

NERC Innovation

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Valuing Nature Programme – Business
Impact School

Wednesday 2 March



UK Research Councils



Arts & Humanities
Research Council

EPSRC

Engineering and Physical Sciences
Research Council

MRC

Medical
Research
Council



Science & Technology
Facilities Council



E·S·R·C
ECONOMIC
& SOCIAL
RESEARCH
COUNCIL

NERC
SCIENCE OF THE
ENVIRONMENT

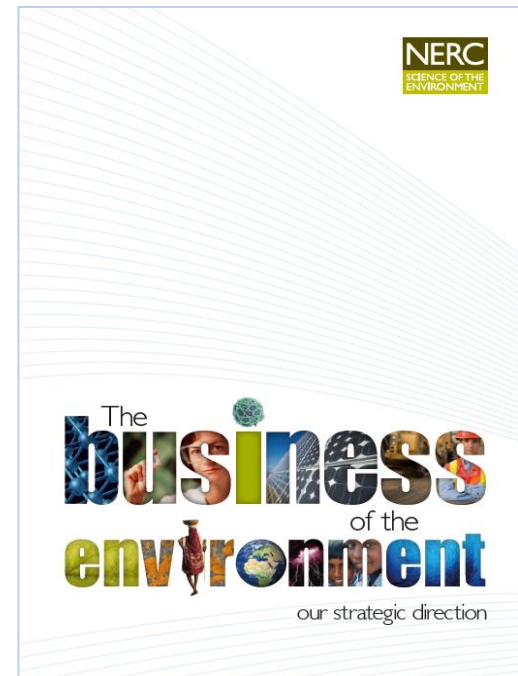


NERC Innovation

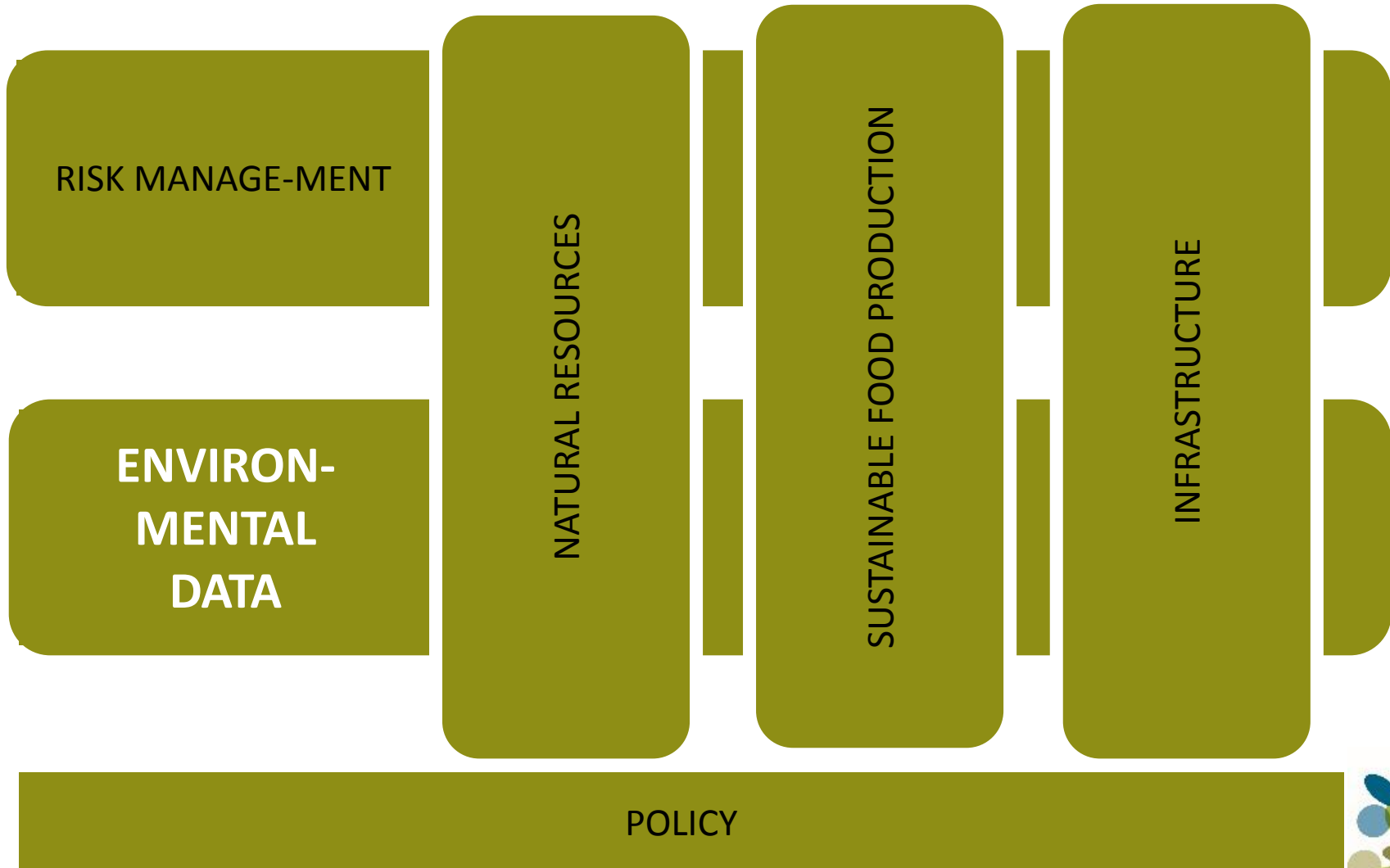
Working with business

Partner with business to help find and use environmental science they need

- **Understand needs:** How can science, knowledge & evidence help business?
- **Broker access:** to data, expertise and skills
- **Translate existing research:** Develop innovative tools, approaches & solutions
- **Co-design research:** where new knowledge is needed



NERC Innovation



NERC Innovation

Strategic
Topics with
Industry
(Innovation
programmes)

Strategic
Partnerships

Enabling ROs
to Achieve
Impact



NERC Innovation Innovation Programmes



NERC Innovation

Sustainable Food Production

Sustainable Agriculture Research & Innovation Club (SARIC)



- NERC and BBSRC, together with industry have developed SARIC
- Support innovative projects to provide solutions to key challenges affecting the efficiency, productivity and sustainability of the UK crop and livestock sectors
- Informed by industry members structured around two interlinking challenges
 - Resilient and robust crop and livestock production systems
 - Predictive capability and modelling for new technologies, tools, products and services



NERC Innovation Environmental Data

Joint NERC/Innovate UK feasibility studies

- Invested £4m in feasibility studies which use environmental data to develop new solutions to business problems
- Business led projects aim to develop solutions and services which, offer specific commercial benefits and/or limit business risks and increase resilience.
- 33 projects funded, 21 include a NERC-funded academic partner
 - ADAS UK Ltd
 - Global Climate Adaptation Partnership Ltd
 - J Sainsbury plc



NERC Innovation Infrastructure

Environmental Risks to Infrastructure Innovation Programme



- Five-year, £5m initiative, driven by the needs of the business community and decision-makers
- Provide evidence for the identification and assessment of environmental risks and their impacts on infrastructure, translating the latest research into industry-relevant outputs
- Focus on a series of key themes developed through individual consultation with infrastructure owners and operators and a series of scoping workshops with the business and academic communities



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Natural resources

Centre for Doctoral Training in Oil and Gas

- Provide training to create a highly skilled workforce with expertise that can be used across the wider energy and environment sectors, as well as filling skills gaps
- NERC has invested £2.8m with academic and industry partners committed to investing a further £5.2m (Academic lead: Aberdeen, Durham, Heriot-Watt. Industry sponsor BG Group, BP, ConocoPhillips, E.ON, OMV, Shell, Total, Statoil and Maersk Oil)
- Support 90 postgraduate students, 30 funded by NERC over 3 student intakes between 2014-2016
- Main research themes
 - Effective production of unconventional hydrocarbons
 - Extending the life of mature basins
 - Exploitation in challenging environments
 - Environmental impact and regulation



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Risk management

Natural Hazards Partnership

- Brings together expertise from the UK's leading public sector agencies to draw upon scientific advice in the preparation, response and review of natural hazards
- Co-ordinated and coherent advice for the government and the resilience community. Key stakeholders include:
 - Cabinet Office Natural Hazard team with the Civil Contingencies Secretariat
 - Responder Community across the UK
- Create an environment for the development of new services to assist in disaster response



NERC Innovation

Public Policy



- Policy-relevant activities span across NERC's priority areas with initiatives being carried out within research programmes and innovation activities
- Developing strategic partnerships with policy bodies to identify and deliver the needs of partner organisations
- NERC also works with the Living With Environmental Change (LWEC) partnership building links, designing and funding joint activities and engaging with multiple policy partners



NERC Innovation

Enabling Research Organisations

KE Fellowships

Open and directed
calls

Internships
and
placements

Environmental
Science Impact
Programme
(ESIP)

Innovation
Project calls

Open and directed calls

Knowledge
Transfer
Partnerships
with Innovate UK

Commercialisation

Pathfinder & Follow on
Fund



NERC Innovation

Aim of ESIP

- Orientate a large proportion of NERC innovation investment to where it can deliver substantial regional economic gains
- Provide larger-scale, longer-term funding with built-in flexibility that creates strong conditions to achieve impact
- Combine research excellence with regional strengths to deliver significant regional impact from NERC environmental science



NERC Innovation Strategic Partnerships

ARUP



Dŵr Cymru
Welsh Water



defra
Department for Environment
Food and Rural Affairs

MARKS &
SPENCER

Microsoft®
Research



Thank you

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