

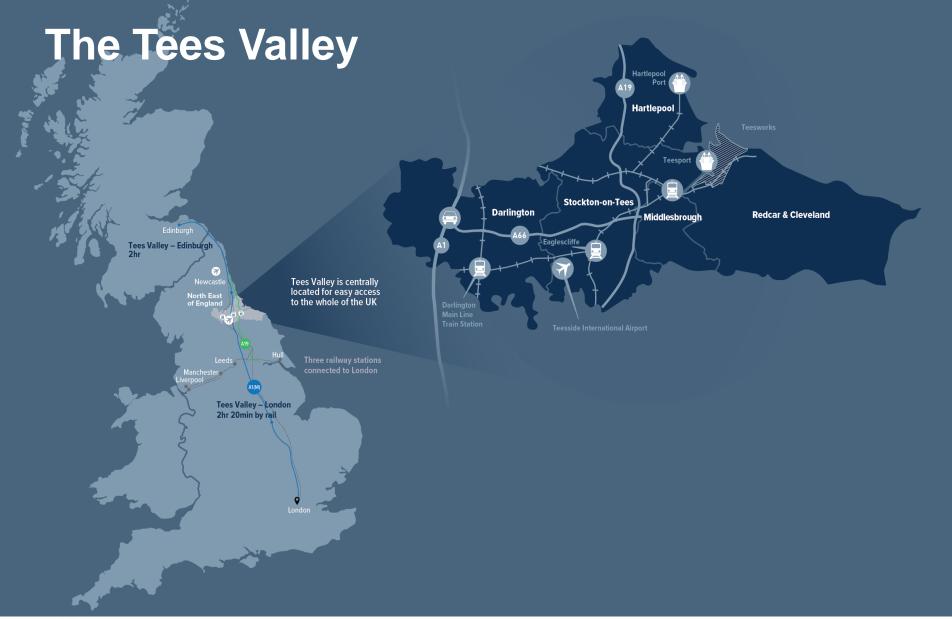
# **TEES VALLEY MAYOR**

# Moving forward with hydrogen in the Tees Valley





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# **Tees Valley Cluster Plan**





#### Collaboration

• TVCA; NEPIC; bp

#### Tees Valley Net Zero Cluster Plan - Stage 2

- £1.13 million funding > *Innovate UK*
- 2 years to March 2023
- All aspects of decarbonisation
   CCUS | Renewable & Green Electricity |
   Hydrogen
- Key Aims:
  - Produce a *roadmap* to decarbonisation 2040
  - Identify barriers & enablers to decarbonisation

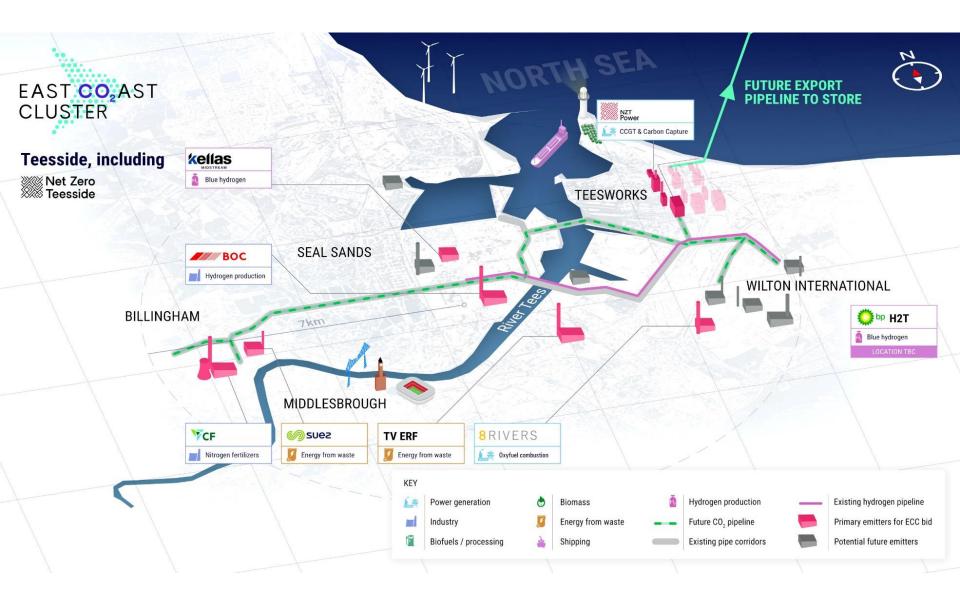




# Tees Valley Hydrogen & CCUS Development



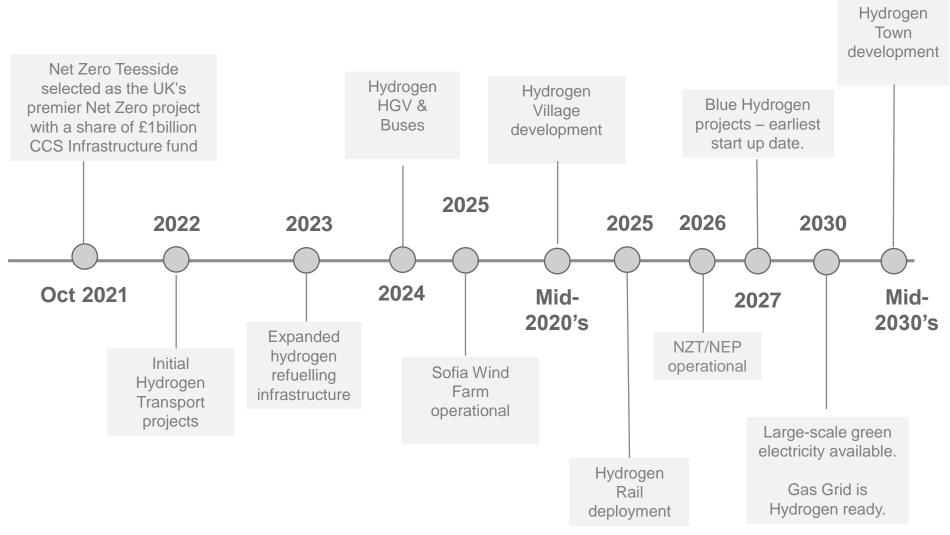






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# **Timescales**





# **Hydrogen Transport Hub Development**

#### R&D:

- o 2021/2 pilots
- Accelerating hydrogen demand
- Delivering longer-term multi modal trials for economies of scale/joint learning etc.

## Energy:

- Meeting early demand
- o Delivering long-term production, storage and distribution infrastructure
- Making the Hub sustainable beyond 2024/5

## • Hub Institute/Centre:

- O A focal point for overseeing the Hub programme
- o Bringing together the insights of all hydrogen-related transport programmes
- Testing and certification equipment
- Innovation space for SMEs
- High value skills/training/retraining for the local population

# Hydrogen Transport Projects in the Tees Valley

## Stagecoach, & Ricardo PLC

 Retrofit of a double-decker diesel bus with a hybrid fuel cell system

## Toyota hydrogen vehicles

- o Forklift truck for warehouse and airport operations
- Passenger bus
- 10 fuel cell passenger cars for Cleveland Police and NHS patient support

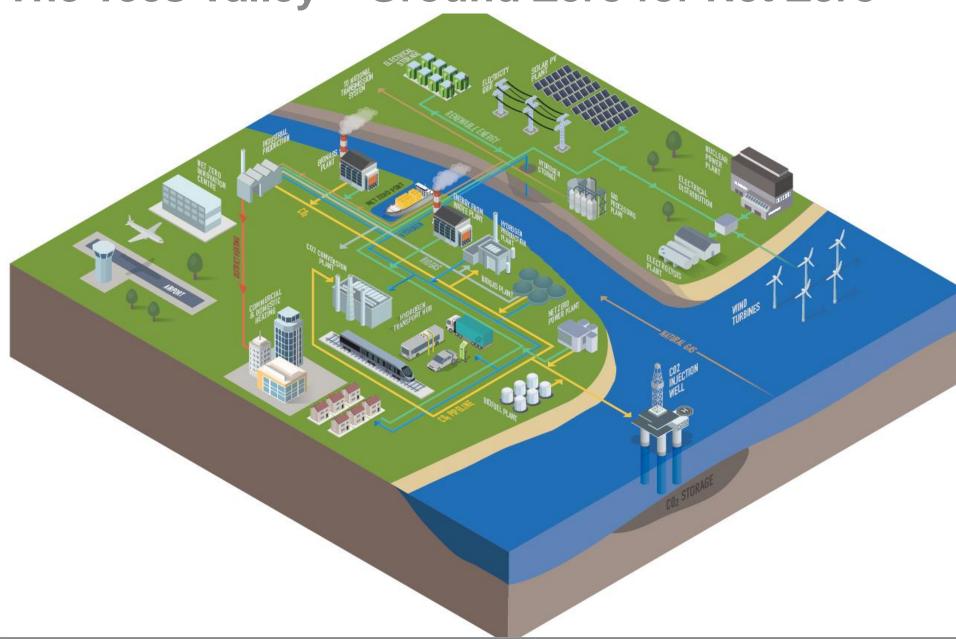
## HV Systems

 Hydrogen delivery vans between 19 superstores and their main distribution centre

## Sainsbury's & Element Energy

Trialing an HGV from a local distribution centre

The Tees Valley – Ground Zero for Net Zero





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