



#### UK Hub for Research Challenges in Hydrogen and Alternative Liquid Fuels

#### **Hub Vision**

The flagship UK-HyRES hub will **identify**, **prioritise** & **deliver sustainable solutions** to **research challenges** that must be addressed to ensure widespread adoption of hydrogen & alternative liquid fuels to meet Net Zero.

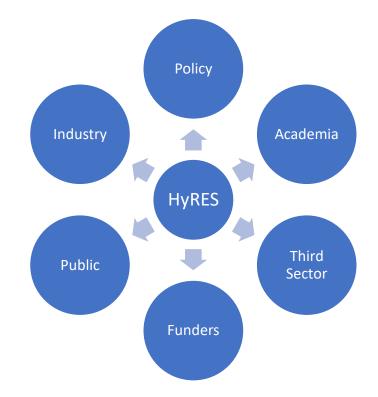
UK-HyRES will provide an integrated **network** & **collaboration platform** for fundamental research & will be a focus for the UK research **community**.

www.ukhyres.co.uk

# Partnerships

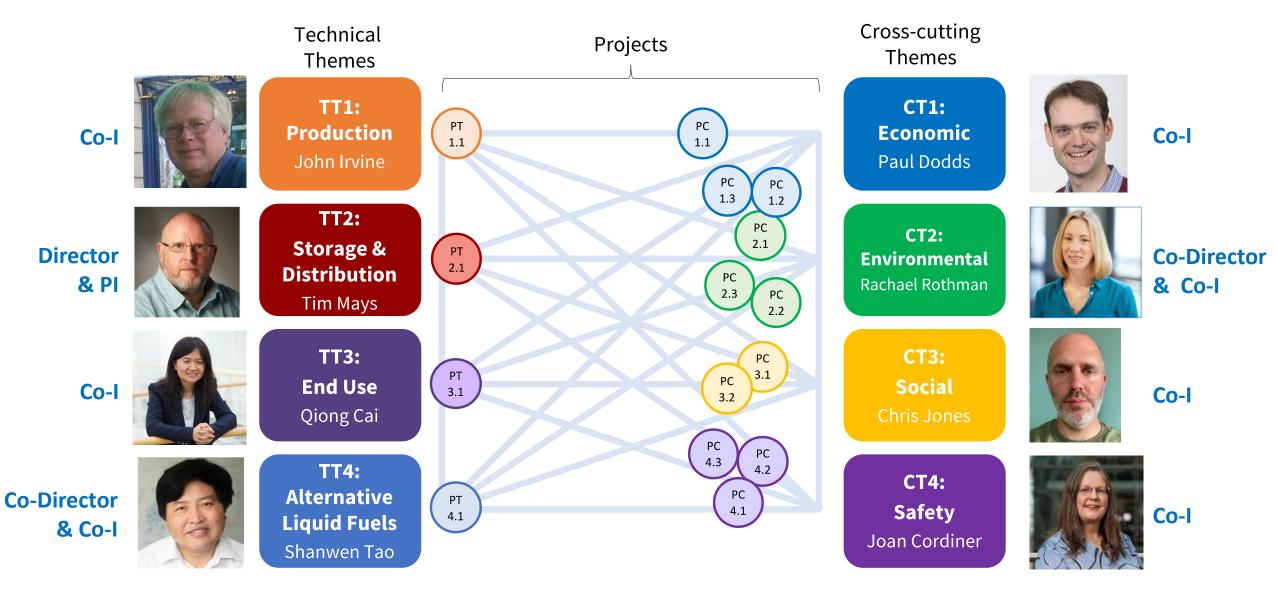
- £23.7M overall funding at this stage
- £10.0M EPSRC funding
  - £4.7M flexible fund
- **£8.1M** support from university partners
- £5.6M <u>confirmed</u> initial leveraged co-funding from 19 industry and other partners
- Additional strong support from potential collaborators
- Research across hydrogen value chain
- Multi-disciplinary, multi-site, integrated UK Hub
- 7 core universities, 9 core investigators, 15 projects already defined





### Structure





# Exemplar – Project PT2.1

Technical theme TT2 Project PT2.1: Advanced Solid-state Hydrogen Storage

**Research Challenge:** Safe, **h**igh density hydrogen storage for aerospace sector

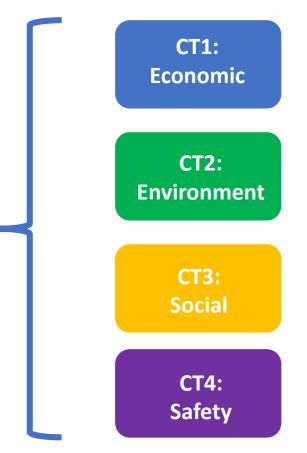
**Project:** Stablisation and scale up of ultra-high local H<sub>2</sub> density in nanoporous carbons





**Cross-cutting themes** 

**UK-HyRES** 



**Courtesy GKN Aerospace** 



## **Priorities**

- ED&I, RER&I, ECRs
- Collaboration with HI-ACT
- Calls for flexible funding
- New partnerships and funding
- Deliver real and sustained impacts
- Globalisation
- Look to 2028, 2050 and beyond



