

Practical Experiences of IAM and Distributed Services

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15th November 2013



About us

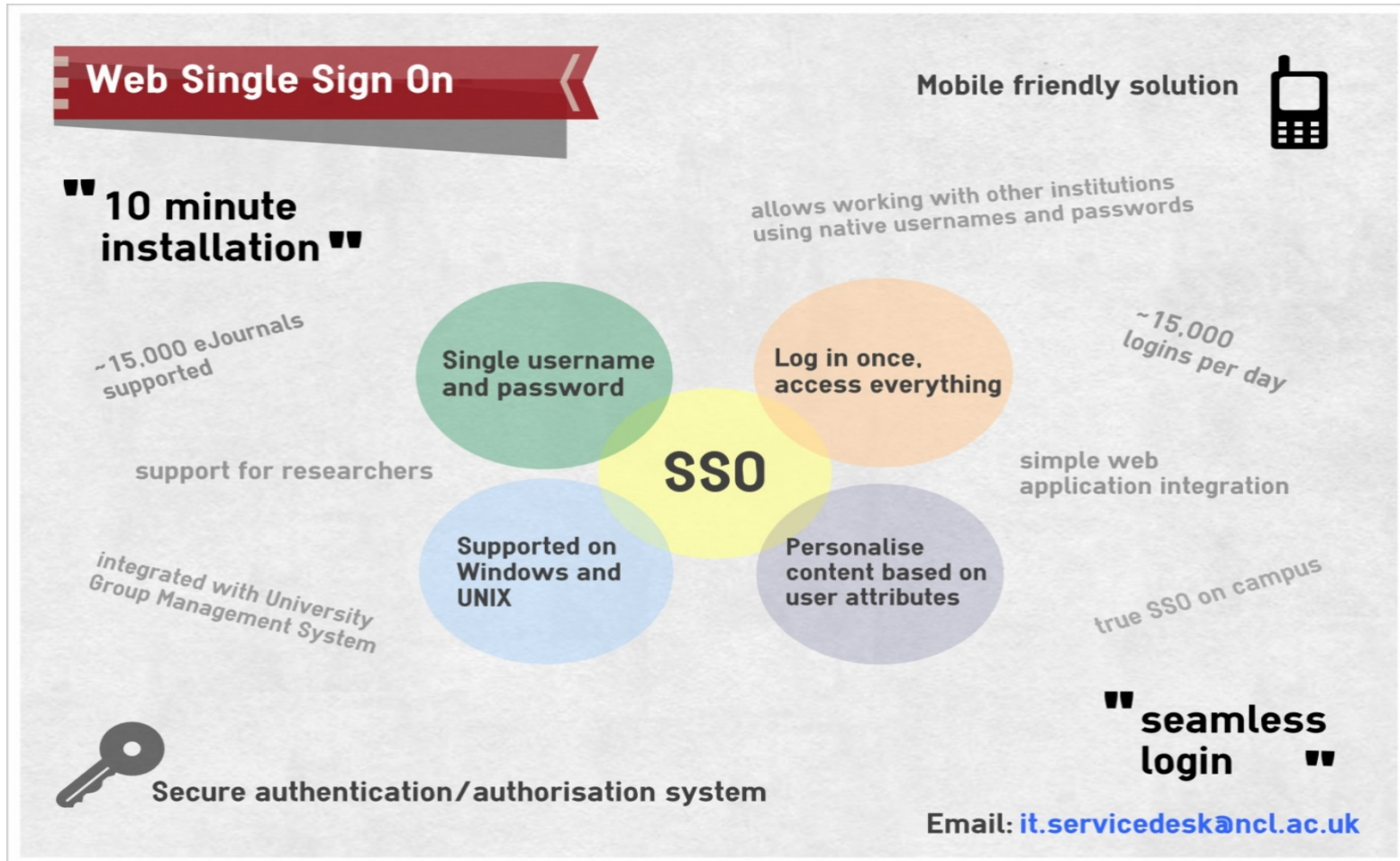
- ▶ Based in North East of England
- ▶ Research intensive University
- ▶ 21,000 students
- ▶ 5200 staff
- ▶ NUmed campus in Malaysia



Areas for discussion

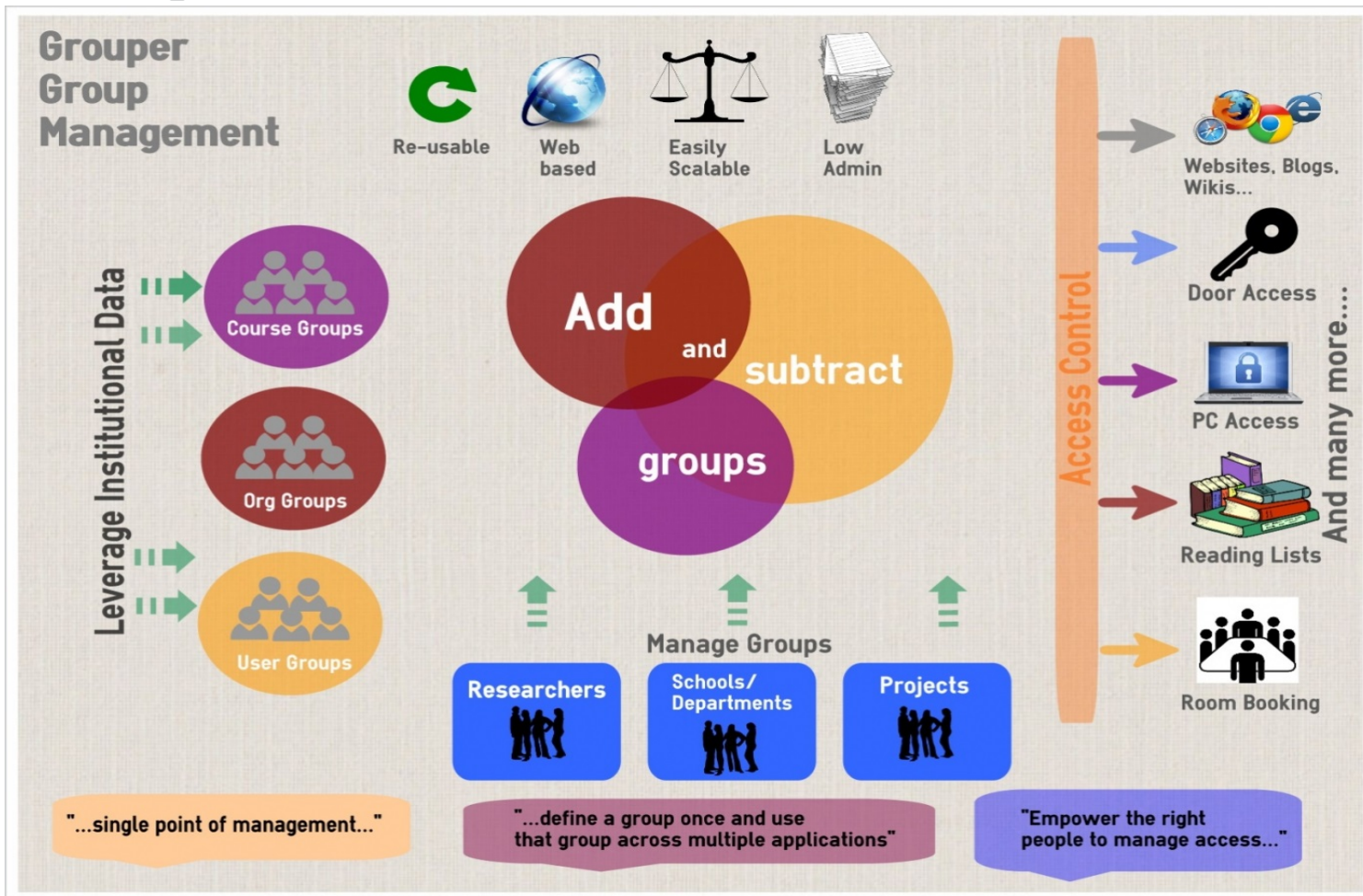
- ▶ Describe our IAM architecture
 - Single Sign On - Shibboleth
 - Group Management - Grouper
 - Institutional Data Feed Service(IDFS) - Talend
- ▶ Experiences of branching out into cloud services
 - Exlibris
 - Office 365
 - Dreamspark

Shibboleth



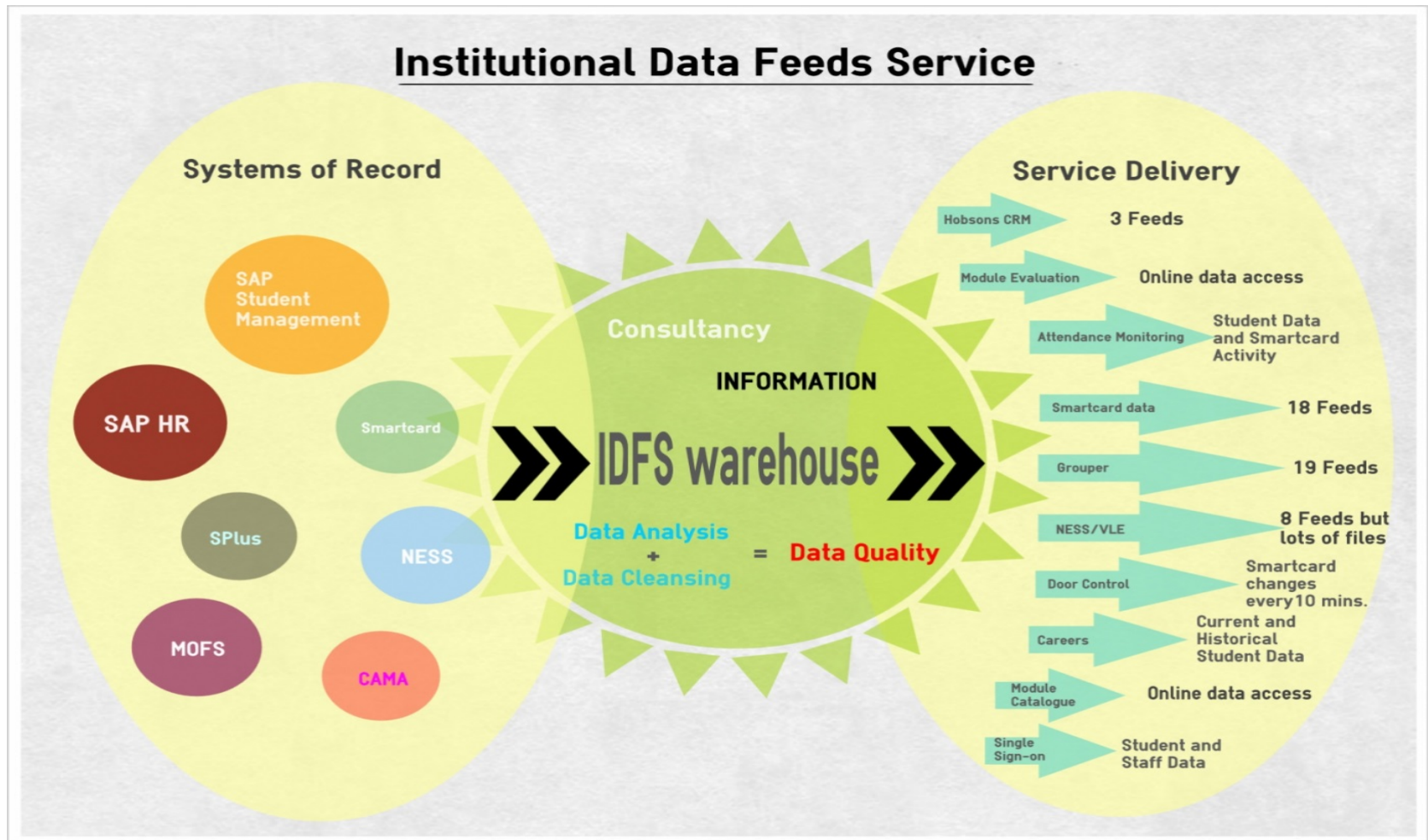
<http://www.ncl.ac.uk/itservice/login-gateway/infographic/sso-infographic.jpg>

Grouper



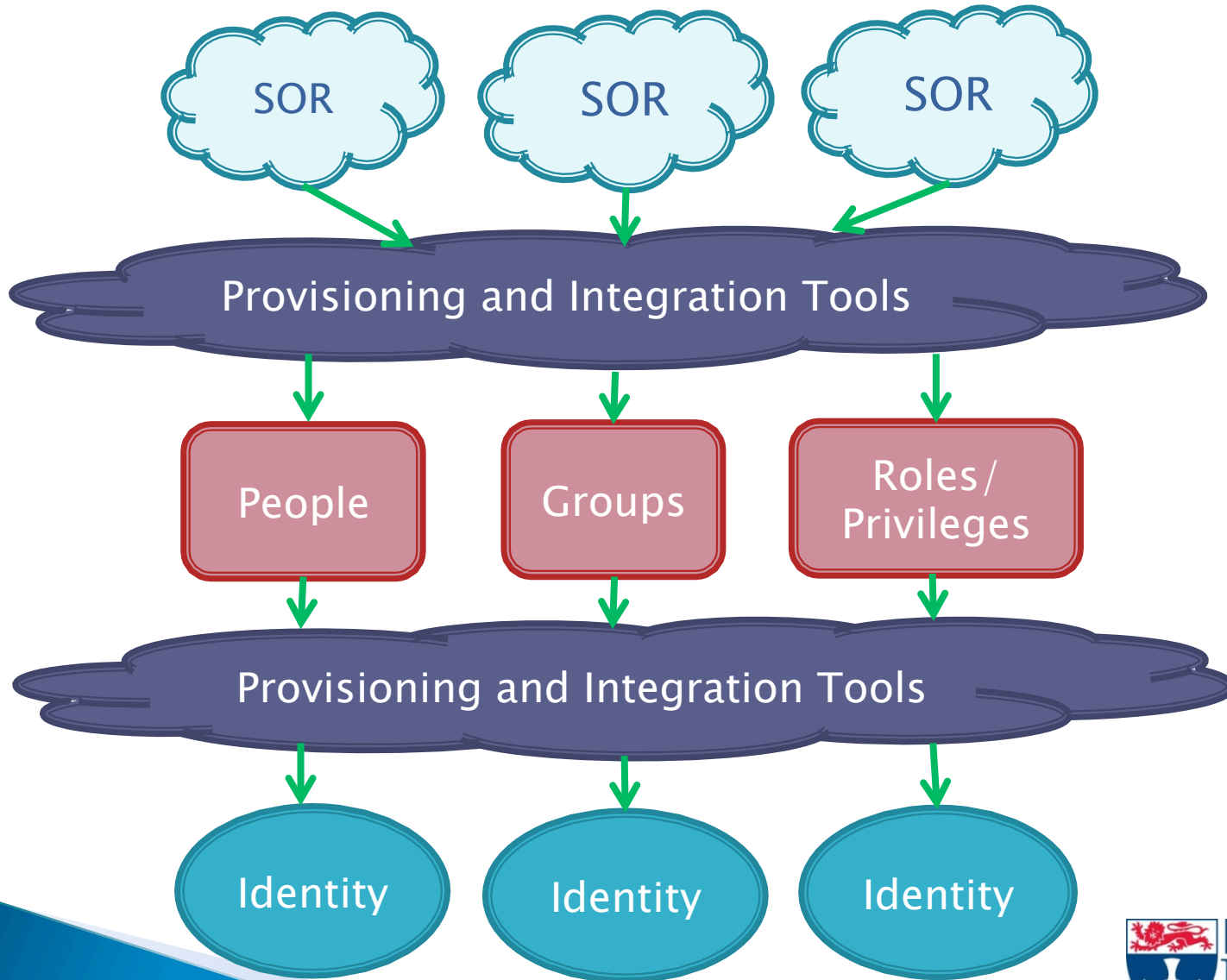
<http://www.ncl.ac.uk/itservice/group-management/infographic/infographic.jpg>

IDFS

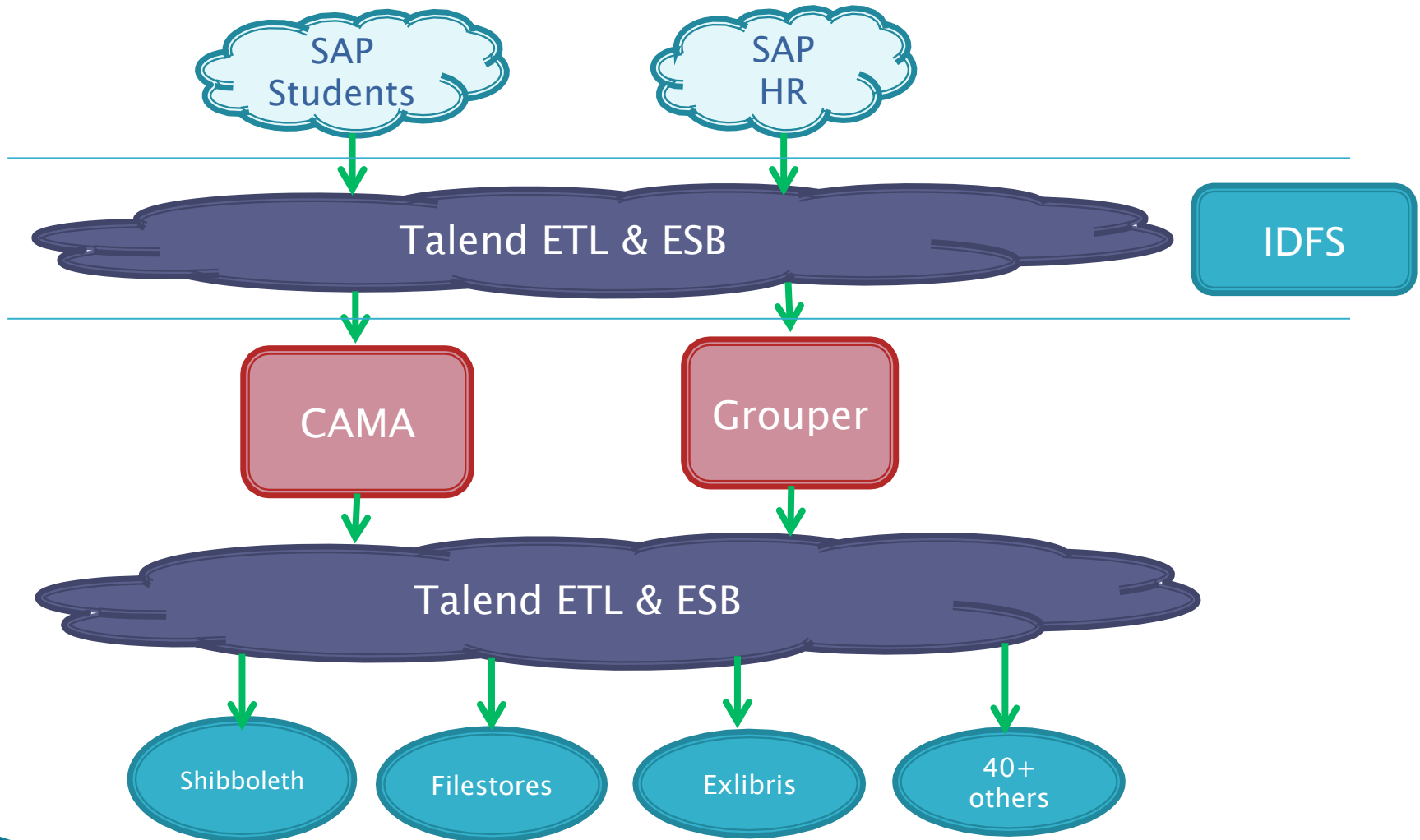


<http://www.ncl.ac.uk/itservice/idfs/infographic/idfs-infographic.jpg>

CIFER Provisioning Model



Our Provisioning Model



Library

- ▶ Exlibris
- ▶ Aleph
- ▶ SFX
- ▶ Metalib
- ▶ Primo

The screenshot shows the Newcastle University Library Search homepage. At the top, there is a navigation bar with the university logo, the 'LibrarySearch' title, and user information for 'JAMES, RICHARD ANTHONY'. Below this is a search bar with a dropdown menu set to 'Everything except articles' and buttons for 'Search' and 'Advanced Search'. The main content area is divided into several sections: 'What is Library Search?' with a description and a link to 'What's included in Library Search?'; 'On your smartphone' with a QR code and a 'GO MOBILE' button; 'My Account' with a yellow star icon and a description of account features; 'Help and feedback' with a 'Click here' link and a description of the service; 'Inter-Library Loans' with a 'click here' link; 'How to make a reservation / hold request' with a 'Click here' link; 'Old Library Catalogue' with a 'link it' icon; and 'Sharing resources on Library Search' with a 'link it' icon. The footer of the page contains the Exlibris logo and the tagline 'The bridge to knowledge'.

- ▶ Previously hosted on campus
- ▶ Now hosted by Exlibris
- ▶ XML provisions people
- ▶ Shib provides the authentication



Office 365

▶ **Benefits to the University**



- ▶ Large email quota (50GB)
- ▶ A fully featured email client experience based on Outlook Web App 2013
- ▶ A green/sustainable hosting platform
- ▶ Ability to access email, calendar and contacts from a range of mobile devices

Office 365 Experiences

- ▶ Single sign on was the main priority of senior stakeholders
- ▶ Had to deal with external and internal access
 - Bring your own devices causes problems
- ▶ DirSync – active directory sync every 3 hours
- ▶ Getting support
 - ESC Nottingham Trent Microsoft support team – internal forums - <http://www.escuk.net/>
- ▶ For more info on the journey visit
- ▶ <https://blogs.ncl.ac.uk/isg/>

Controlling access in the cloud (Microsoft Dreamspark)

Scenario

- ▶ Access to free Microsoft software packages
- ▶ Access management not scalable going forward
- ▶ Previously only offered to a small subset of users

What Next?

- ▶ Great, it uses Shibboleth!
- ▶ Not so great, premium and standard levels of access
- ▶ Controlling access for over 25k users



How its done

Our provisioning model allowed us to tackle this

- ▶ **IDFS** – extract STEM data
- ▶ **Grouper** – maps users to STEM and Non Stem groups and pushes into AD
- ▶ **Shibboleth** – queries AD, sets an attribute based on group membership
 - urn:mace:dir:attribute-def:ou
- ▶ **Dreamspark** - use this attribute to determine levels of access

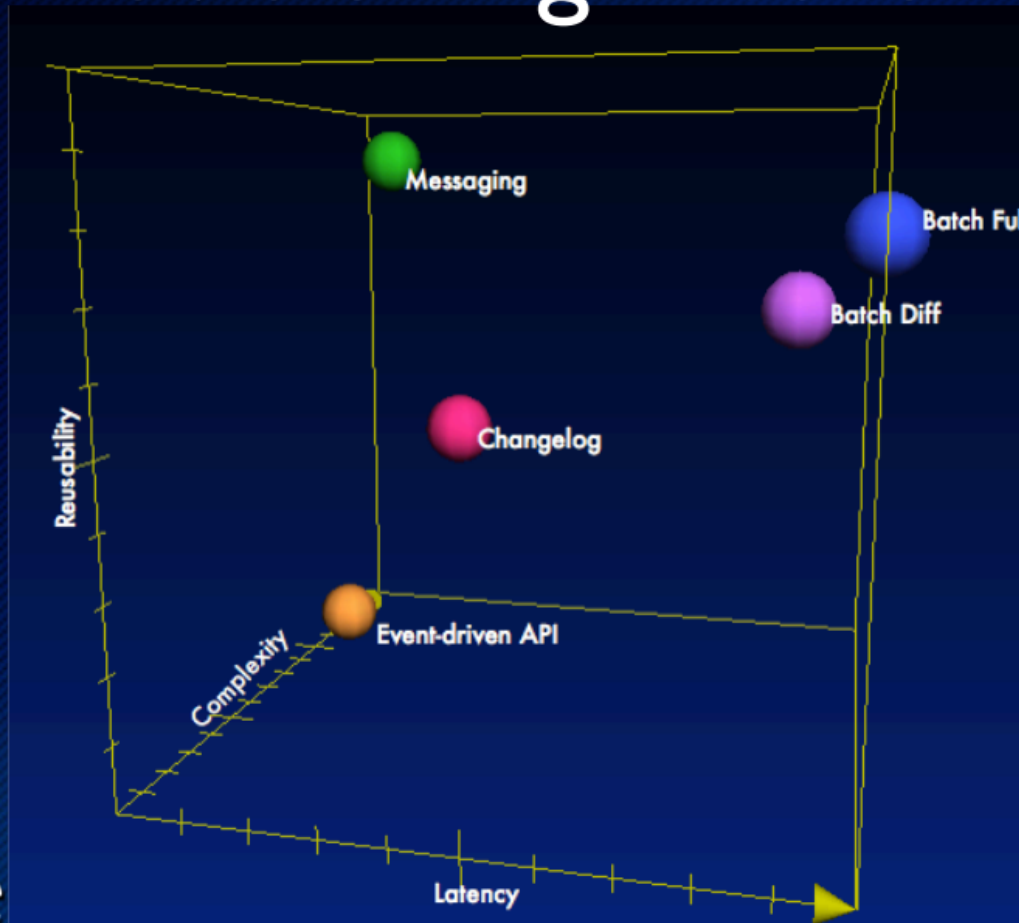
Was it all worth it?

- ▶ A seamless and easier experience for students
- ▶ Over 25,000 users are now able to access resources, up from 700
- ▶ Management of access control significantly reduced
- ▶ Since January 2013 £2.5 million worth of software provided free to University users

What next?

- ▶ Staying observant
- ▶ Assessing the feasibility
- ▶ Consider previous experiences
- ▶ Consider the costs
- ▶ Other techniques for cloud provisioning
- ▶ Other cloud provisioning, Amazon, Adidas

Provisioning Methods



Duke
UNIVERSITY

http://www.incommon.org/docs/iamonline/20130612_IAM_Online.pdf

Any questions?

