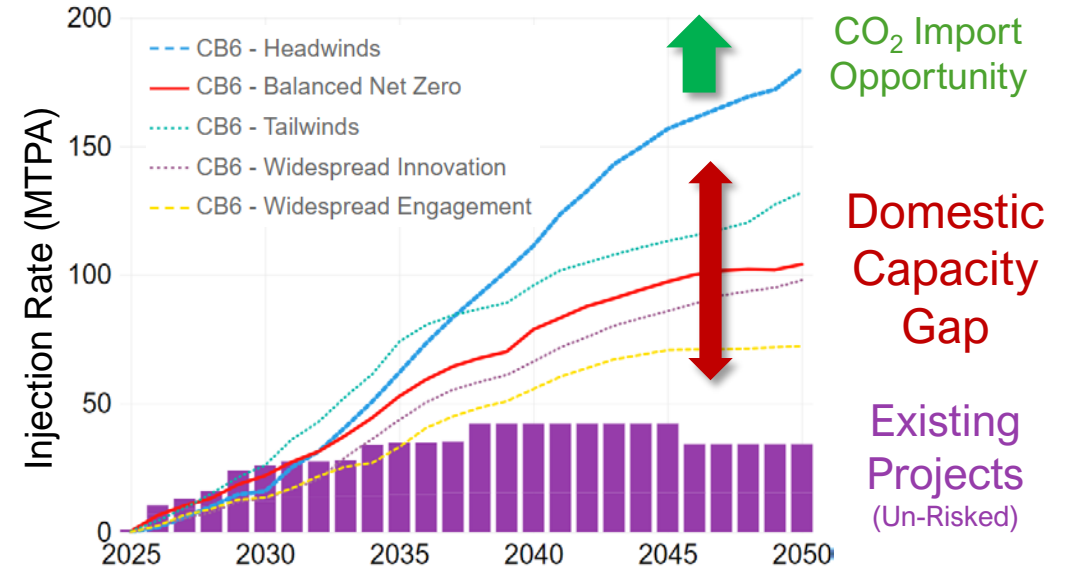


CCS growth scenarios¹



78 GtCO₂

Potential storage capacity
(BGS estimate)

100s yrs

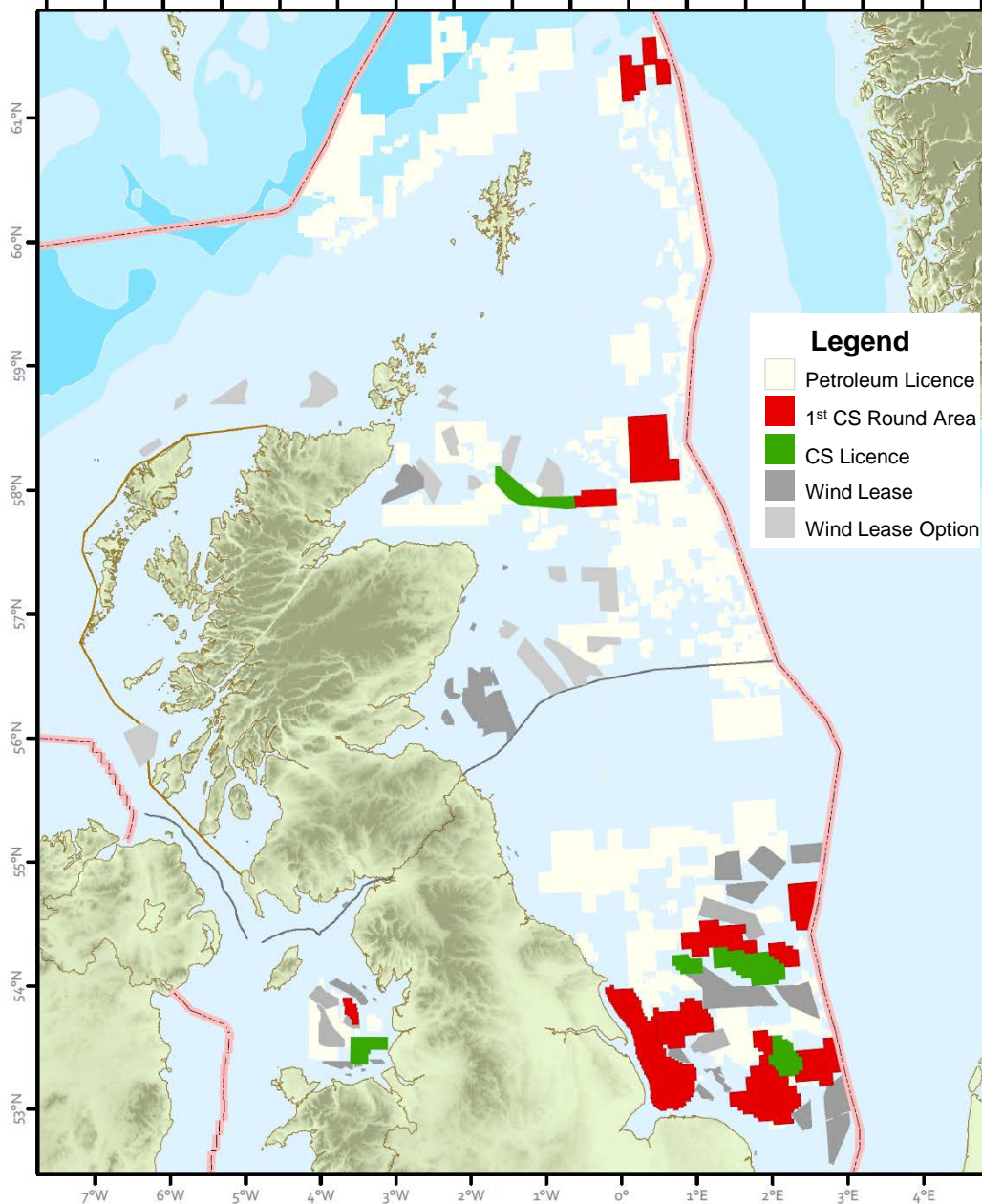
of UK's storage needs in the
UKCS

75-180

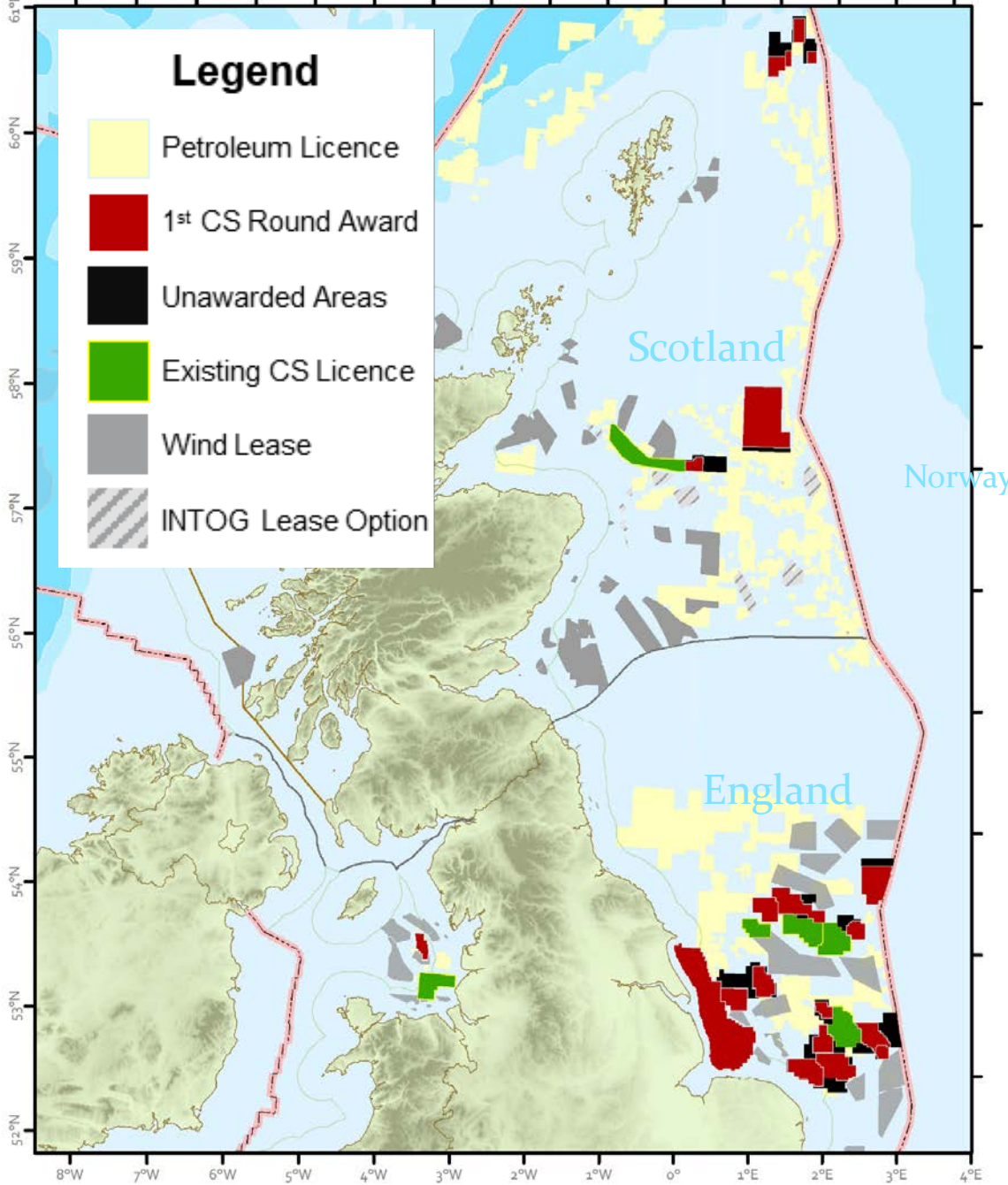
MtCO₂pa injection required by
2050
(full range of CCC scenarios)

£20 bn

**Government funding
commitment over 20yrs.**



1) Climate Change Committee: Net zero pathways (2021) "Balanced" and "Headwinds" cases
2) North Sea Transition Deal (NSTD, 2021) and British Energy Security Strategy (2022)



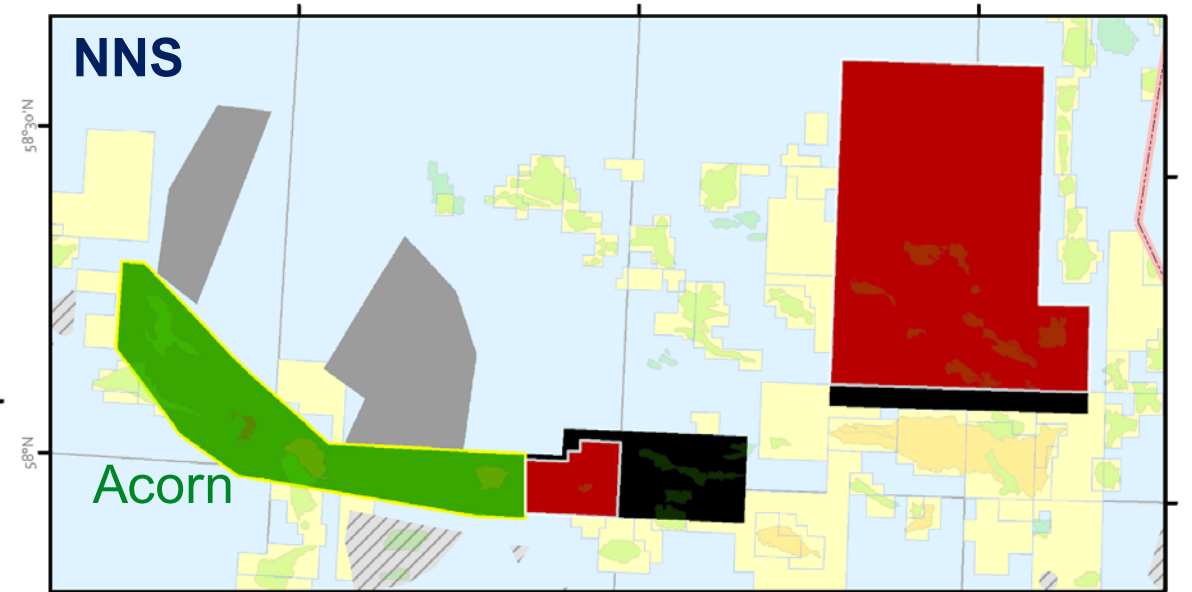
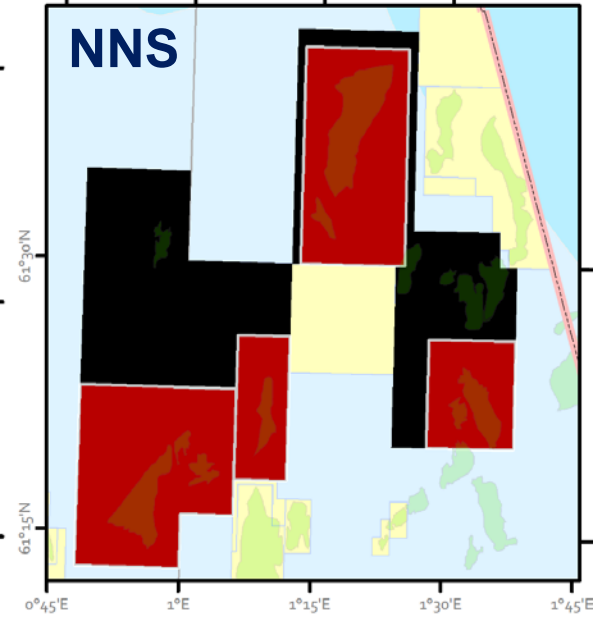
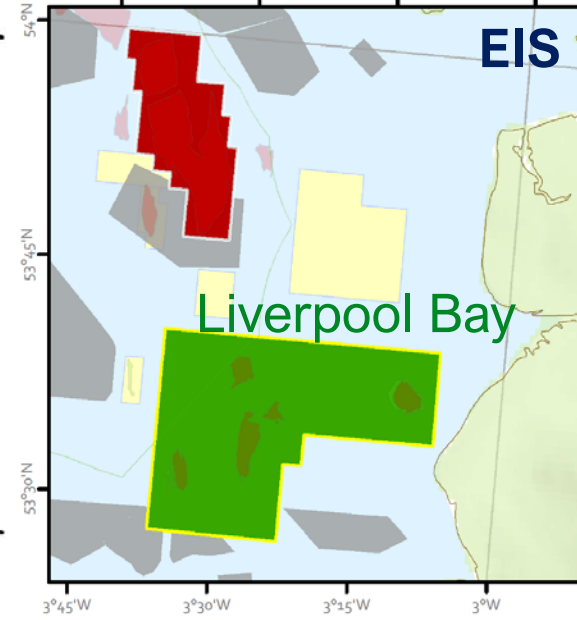
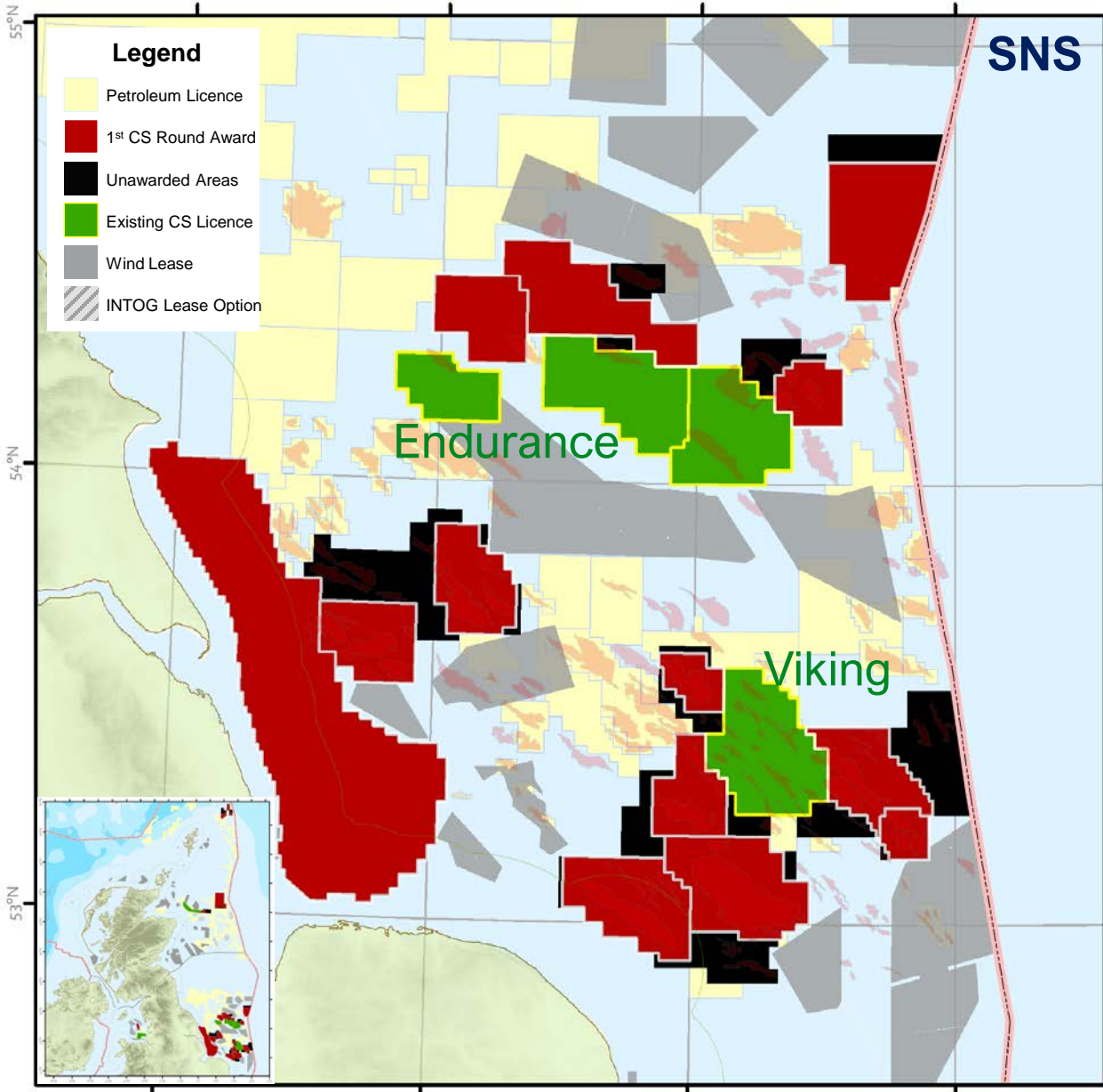
- **20 Licences** Offered for Award
- Covering **~12,000 km²**
- Awards in **all areas** made available for application
- Diversified Portfolio (Aquifers & Depleted Fields).
- Some projects potentially injecting before 2030.

Key Success Metrics

If all offers accepted,

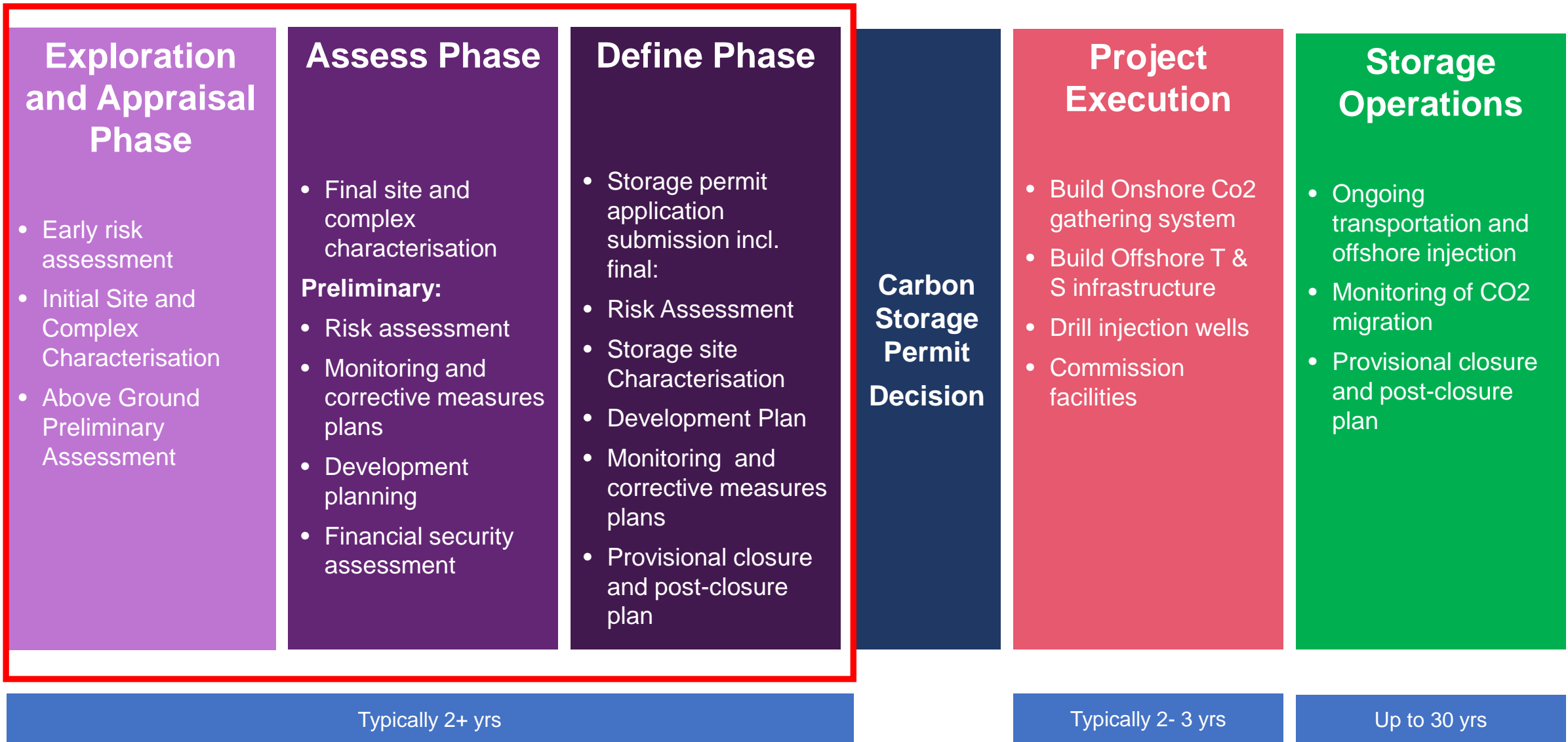
- **5 Firm Wells/Tests (9 Contingent)**
- **4 Firm Seismic Shoots (5 Contingent)**
- Additional reprocessing and studies commitments

Expectation that licensees will work collaboratively with each other, and with marine users from other sectors.



UK 1st Carbon Storage Round Offers of Award

Elements of a CS Licence Term





Decarbonising the North East of England at scale

Andy Lane, Managing Director

24 May 2023



EAST CO₂AST CLUSTER

Unites the Humber & Teesside to remove almost **50% of industry cluster CO₂ emissions** and deliver **25,000 jobs per year to 2050**



Endurance

Expansion stores

5 stores, up to 10 MTPA by 2030
further potential to 23 MTPA beyond

KEY

Selected for Track 1 Project Negotiation List

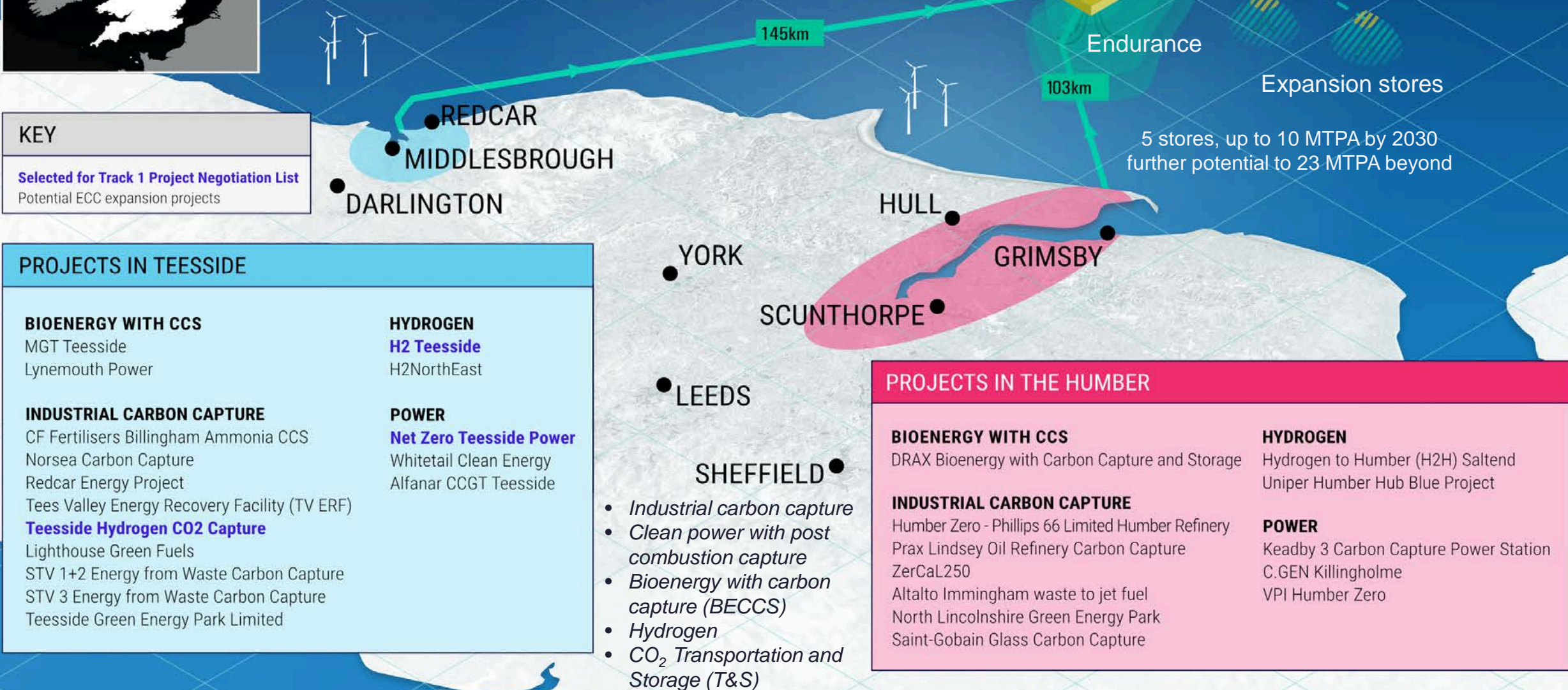
Potential ECC expansion projects

PROJECTS IN TEESSIDE

<p>BIOENERGY WITH CCS</p> <p>MGT Teesside Lynemouth Power</p>	<p>HYDROGEN</p> <p>H2 Teesside H2NorthEast</p>
<p>INDUSTRIAL CARBON CAPTURE</p> <p>CF Fertilisers Billingham Ammonia CCS Norsea Carbon Capture Redcar Energy Project Tees Valley Energy Recovery Facility (TV ERF)</p> <p>Teesside Hydrogen CO₂ Capture</p> <p>Lighthouse Green Fuels STV 1+2 Energy from Waste Carbon Capture STV 3 Energy from Waste Carbon Capture Teesside Green Energy Park Limited</p>	<p>POWER</p> <p>Net Zero Teesside Power</p> <p>Whitetail Clean Energy Alfanar CCGT Teesside</p>

PROJECTS IN THE HUMBER

<p>BIOENERGY WITH CCS</p> <p>DRAX Bioenergy with Carbon Capture and Storage</p>	<p>HYDROGEN</p> <p>Hydrogen to Humber (H2H) Saltend Uniper Humber Hub Blue Project</p>
<p>INDUSTRIAL CARBON CAPTURE</p> <p>Humber Zero - Phillips 66 Limited Humber Refinery Prax Lindsey Oil Refinery Carbon Capture ZerCaL250 Altalto Immingham waste to jet fuel North Lincolnshire Green Energy Park Saint-Gobain Glass Carbon Capture</p>	<p>POWER</p> <p>Keadby 3 Carbon Capture Power Station C.GEN Killingholme VPI Humber Zero</p>



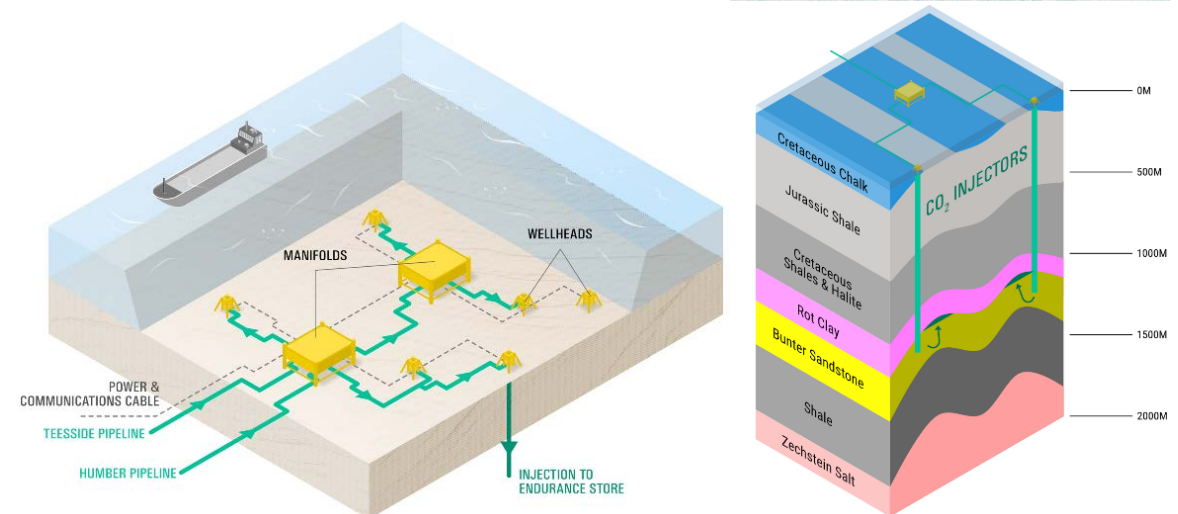
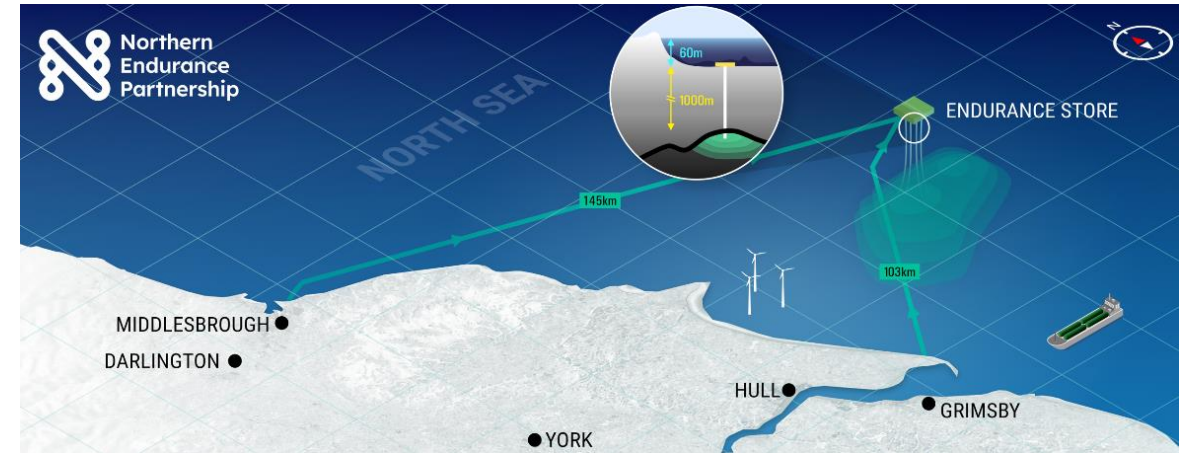
The NEP is developing a wide portfolio of CO2 stores – ready to serve the ECC expansion

Our Ambition

- DESNZ have selected 3 projects - Net Zero Teesside Power, H2Teesside and Teesside Hydrogen CO2 Capture – who will connect first to the East Coast Cluster – subject to business model negotiations.
- An average of around 4.1 million tonnes of CO2 per year will be captured and stored from these projects from first cluster operations in 2027.
- The NEP is investing to develop at pace our portfolio of storage sites which will more than double annual CO2 storage to an average of around 10mtpa by 2030 – ready to serve the expansion projects from both Teesside and the Humber as they are selected by DESNZ.
- The NEP hold a storage licence for the Endurance Store, and two expansion store licenses – giving access to a total of up to 5 stores. We are also awaiting the outcome of our application to the NSTA for a further licence – which means we could unlock up to 7 stores in total.
- The NEP aims to capture and store an average of 23mtpa by 2035.

Our Infrastructure

- First-of-a-kind offshore low carbon CCS infrastructure in the UK.
- Largest saline aquifer in southern North Sea – capacity to store 450m tonnes of CO2 with potential to extend capacity to around 1 billion tonnes with nearby stores.
- Includes CO2 pipelines from Teesside and the Humber.
- Compression and pumping systems to a common subsea manifold and well injection site at the Endurance store.



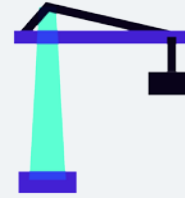
The socio – economic benefits of a fully deployed East Coast Cluster



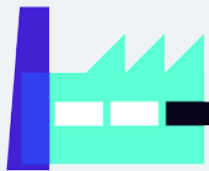
25,000+
jobs up to 2050
(average per annum)



~41,000
jobs peak
in 2026



Construction
9,400 direct jobs/yr
12,300 indirect jobs/yr



Operations
2,200 direct jobs/yr
13,300 indirect jobs/yr



25,000
potential additional
induced jobs/yr



£2bn+
average GVA
up to 2050

Thank You