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the
Knowledge Transfer
Network

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Collaborative innovation in the water sector

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Connecting people to accelerate innovation



Strategic

Connecting people who wouldn't usually meet to solve innovation challenges.



Interdisciplinary

Bringing together businesses and researchers from different sectors.



Entrepreneurial

Linking people with new ideas and technologies to partners and customers.



Commercial

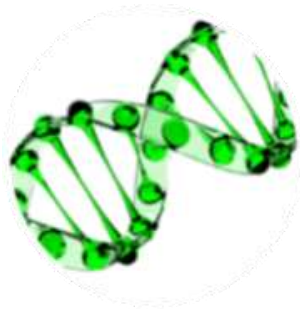
Introducing innovators to public and private funders and investors.

Clustered communities, groups and business programmes

Focus is on bringing together groups that would not normally meet



Materials
Chemistry
Environmental
Services



Agri-Food
Biosciences
Health



ICT
Electronics, Sensors
& Photonics
Defence & Security
Space



Built Environment
Transport
Energy



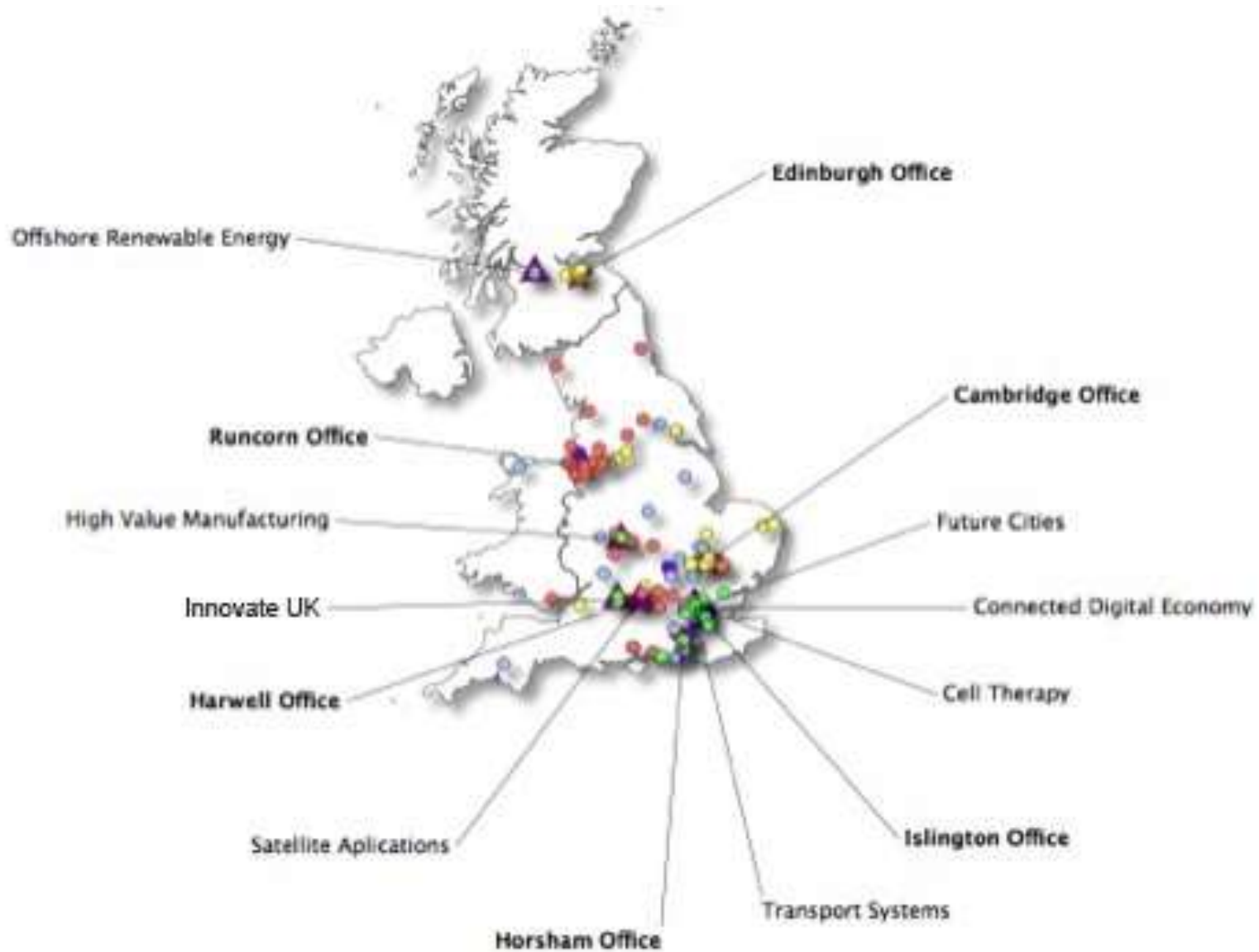
Creative Industries
Digital Economy
Design

← Sustainability, H2020, International, Access to Finance, Design →

Engaging at a range of scales

- One-to-one
 - Academic researchers
 - Technology developers
 - End users
- Industry workshops
- Conference speaking/chairing
- Committee and steering group membership
- European project participation





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National and local

One-to-one



Supporting a small Technology Developer

Fern Innovation

- Ex-Rolls Royce aerospace turbines engineer
- Micro-hydro from run-of-river
- High-efficiency, low complexity, easily repaired by a village mechanic
- KTN helped Fern to apply for Newton Fund to investigate scale-up and demonstrate in the field (Brazilian Amazon)



Spotting an opportunity

Low-cost, rapid, accurate detection of Arsenic

- Dept of Chemistry, Manchester Metropolitan University
- Spin-out, Kanichi, develops new sensor technologies
- Detection of Arsenic in humans
- Contact established with NEERI, Nagpur

...and again

...and again

...



Manchester
Metropolitan
University



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Gaugemap

Using public data for public good

- Environment Agency level data
- Collected and archived
- NERC/Innovate UK competition
- Shoothill
- Twitter – called to NY



...and some other examples

- Rapid, low-cost, colorimetric detection of faecal contamination in water
- Rainwater harvesting and decontamination systems
- Floating island biotic assemblages for cleaning water bodies



Knowledge Transfer Partnership



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KTP Funding Partners

Technology Strategy Board



Arts & Humanities
Research Council



EPSRC

Engineering and Physical Sciences
Research Council



investing
in **your** future
European Regional Development Fund
European Union



Science & Technology
Facilities Council



The Scottish
Government



Llywodraeth Cymru
Welsh Government



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Blackburn WWTW

United Utilities, Lancaster University, Monsal



Payment for Ecosystem Services

A new approach to catchment management



OPTIONS



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Influencing investment in innovation Technology Roadmaps



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Newton-Bhabha Fund

— <http://www.newtonfund.ac.uk/about/about-partnering-countries/India/>

Enhancing the environment through payment for ecosystem services

Does payment for ecosystem services offer a new
opportunity for natural resource management and
how can it work in practice?



Policy and Practice Notes

Note No. 39
September 2012

The Rural Economy and Land Use Programme is a UK-wide research programme carrying out interdisciplinary research on the multiple challenges facing rural areas. It is funded by the Economic and Social Research Council, the Biotechnology and Biological Sciences Research Council and the Natural Environment Research Council, with additional funding from the Scottish Government and the Department for Environment, Food and Rural Affairs.