

# CRIS+OAR

## Integration Examples from the UK

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A Director of the  
Association of Research Managers and  
Administrators UK (ARMA)

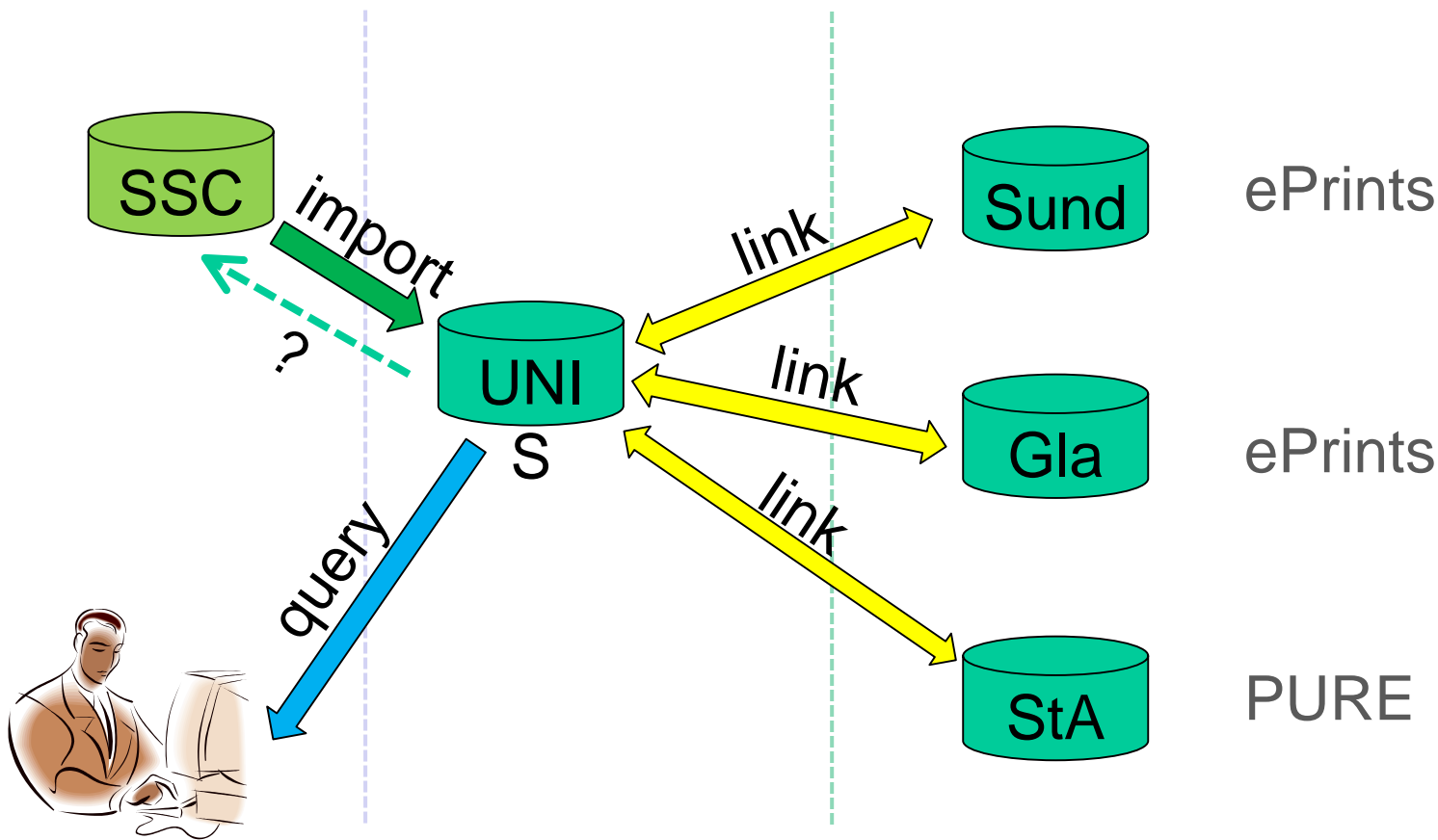
# Overview

- IRIOS
- Sunderland
- Newcastle
- RMAS
- Summary

# IRIOS

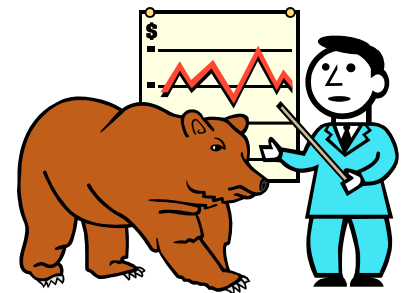
- Project data (from RCs)
- Publication data (from HEIs)
  - Sunderland, Glasgow, St Andrews
- Linked using the IRIOS (UNIS) system
- Demonstrates CERIF
- Demonstrator July 2011

# IRIOS System Overview

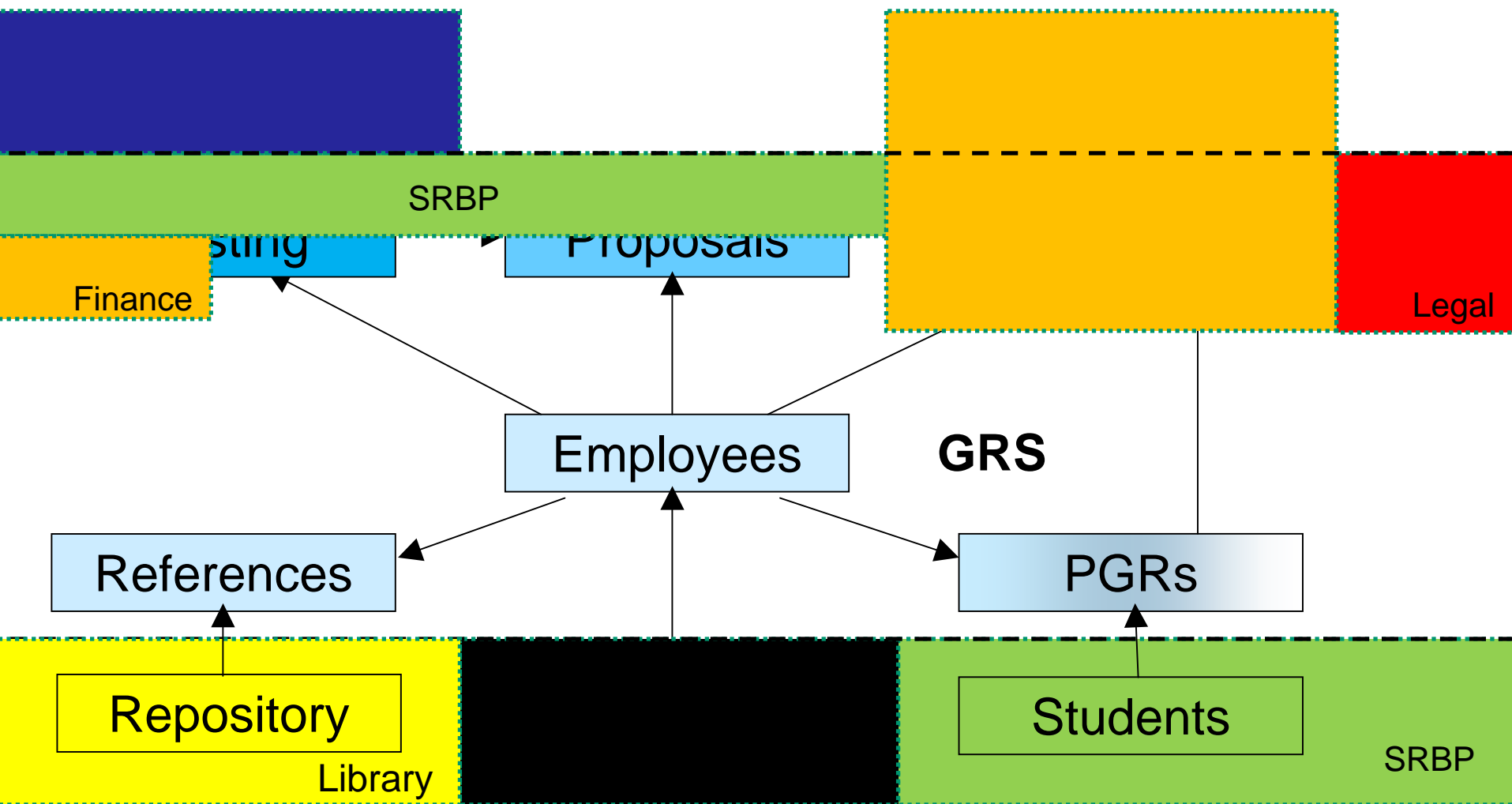


# Sunderland

- Ad hoc development since 1996
- Staff Details
- Publication meta data
- Proposal → Project data
- PGR data
- Costing and Pricing
- KPIs and reporting



# Sunderland



# Electronic Research Administration

## A case study from a non research intensive university in the UK.

What is Electronic Research Administration (ERA)? [also sometimes called Research Management and Administration Systems (RMASs) or Current Research Information Systems (CRISs)...?] **Any IT based system that helps Research Managers!**

The overall goal of Electronic Research Administration is to provide research managers and administrators, and the people that they support (researchers, senior managers and external stakeholders) with:

- seamless access to the appropriate data and information
- aggregated information and key performance indicators
- workflow and process management

And crucially an ERA should be properly integrated with the other IT systems in the organisation.

In terms of specific functionality, this could include:

- Funding News / Policy Information
  - Proposal Funding Opportunities
  - Staff information (HR links)
  - Staff profiles and CVs
  - Individual / Centre / Faculty / University web pages
  - Internal approval system (risk, peer review, ethics etc)
  - Costing system
  - Submission system
- Proposal Tracking System
  - Contract negotiation
  - Project Management (Finance System links)
  - Project Tracking (PGR, Outputs, Staff, Documents etc)
  - Outputs (Project, Repository, IP links and Bibliographic info)
  - Management Information
- Whilst this list is not exhaustive, it is typical of the ambitions of Universities in the UK, and indeed forms the core of the ERA strategy to 2013 at the University of Sunderland.

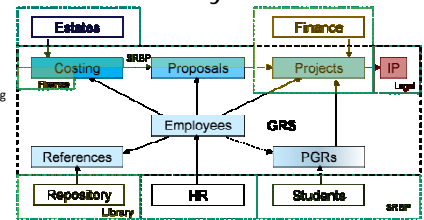
### Facts and Figures

- 1100+ Users
- 2300+ Staff records
- 1600+ Qualifications
- 9400+ Publications
- 5400+ Authors
- 1400+ Journals
- 1900+ PGR Students
- 1700+ Supervisors
- 2800+ Costings
- 3100+ Proposals
- 1600+ Projects
- 11500+ Project Notes
- 500Mb+ Database
- 2800+ Web files
- 1200+ Web pages
- 17200+ Project Files
- 3.76Gb+ Project Files

### Key to system diagram

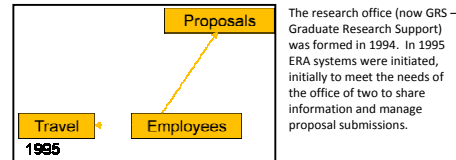
- GRS:** manage the research support functions at Sunderland
- Estates:** room size and type data
- Finance:** provide costing and pricing support and post award finance
- SRBP:** Student Recruitment and Business Partnerships are responsible for the Student system and knowledge transfer projects
- Legal:** manage the Intellectual Property portfolio
- Library:** manage the Institutional Open Access Repository
- HR:** manage the human resources database that drive the Employees tables in the ERA system

### Sunderland: systems context

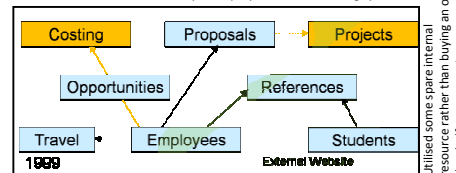


The dashed box represents the areas of Research Management (as defined by the RMAS project), with some of the elements of the Sunderland ERA system shown in blue boxes. The white area in the middle shows the scope of responsibility of the Research Office (GRS) with the other shaded colours showing the areas of the ERA that other support services are responsible for.

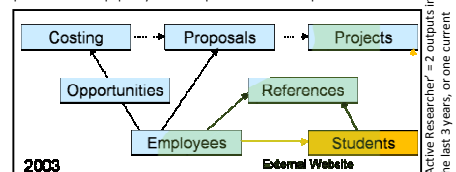
## Development Timeline →



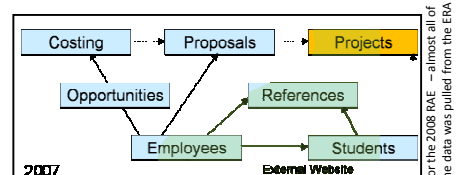
An existing travel database was normalised and employee information from it was used as the basis for a very basic proposal status tracking system.



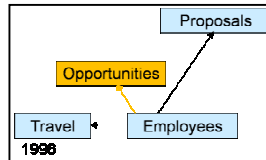
An on-line cost and pricing and approval system was developed, and run in parallel with the paper system. Proposals also tracked post award.



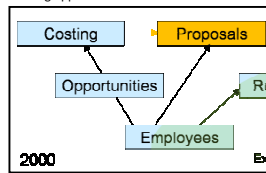
Fully Integrated PGR database. Added 'active researcher' reporting



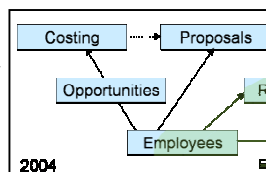
PAWS upgraded with additional post-award functionality. RAE publication selection functionality added (and export for spreadsheet profile prediction).



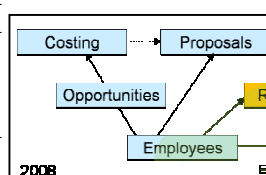
Employee information was expanded to include research interests, so that funding opportunities could be filtered and sent on to appropriate staff.



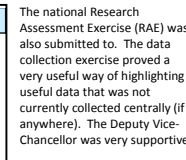
Pre- and Post-award tracking and management were integrated (and linked to the costing and pricing system).



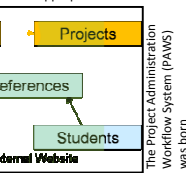
Minor upgrades to publication reference system. Data structure changes to reflect new University faculty structures



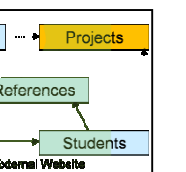
Plans to revamp external website, including showing 'impact'; integration with Institutional Repository (Outputs), replacement of costing and pricing.



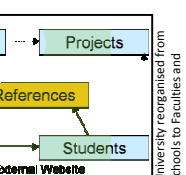
The database was made available for view and update through a series of dynamic web pages. This also allowed the data to be made available externally



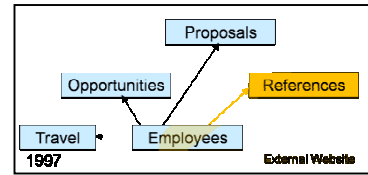
Further development work for post-award project management was undertaken, including document management and alerting



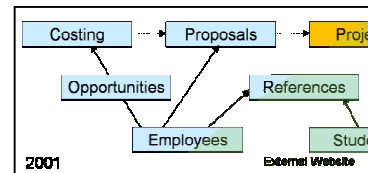
Costing revised to 'Full Economic Costing' (FEC) methodology. IP database bought it (but not integrated).



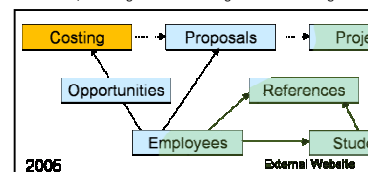
Added 'impact' functionality (for the Research Excellence Framework, that will replace the RAE). References can now be linked to projects.



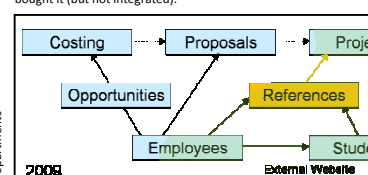
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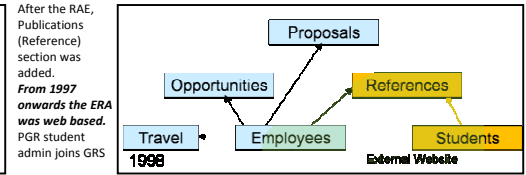
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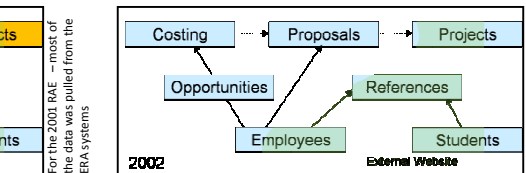
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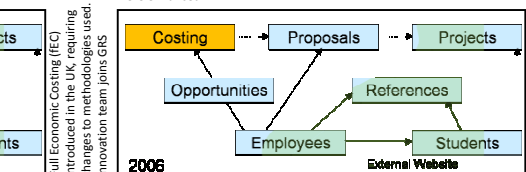
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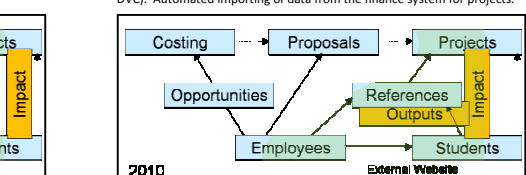
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Added 'impact' functionality (for the Research Excellence Framework, that will replace the RAE). References can now be linked to projects.

## Related work

Research Management and Administration Systems (HEFCE/JISC funded), Welland et al, 2009 – see <http://as.exeter.ac.uk/rmas/>  
 Common European Research Information Format (CERIF), euroCRIS, 2008 – see <http://www.eurocris.org/>  
 Research Information Management (JISC), Jacobs, 2010  
 see <http://www.iisc.ac.uk/whatwedo/themes/informationenvironment/researchinfomgt.aspx>  
 Current Research Information Systems, 10<sup>th</sup> conference, Aalborg, DK, 2010 – see <http://www.cris2010.org/>

## Summary

The vision has always been to develop systems that improve the quality of information about research and research support activities. Initially these developments were entirely within GRS, as the usefulness and importance of the various parts of the system have increased over time they have become mainstreamed in different ways. The Electronic Research Administration systems are now recognised as University wide Business Systems. However, as such, they are now under the auspices of the University Business Systems Strategy Group, which means that future developments may not be quite as agile, however, they may also be more sustainably resourced.

# Sunderland

http://www.grs.sunderland.ac.uk/grssite/database/publications/publist.cfm

List Of Publications

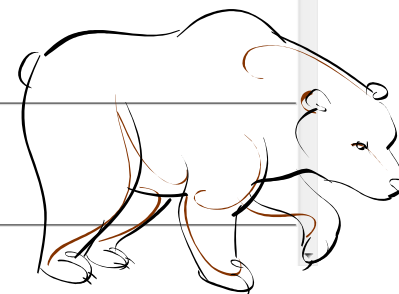
## List Of Publications

Search Menu

Please note that only selected publications are viewable by Guest users.

Publications that match your chosen criteria:  
*University publications, Author = Mr. Simon Kerridge  
In reverse chronological order*

- An Integrated System Supporting Virtual Consortia in the Construction Sector
  - Published in: Journal of Organizational Computing and Electronic Commerce
  - **Publisher:** Lawrence Erlbaum Associates
  - **Published:** Aug 2003
- The Virtual Consortium
  - Published in: EEMA Briefing
  - **Publisher:** Aaron Print Ltd
  - **Published:** Sep 2000
- Virtual Tendering and Bidding in the Construction Sector
  - Published in: Lecture Notes in Computer Science 1875: Electronic Commerce and Web Technologies
  - **Publisher:** Springer
  - **Published:** Sep 2000
- SupplyPoint: An integrated system supporting e-business in the construction sector
  - Published in: E-business: Key Issues, Applications and Technologies (eds. B Stanford-Smith & P T Kidd)
  - **Publisher:** IOS Press
  - **Published:** Aug 2000
- E-Commerce (Panel Session)
  - Published in: Compsac 99
  - **Publisher:** IEEE Computer Society Press
  - **Published:** Oct 1999
- Procuring with Electronic Commerce (Seminar)



# Sunderland

logout

Quick shortcuts -

- GRS Online
- PAWS
- RCG
- RAE Pubs
- Seminars
- Outline
- Programme
- Sub Groups
- Add Pub
- Edit Pub
- Own Pubs
- Find Proj
- Own Details
- fECAP
- GrAppl
- RAE
- Login As

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**Journal:** No Journal Selected.

**Publication Type:** (Non-)Governmental Report

**Publisher:** Pending Details

**Date Published:** Jan 2011

**Main Academic Area:** Computing, Engineering & Technology (1FAS)

**Main UoA:** Computer Science

**Volume No:** n/a

**Page / Ref:** n/a

**ISSN / ISBN Number:** n/a

**WWW Address:** None

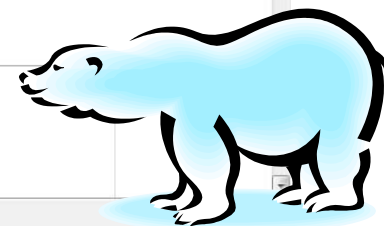
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**Excellence:** Not yet evaluated for excellence

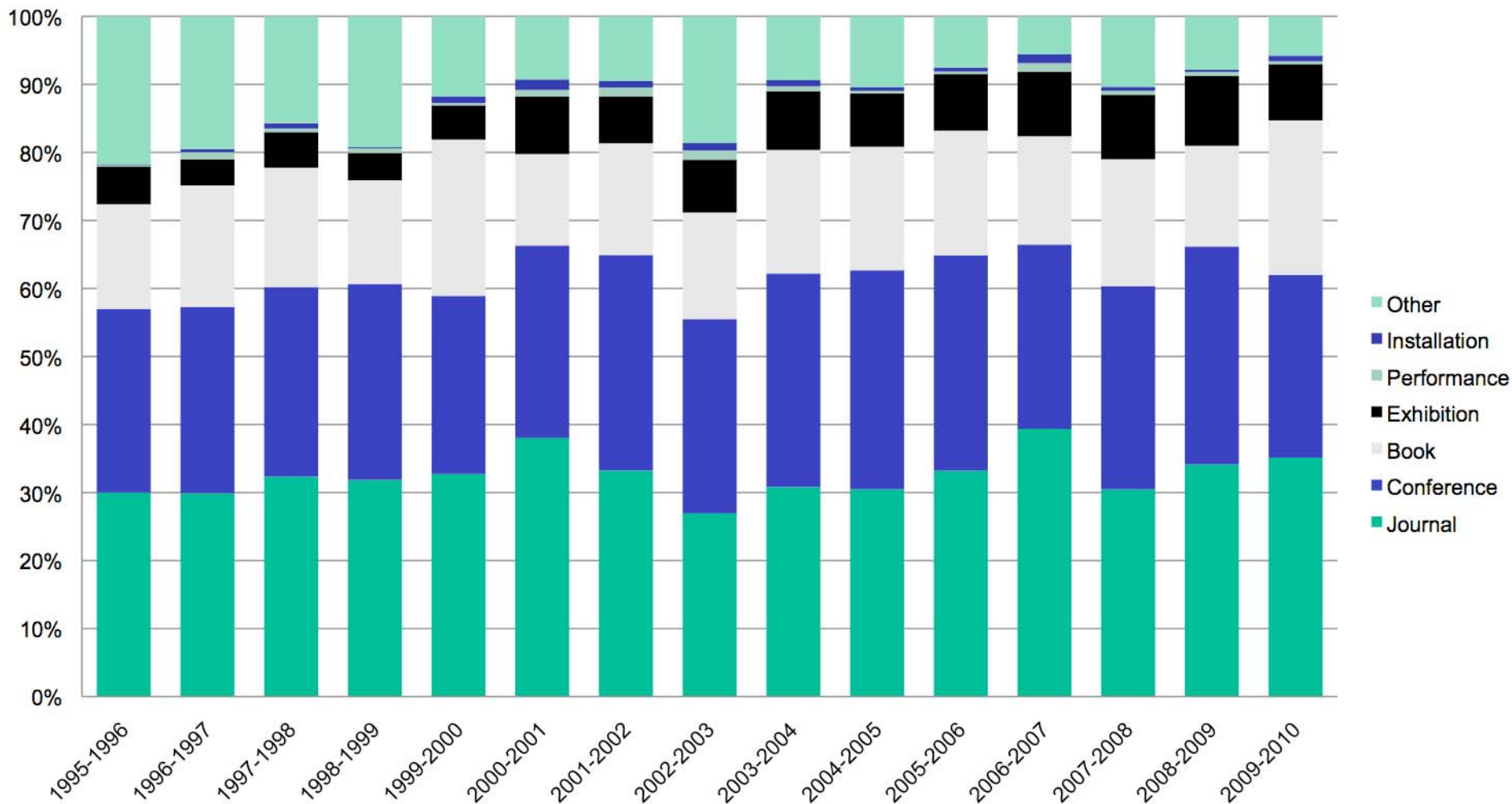
None

x Find:      Match case



# Sunderland

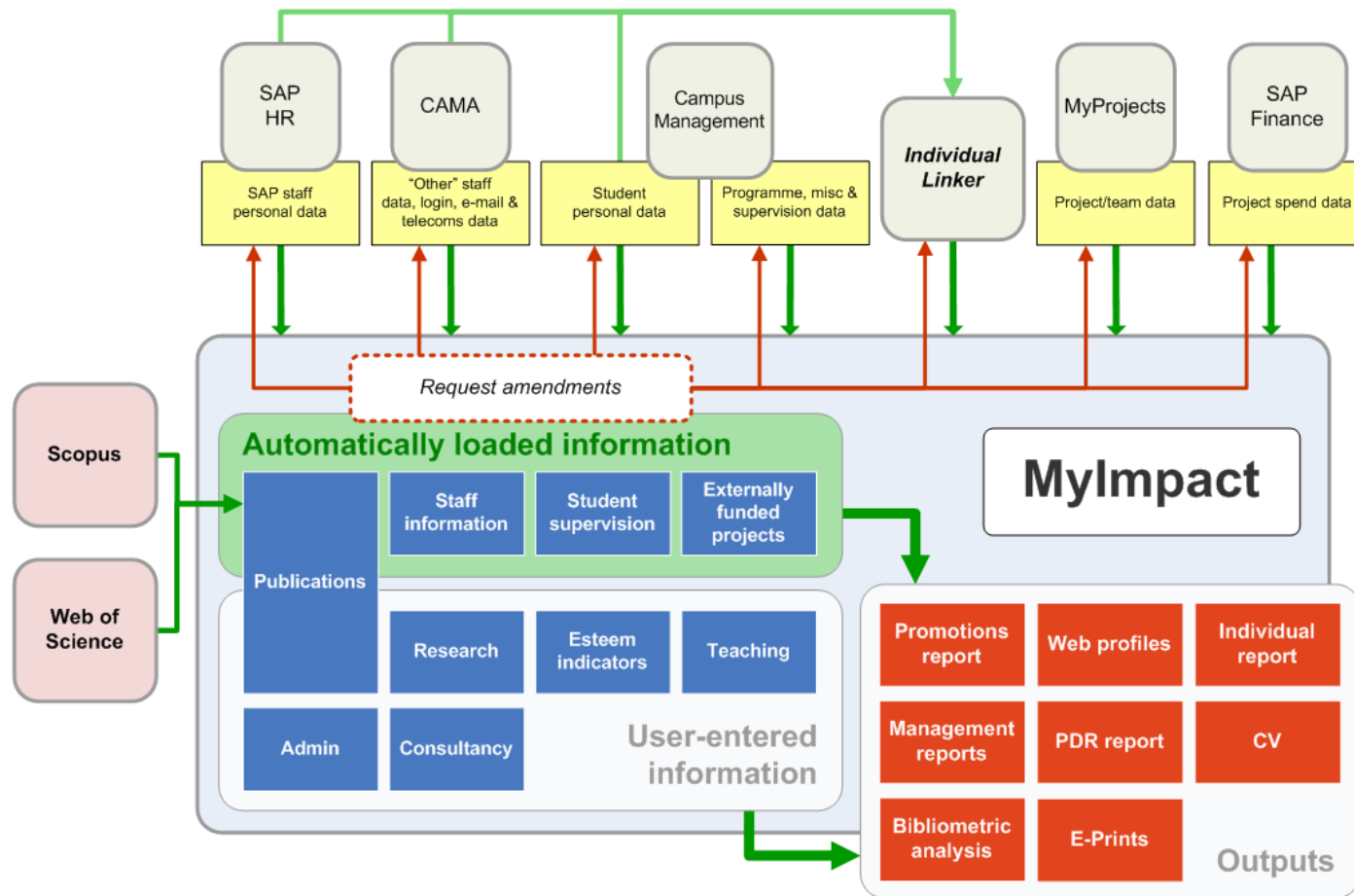
## Number of Research Outputs by Academic Year and Type of Output



# Newcastle

- Developments from 2008+
- Web of Science; and Scopus imports
- Linked to staff data, projects, PGRs, ...
- Semi-automated feeds and data update requests
- Select publications for web; full text
- Thanks to Mrs Lynn Hedley (Newcastle)

# Newcastle



# MyImpact Publications Screen

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#	Authors	Publication Type	Title	Year	Journal	Publication	Edit Publication	Full Text	Request Change
	M. Whitaker	Article	Calcium signalling in early embryos	2008	Philos Trans R Soc Lond B Biol Sci	M. Whitaker. <a href="#">Calcium signalling in early embryos</a> . <i>Philos Trans R Soc Lond B Biol Sci</i> 2008, <b>363</b> 1495 1401-18.	<a href="#">Edit</a>	<a href="#">Upload</a>	<a href="#">Change</a>
	K. Ross;G. Parker;M. Whitaker;N. J. Reynolds	Article	Inhibition of calcium-independent phospholipase A impairs agonist-induced calcium entry in keratinocytes	2008	Br J Dermatol	K. Ross;G. Parker;M. Whitaker;N. J. Reynolds. <a href="#">Inhibition of calcium-independent phospholipase A impairs agonist-induced calcium entry in keratinocytes</a> . <i>Br J Dermatol</i> 2008, <b>158</b> 1 31-7.	<a href="#">Edit</a>	<a href="#">Upload</a>	<a href="#">Change</a>
	M. Whitaker;J. Smith	Article	Introduction. Calcium signals and developmental	2008	Philos Trans R Soc Lond B	M. Whitaker;J. Smith. <a href="#">Introduction. Calcium signals and developmental</a> <i>Philos Trans R Soc Lond B Biol Sci</i> 2008, <b>363</b> 1495 1401-18.	<a href="#">Edit</a>	<a href="#">Upload</a>	<a href="#">Change</a>

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### Claim Your Publications

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Publications	Claim Publications
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Whitaker M. <a href="#">Calcium microdomains and cell cycle control</a> . <i>Cell Calcium</i> 2006, <b>40</b> 5-6 585-592. Downloaded: 31/07/2009   Source: Scopus	Is this yours? <input checked="" type="radio"/> No <input type="radio"/> Yes
Whitaker M. <a href="#">ITP</a> . <i>Seminars in Cell and Developmental Biology</i> 2006, <b>17</b> 2 230-232. Downloaded: 31/07/2009   Source: Scopus	Is this yours? <input checked="" type="radio"/> No <input type="radio"/> Yes
STEINETZ BG; WHITAKER PG; EDWARDS JRG. <a href="#">MATERNAL RELAXIN CONCENTRATIONS IN DIABETIC PREGNANCY</a> . <i>LANCET</i> 1992, <b>340</b> 8822 752-755. Downloaded: 31/07/2009   Source: Web of Science	Is this yours? <input checked="" type="radio"/> No <input type="radio"/> Yes
Lawrence Y; Whitaker M; Swann K. <a href="#">Sperm-egg fusion is the prelude to the initial Ca<sup>2+</sup> increase at fertilization in the mouse</a> . <i>DEVELOPMENT</i> 1997, <b>124</b> 1 233-241. Downloaded: 31/07/2009   Source: Web of Science	Is this yours? <input checked="" type="radio"/> No <input type="radio"/> Yes

**Abandon changes**  **Claim Publications**

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Edit Web Profile

The web profile content on this page is currently linked to these websites: FACULTY SITE RESEARCH GROUPING

**Prof. DJ Henderson**  
Professor of Cardiac Development

Email: [d.j.henderson@ncl.ac.uk](mailto:d.j.henderson@ncl.ac.uk)  
Telephone: +44 (0) 191 241 8644  
Fax: +44 (0) 191 241 8666  
Address: Institute of Human Genetics  
University of Newcastle upon Tyne  
International Centre for Life  
Central Parkway  
Newcastle upon Tyne  
NE1 3BZ

Edit Personal Details

Profile | Research | Teaching | Publications

Use drag and drop to arrange the publications that are shown on this web profile:

- Drag items from the "Not shown" column into the "Shown" column to make them **visible**.
- Drag items from the "Shown" column into the "Not shown" column to **remove** them.
- You can also reorder the list of shown items using drag and drop

Publication Ordering Preference: Manual (drag and drop) ordering

Shown on this profile:

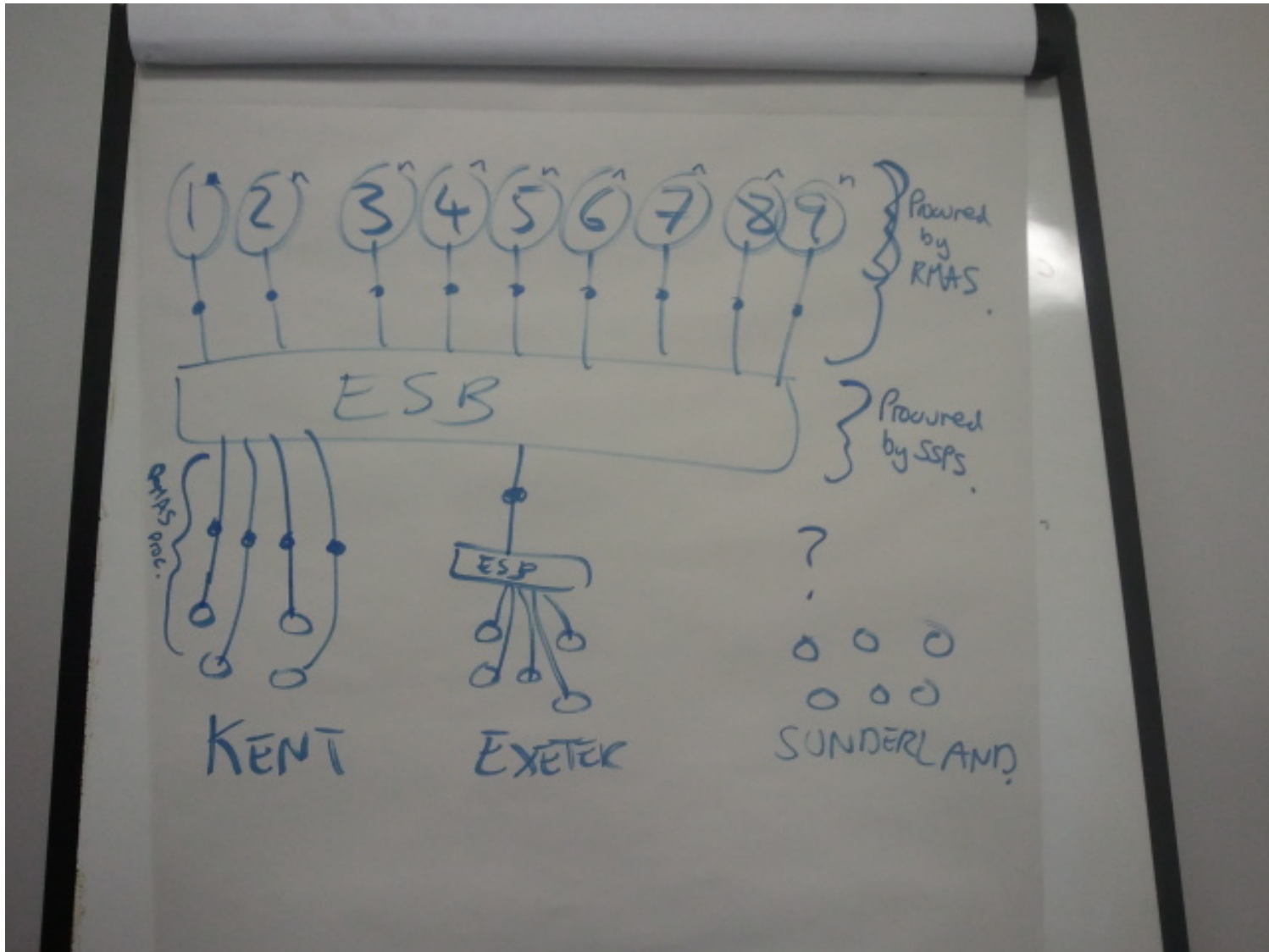
Not shown on this profile:

Hildreth V, Webb S, Chaudhry B, Peat JD, Philips HM, Brown N, Anderson RH, Henderson DJ. <a href="#">Left cardiac isomerism in the Sonic hedgehog null mouse</a> . <i>Journal of Anatomy</i> 2009, <b>214</b> (6), 894-904.	Ioannides AS, Massa V, Ferraro E, Cecconi F, Spitz L, Henderson DJ, Copp AJ. <a href="#">Foregut separation and tracheo-oesophageal malformations: The role of tracheal outgrowth, dorso-ventral patterning and programmed cell death</a> . <i>DEVELOPMENTAL BIOLOGY</i> 2010, <b>337</b> (2), 351-362.
Bradshaw L, Chaudhry B, Hildreth V, Webb S, Henderson DJ. <a href="#">Dual role for neural crest cells during outflow tract septation in the neural crest-deficient mutant <i>Solotch2H</i></a> . <i>Journal of Anatomy</i> 2009, <b>214</b> (2), 245-257.	Hunt DP, Sajic M, Philips H, Henderson D, Compston A, Smith K, Chandran S. <a href="#">Onset of Gliaogenic Stem Cell Populations Within Adult Skin and Bone Marrow</a> . <i>Stem Cells and Development</i> 2010, <b>19</b> (7), 1055-1065.
Philips HM, Hildreth V, Peat JD, Murdoch JN, Kobayashi K, Chaudhry B, Henderson DJ. <a href="#">Non-cell-autonomous roles for the neural crest in the development of the</a>	Philips H, Boczonadi V, Chaudhry B, Henderson D. <a href="#">03-0015: The neural crest is essential for embryonic patterning of neural crest</a>

# RMAS

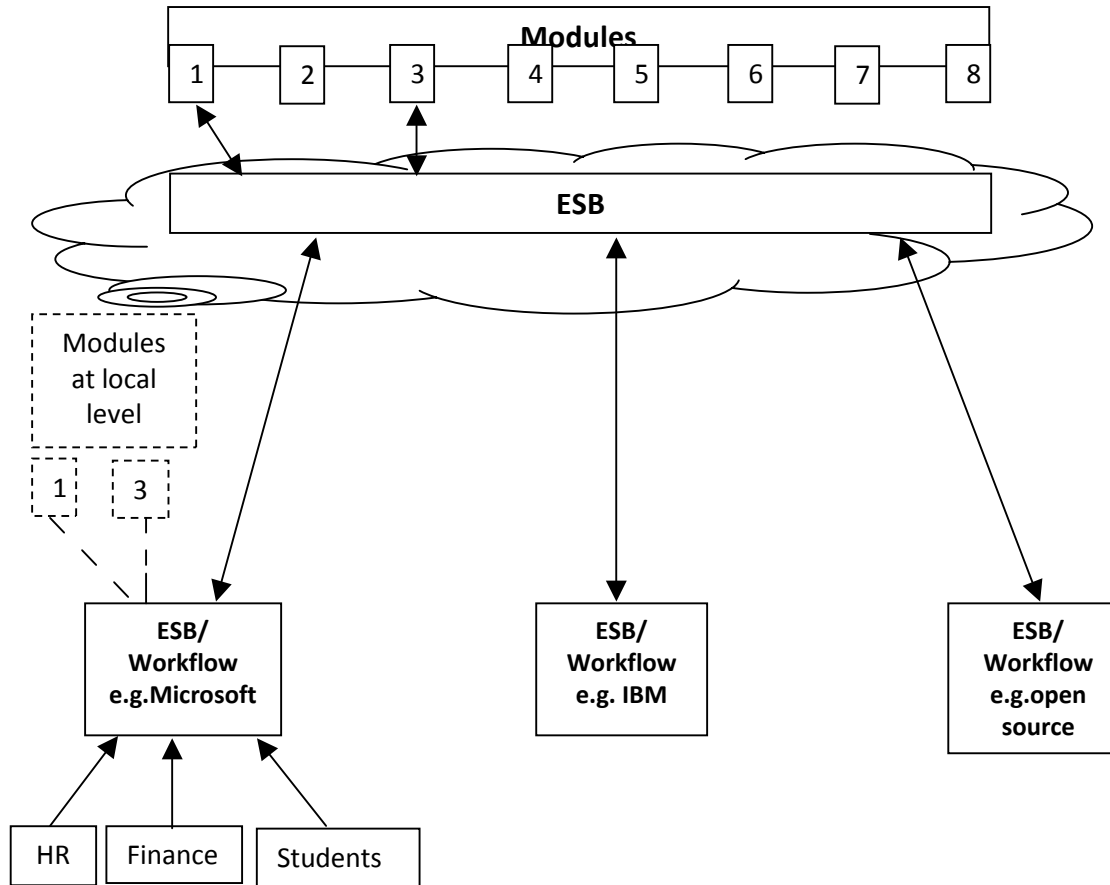
- HEFCE (JISC) Funded
- Exeter, Kent, Sunderland
- Modular CRIS (CERIF compliant)
- ESB & Cloud based
- Demonstrates in March 2012

# RMAS

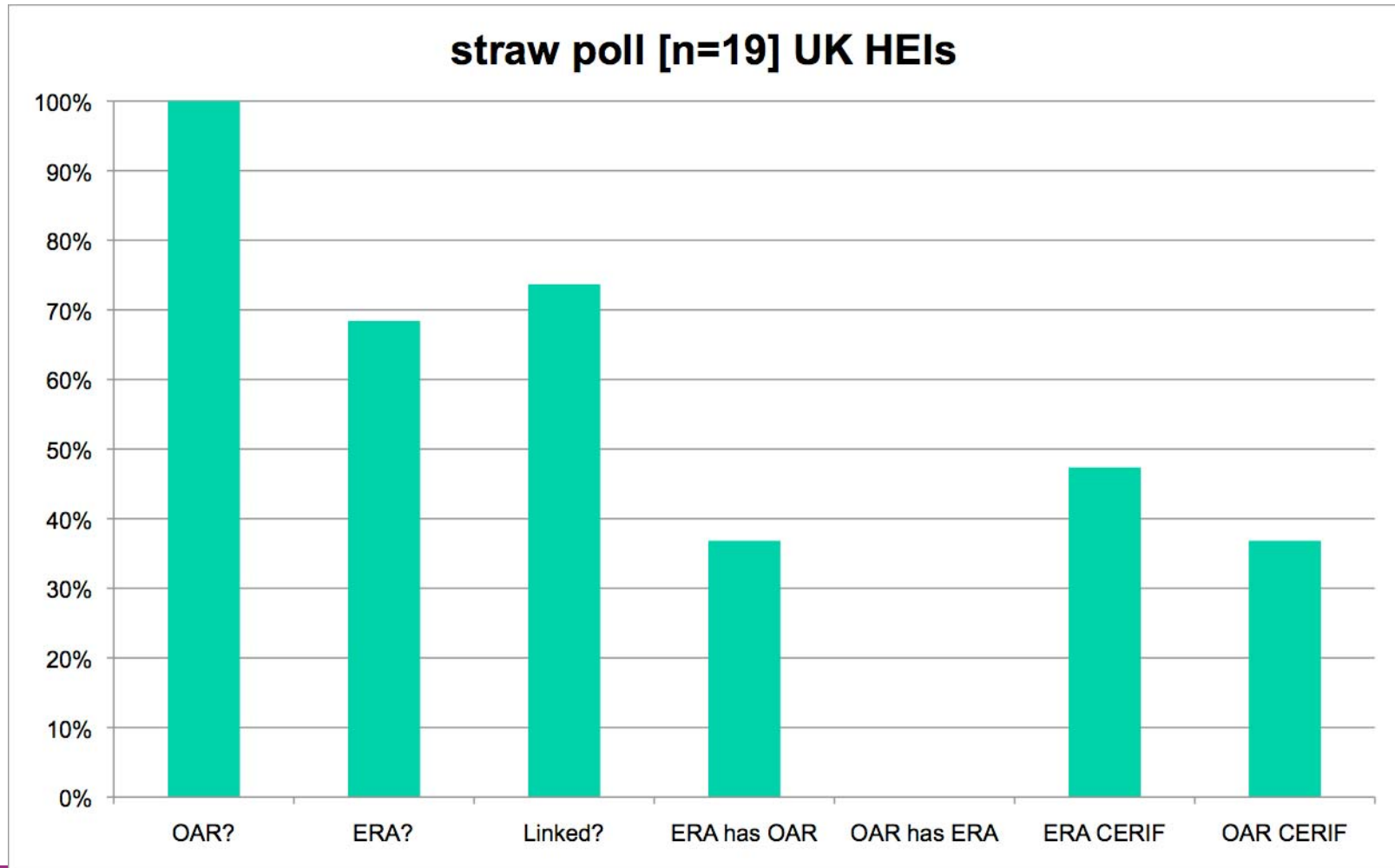


# RMAS

## PILOT PHASE DIAGRAM



# Straw Poll



# Summary

- Integration is becoming the key
- Straw poll – feedback “want to integrate”
- Everyone wants a full CRIS
- No-one has a full CRIS
  - Or at least not transferable...

# Questions / Discussion

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IRIOS PI  
Sunderland GRSdB Architect  
RMAS Steering Group & Pathfinder PI