Research Management– A NERC Perspective

Royal Institute of British Architects, 27th January 2011

CRC, 'Research Management Smoothing the Way"

Some information drivers for Reserch Councils

- BIS Set Statistics and Funding Explorer (www.data.gov.uk)
- Economic Impact Reporting Framework (for BIS)
- HE BCI Statistics (& business interaction generally)
- Cross-council research classification for reviewer matching.
- Compliance with HERRG Concordat and HEBRG Guidelines
- Harmonisation of Open Access Mandates – and monitoring use
- Replacement of final reports with Output and Impact statistics

BIS Economic Impact Reporting Framework

- Overall economic impacts.
- Investment in the research base and innovation.
- Knowledge generation (stock of publicly available knowledge).
- Knowledge generation (human capital).
- Framework conditions (public engagement).
- Framework conditions (financial sustainability).
- Knowledge exchange efficiency.

NATURAL
ENVIRONMENT
RESEARCH COUNCIL

ECONOMIC IMPACT REPORTING FRAMEWORK

Report for 2008/2009
December 2009

BIS SET Statistics & Funding Explorer
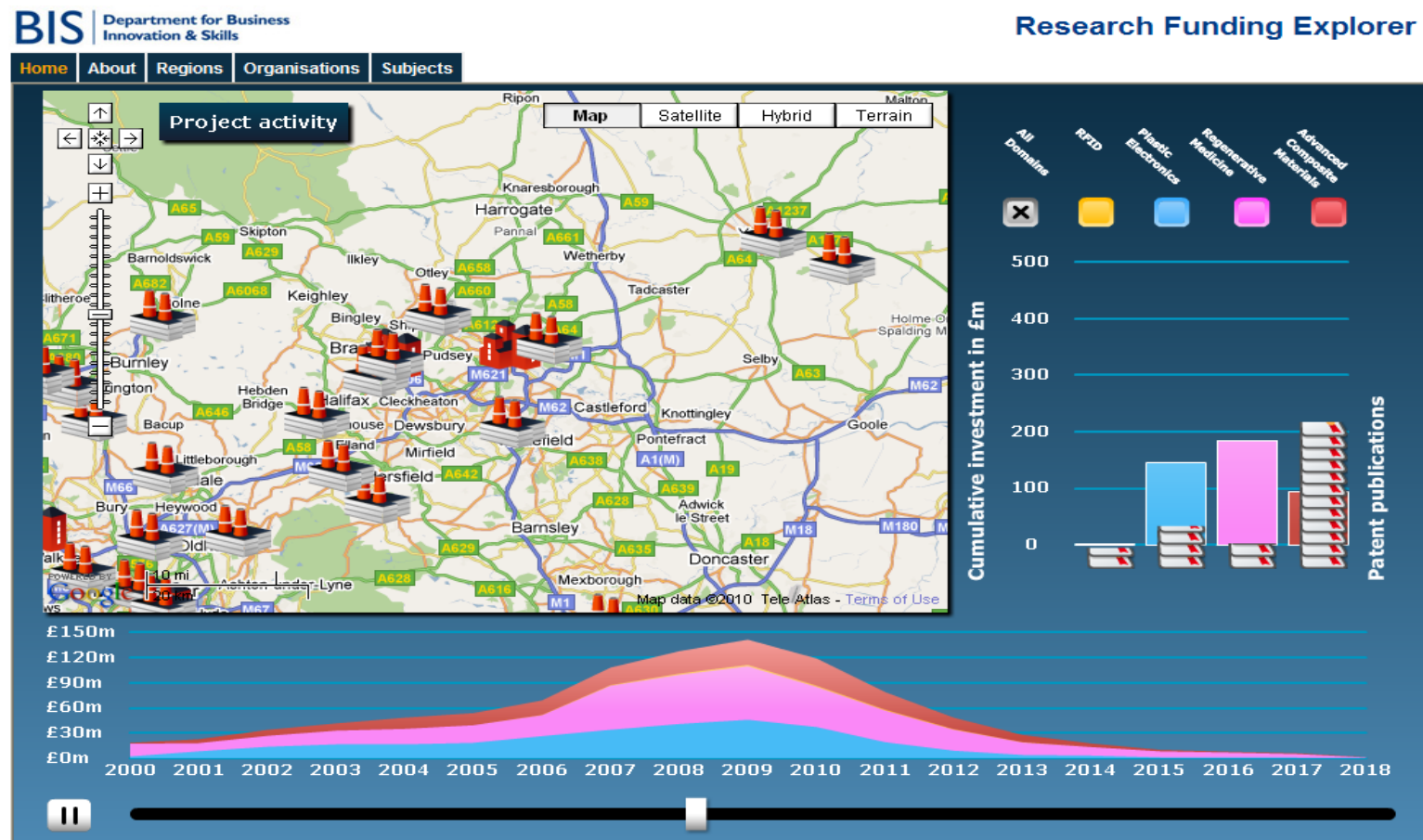
HESA FSR & HEBCI Data

- ■ **Financial Statistics Return**
  - ■ Research Grants and Contracts
  - ■ Income Analysed by Source

- ■ **HE BCI**
  - ■ Research and Related Activites
  - ■ Business & Community Services
  - ■ Regeneration and Development Programmes
  - ■ Intellectual Property
  - ■ Social Community and Cultural Engagement

What are the current data collections?

Datastream	Data return deadline
C09051 Student Record	15 September 2010
C09025 Staff Record	30 September 2010
C09052 Aggregate Offshore Record	30 September 2010
C10053 ITT Record	TDA-funded ITT first submission 1st October 2010
C09031 FSR with HE-BCI Survey Record	23 December 2010
C09042 EMS Record	11 February 2011
C09018 DLHE Record	31 March 2011
DLHE Longitudinal	n/a

New Cross Council Research Classification

- ***Routing Classification*** *enables a Proposal submitted by Je-S to be routed to the appropriate User or Team.*

- ***Research Classification (RCUK)*** *enables the expertise of potential Reviewers to be matched to a Proposal. This includes both Research Areas and Qualifiers.*

- ***Reporting Classification*** *enables a Grant to be classified based upon the research to be undertaken and reported across Councils based on Government or EU requirements (e.g. Frascatii, JACS3, NABS).*

- ***Council-specific Classification*** *enables a Grant to be classified based upon individual Council Requirements.*
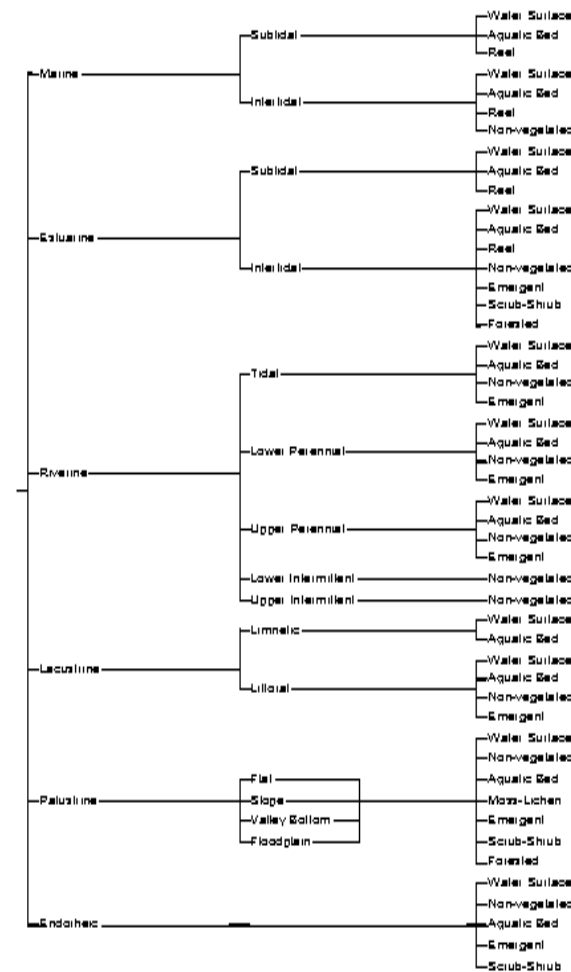
Compliance with HERCG Concordat & HEBRG

- Work of HEBRG includes:
    - engaging with the government's **cross-departmental better regulation agenda** and representing the HE sector and its interests
    - assessing and analysing the **impact of regulation on the HE sector**
    - revising and updating the <u>Higher Education Concordat</u> and encouraging new signatories
    - mapping the emerging **accountability and regulatory framework** for HE
    - supporting efficient and effective engagement between the sector and **professional, statutory and regulatory bodies** (PSRBs)

Higher
Education
Regulation
Review
Group

Higher Education Concordat

On quality assurance arrangements and data collection

May 2006

RCUK Open Access Policies – how it started

"Academic authors currently lack sufficient motivation to self–archive in institutional repositories. We recommend that the Research Councils and other Government funders **mandate their funded researchers to deposit a copy of all their articles in <u>their institution's repository</u>** within one month of publication or a reasonable period to be agreed following publication, as a condition of their research grant."

House of Commons
Science and Technology
Committee

Scientific Publications: Free for all?

Tenth Report of Session 2003-04

Volume I: Report

Questions arising from the S&T report

- *"The best way to achieve major <u>improvements</u> in scholarly communication in the short and medium term is to make it <u>mandatory</u> to <u>deposit</u> <u>research papers</u> in <u>open access</u> <u>institutional repositories</u>"*

  - What are 'open access repositories'?
  - Why 'institutional' repositories?
  - What should be deposited in them?
  - Why do they 'improve' scholarly communication?
  - Why make deposition mandatory?
  - Who should mandate deposition?
  - Who should do the depositing?

Standardised Attribution

- "This work was supported by the Medical Research Council [grant number xxxx]."

- "This work was supported by the Wellcome Trust [grant numbers xxxx, yyyy]; the Natural Environment Research Council [grant number zzzz]; and the Economic and Social Research Council [grant number aaaa]."

- "This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors."

WoS and MIMAS-IRS are 'extracting' funder metadata

Acknowledgement of Funders in Scholarly Journal Articles
Guidance for UK Research Funders, Authors and Publishers

RCUK & Publishers

February 2008

research information network

www.rin.ac.uk

2008 Review

- Academic knowledge of OA limited in most disciplines (despite librian efforts
- Libraries cite the serials crisis
- Gold OA increasingly expensive
- REF not likely to be a driver
- No evidence that OA has reduced library subscriptions
- Worry over OA journal impact
- Funder and institutional mandates spreading
- Increasing demand for underlying data
- Risk of vanity publishing (especially if funder pays)

RESEARCH COUNCILS UK

LISU Research & consultancy for performance management
Information, cultural & academic services

SQWconsulting

Metadata standards

- Populate with enough high-quality material to achieve 'critical mass'
- Create and expose robust policies
- Create and maintain machine interfaces to metadata, indexes and full text
- Create minimimal metadata for all items and richer metadata for items which are not crawlable
- Use automated metadata tools
- Maintain strong relationships between owners, sponsors, publishers
- Embrace Web standards

7 November 2008

Feasibility study into approaches to improve the consistency with which repositories share material

Final report for JISC

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Environmental Research Funders Forum

Now called "Living With Environmental Change"

UK Pubmed Central– the Grant Lookup Tool

Research information management

Funder

Institution

Projects

Outputs

People

Research information management

Research Funders

UKPMC

Society Today

OOCS

G o t W

Funder

Institution

Projects

Outputs

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LMS / OPAC

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G o t W

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CRIS

LMS / OPAC

Institutions

Juliet+

NAMES

Web of Science

HEFCE (REF, HESA)

Research information management – Shared infrastructure

We need Authority Files on :

People

Outputs

Organisations

Departments

People - outputs

People – institutions

Organisations – projects

…….

• Data Protection?

• Semantics

• Exchange format (CERIF)?

• Carrots & Sticks?

Proposal 1: Research Projects Register

- Funders make grant registers harvestable, to:
  - Provide a list of valid funder references
  - Provide a list of valid grants for a funder
  - Validate a funder reference
  - Validate a grant reference against a funder
- Other bodies make registers available of:
  - Research Institutions (HEI and other)
  - Departments
  - Researchers

Collations of OA Policies

| Funding Organisation (linked to their JULIET summary)	Publications Policy — Open Access Archiving	Publications Policy — Open Access Publishing	Data Archiving Policy
Arthritis Research UK	✓ ✓ —	—	
Arts and Humanities Research Council (AHRC)	✓ — —		
Biotechnology and Biological Sciences Research Council (BBSRC)	✓ — —		✓ ✓
British Heart Foundation (BHF)	✓ ✓ —	—	
Cancer Research UK	✓ ✓ —	—	✓ —
Chief Scientist Office, Scottish Executive (CSO)	✓ ✓ —		— —
Department of Health (DoH)	✓ ✓ —		
Economic and Social Research Council (ESRC)	✓ ✓ —		✓ ✓
Engineering and Physical Sciences Research Council (EPSRC)	✓ — —	✓	
JISC (Joint Information Systems Committee)	✓ ✓ —		
Medical Research Council (MRC)	✓ ✓ —	—	✓ —
National Institute for Health Research (NIHR) see: Department of Health (DoH)			
Natural Environment Research Council (NERC)	✓ ✓ —		✓ —
Science and Technology Facilities Council (STFC)	✓ ✓ —		
Stroke Association	— — —	—	
Wellcome Trust	✓ ✓ —	—	✓ —

Proposal 2: Metadata Harvesting (not yet RCUK approved)

1. All peer reviewed papers will funded by Research Councils will be deposited in an appropriate repository as soon as possible after acceptance by a publisher (as in current Research Council OA Mandates)

2. The repository will provide mandatory Sponsor and GrantNumber fields and make these available for harvesting by aggregation services.

3. Harvesting [for NERC] will be carried out in the period 1.1.2012 to 31.3.2012 for peer-reviewed papers which are published in 2011.

4. Attribution and (therefore) harvesting of grey literature arising from grants will be voluntary .

5. The ETHOS Metadata Standard will followed by UK Repositories to allow correct harvesting of publications and e-Theses.

6. *Consideration could be given to inclusion of a metadata field for the DataCite number of major databases used by a paper.*

7. *Discussion is taking place on the 'Repository of Last Resort' – to be used if a research organisation does not have its own Institutional Repository (but all Russell Group and 94 Group member now have repositories).*

NERC strategic model
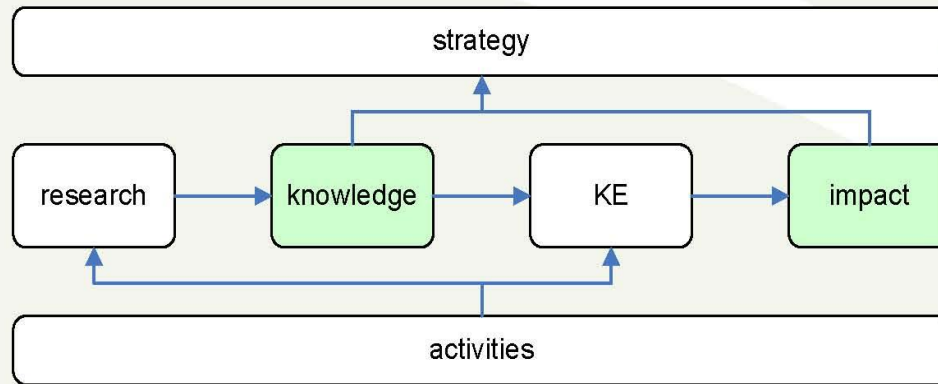
NERC's outputs would be exclusively collected by harvesting – leaving a re-designed portal (using JeS authentication) to collect achievements from PIs.

Evidence sources
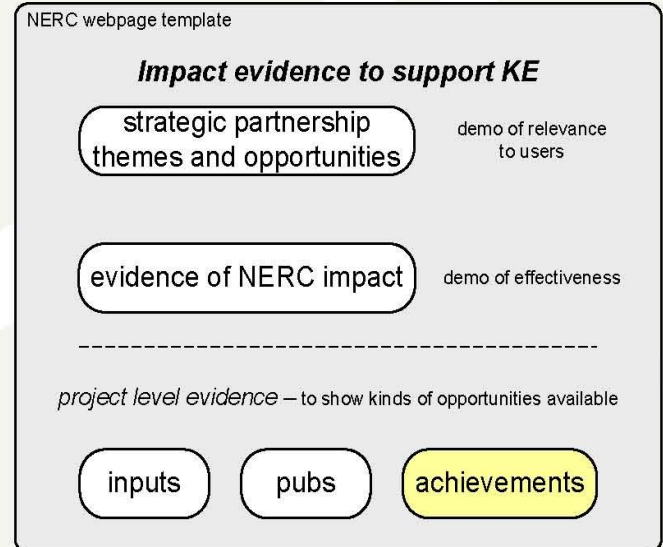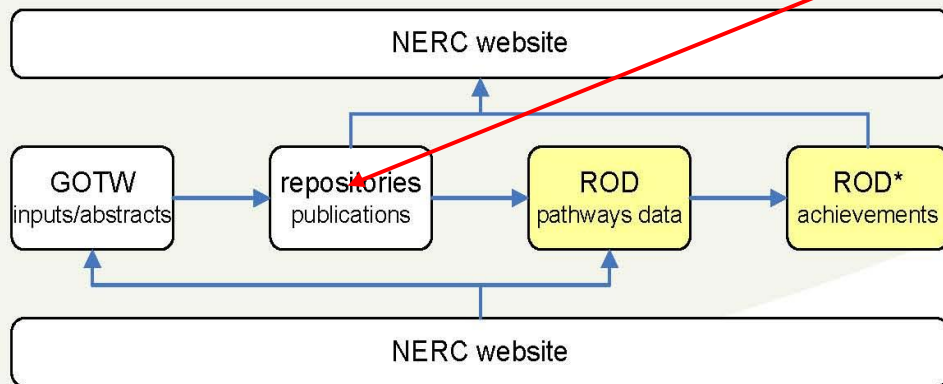
* plus SID impact case studies, Planet Earth Online articles and aggregated impact evidence, eg evaluations