

# KTN and the Hydrogen Innovation Network



Avijita Kharel, Innovate UK KTN

[www.ktn-uk.org](http://www.ktn-uk.org)





## About Us

Innovate UK KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.



# What we do



## Connecting

- Finding valuable partners
- Project consortium building
- Supply Chain Knowledge
- Driving new connections
- Articulating challenges
- Finding creative solutions



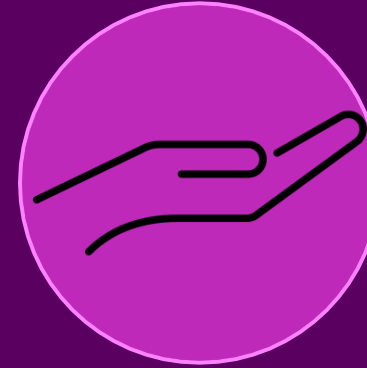
## Funding advice

- Awareness and dissemination
- Public and private finance
- Advice – project scope
- Advice – proposal mentoring
- Project follow-up



## Influencing

- Promoting Industry needs
- Informing policy makers
- Informing strategy
- Communicating trends and market drivers



## Supporting

- Intelligence on trends and markets
- Business Planning support
- Success stories / raising profile
- High level application review



## Navigating

- Navigating the innovation support landscape
- Promoting coherent strategy and approach
- Engaging wider stakeholders
- Curation of innovation resources

# Hydrogen Innovation Network - Purpose

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To create a non-competitive advisory group to pool knowledge from existing hydrogen communities to validate views on the current challenges to enabling local clean hydrogen *uptake* at scale and cost and to find innovative solutions to those challenges.

## Production



## Transport & Storage

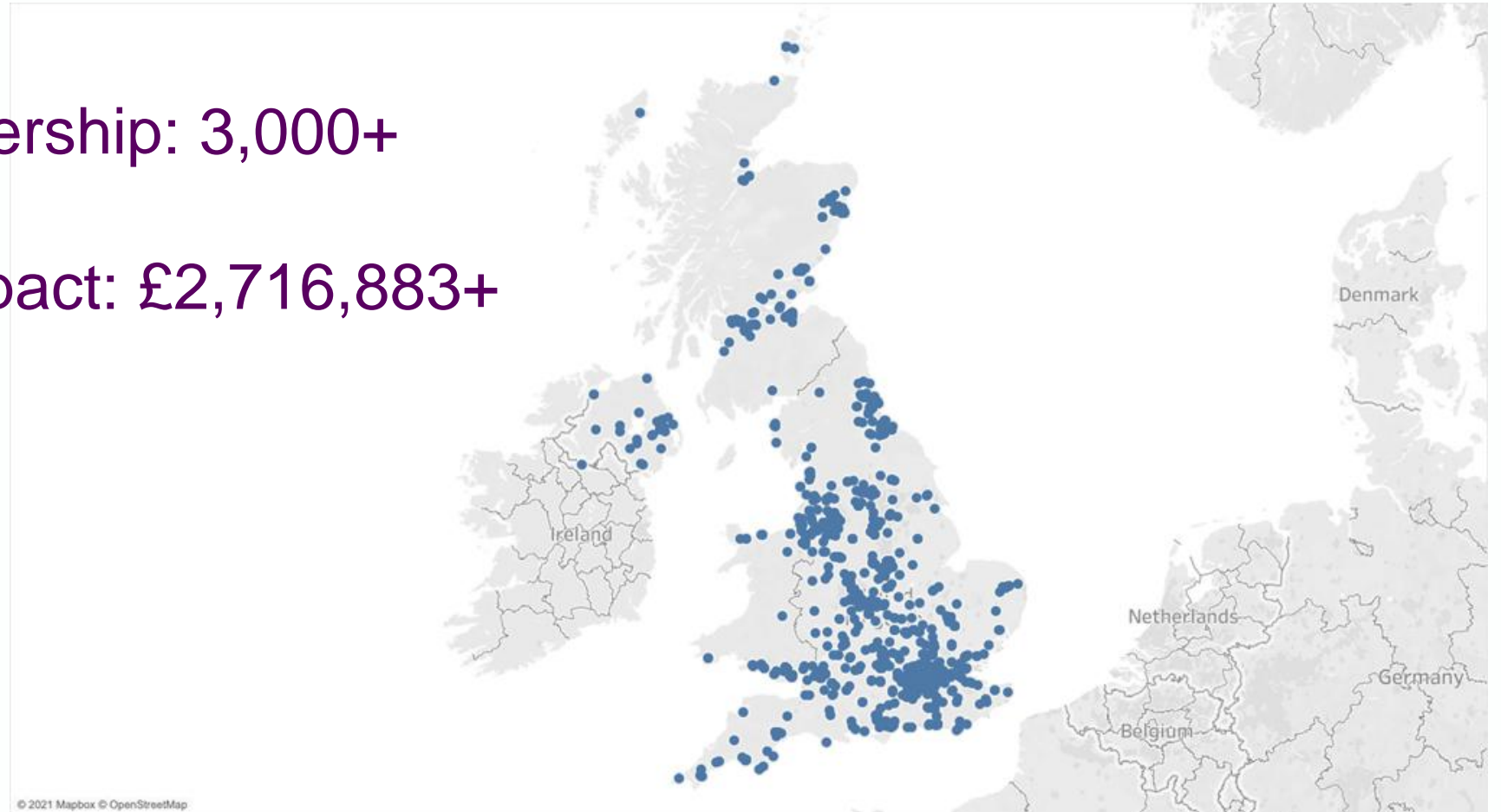


## End Use

# Membership

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- Current membership: 3,000+
- Investment Impact: £2,716,883+



# Activities and services we offer



[www.ktn-uk.org](http://www.ktn-uk.org)



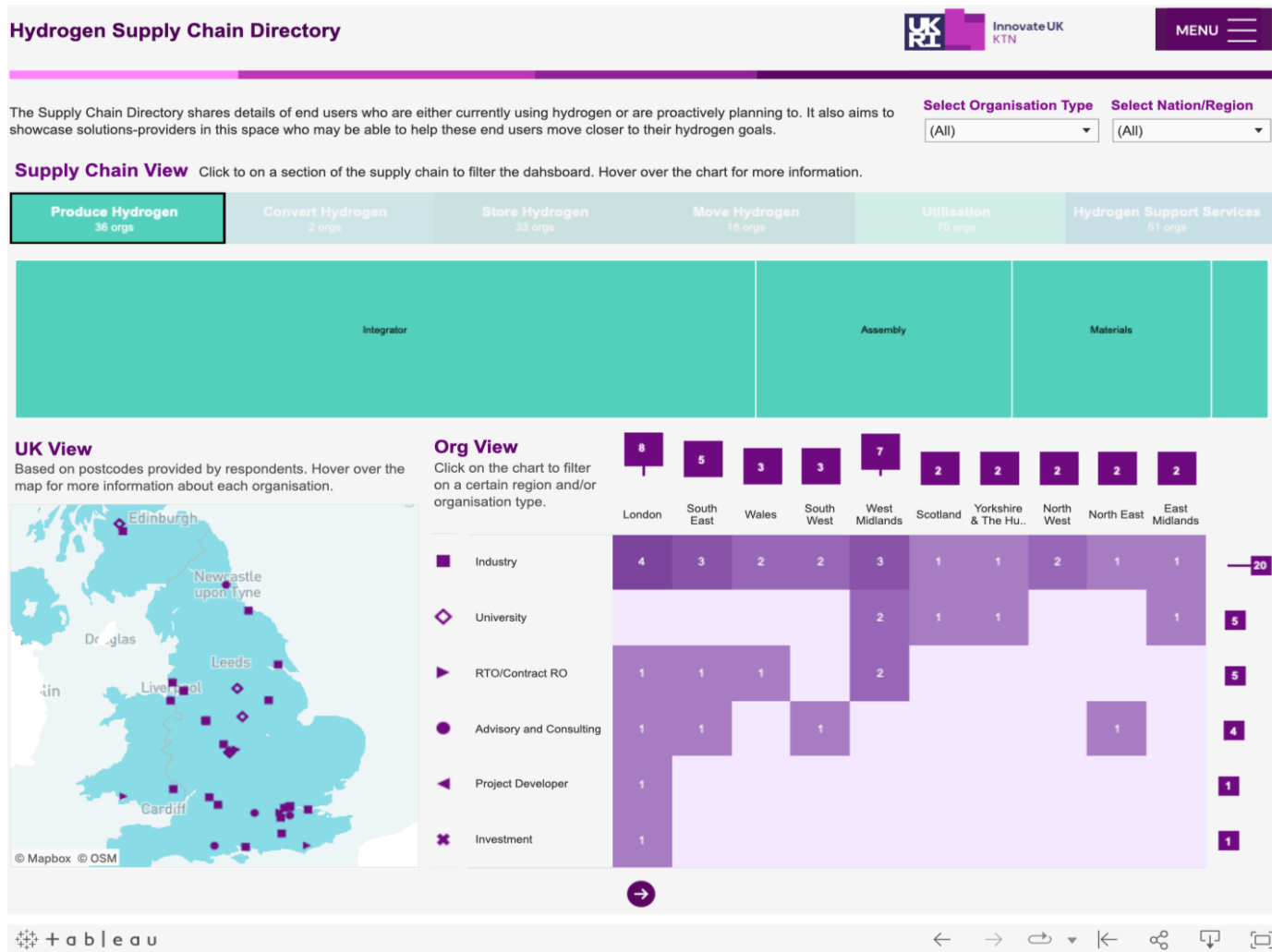
Innovate UK  
KTN

# Innovate UK KTN Hydrogen Innovation Network 2023

- **Network/Connect the right people**
- **Community of UK hydrogen supply chain technology businesses and end users**
- **Bridge between Academia, Government, Public and Private sector**
- **Database of thousands of companies**
- **Investors and skilled workers**



# Innovate UK KTN Hydrogen supply chain directory



- [Hydrogen Supply Chain Directory](#) to discover the 200+ organisations across the UK in Hydrogen supply chain.





# Innovate UK KTN Hydrogen Innovation Network 2023

- **Funding support**

Discover the **latest hydrogen funding opportunities** and meet **energy investors**



- **Application support, Briefing, Information**



# Innovate UK KTN Hydrogen Innovation Network 2023

- **Knowledge sharing through:**

- **Events**



- **Podcasts**

- **Webinars**

- **Media and Newsletters**



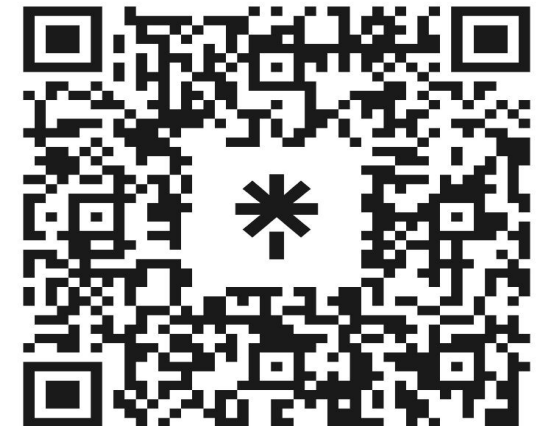
# Innovate UK KTN Hydrogen Innovation Network 2023

- **Advice/ Consultation**

**By helping startups with the right contacts and information**

**Signposting startups and organisations seeking help**

**Helping with applications (some applications only)**



# Innovate UK KTN Hydrogen Innovation Network 2023

**Providing opportunity and platform for organisations:**

**To share their story by pitching**

**To exhibit their technology**

**To share their events/ conferences and breakthroughs**

**To share their challenges**



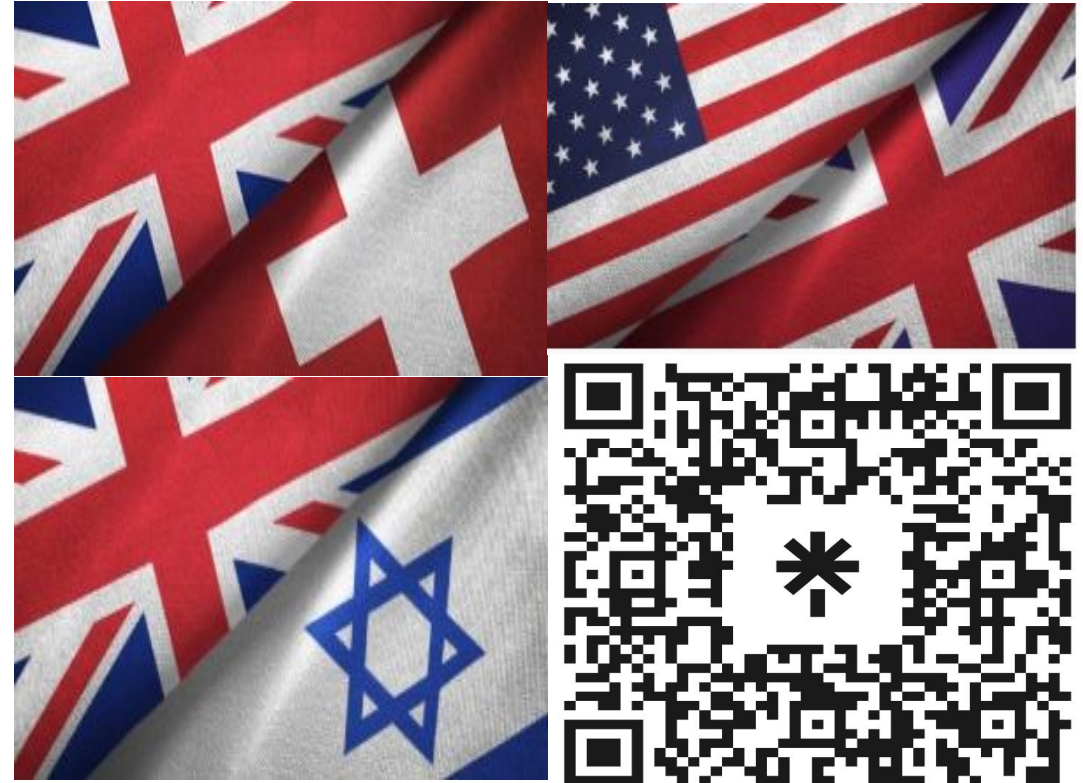
# Innovate UK KTN Hydrogen Innovation Network 2023

## Global reach

International partnership facilitation and UK  
technology commercialisation

Through Embassies and International partners

Support with International collaborative  
funds



# Innovate UK KTN Hydrogen Innovation Network 2023

**Overarching view of the supply chain landscape allows us to:**

**Plan and Execute programmes to address the gaps**

**Advise for more funding where needed**

**Case studies and Consultations to spread knowledge/information**



# Innovate UK KTN Hydrogen Innovation Network 2023

## Engagement and Collaboration

To reach Net Zero

To increase clean energy uptake from clean Hydrogen

To accelerate Hydrogen supply chain

To champion sustainability and low carbon Hydrogen



# Innovate UK KTN Hydrogen Innovation Network 2023

**Innovation**

**Through Innovation  
Exchange platform**



We connect **innovators, funders and collaborators** to transform ideas into solutions

Hydrogen Innovation Network runs **Hydrogen based innovation exchange programmes** to **solve** the **challenges** in Hydrogen sector.

KTN's **Innovation Exchange** programme connects companies with specific challenges to innovators who are already working on the solutions. Our unique cross-sector approach connects businesses with opportunities beyond their existing thinking.



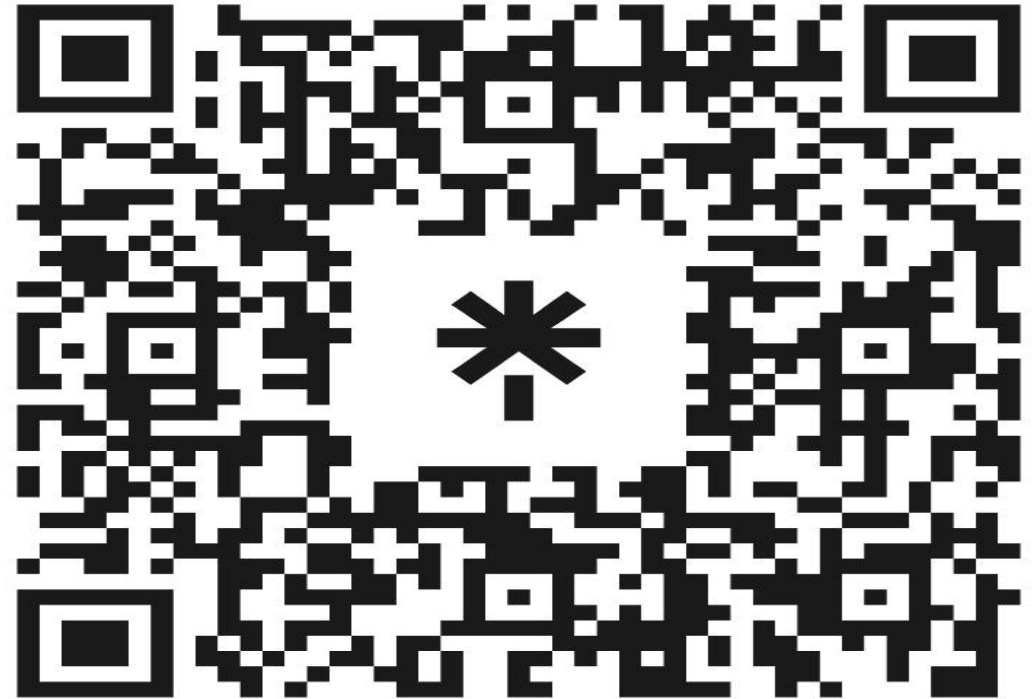


# Innovate UK KTN Hydrogen Innovation Network 2023

**THANK YOU VERY MUCH!**

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**KNOWLEDGE TRANSFER MANAGER**  
**HYDROGEN/CLEAN ENERGY**



# Innovate UK

- We are the UK's innovation agency and at the heart of delivering UK R&D expenditure to businesses
- We invest in new ideas and technologies and connect businesses to the right people to drive economic growth and social benefits



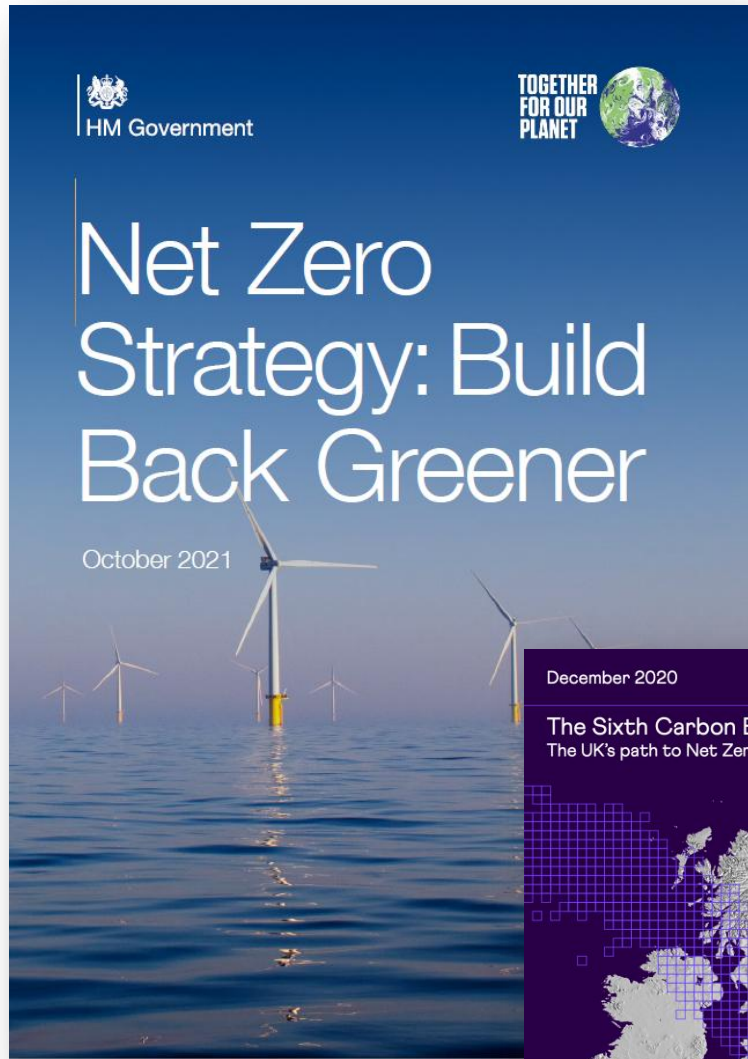
**UK Research  
and Innovation**

- **Wide sector cover: Health, Robotics, AI, Net Zero...**
- **Budget approaching £1 billion**

# Net Zero: Our Vision



**For the UK to prosper from being the  
fastest transitioning economy to net zero**



# Our Net Zero Foundations



# Funding Opportunities

- Industrial Strategy Challenge Fund (ISCF)
- Innovate UK Smart Grants
- Small Business Research Initiative (SBRI)
- Managed Programmes
- Knowledge Transfer Partnerships
- Innovation Loans
- Investor Partnerships
- Innovation to Commercialisation of University Research (ICURe)
- Catalysts (Biomedical and Energy)
- Future Leaders Fellowship
- International

**Innovate UK supports the following R&D categories:**

- fundamental research
- feasibility studies
- industrial research
- experimental development

**Not all funding options are open at any one time. Check website for latest opportunities.**

[https://apply-for-innovation-funding.service.gov.uk/competition/search?\\_ga=2.115831622.115414534.1616576710-389397812.1611493012](https://apply-for-innovation-funding.service.gov.uk/competition/search?_ga=2.115831622.115414534.1616576710-389397812.1611493012)

# Industrial Strategy Challenge Fund



## Ageing society

- Medicines manufacturing
- Data to early diagnosis and precision medicine
- Healthy ageing
- Accelerating detection of disease



## AI and Data Economy

- Audience of the future
- Quantum technologies
- Next generation services
- Commercialising quantum technologies
- Digital security by design



## Future of mobility

- Faraday Battery Challenge
- Robotics in Extreme Environments
- Future flight
- Driving the electric revolution



## Clean growth

- Prospering from Energy revolution
- Low Cost Nuclear
- Transforming construction
- Transforming food production
- Manufacturing made smarter
- Smart sustainable plastic packaging
- Industrial decarbonisation

# Innovate UK Smart Grants

Innovate UK Smart grants support the very best, game-changing and disruptive ideas that have the potential to change the world.

Funding is available for projects at various stages, from feasibility studies through to developing and testing a prototype, coming from any industry and anywhere in the UK.

Projects should either:

- develop a brand new product, service or process
- take an existing technology or service above and beyond what's currently available in the field



# SBRI: the small business research initiative

## Helping government, helping businesses

### Helping government:

SBRI helps government organisations solve tough challenges by connecting them with innovative businesses.

### Helping businesses:

SBRI offers innovators the chance to win a government contract of to help demonstrate and develop their new technologies.

over 80 public sector organisations participated

average annual sales grow 30%





# SBRI

*Small business research initiative*



Pre-commercial procurement of R&D Services (Contract)



100% funding – avoids need for external investment



Work with a public sector customer or challenge owner



Applied to solve public sector delivery or policy challenges



Outcome-driven solutions with milestone payments



Open to all but tailored to SMEs

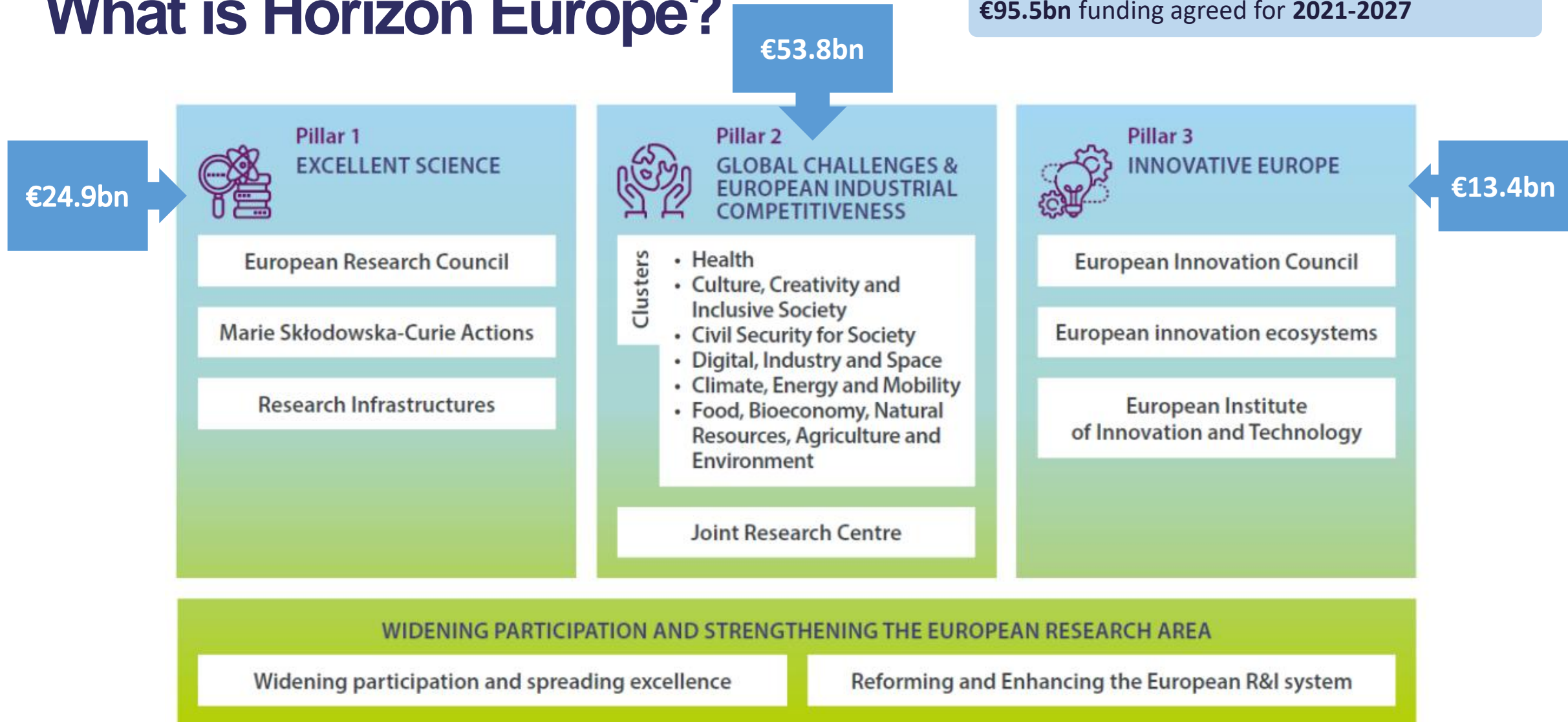
# Knowledge Transfer Partnerships (KTP)

- KTPs help UK businesses innovate and grow by linking them with an academic or research organisation and a graduate
- a KTP enables a business to bring in new skills and academic thinking
- the academic or research organisation partner will help to recruit a suitable graduate
- schemes last between 12 and 36 months



# What is Horizon Europe?

€95.5bn funding agreed for 2021-2027



Contact [louise.mothersole@iuk.ukri.org](mailto:louise.mothersole@iuk.ukri.org) for free support and guidance

# Horizon Europe – the facts

- UK organisations are fully eligible to apply for funding from the EU for all transport projects
  - 127 UK organisations sharing £106,996,565 for transport projects so far
- UK organisations have a better than average success rate in Horizon Europe for transport competitions
  - Average success rate across all countries – 28%
  - UK success rate – 33%
- Funding rate can be up to 100% of eligible direct costs plus additional 25% towards overhead – for all organisations, regardless of size (lowest funding rate for transport projects is 60% of eligible direct costs plus 25% towards overhead)

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# Call for proposals: Clean and competitive solutions for all transport modes

- Zero Emission Road Transport
- Aviation
- Waterborne transport
- Transport related health and environment



- [Link to call](#) on EU Portal
- Call opening 7 Dec 2023
- Call closing 18 Apr 2024
- 18 different Topics (competitions)

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2023 call closed 20 Apr 2023



Contact [louise.mothersole@iuk.ukri.org](mailto:louise.mothersole@iuk.ukri.org) for free support and guidance



European Partnership



## Clean Hydrogen Partnership

- Home
- About Us
- Projects
- Get involved
- Apply for funding
- Knowledge management
- Media
- European Hydrogen Week 2022

European Commission > Clean Hydrogen Partnership

### European Partnership for Hydrogen Technologies

The Clean Hydrogen Partnership's main objective is to contribute to EU Green Deal and Hydrogen Strategy through optimised funding of R&I activities. The Clean Hydrogen Partnership is the successor of the Fuel Cells and Hydrogen 2 Joint Undertaking (FCH 2 JU) and has taken over its legacy portfolio as of 30 November 2021.



## Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

- SEARCH FUNDING & TENDERS
- HOW TO PARTICIPATE
- PROJECTS & RESULTS
- WORK AS AN EXPERT
- SUPPORT

### Horizon Europe (HORIZON)

**!** Due to urgent maintenance activity, procurement workflow will not be available between 29/06/0223 17:30 and 29/06/2023 18:30. We apologize for the inconvenience caused.

- Match whole words only
- GRANTS  TENDERS

Submission status

Forthcoming (4)	Open for submission (2)	Closed
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### Funding and tenders (6)

<b>Support to the SET Plan IWG on hydrogen</b>			
HORIZON-CL5-2023-D3-03-08			
Programme	Horizon Europe (HORIZON)	Status	Open for su
Type of action	HORIZON Coordination and Support Actions	Deadline model	single-stag
Opening date	04 May 2023	Deadline date	10 October

# Public support for hydrogen doesn't always have hydrogen in the title!

- Industrial Cluster Decarbonisation ISCF
- Industrial Energy Transformation Fund
- Prospering from the Energy Revolution ISCF
- Future of Flight ISCF
- Aerospace Technology Institute Programme
- Driving the Electric Revolution ISCF
- Dept for Transport's Teesside Hydrogen Hub
- Automotive Transformation Fund/APC/ IDP Programmes
- Zero Emissions Road Freight Trial
- DfT Clean Maritime
- SMART
- Innovation Loans
- Strength in Places Fund
- Energy Catalyst
- Newton Fund
- Clean Air SPF
- Greenhouse Gas SPF
- Ofgem Strategic Innovation Fund
- Wider UKRI programmes
- Low Cost Nuclear
- Faraday Battery Challenge
- Active Building Centre
- Transforming Construction
- UK Energy Research Centre
- Hydrogen and Fuel Cell Supergen Hub
- Hydrogen Research Centres of Excellence and Integration ( (in development)
- Decarbonising Heating and Cooling
- Power Networks Demonstration Centre (PNDC)
- Centre for Research into Energy Demand Solutions (CREDS)
- Translation Energy Research Centre
- UK Collaboratorium for Research on Infrastructure and Cities (UKCRIC)
- Place Based Climate Action Network (PCAN)
- UK CCS Research Centre
- Bioenergy Supergen hub
- Networks & Storage Supergen
- Decarbonising Transport Network
- Midlands Energy Research Accelerator
- KTN's Hydrogen Innovation Network
- High Value Manufacturing Catapult (e.g. National Composites Centre)
- Energy Systems Catapult
- Connected Places Catapult



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# Thank you

**Steffan Eldred**

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