



## CATO Meets the Projects

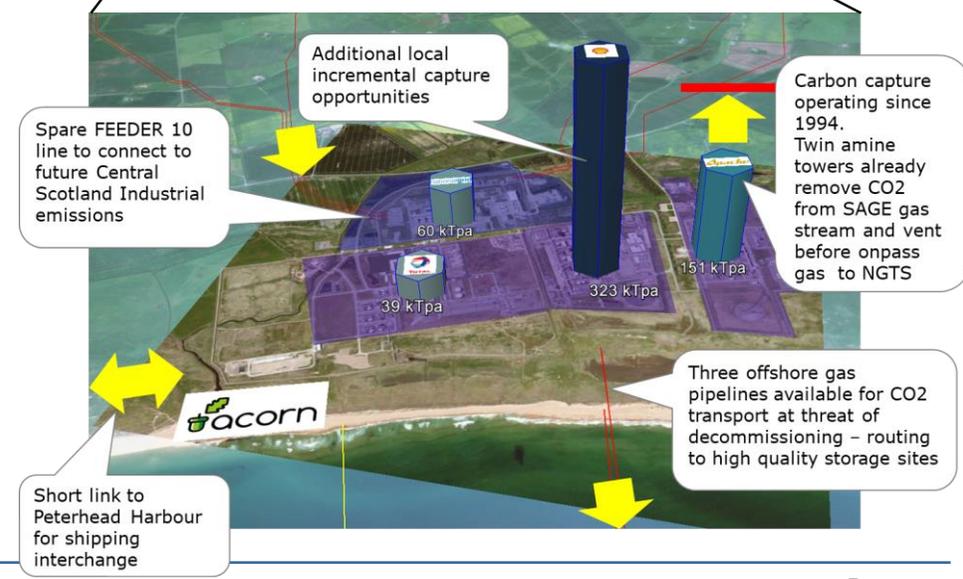
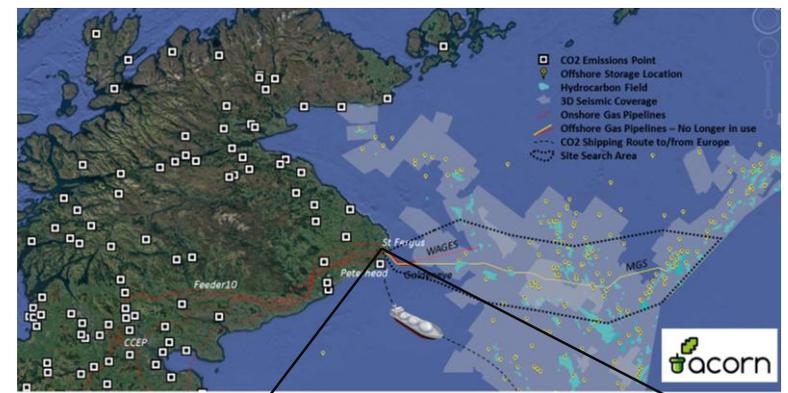
15<sup>th</sup> November - TNO Utrecht



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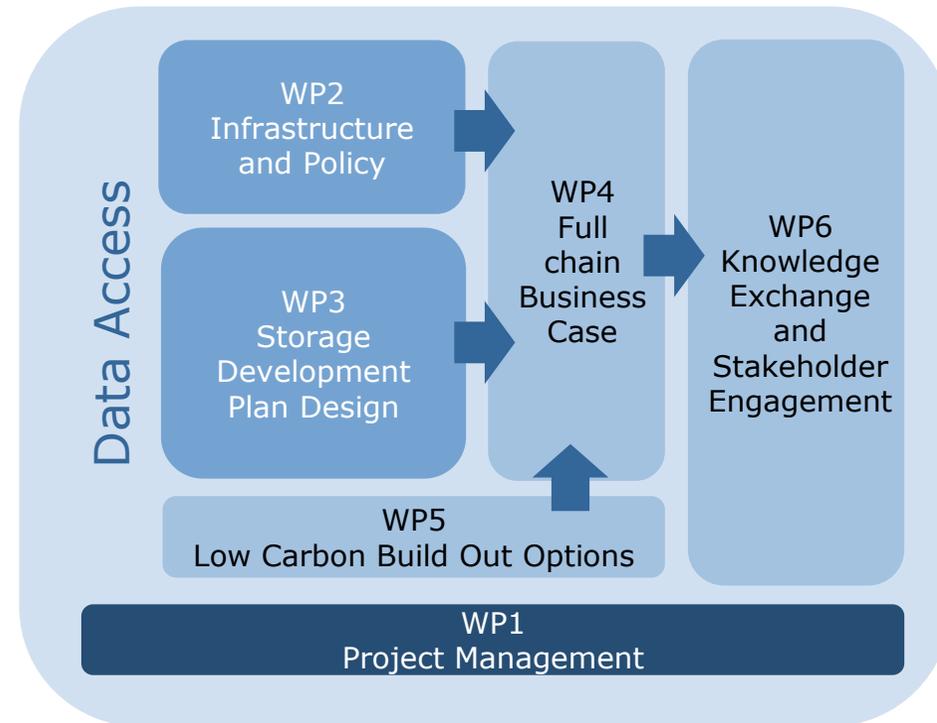
# Acorn: a breakthrough project

- Smallest viable full chain Industrial CCS project
  - Existing emissions from St Fergus gas terminals
- Seed infrastructure
  - Re-use opportunities
- Establish a strong build out
  - Multiplicity of transport & storage options
- Build upon work of others
- Significant interest in the project from a wide range of players



# Acorn ACT Objectives and structure

1. Produce a development plan & budget for a full chain I-CCS hub
2. Identify options to increase storage efficiency & drive scientific advancement in this area
3. Explore build-out options including CO<sub>2</sub> import, H<sub>2</sub> manufacture and CO<sub>2</sub> utilisation
4. Develop policy recommendations to protect relevant infrastructure from premature decommissioning
5. Engage with stakeholders to disseminate the lessons and encourage replication



Aug 2017 – Jan 2019  
 €2.9m project (grant of €2m)

# Project & Kick-off Participants



# Structure and collaboration

Collaboration opportunities with other projects

- Storage site selection workshop
- Site risk assessment workshops
- H2 economy & CCS
- Societal acceptance

## **Subsurface science**

- Understanding storage efficiency
- Geomechanics and rock strength
- Site selection & evaluation

## **Economic efficiency**

- Minimum viable development
- Growth and build out
- Business models

## **Policy recommendations**

- Just transition to regional decarbonisation
- Decommissioning hydrocarbon infrastructure
- Infrastructure re-use for CO<sub>2</sub> activity

## **Societal impact**

- Perceptions and acceptance
- Replication around the World
- Life-cycle analysis

# Relevance to the Netherlands

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- Peterhead Port industrial area small-scale testing ground for cluster-based development of CCS
  - Rijnmond, Delfzijl, Vlissingen, IJmond, ...
  
- Also in the Netherlands much offshore infrastructure to be decommissioned
  - Life-cycle assessment, costing and policy options
  
- Role of CCS in a just transition relevant in the Dutch transition pathway high-temperature heat and Government Agreement

# Contact Us



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