Introduction to KTN

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Innovate UK Family



Department for Business, Energy & Industrial Strategy



Fund





Connect





Collaborate



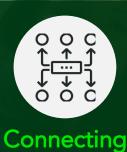




KTN exists to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.



What we do



Finding valuable partners

Project consortium building

-

Supply Chain Knowledge

-

Driving new connections

-

Articulating challenges

Finding creative solutions



Funding

Awareness and dissemination

7

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



High level Application Review

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Intelligence on trends and markets

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Business Planning support

Success stories / raising profile



Navigating

Navigating the innovation support landscape

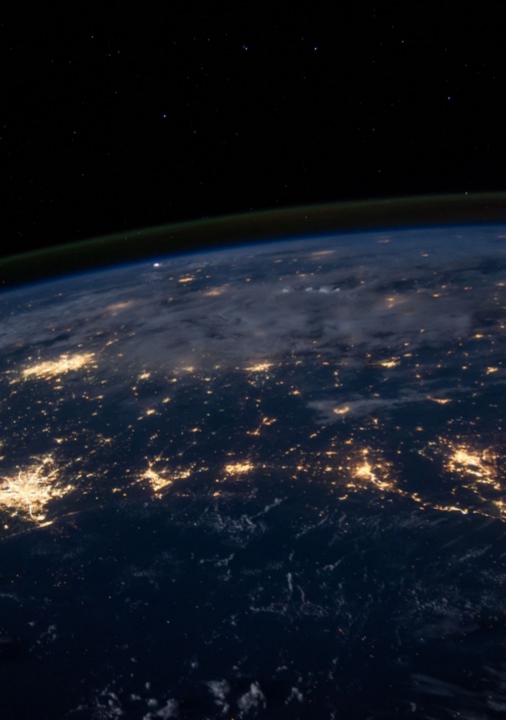
Promoting coherent strategy and approach

Engaging wider stakeholders

Curation of innovation resources

Chemistry and Industrial Biotechnology team





Chemistry and Industrial Biotechnology team programmes

- Circular Carbon
- Catalysis
- Digitalisation
- SME Accelerator
- Industrial Biotechnology and Synthetic Biology for Net Zero
- Batteries
- Hydrogen
- Sustainable Aviation Fuel
- Critical Raw Materials

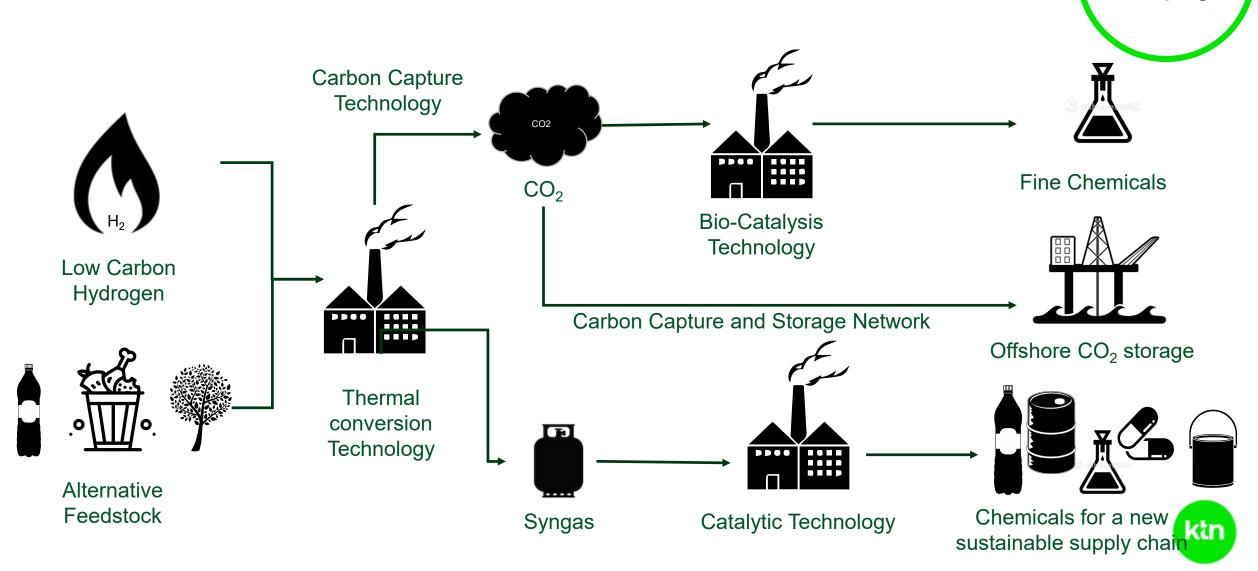


A sustainable chemical supply chain



A future sustainable chemical supply chain

Future Shaping



Unlocking the UK sustainable chemical industry





Low-cost and low carbon energy and hydrogen

· Critical to commercialise sustainable fuels and chemicals



Feedstock is fundamental

Robust processes to mitigate fluctuations in feedstock quality, availability, variability, volume & contaminants



Systems of systems approach to innovation

 Local opportunities & need, feedstock, energy supply, product, market requirements as part of a wider system



New end-to-end supply chains

- New partnerships across the value chain
- Demonstrate the techno-economic viability of producing chemicals from alternative feedstocks



Policy

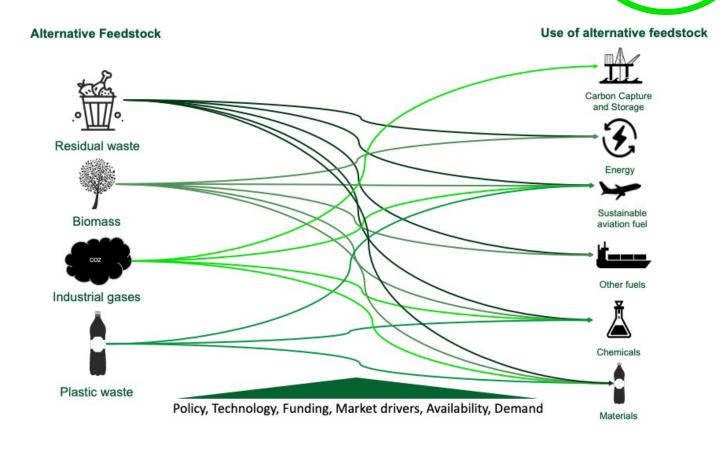
Creating the market opportunities to incentivise the production of sustainable chemicals



Future Shaping

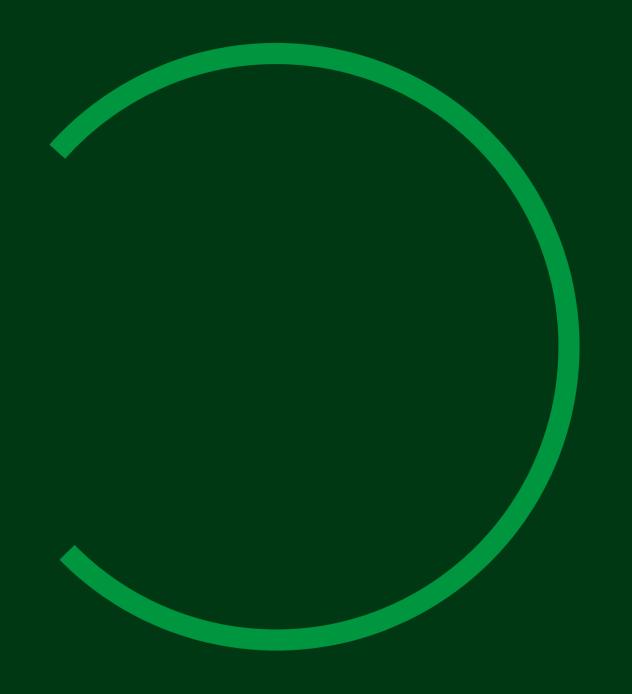
Objectives:

- Utilise key activities to increase knowledge and information on alternative feedstocks
- Continue to build and support circular carbon community
- Identify policy areas where conflict may arise and raise awareness
- Identify iX challenges related to circular carbon





Innovation Exchange









The power of cross-sector collaboration

Innovation Exchange is a KTN programme specially designed to introduce your company's challenges to the innovators who are already working on the solutions.

Our unique cross-sector approach taps into the power of collaboration outside large organisations usual channels, matching problems to the people with the answers.

https://ktn-uk.org/programme/innovation-exchange/



KTN Innovation Exchange



Sector Technical Challenges

Large organisations, OEMS and Local Authorities have:

- Confidential challenges to solve with no time to explore markets
- Low exposure to companies outside the traditional industry supply chain

Innovative solutions <u>from other</u> sectors

Solution providers find it difficult to:

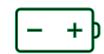
- Open the right doors at a large org, OEM or local authority
- Prove the value proposition of products
- Understand customer's time constraints

Solution providers



Challenge owners







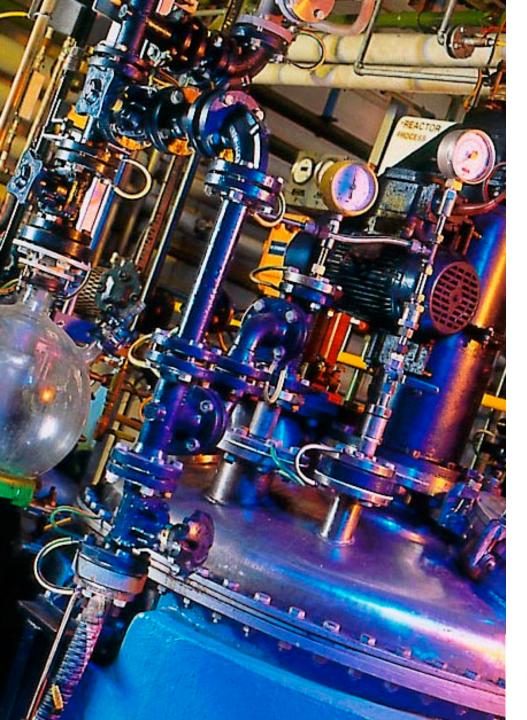














Innovation Exchange Case Study

Using KTNs iX process we worked with Robinson Brothers to identify innovative solutions that could lead to a more sustainable synthesis route for 1,3-cyclohexanedione.

- 11 Applications
- 10 New to organisation
- 4 Pitches
- 1 Successful applicant with a R&D contract

"We were really impressed with the way the innovation challenge worked. It generated new contacts and an impressive range of different approaches and ideas to the challenge."

Russell at Robinson Brothers.









Innovation Exchange Case Study

Using KTNs iX process we are working with Croda to identify innovative solutions that could lead to the next generation in hair conditioners.

- 10 Applications
- 6 New to organisation
- 4 Pitches
- 0 Successful applicants

No applicants had an appropriate solution confirming Croda's expectations and knowledge as leaders in their field.

Further collaborations with experts in their network have been stimulated by the challenge.



