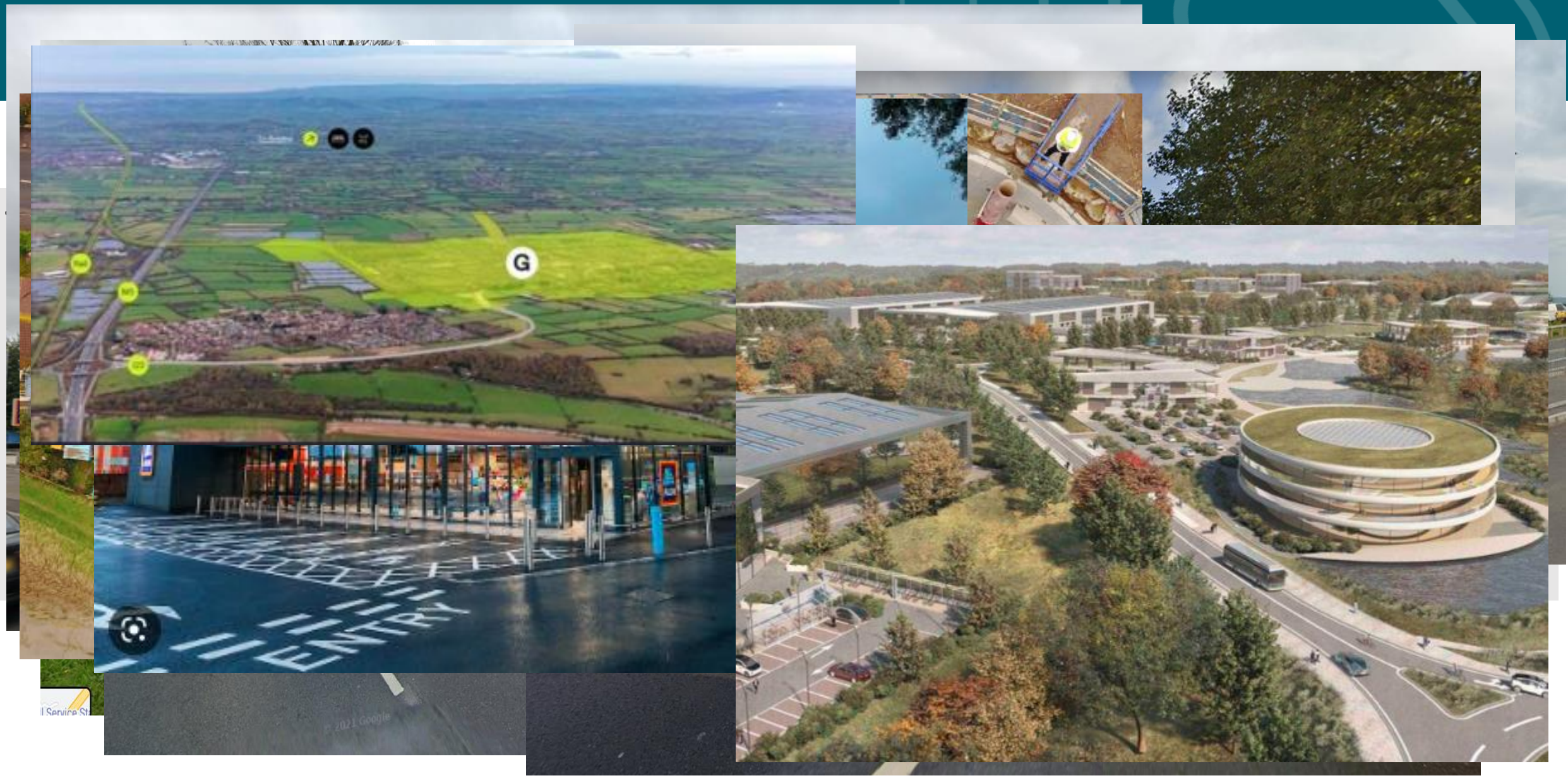


Abnormal Loads





Other Infrastructure



Time for Questions

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