



De-risking R&D in the bioeconomy
15 June 2022, The World Biogas Expo, R&I hub
Anna Alessi – Project Manager

About us



- Team of 36 skilled and multidisciplinary chemical and biological technologists, business innovation advisers
- Business model - Commercial, ERDF, large research grants, shared occupancy
- Strategic fields - biowastes, novel processes with natural materials, and high value products
- Driving innovation along bio-based supply chains

*... and access to
academic researchers
across the University of
York*



What does this mean in practice?

900+

Bio-based projects
since 2012

>500

separate clients
(SMEs, researchers
& multinationals)



Integrated facilities for biorefining – up to 100 L (kg)

Offices &
Bioscience
Innovation

Bioeconomy
Outreach
Centre

Process
Development Unit

Processing Unit



Working with us



Laboratory based analytical, problem solving work



Raw material characterisation (composition, methane potential, waste evaluation)



Processing (extraction, anaerobic digestion, fermentation)



Downstream processing (distillation, centrifugation, filtration)



Fast-track breeding (plants, microbes, GM/ non GM)



Business innovation support, communication, marketing, management



Regulatory screening



Developing entrepreneurial skills, business advice



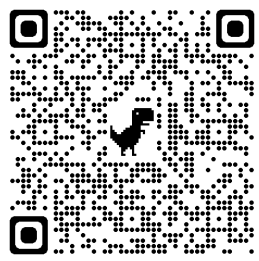
Building partnership, collaborations, bid development



Market research, B2B and B2C introductions



Funded support for AD sector and Yorkshire businesses



- up to £2,000 of funding = 15 – 20+ hrs work
- analytical assists e.g. digestate analysis & treatment, BMP, pre-treatment, new feedstock/additives
- desk based assists e.g. consultancy, training and trade shows (e.g. ADBA), networking and introductions
- access to equipment
- findings and interpretation, summary report
- SMEs in Leeds City Region and York, North Yorkshire



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Funded by:



European Union
European Regional
Development Fund

In partnership:



Delivered by:

BDC **Biorenewables**
Development Centre



UNIVERSITY
of York



BioVale AD Special Interest Group



- make valuable local contacts
- share best practice
- develop your specialist knowledge
- discuss local issues
- promote regional expertise/assets

Since 2016:

432 members
12 events with 651
participants
357 1:1 introductions
45 projects catalysed

Contact info@biovale.org



Case study



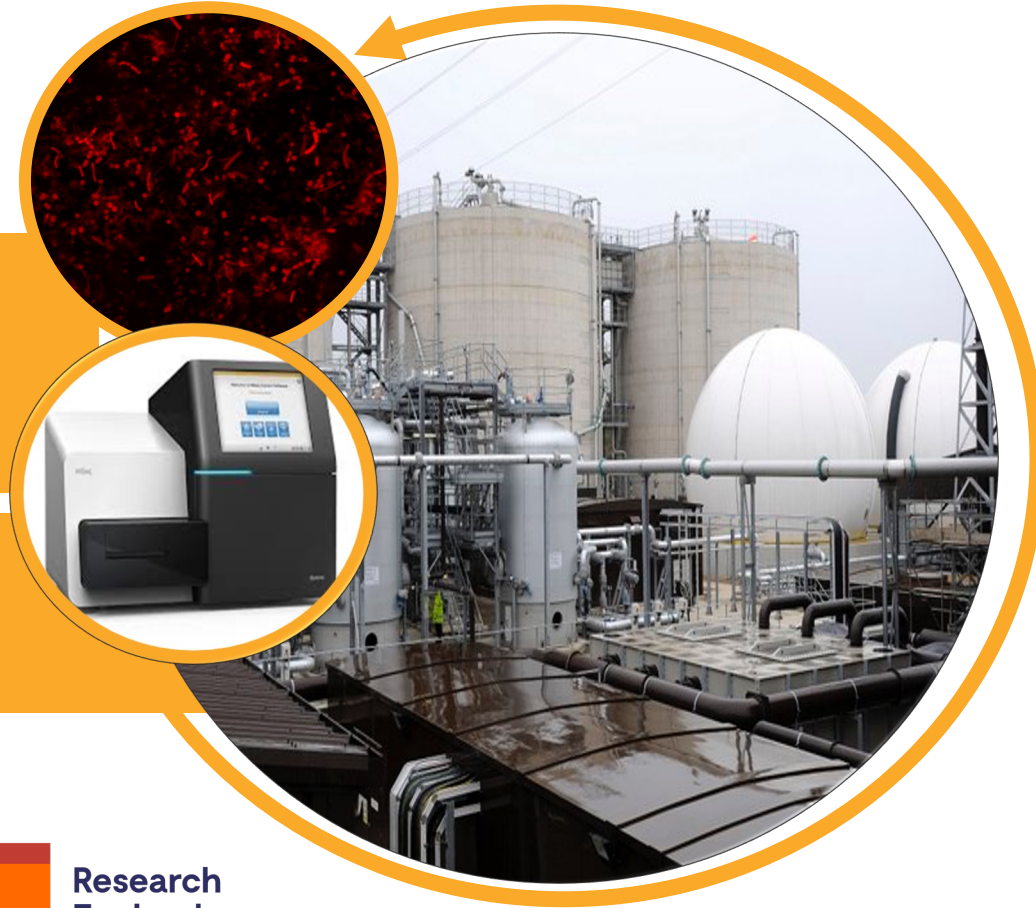
Exploring the microbes that manage our waste

NORTHUMBRIAN
WATER living water



Improving efficiency of AD by
understanding microbial
communities

Adopting sustainable &
circular economy approaches
Sector: waste management



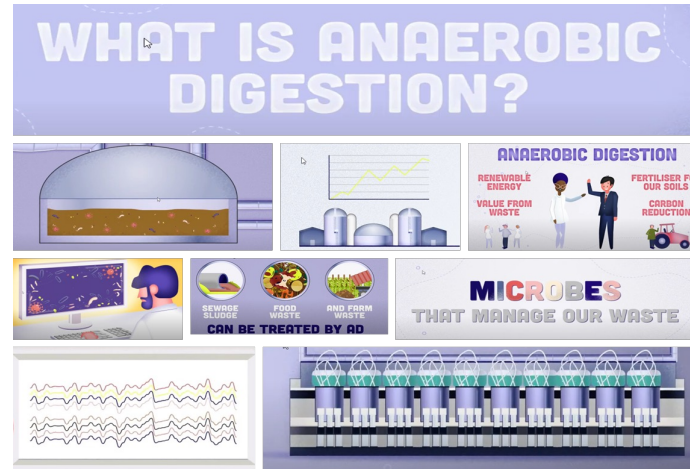
With thanks to our
funders:

THYME Project
Teesside, Hull and York - Mobilising Bioeconomy Knowledge Exchange



Research
England

Exploring the microbes that manage our waste



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NORTHUMBRIAN WATER
living water



BDC Biorenewables
Development Centre



Gas from grass



**Exploring a feasibility of using a
grass clippings as feedstock for
small scale AD**

**Adopting sustainable &
circular economy approaches
Sector: sport sector**



*With thanks to our
funders:*



European Union
European Regional
Development Fund



Economically regenerative building materials

Adaptavate

Development of techniques to lock the CO₂ into construction products, testing process waste for anaerobic digestion

Adopting sustainable & circular economy approaches
Sector: construction



With thanks to our funder:



**Innovate
UK**

Our Vision

A world where the
economy is a
bioeconomy.



The BDC is an open-
access scale-up R&D
centre, providing
industry with
innovative ideas to
convert plants,
microbes and
biowastes into high-
value products.



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<http://www.biorenewables.org/>

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**Research
England**

