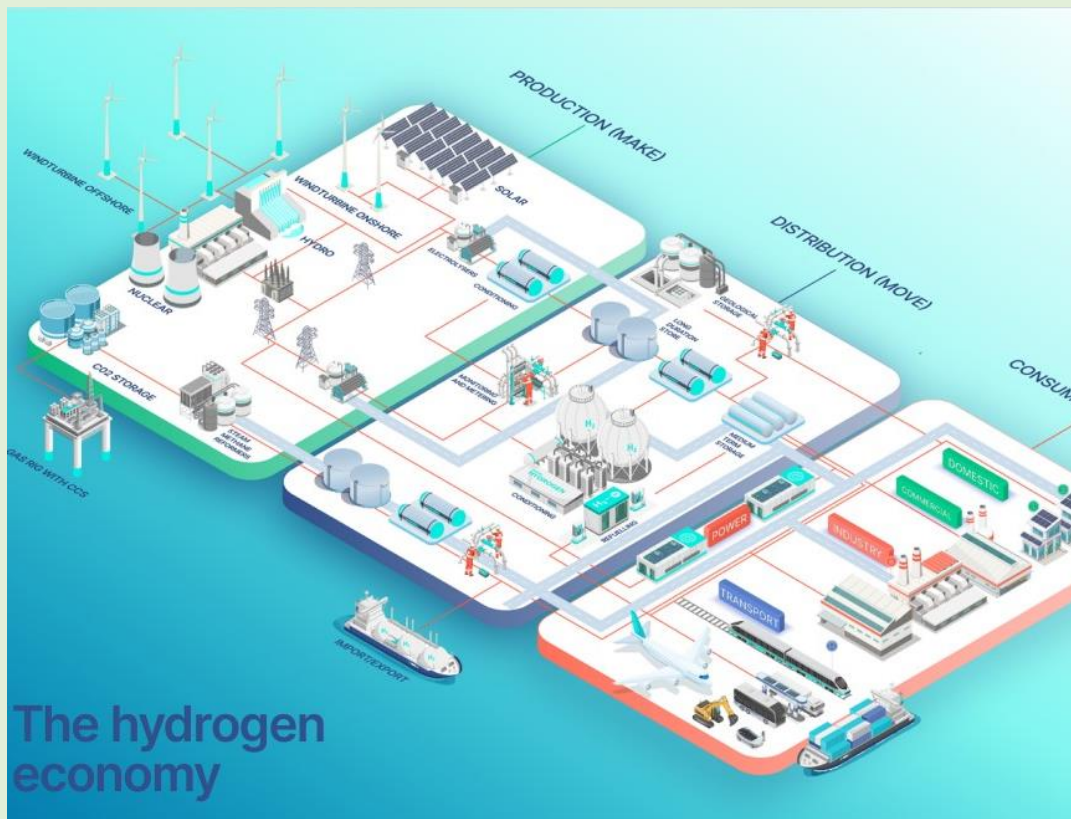




Hydrogen Innovation



We received a series of documents from the Catapult around value chain and employment potential around Innovation and the Hydrogen Sector.

Reviewing the materials is perhaps most effective through curation of their infographics:

The strategic areas of opportunity are:

1. Production of hydrogen and conversion into carriers

Focussing on the technologies required to scale up hydrogen production and reduce its cost. Also, the conversion of hydrogen into transportable forms such as pressurised gas, liquid, or its many derivative carriers such as methanol, ammonia, and synthetic fuels.

3. Industrial hydrogen for feedstock, heat and power

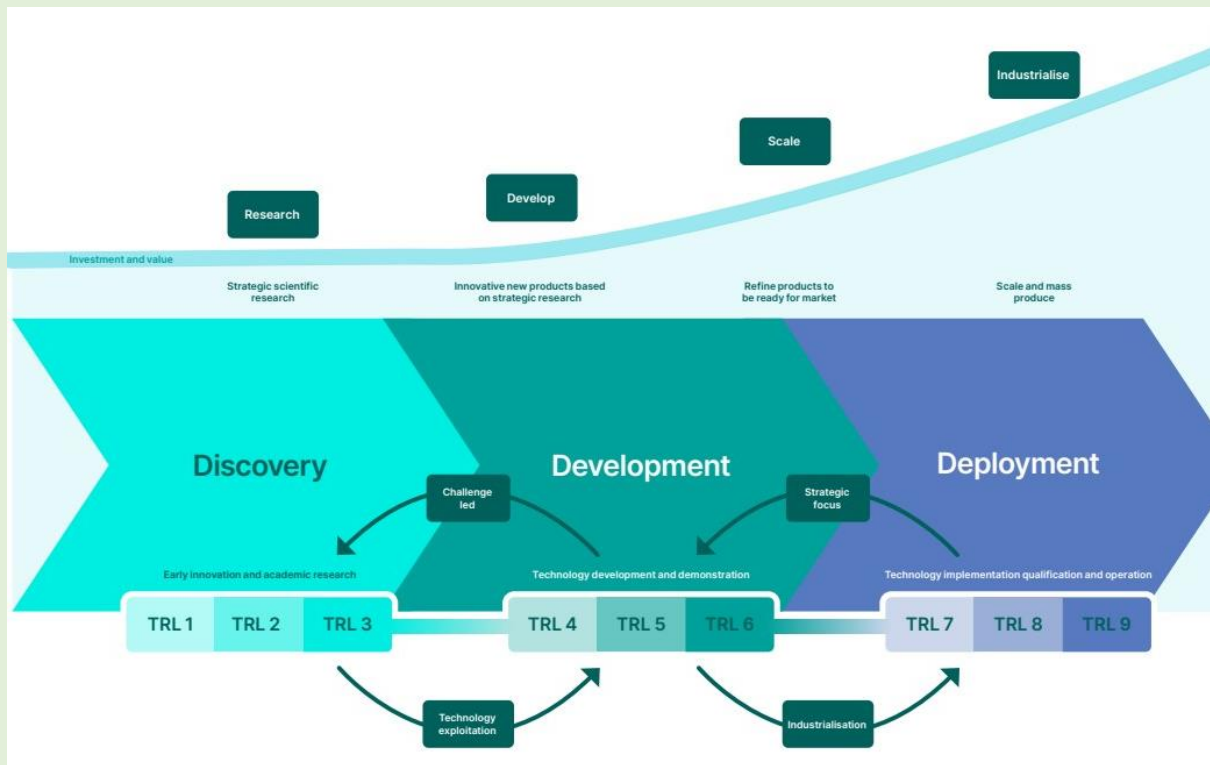
Focussing on the technologies required to support decarbonisation of heavy industrial sectors such as steel, aluminium and glass. Also considering its use for industrial space heating or power for industrial purposes, along with its use as feedstock for chemicals or pharmaceuticals.

2. Propulsion systems for transport

Focussing on the propulsion technologies required to enable hydrogen as an alternative fuel across the transportation sector, with potential crossover into power generation due to the cross-sector application of hydrogen turbines and remote power generation using fuel cells.

4. End-to-end hydrogen storage

Focussing on the technologies required to store hydrogen at various stages across the end-to-end of the hydrogen economy. This will include large scale storage for potential grid support or import bunkering to smaller scale refuelling stations and containers to transport hydrogen in discrete volumes.



Hydrogen technology market

\$1 trillion

9 cross-cutting hydrogen technology families

Target a 10% market share of the global market



The UK is starting from a strong base of industrial capability with an established innovation ecosystem. Under the right conditions and with the right strategic investments, this can be catalysed for growth.

The UK Hydrogen Innovation Opportunity in figures



\$8 trillion

The global hydrogen economy in 2050, considering direct and indirect economic activity



4 areas of focus

Representing the biggest areas of potential for the UK

\$1 trillion

Global hydrogen technology market by 2050
Delivered by 9 cross-cutting technology families



10 year window

To secure our position as market maker



Charley Rattan
Associates
Wind and hydrogen consultancy and training



Stay informed at the moderated focus group; <https://bit.ly/Innvtn>
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Join us <https://lnkd.in/eMx4PHv> for Hydrogen training

