



# Acorn Project Overview

Ian Phillips

Technical Development study partners



Funding partners

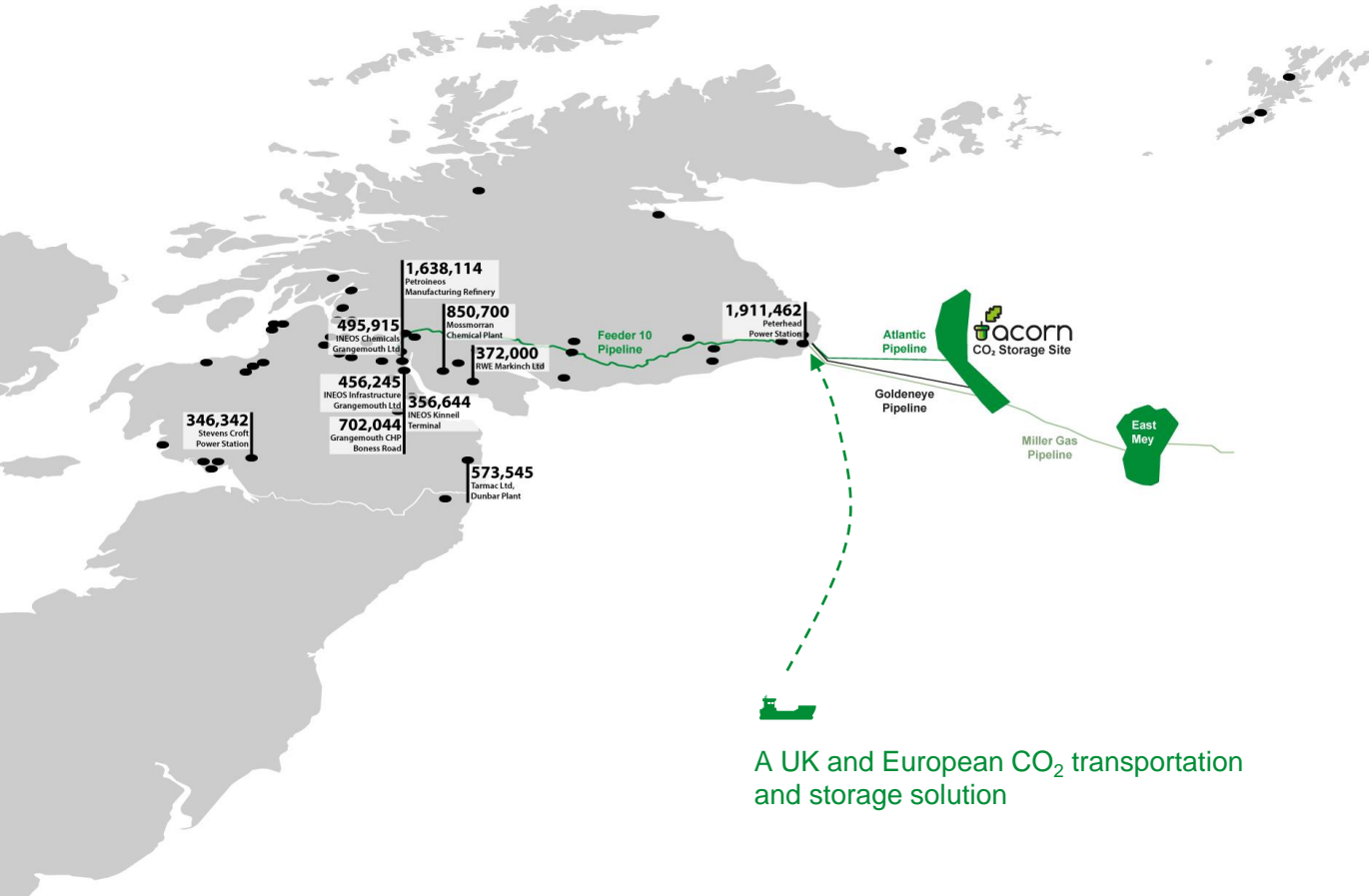


Co-funded by the  
Connecting Europe Facility  
of the European Union  
PCI Acorn SAPLING, Action  
12.2-0036

# Outline

- Overview of the Acorn Project
- The key – the Acorn Storage Licence
- Acorn Project – CCS and Hydrogen
- Timeline

# The Scottish Net Zero Industrial Cluster



A UK and European CO<sub>2</sub> transportation and storage solution



Full Cluster roadmap



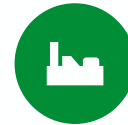
Access to key infrastructure



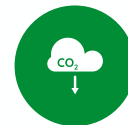
9Mt of Scotland's industrial CO<sub>2</sub>



A key UK and European CO<sub>2</sub> transportation and storage solution



Exciting suite of low carbon projects



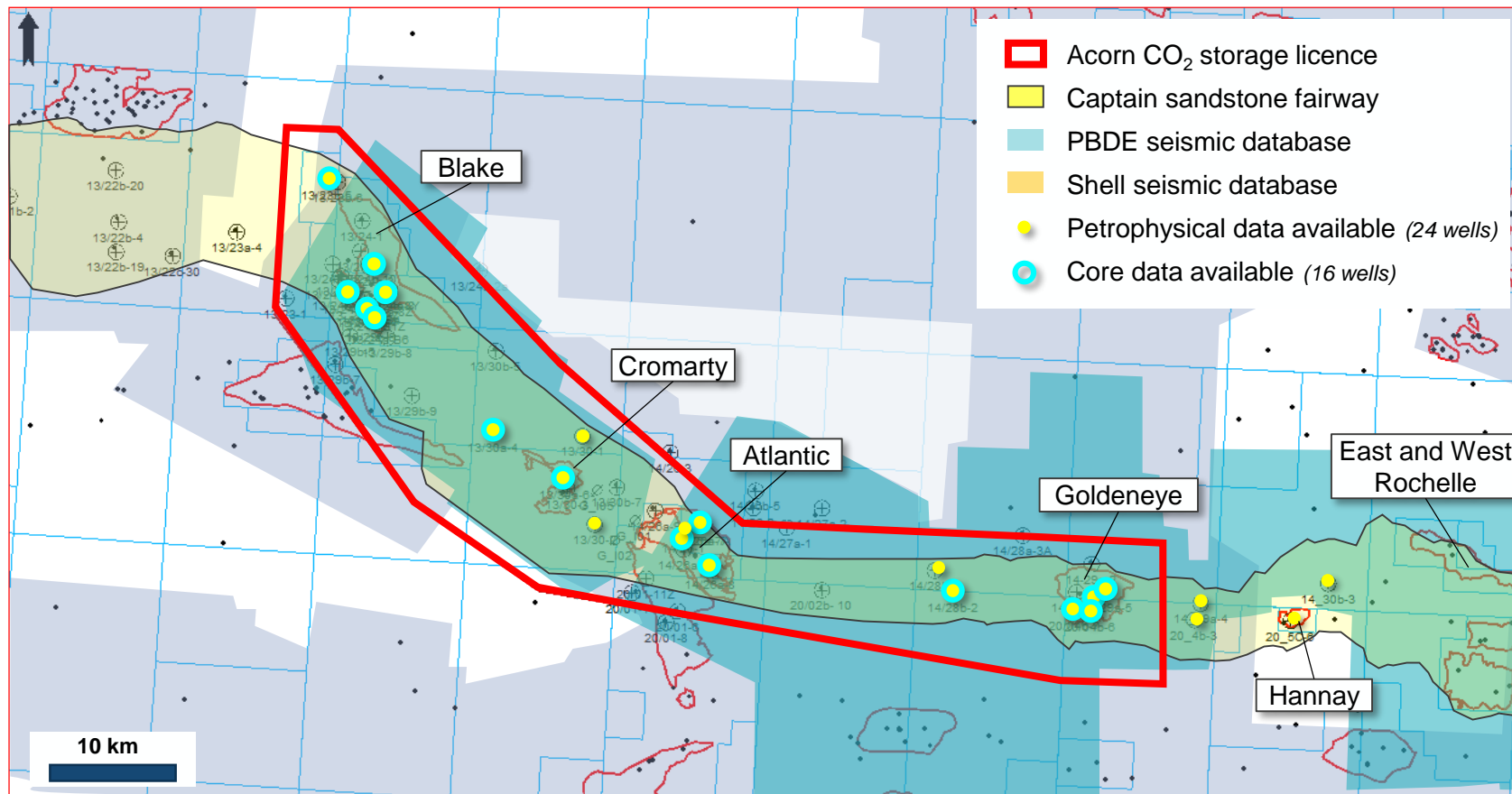
World class CO<sub>2</sub> stores



Carbon capture and storage and hydrogen infrastructure by the mid 2020s

# The key – the Acorn Storage Licence

## The Acorn Storage Licence



Rock Core data on **16** wells

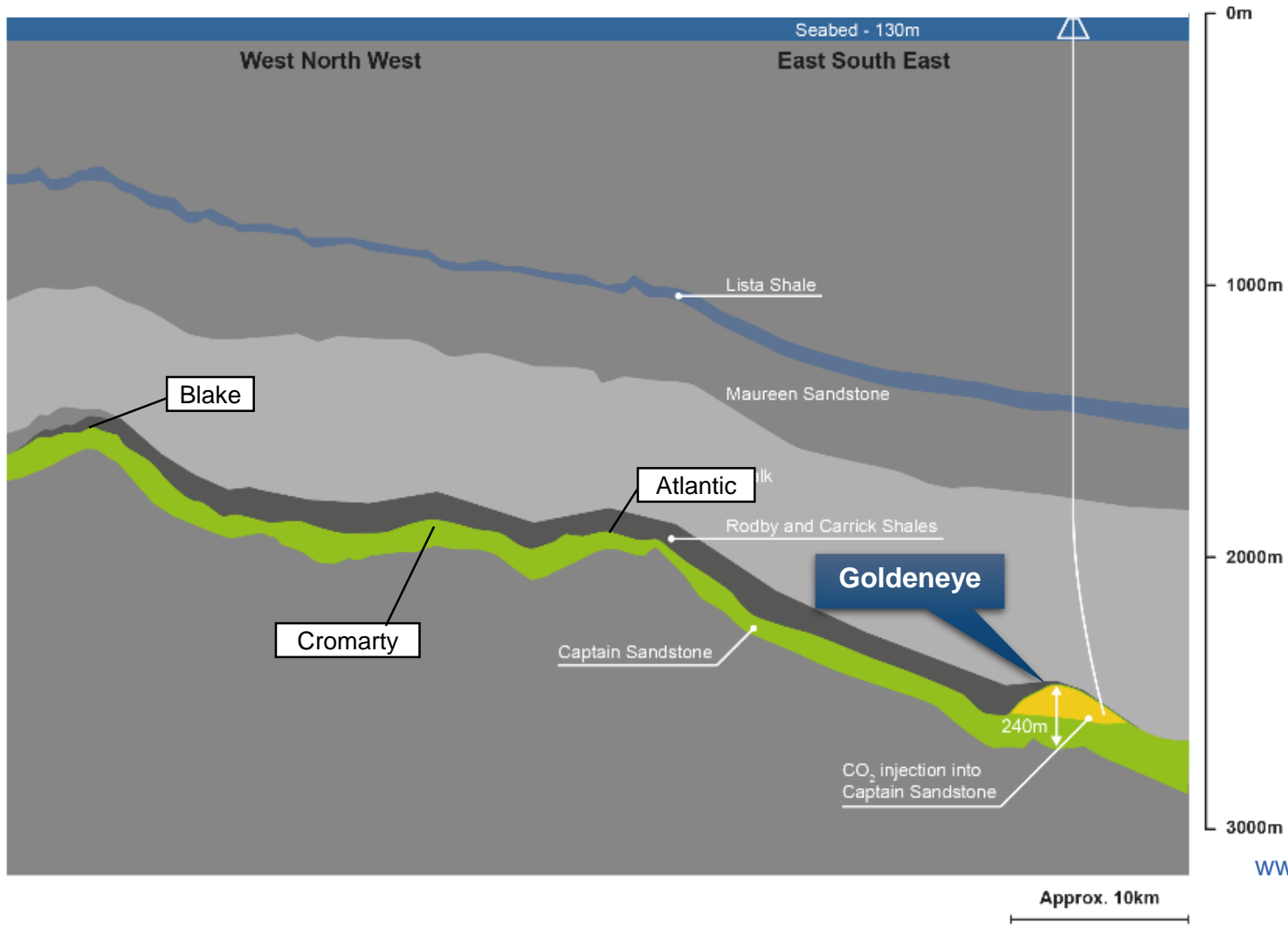
Detailed technical analysis on **24** wells

Data available for **73** wells

Extensive Seismic available

The key – the Acorn Storage Licence

# The Captain Sandstone – cross section



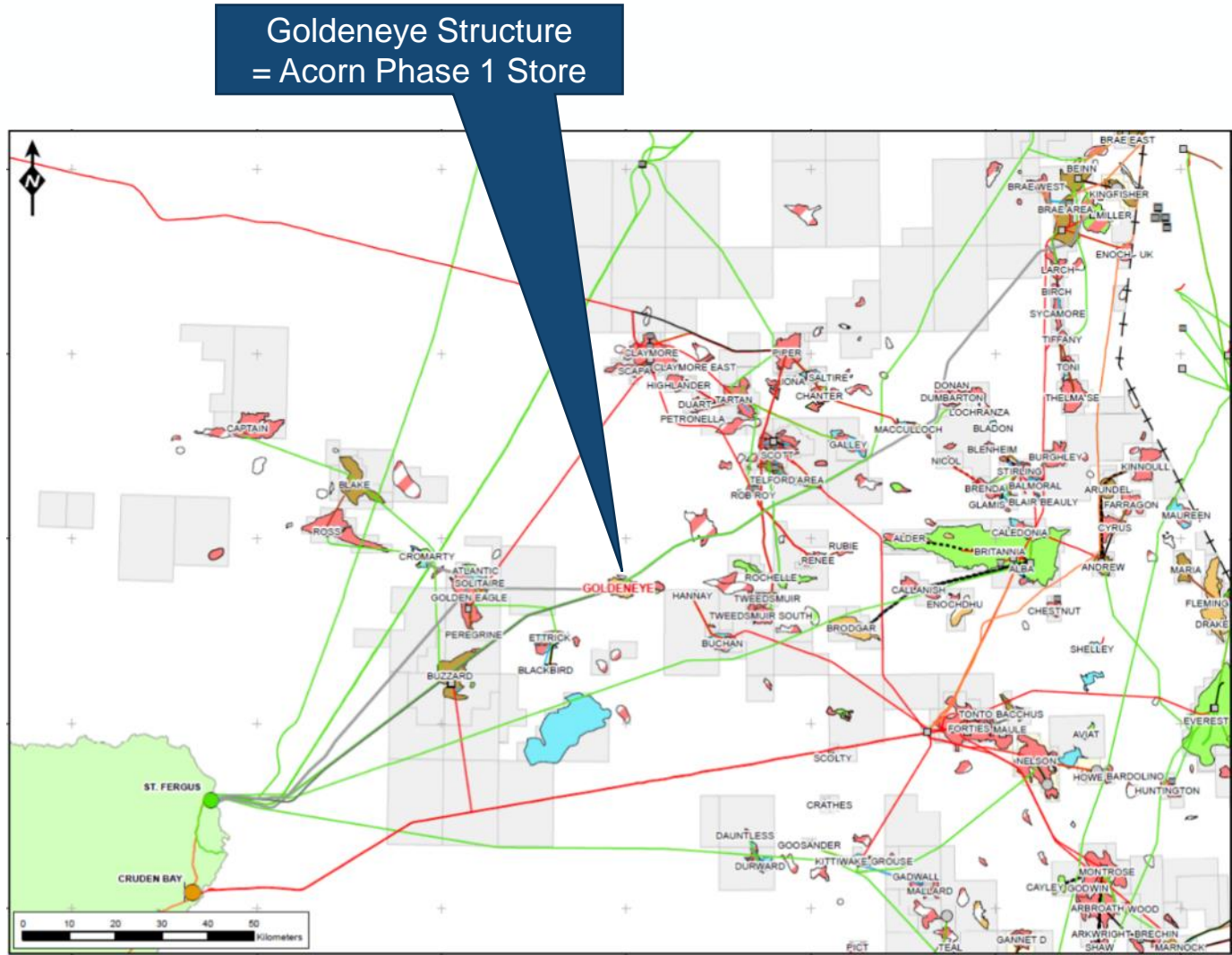
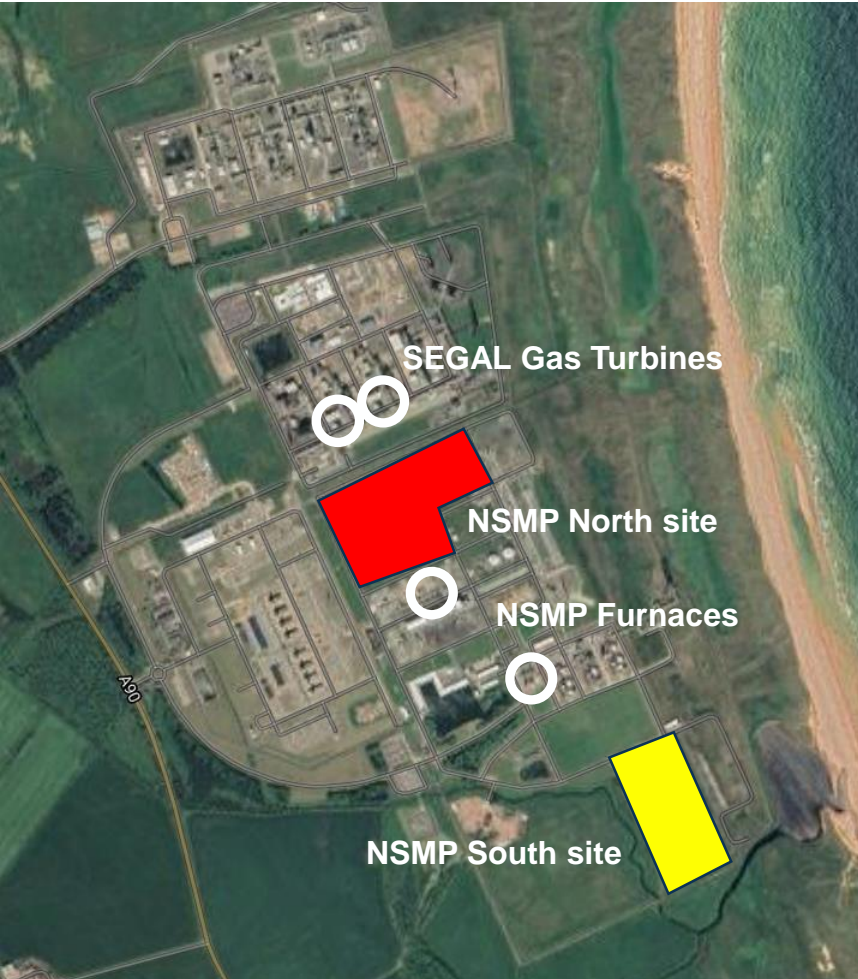
## The key – the Acorn Storage Licence

# The Acorn Licence

- Legal basis
  - Directive 2009/31/EC of The European Parliament and of The Council of 23 April 2009 on the Geological Storage of Carbon Dioxide”, otherwise known as the ‘EU CCS Directive’,
  - Has been transposed into UK law using secondary regulation
  - Storage of Carbon Dioxide (Amendment and Power to Modify) (EU Exit) Regulations 2018
- Crown Estate
  - Lease option on full area issued 27 November 2018
  - First ever such lease option
  - Convert to full lease prior to FID – responsibility now with Crown Estate Scotland
- Oil and Gas Authority
  - CO<sub>2</sub> Storage licence issued 6 December 2018
  - First ever licence issued by the OGA

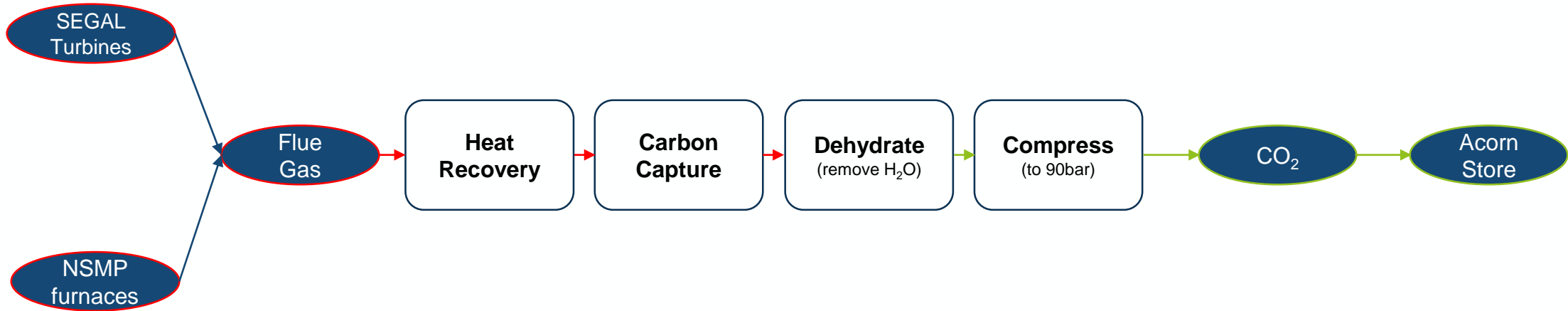


# Acorn Project – CCS and Hydrogen Project geography



# Acorn Project – CCS and Hydrogen

## Project overview - CCS

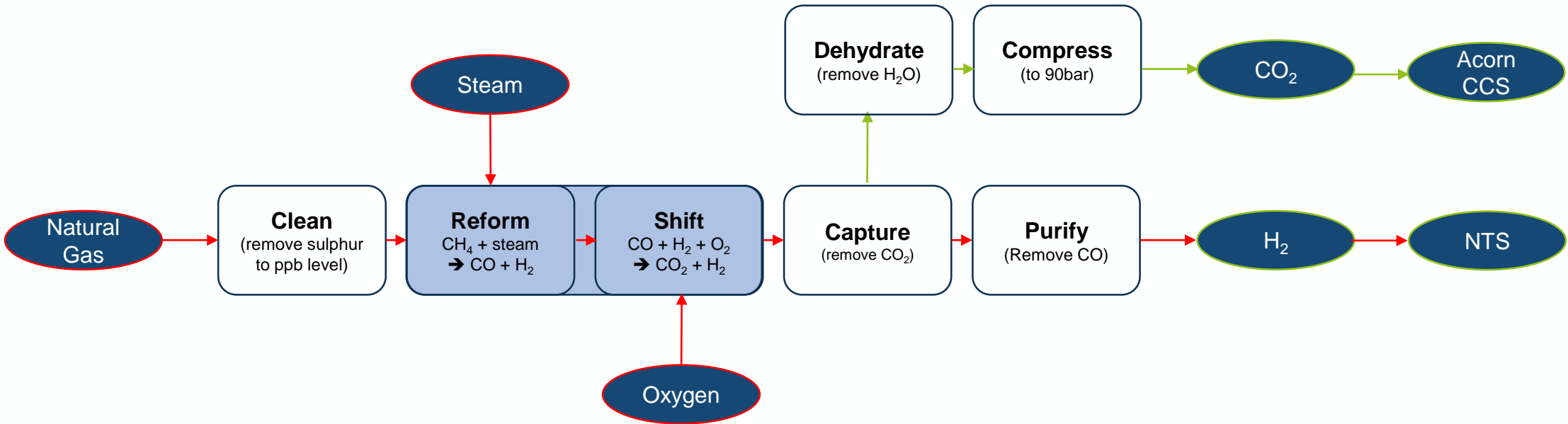




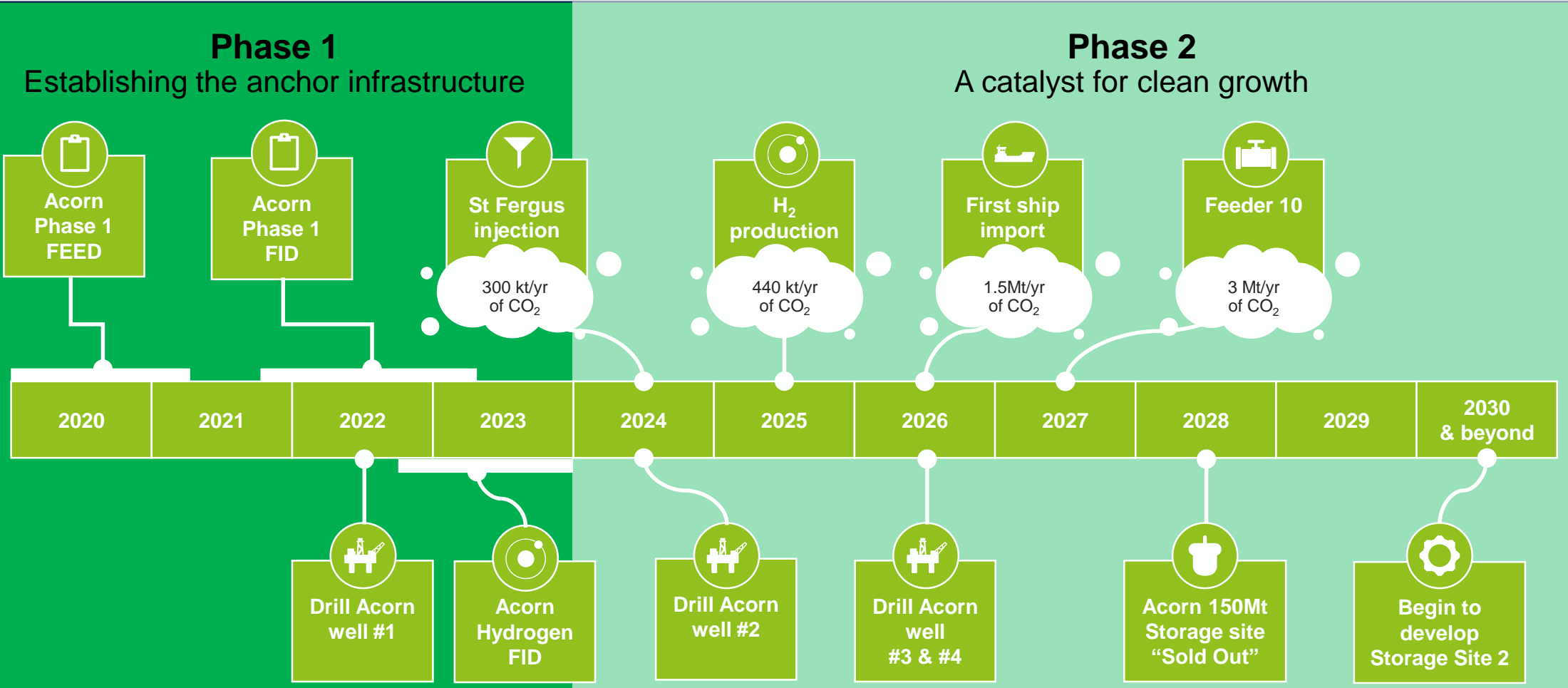


# Acorn Project – CCS and Hydrogen

## Hydrogen Project overview



# A Potential Acorn Timeline





# Acorn Project Overview

Ian Phillips presentation to EIC

Presentation to EIC – 13<sup>th</sup> August 2020

Technical Development study partners



Funding partners



Co-funded by the  
Connecting Europe Facility  
of the European Union  
PCI Acorn SAPLING, Action  
12.2-0036