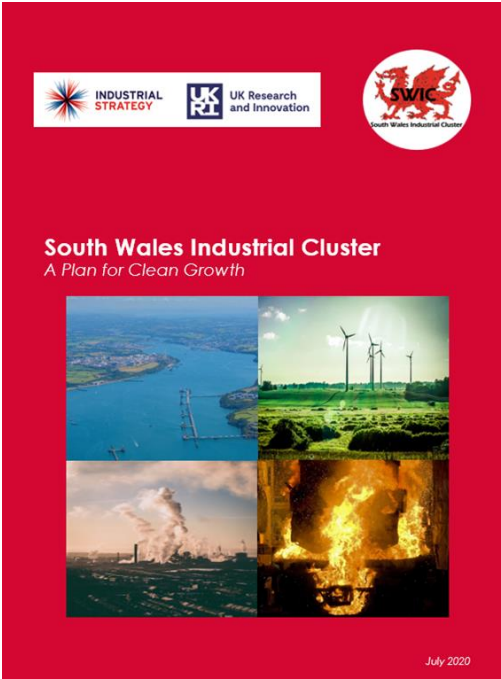
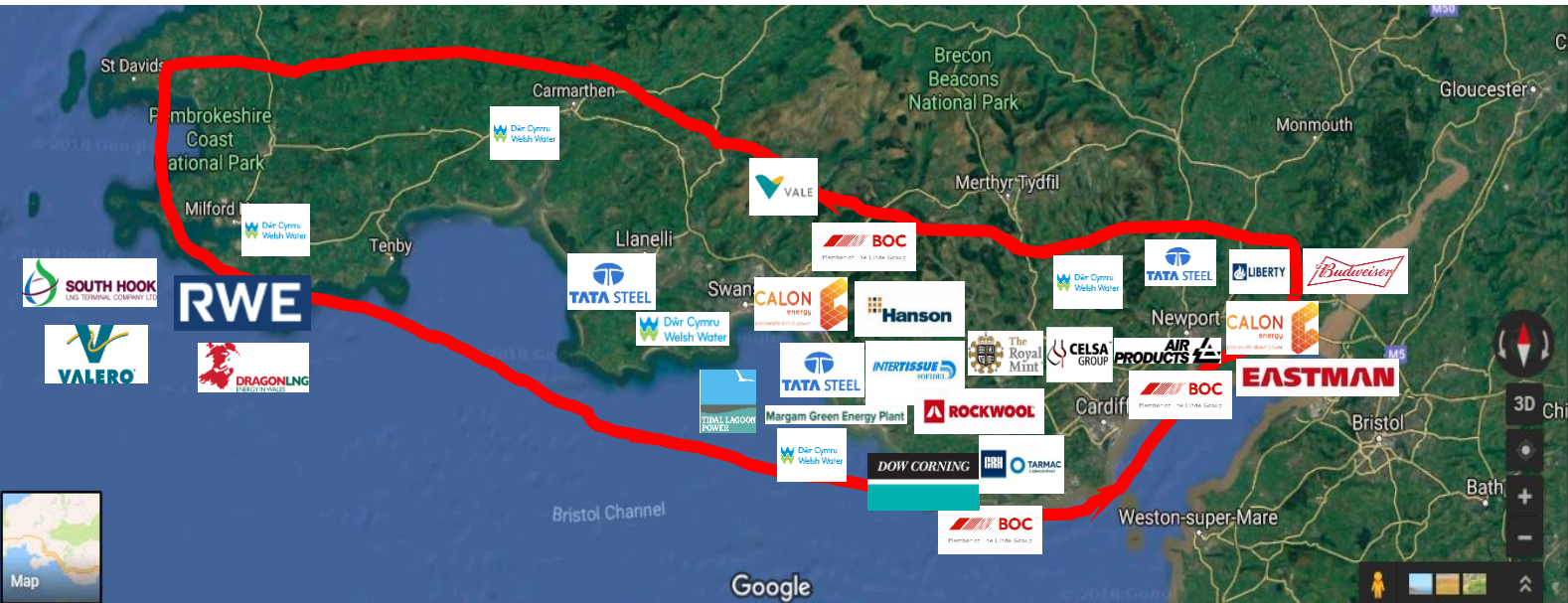


Developing a South Wales Industrial Cluster

- Steel, Oil, Cement, Chemicals, Nickel, Insulation, Paper, General Manufacturing
- Pembroke CCGT, Biomass and EFW stations
- 10 MTPA Industry + 6 MTPA Power



Key finding: it would be feasible for South Wales to transport its CO2 to other potential CCS hubs for permanent storage

Figure 31: Options for South Wales to ship CO2 to other ports¹⁸

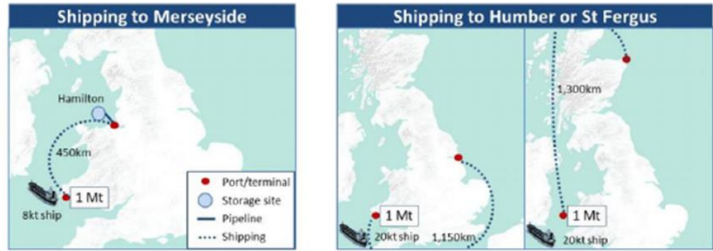


Figure 32: Unit costs of shipping CO2 from South Wales (undiscounted)



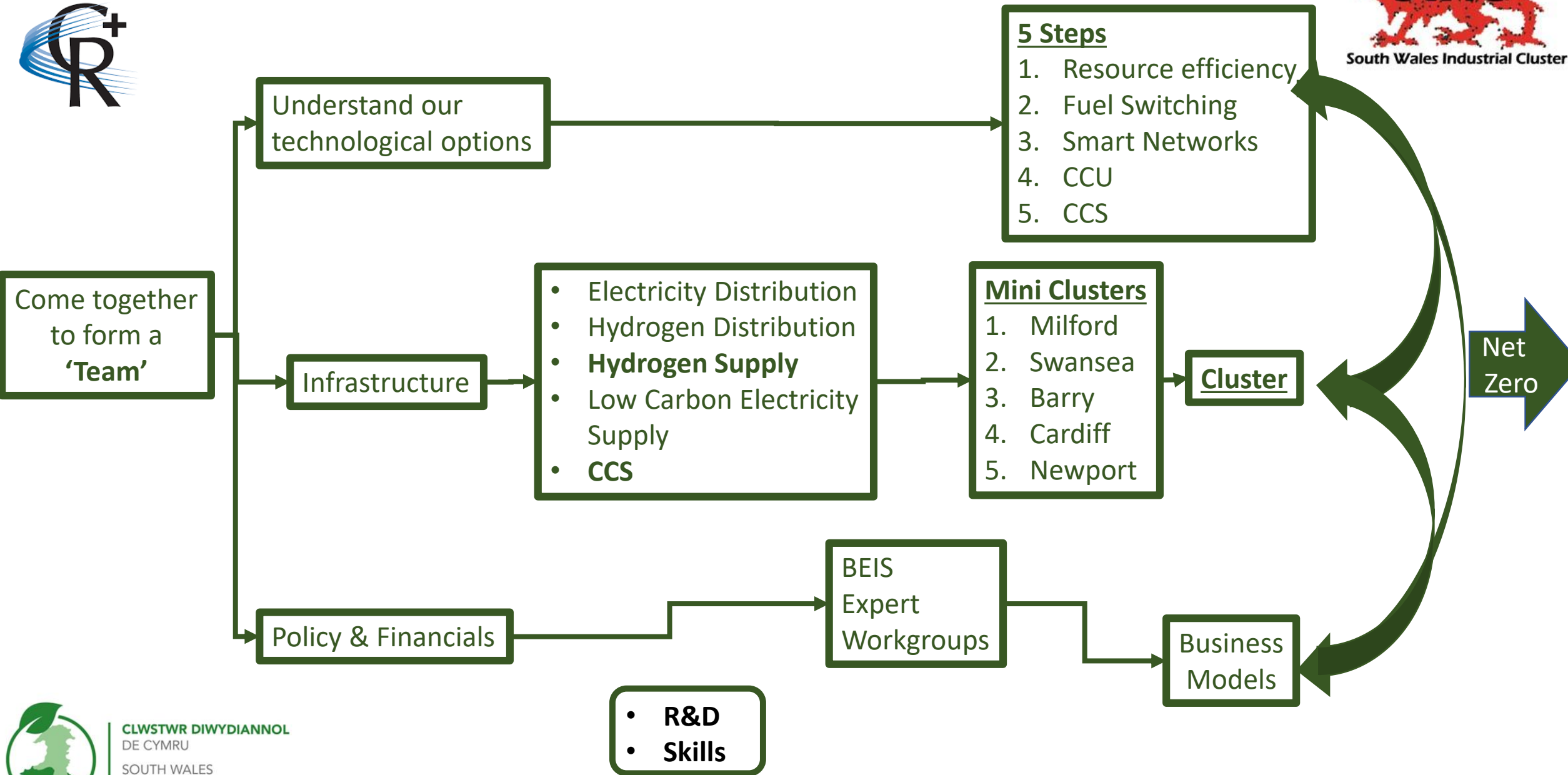
SWIC a plan for Clean Growth

30 Partners:

- CR Plus Limited,
- Associated British Ports,
- Capital Law,
- Carbon 8 Systems,
- Celsa Steel,
- Confederation of Paper Industries,
- Connect and Convey Ltd,
- Costain,
- Dragon LNG,
- Energy Systems Catapult,
- ERM,
- Front Door Communications,
- Industry Wales,
- Liberty Steel,
- Port of Milford Haven,
- National Grid Electricity Transmission,
- Neath Port Talbot Council,
- Offshore Renewable Energy Catapult
- Pembrokeshire County Council,
- Progressive Energy,
- ROCKWOOL Ltd,
- RWE,
- Siemens,
- Tarmac,
- University of South Wales,
- Vale Europe,
- Valero Energy,
- Western Bio-Energy,
- Western Power Distribution
- Wales & West Utilities.



Cluster Plan to net zero (Feb '21 to March '23)



Cluster Plan – Elements of the Jigsaw



Clean Energy Generation

Carbon Capture Storage

Clean Energy Distribution

Site Users (Demand Side)

Define the need for the above infrastructure

CCUS & Smart Networks offer Clean Growth *(across the spatial spectrum)*

Stakeholder Management

(Entity + Touch-Points with City's, Transport, Commercial & Public Sectors to establish infrastructure boundary conditions)

**Academic Interaction
Skills & Resources,
Horizon Projects**

Cluster Plan – Integration

**Economics of Decarbonisation
Business Models & Finance,
Legal/Legislative**

Technology & Service providers

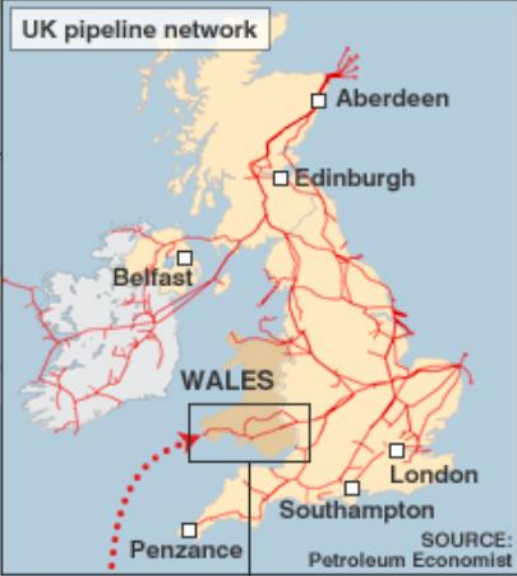
We Need All Pieces

Cluster Plan currently is providing a forum covered by a comprehensive collaboration agreement for Partners & Participants to come together to work on a plan that is deliverable.

SWIC Cluster Plan Covers 16MtCO₂ scope 1 emissions.

Real Opportunity

To develop collaborative working and gain hi-level insights into plausible pathway to Net Zero Carbon using Circular Economy Pathways



“Developing the art of the possible for decarbonising South Wales”

Developing the Infrastructure to enable Industrial Decarbonisation

