

NEPIC: Encouraging Collaboration Within The North East Process Sector

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Head of Technical
NEPIC



- First Class Masters in Chemistry with Industrial Training from Newcastle University
- Research in Semiconductor Physics and Material Science at Newcastle University
- Joined NEPIC in 2020 as Innovation Manager
- Moved to the role of Head of Technical in 2023



Who are NEPIC?

We are a not-for-profit membership organisation with over 350 members from across the process sectors.

We work with members to identify opportunities, facilitate connections, promote collaboration and enable growth. Best practice sharing is a hugely important aspect of this.

The NEPIC Model

- Not-for-Profit Membership Organisation
- Industry Driven
- Bring People Together
- Champion Innovation
- Encourage Investment
- Influence Government
- Support Academia
- Encourage Business Growth





Why The North East is Special



- Second largest chemical cluster in Europe
- Heavily integrated chemical and pharma clusters
- Extensive local supply chains
- Manufacturing heritage

Tees Valley Process Industry Cluster

- Teesside is a diverse industrial cluster, with the chemical industry at its core.
- Products include fertilisers, acrylic and plastics to name a few.
- Other sectors, such as biopharma, are prominent in the region.
- Energy is a fast-growing sector due to the need to clean energy.
- Industrial symbiosis and circularity are essential for the chemical industry.



Credit: TVCA

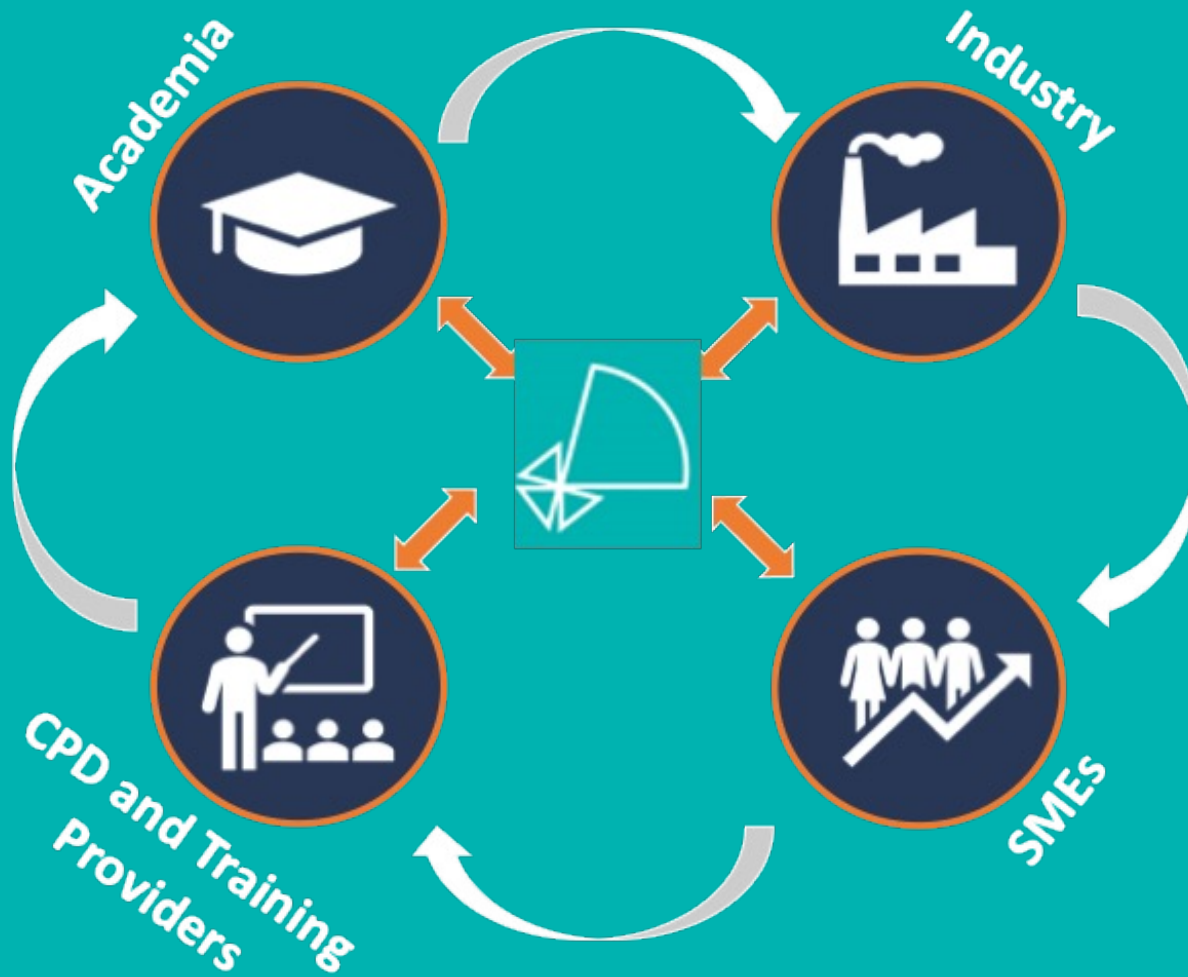
- (North East Pharma Report 2023)



The Importance of Collaboration



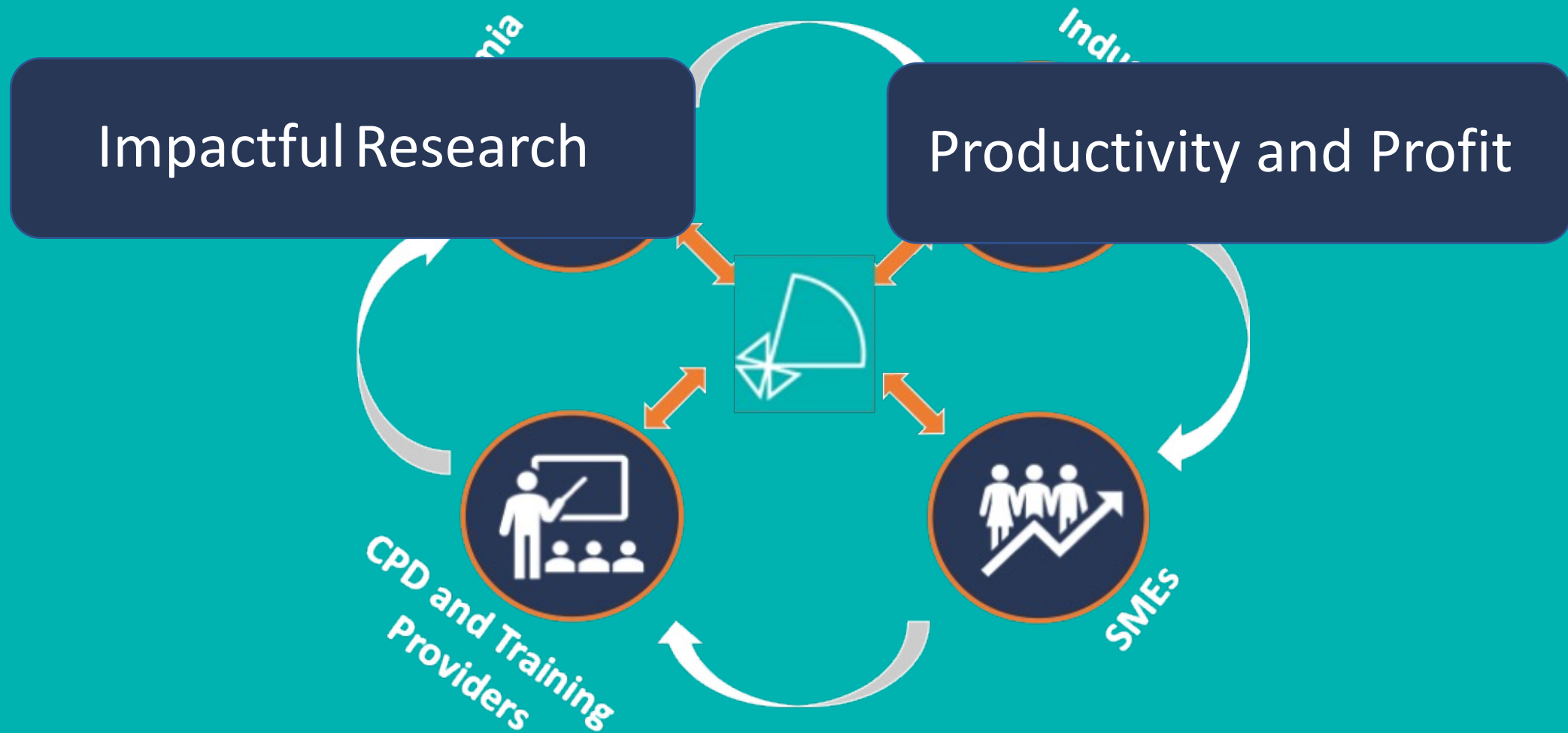
The NEPIC Ecosystem



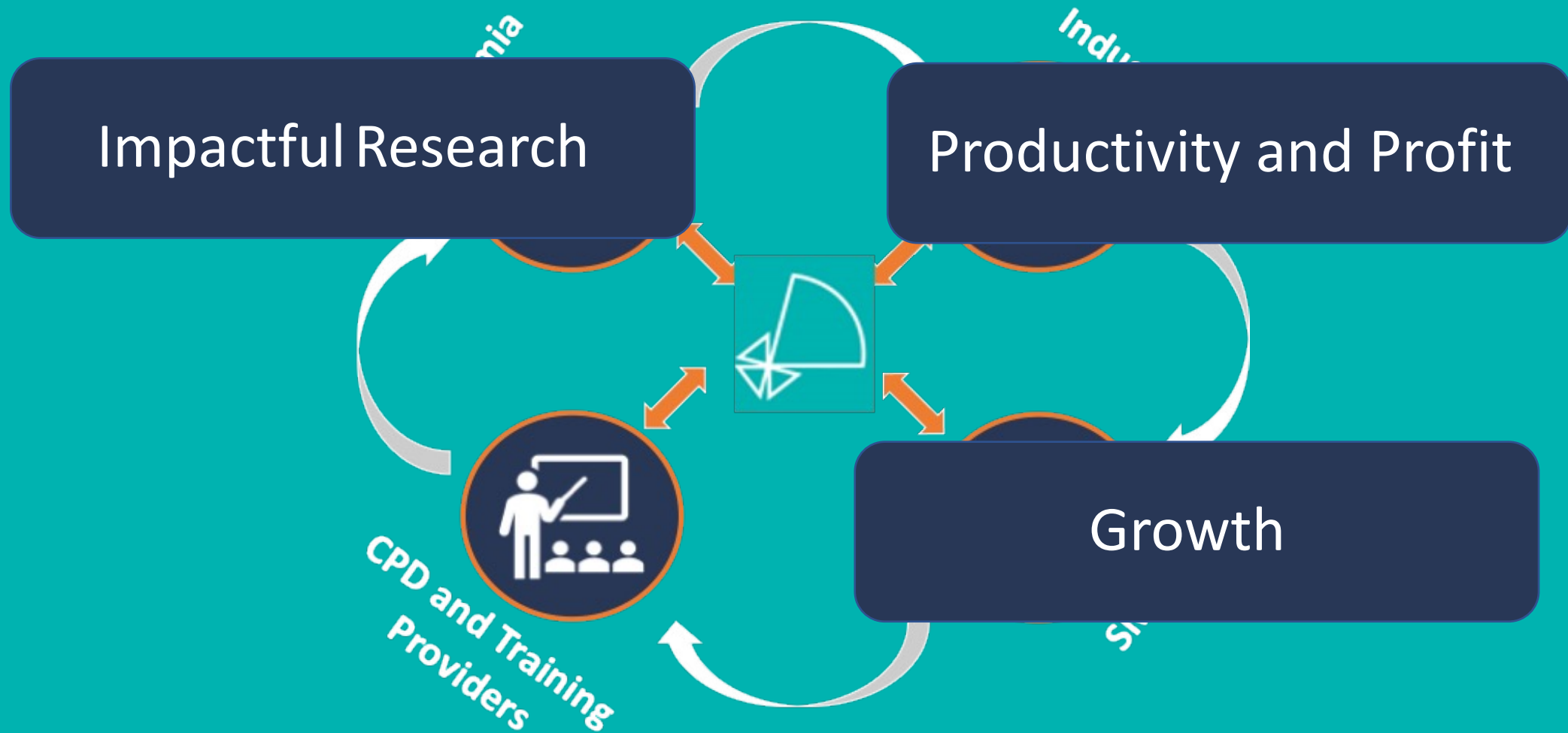
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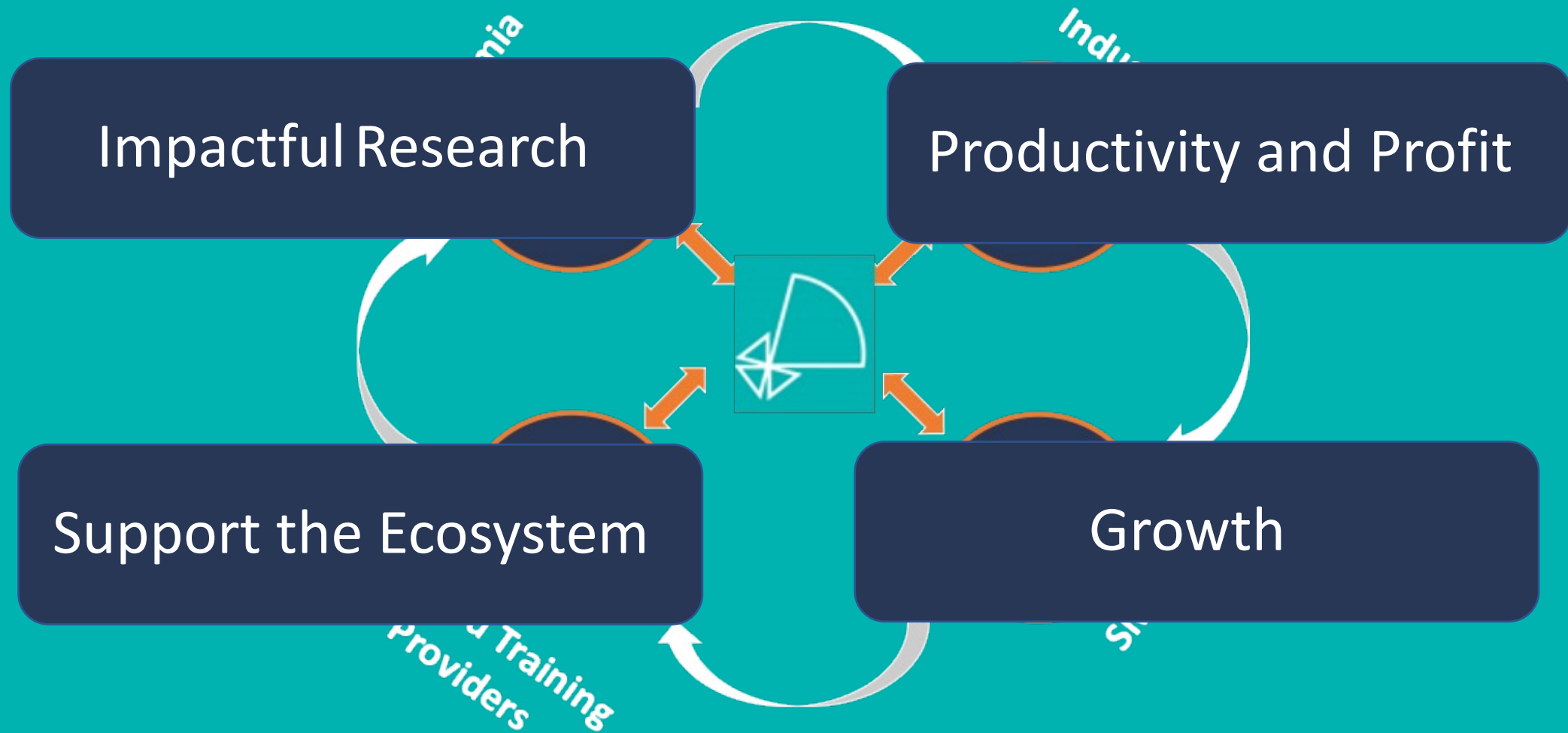
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All are accelerated by
collaboration

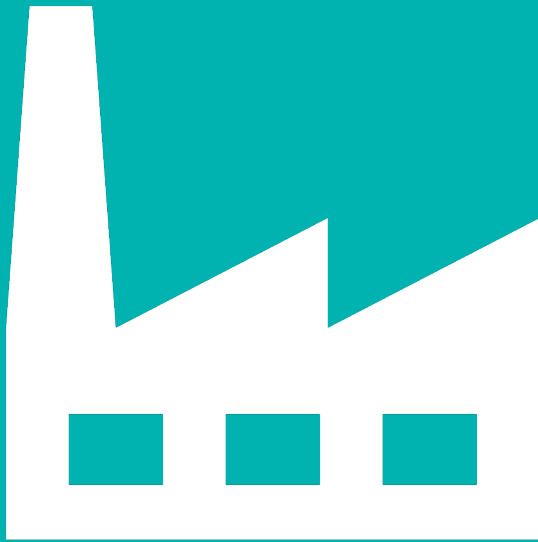
How we Support Each Stakeholder



Academia

- Letters of Support
- Industrial Dissemination
- Course Advisory Boards
- Project Partnership
- Guest Lectures
- Research Showcase

How we Support Each Stakeholder



Industry

- Introduction to SMEs and Academia
- Influencing Government
- Technology Showcases
- Decarbonisation and Net Zero
- Site Visits
- Project Partnership
- Conferences

How we Support Each Stakeholder



SMEs

- Networking
- Business Support
- Promotion and Marketing
- Exhibition Opportunities
- Awareness to Sectoral Trends

NEPIC Events - Networking

NEPIC Meet the Members Conference & Expo

5th October 2023, 8am-4pm

Hardwick Hall Sedgefield,
Lakeside Marquee



NEPIC Events – Technical Conferences

Digitalisation and
Cyber Security



November 2023

Best Practice in
Industrial Asset
Management &
Productivity



February 2024

Clean Growth



June 2024

Other Events

Decarbonisation Innovation SIG (Online)

- The DI SIG runs 4 times a year. Presentations include those of key emitters and innovative tech solutions. Key comments from breakout room discussions are recorded on mural and distributed post event.

Industry Academia Showcase (In Person)

- This event is an opportunity to strengthen the relationship between industry and academia. It's important for academics to understand the current technology and trends within industry to tailor their research. This is a great forum to encourage joint research projects and industry-academia collaboration

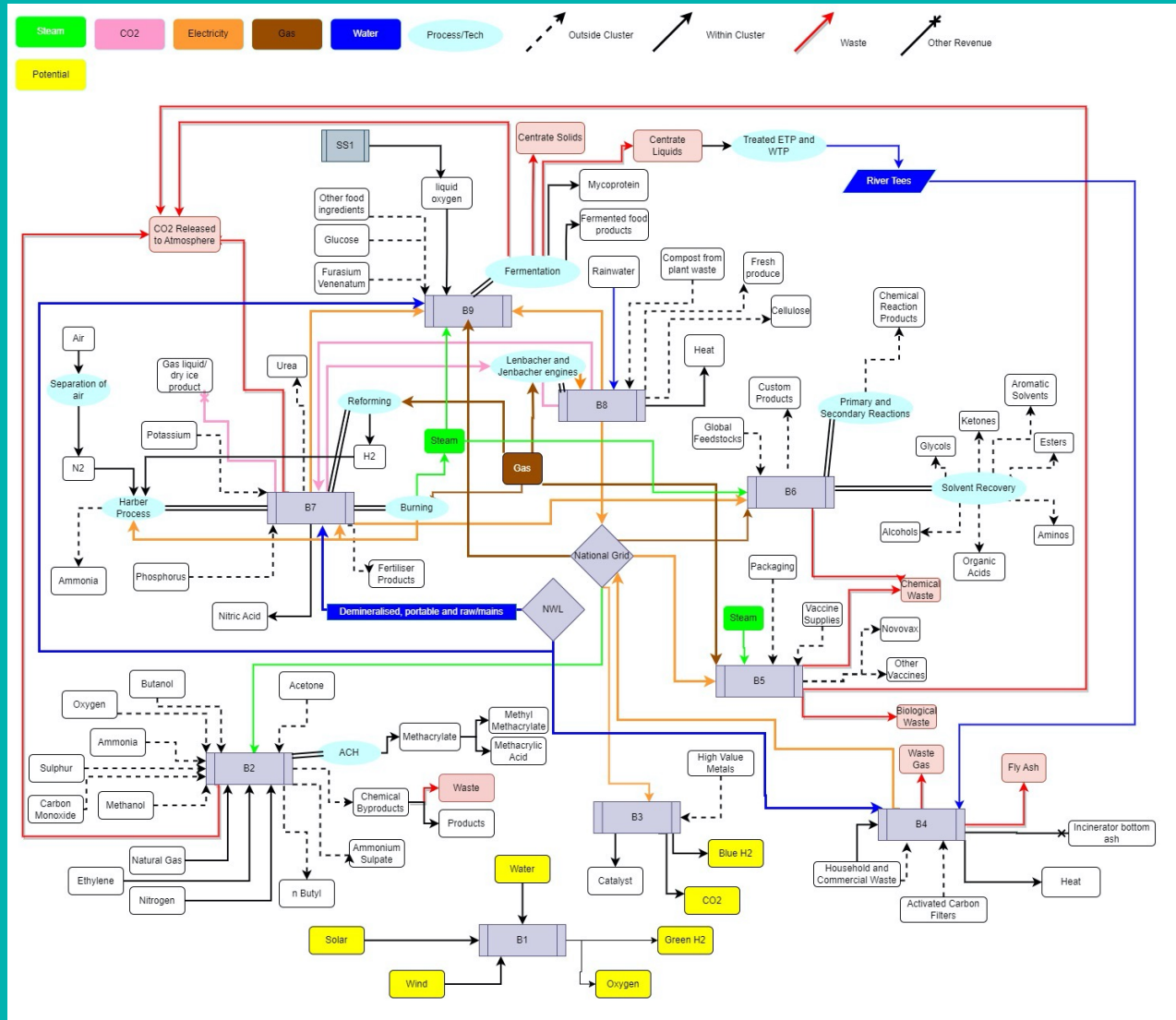
Bespoke Workshops

- We work with members to deliver custom events to meet needs. A hugely succesful example was our Robotics and Automation Showcase at the site of Labman Automation. This highlighted collaborative projects between NEPIC members.

Relevant Research Projects



Chemical Mapping Project



Funded by TransFIRe, NEPIC are undertaking an extensive mapping project of the Tees Valley Region.

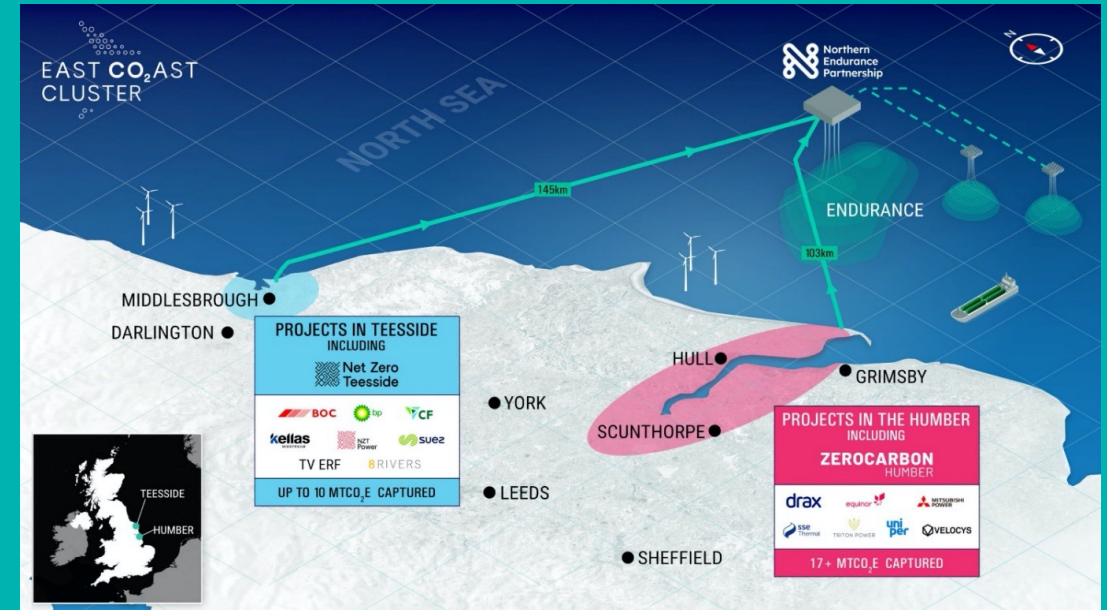
- Map all chemical flows
- Determine which flows are within the cluster and which are outside
- Promote industrial symbiosis and the circular economy
- Have knowledge to support FDI bids
- Understand waste flows to support waste valorization methods

A report will be published where the mapping work will be available to see.

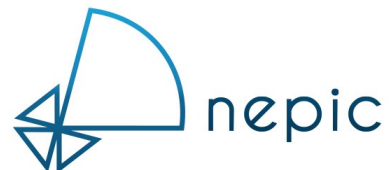
For more information contact:
Abigail.Bell@nepic.co.uk

Tees Valley Cluster Plan Report

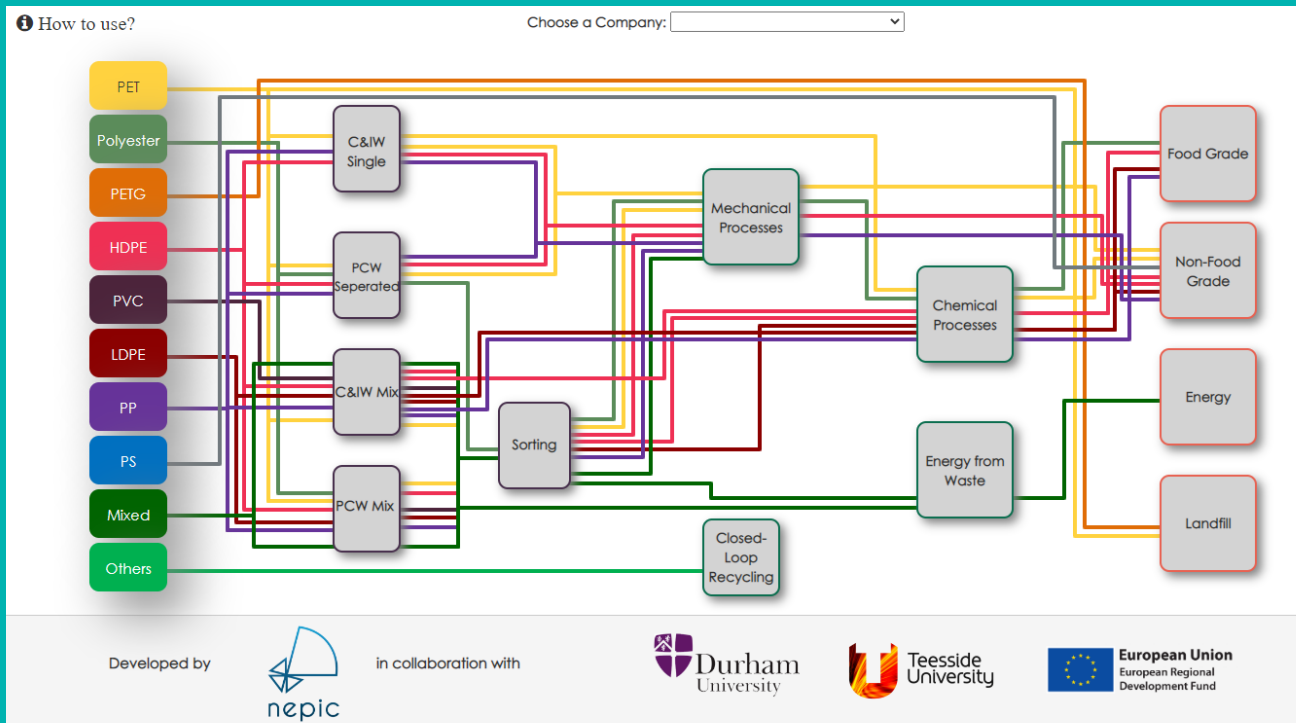
NEPIC co-authored the Tees Valley Decarbonisation Cluster Plan report along with TVCA and bp. This report set out the roadmap to decarbonisation for the Tees Valley industrial cluster. This two-year piece of work comprised over 20 individual reports, was completed in March 2023.



**TEES
VALLEY**



Plastics Recycling Project



The plastics supply chain tool was created by NEPIC in collaboration with Durham University. It was then digitized with the support of the IDTC at Teesside University.

The tool's aim is to identify sector actors, their capabilities, requirements and analyse the integration of the plastics recycling network in the region.

This will help bring transparency to the supply chain and help identification of potential partners and future innovative work in the space.

For more information or to be included in the tool contact: Abigail.Bell@nepic.co.uk

Circular Olefin Project

- Innovate UK Project to produce a strategic roadmap to sustainable olefin production using waste materials from the Teesside chemical cluster.
- We are working with academic and industrial partners on this, with key partners shown below.
- This is a perfect example of collaboration – NEPIC's industrial expertise, coupled with the innovative research of academic can combine to produce something impactful.



Summary

- Collaboration is key to innovation and growth
- Bringing people together is extremely powerful
- The sector needs an intermediary like NEPIC to 'grease the wheels' of progress
- Talk to us about working together!

ANY QUESTIONS?

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