

Research Management– A NERC Perspective

Royal Institute of British Architects, 27th
January 2011

CRC, ‘Research Management Smoothing the Way’

Some information drivers for Research 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.



ECONOMIC IMPACT REPORTING FRAMEWORK



Report for 2008/2009
December 2009

BIS SET Statistics & Funding Explorer

	A	B	C	D	E	F	G	H	I
1	SET Statistics								
2	Science, Engineering & Technology Indicators								

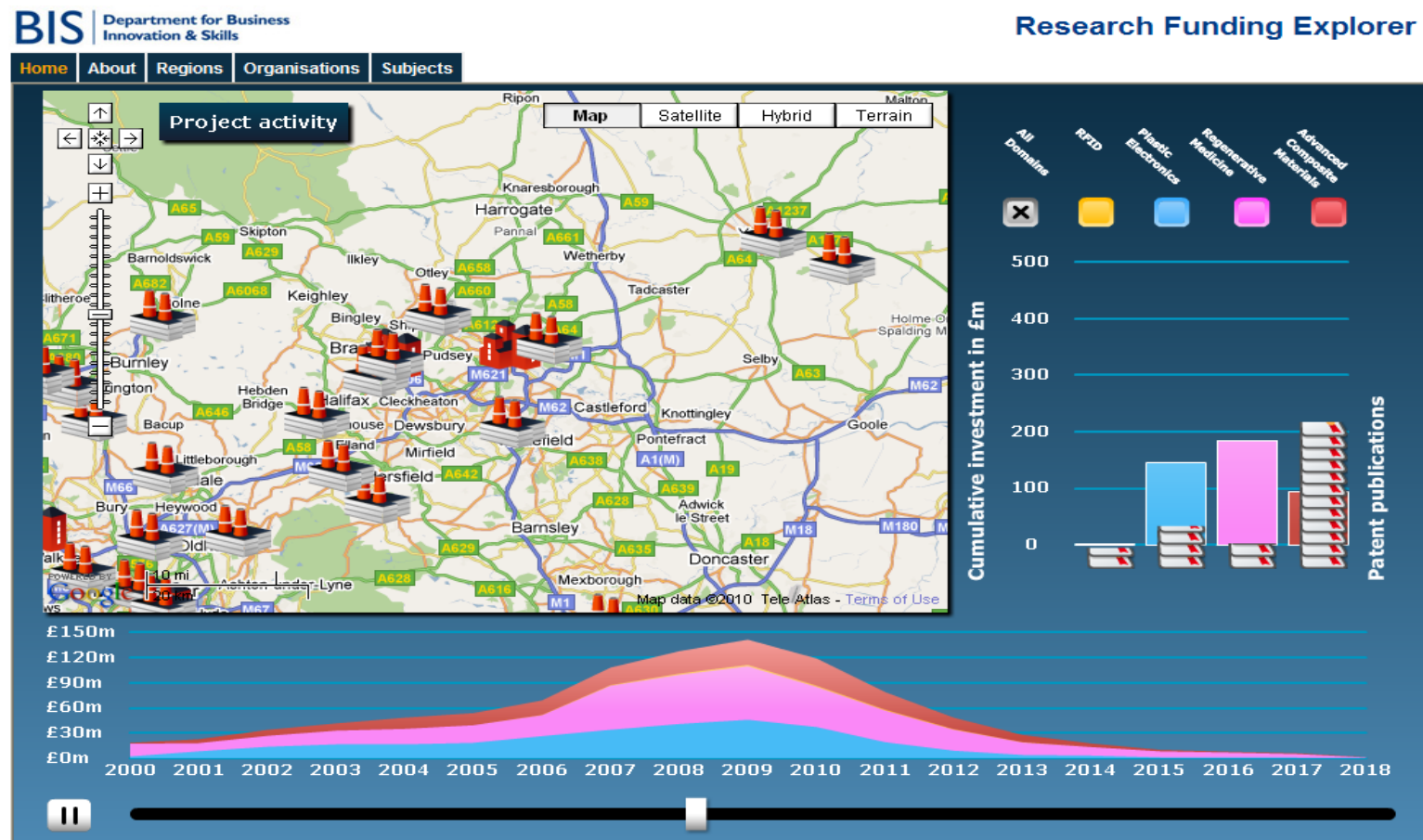
'SET Stat
prepared

It aims to:

- provide activities
- describe the UK
- report
- summarise employment
- show

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Reference



HESA FSR & HEBCI Data

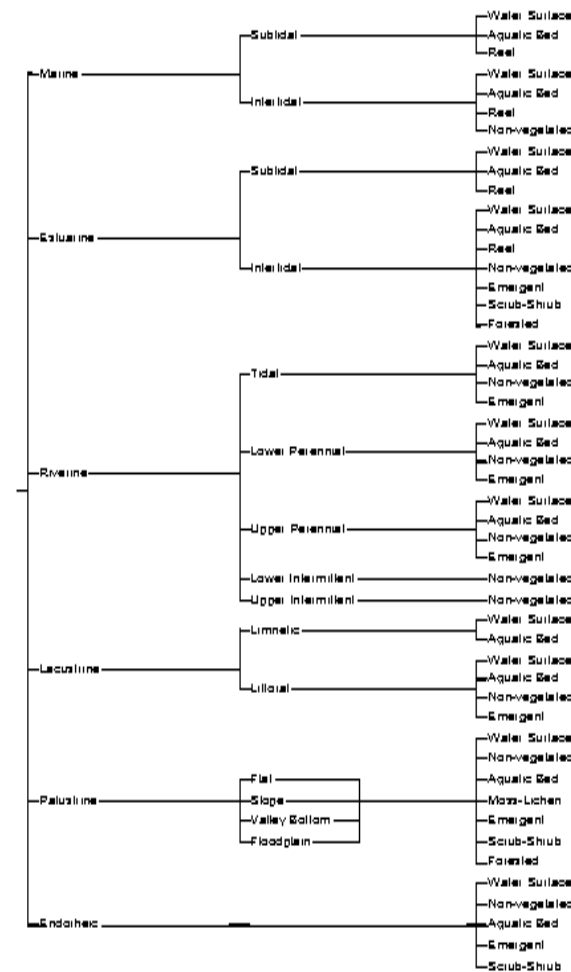
- Financial Statistics Return
 - Research Grants and Contracts
 - Income Analysed by Source
- HE BCI
 - Research and Related Activities
 - Business & Community Services
 - Regeneration and Development Programmes
 - Intellectual Property
 - Social Community and Cultural Engagement

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. Frascati, 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 Higher Education Concordat 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 their institution’s repository** 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 improvements in scholarly communication in the short and medium term is to make it mandatory to deposit research papers in open access institutional repositories”*
 - 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.”

Acknowledgement of Funders in Scholarly Journal Articles

Guidance for UK Research Funders, Authors and Publishers

RCUK & Publishers

February 2008



www.rin.ac.uk

2008 Review

Open Access to Research Outputs

Final report to RCUK

September 2008

- Academic knowledge of OA limited in most disciplines (despite librarian 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

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 minimal 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

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”



Environment Research Funders' Forum

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You are here: [Home](#) > [Databases](#) > [Search](#)

Database Search

Welcome to the online ERFF Environmental Research database! This updated version (1.1) has a number of **improvements** over the initial release (version 1.0).

If you experience problems or have questions about the database or the search facilities please tell us. We would also like to hear from you if you find the database useful, and what you are using it for. Please send your feedback to office@erff.org.uk.

Note: if you need a larger text size, try holding down the 'Ctrl' key and using your scroll wheel to magnify the page.

[About](#) the current content of the database [Help](#) on how to search

Search on: ☒ Descriptions ☐ Classifications ☐ Organisations ☐ People

Work starting:

☒ anytime

☐ between

Jan

2010

and

Jan

2010

Select records updated in the last...

☐ week
 ☐ month
 ☐ 3 months
 ☐ 6 months
 ☐ year
 ☒ ALL records

for

☐ Programmes
 ☐ Projects
 ☒ ALL types

Results per page:

20

Export summary results as...

☒ Excel
 ☐ CSV
 ☐ XML

850 records matched your search criteria

<input type="checkbox"/>	ERFF Id	Title	Lead Funder	Lead Research Organisation	Total Funding (£,000s)	End Date	PhD?	Funder's Id	
<input type="checkbox"/>	87729	Business and Biodiversity - Assessing Practical Benefits to Business			35	30-NOV-2005		UKCC04	Detail
<input type="checkbox"/>	206892	Developing a global methodology and manual for biodiversity guides suitable for use in rural development	DFID		195	30-SEP-2004		2265	Detail
<input type="checkbox"/>	87730	Business and Biodiversity Scotland Event			20	22-NOV-2005		UKCC04A	Detail
<input type="checkbox"/>	125377	Defra fund for innovation in Local Biodiversity Recording - Planning screening	NE			MAR-2008		ERFFNE006	Detail

UK Pubmed Central– the Grant Lookup Tool



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Grant Lookup Tool - Search Results : Summary

View summary: Grant numbers 1 - 10 : Search - All : "biodiversity" : Funders - Arthritis Research UK, BBSRC, BHF, CRUK, CSO, DH, MRC, Wellcome Trust, FWF, HRBI, SFI, TI

[Back to Search](#)

[New Search](#)

Output:

☒ Export to file UKMSS_Grants.csv

Format:

☐ Email to

[Output](#)

[Show](#) grants per page (max. 100)

Showing grants 1 to 10 of 36

[Next >>](#)

[Page](#) of 4

#	Funder	Grant ID	PI Name	Project Title
1	BBSRC	BB/C500544/1	Prof RS Thorpe	A molecular investigation of the impact of divergence in allopatry, and other factors, on biodiversity
2	BBSRC	BEP17792	Prof F Bisby	A problem-solving environment for global biodiversity: prototype & demonstrator
3	BBSRC	BBSEC00004193	Mr IP Woiwod	Agricultural implications of insect population dynamics and the conservation of biodiversity
4	BBSRC	BBS/E/J/000CA328	Dr LA Boyd	Assessment of genetic biodiversity of durable disease resistance in African wheat genotypes to develop novel marker systems for wheat breeding
5	BBSRC	BB/F004125/1	Dr LA Boyd	Assessment of genetic biodiversity of durable disease resistance in African wheat genotypes, leading to the development of markers for wheat breeding
6	FWF	P 19337-B17	Univ.Prof. Dr. N Vavra	Biodiversity and faunal interchange: Bryozoans of Paratethys
7	BBSRC	BBS/E/J/0000A230	Dr LA Boyd	Biodiversity for stripe rust resistance in turkish wheats (BESTWheats)
8	FWF	P 20461-B17	Dr. S Agatha	Biodiversity of Marine Tintinnids (Protista, Ciliophora)
9	BBSRC	BB/D015634/1	Dr J Memmott	Biodiversity on farms: a complex systems approach
10	BBSRC	BB/F011911/1	Prof K Norris	Designer niches - a novel approach to assessing the impacts of agricultural change on biodiversity at multiple spatial scales

Research information management

Funder

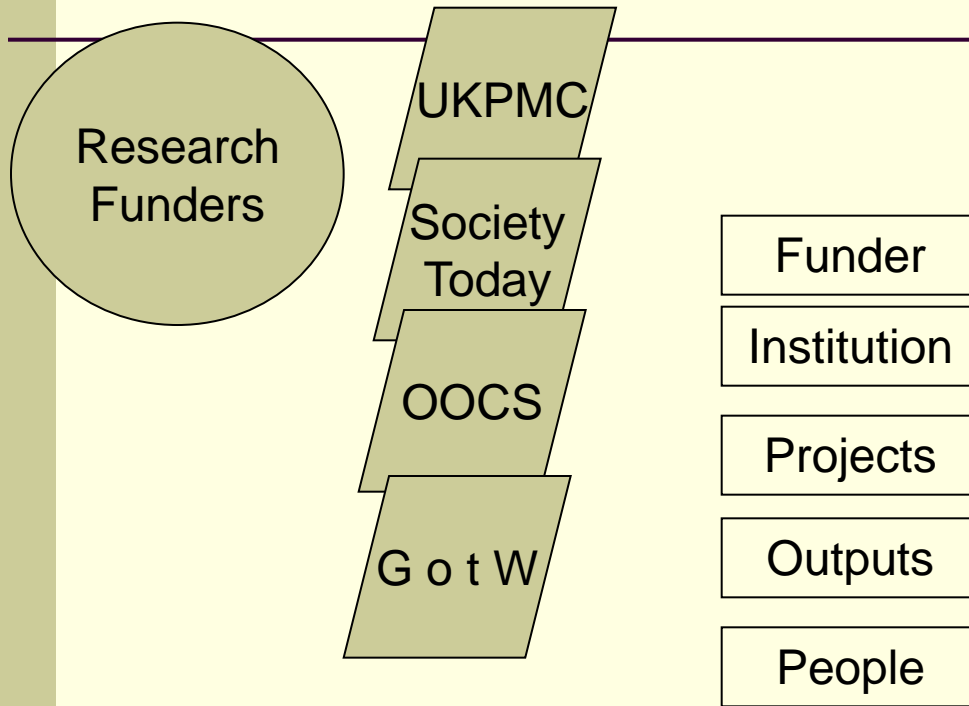
Institution

Projects

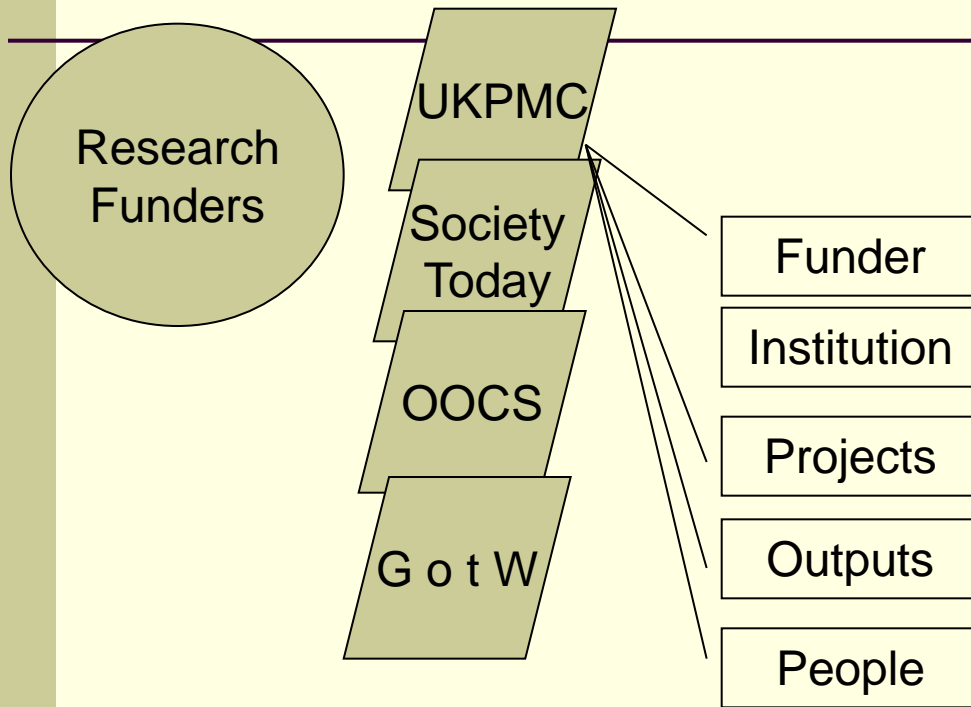
Outputs

People

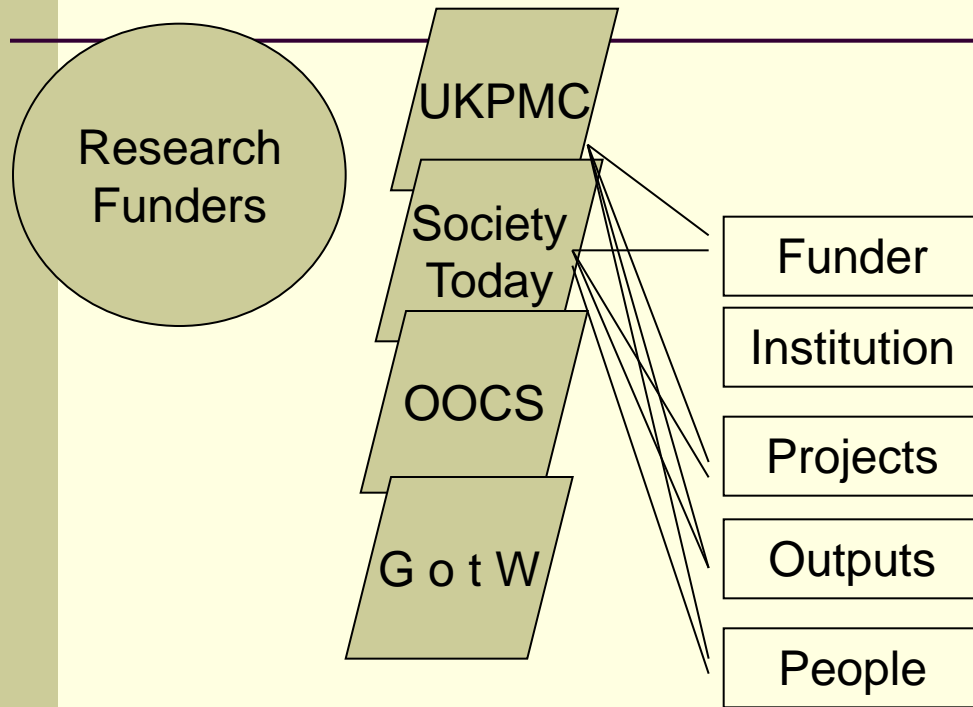
Research information management



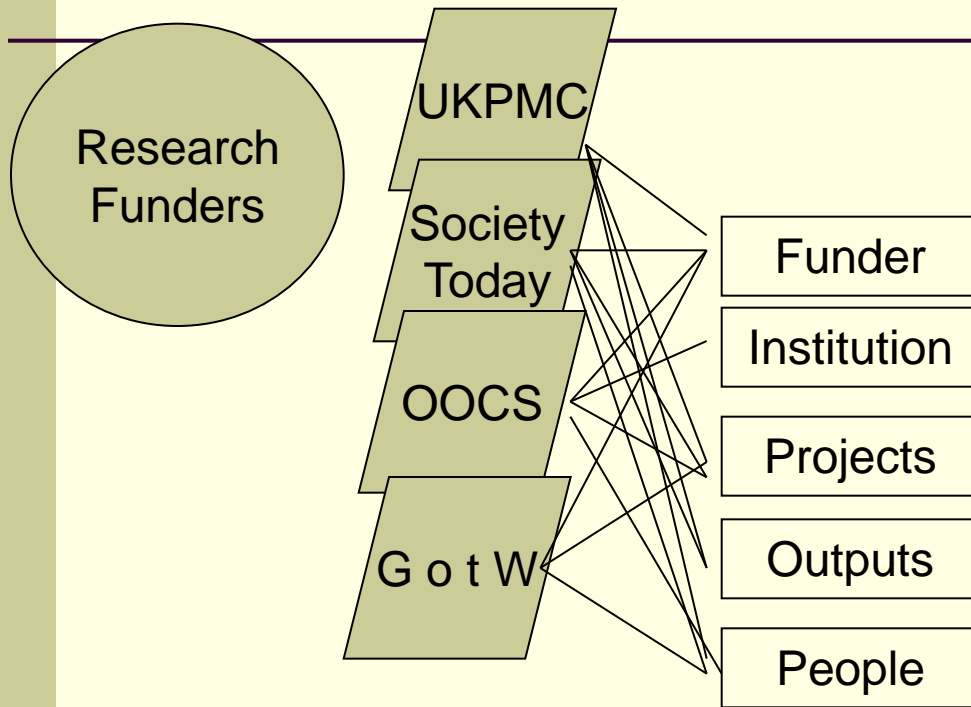
Research information management



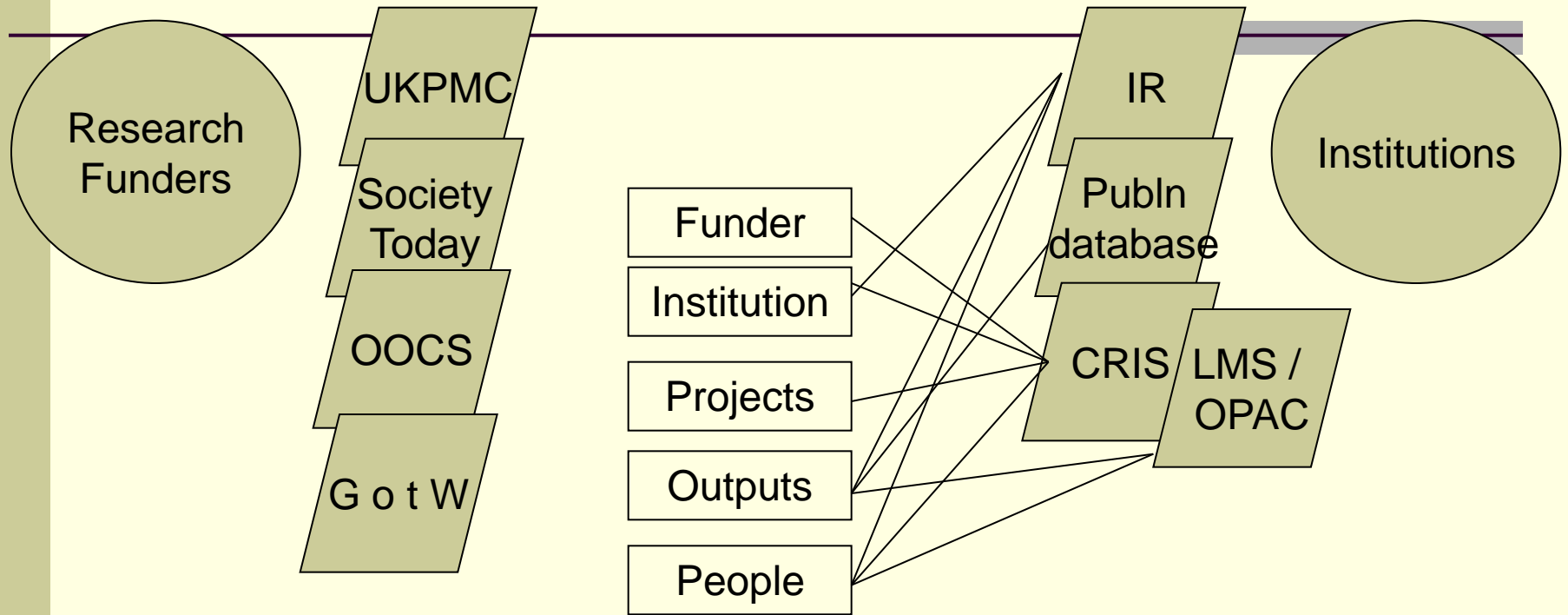
Research information management



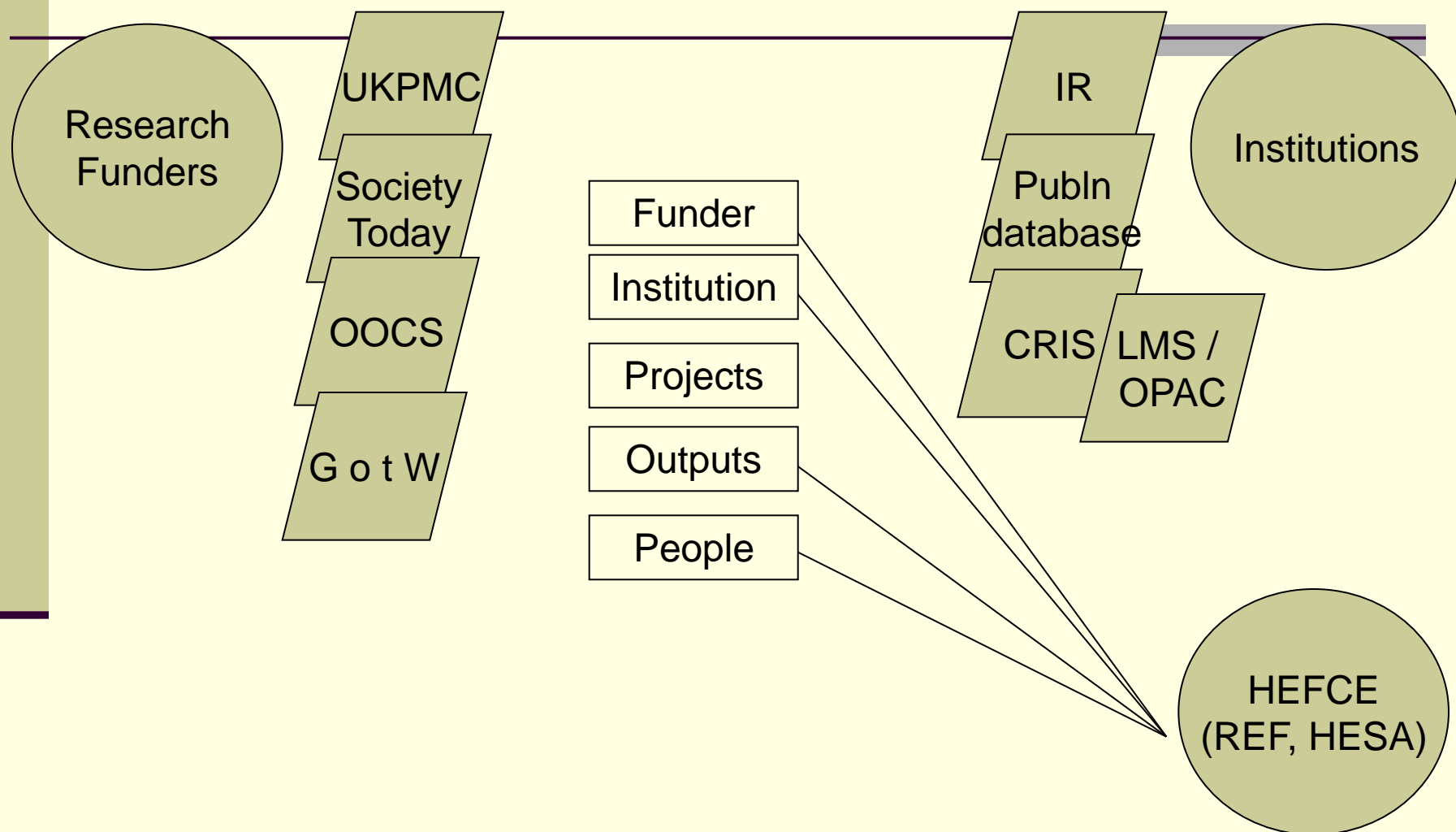
Research information management



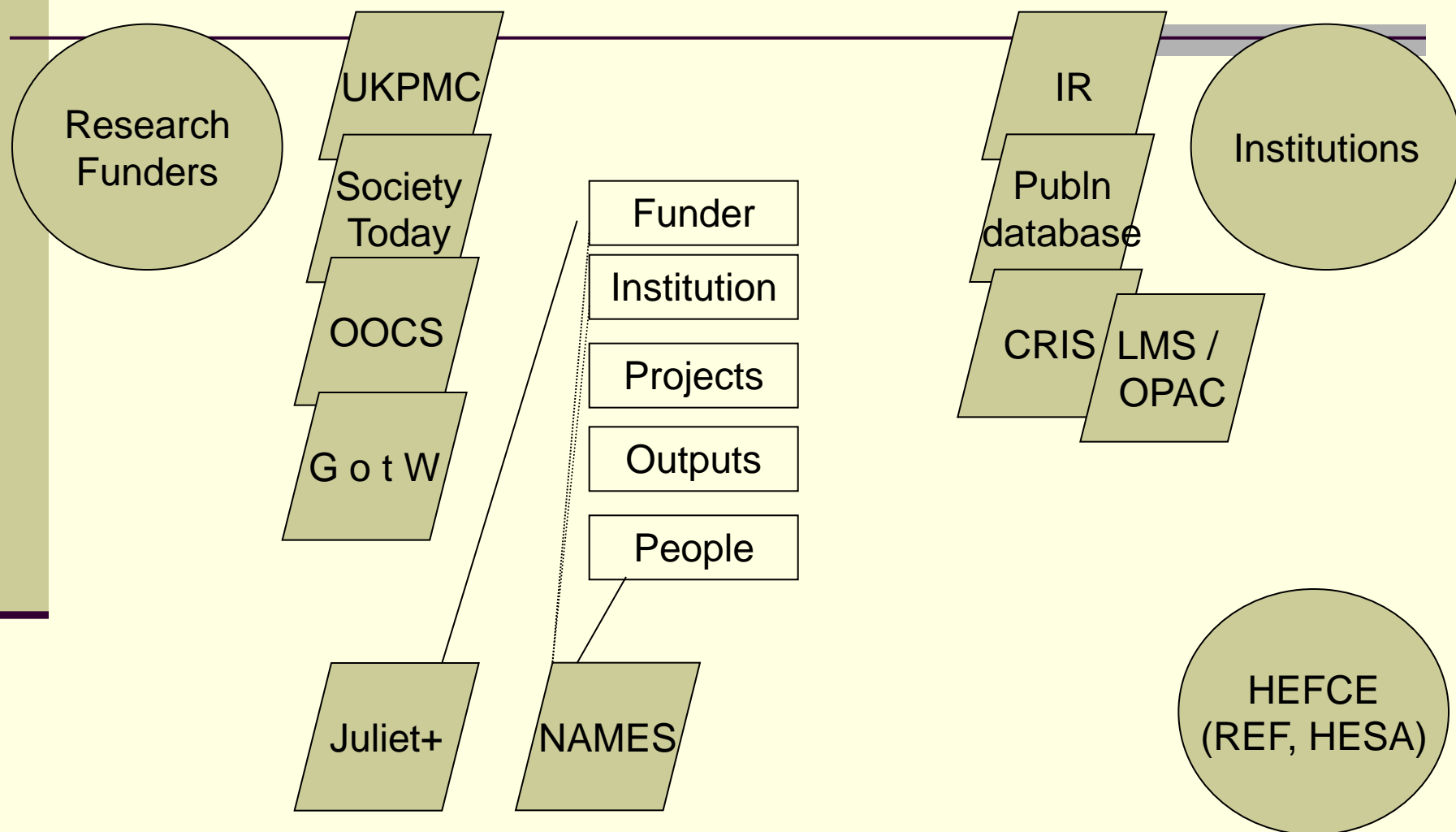
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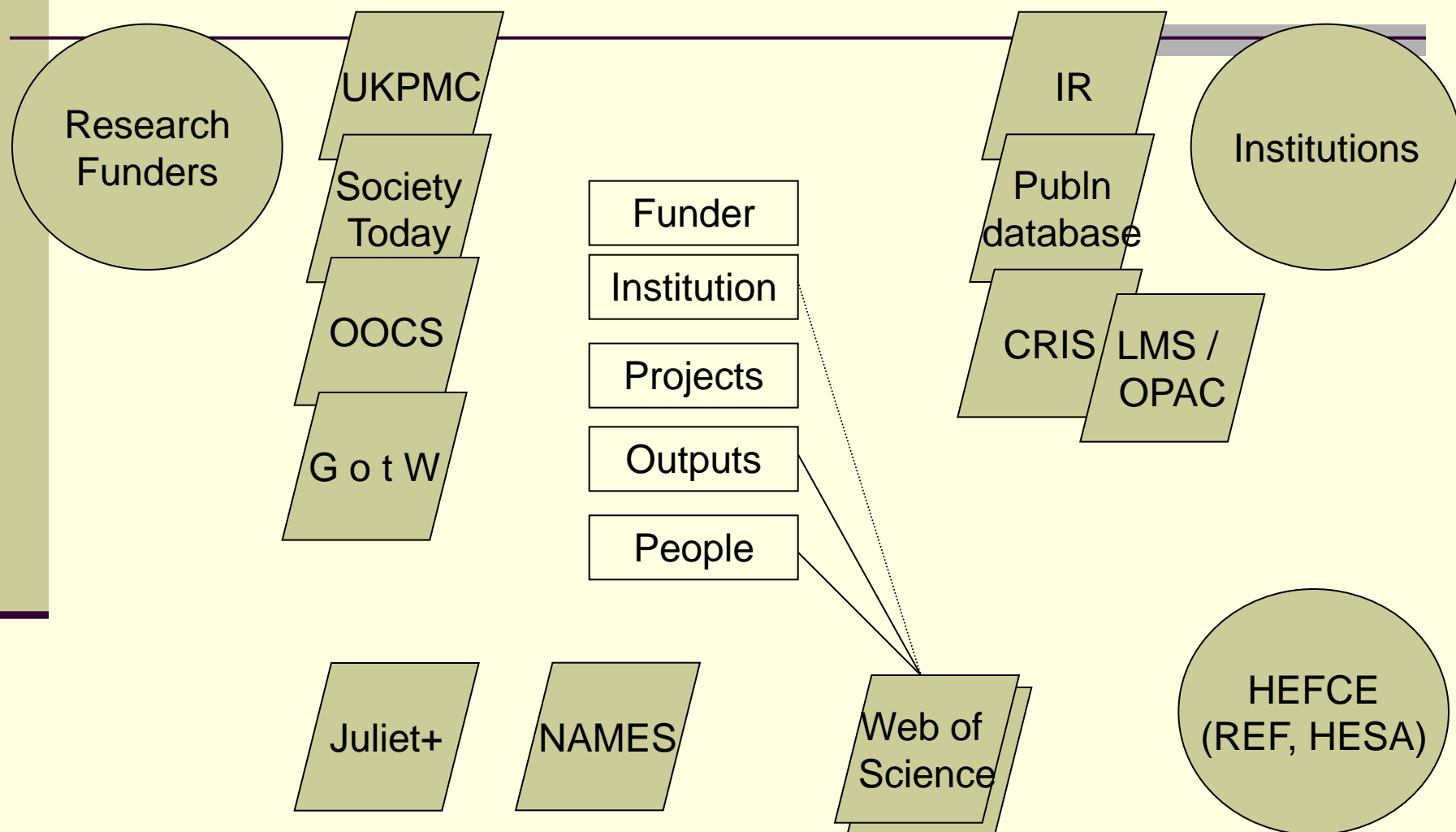
Research information management



Research information management



Research information management



Research information management – Shared infrastructure

We need Authority Files on :

People

Outputs

Organisations

Departments

People - outputs

People – institutions

Organisations – projects

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- Data Protection?
- Semantics
- Exchange format (CERIF)?
- Carrots & Sticks?





































































Base 800564 (B00326) 7-87

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

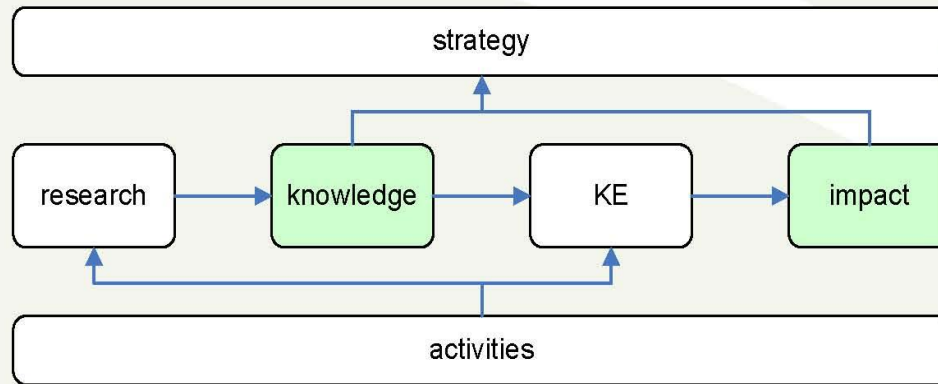
Collations of OA Policies

Funding Organisation (<i>linked to their JULIET summary</i>)	Publications Policy			Data Archiving Policy
	Open Access Archiving	Open Access Publishing	Open Access Publishing	
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)

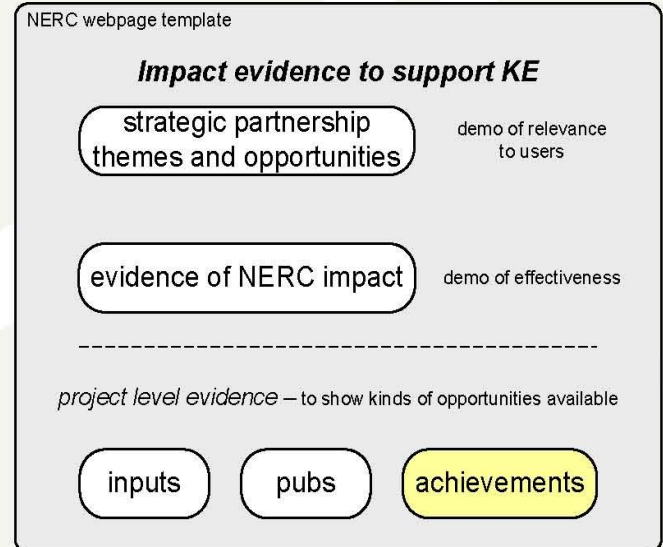
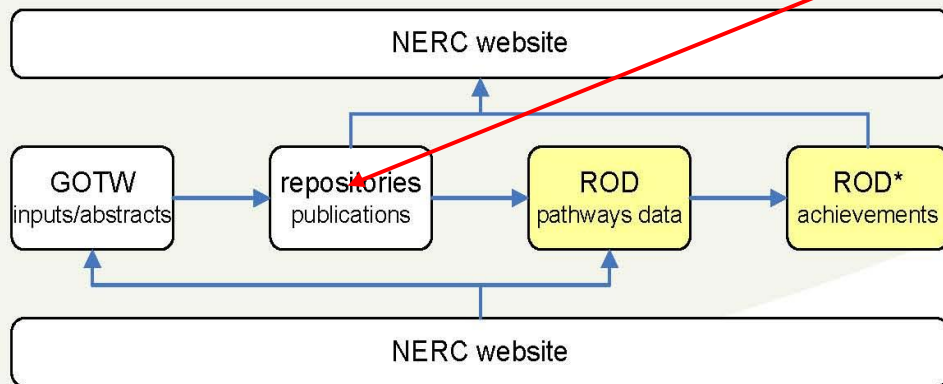
1. All peer reviewed papers will funded by Research Councils will be deposited in an appropriate repository as soon as possible after acceptance by a publisher (as in current Research Council OA Mandates)
2. The repository will provide mandatory Sponsor and GrantNumber fields and make these available 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