Institutional Data Management for Personalisation and Syndication

Overview Event for ISS Staff



IDMAPS

Introduction Sunil Rodger

Data Flow Jon Dowland

Personalisation Paul Thompson

Q&A and Conclusion Steve Williams

... Food



Introduction

Sunil Rodger



IDMAPS

JISC-funded: improve organisational data flow

"Provide the data you want, more simply and more securely, with clarity of ownership"

But description doesn't explain how...





Currently

Large institution

19,000 students, 5000 staff

Complex and diverse IT systems

SAP, CAMA, Active Directory, MOFS, S3P... etc.

Systems have grown dynamically

No overall roadmap/plan

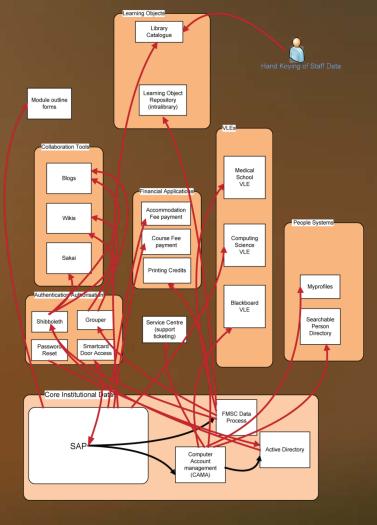
Diversity of legacy data sharing methods

Various file formats, frequencies, and levels of reliability Inefficiencies and institutional habits





Present Data Flow







Problems

Lack of standardised interfaces

Maintenance

Adding new systems and integrating into a cohesive whole

Unsustainable

Data reliability and integrity

Redundancies in data

Questions over responsibilities

Lack of data policies and procedures

Data Protection, Freedom of Information





Project Aims

Create information architecture

Extensible

Standards-based

Documented

Supported by policies and procedures for use

Build upon architecture with Web 2.0 mashups

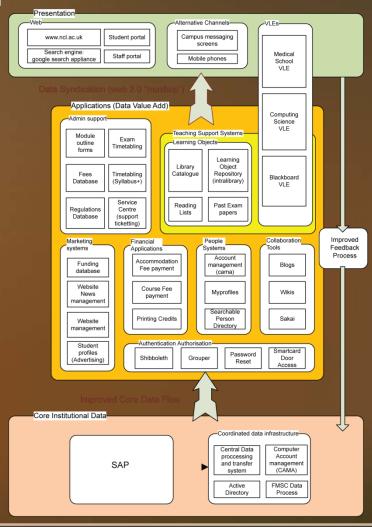
Integration of disparate systems

Add value through increased usefulness to users





Proposed Data Flow





Project Phases

Audit

Information architecture

Implementation

Pilot

Integration





Audit: Stakeholders & Systems

Stakeholders

Student Progress

HR

ISS

QUILT

Library

Medical Science

Computer Science

Examinations Office

... etc.

Systems

SAP

Active Directory

Print credits

CAMA

Exam papers

FMSC VLEs, Blackboard

NESS

S3P

... etc.



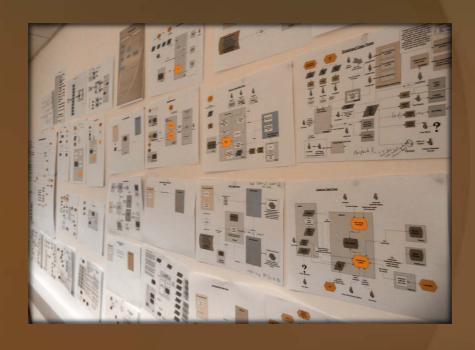


Audit: Data

Master Copy

Responsibility

Dependent systems and processes



The Wall of Data Doom...





Information Architecture

Broad Aims

Flexible and standards-based

Adaptable and extensible

Focus on reliability and quality of data

Specific Goals

Robust

Coherent

Future-proofed

Responsive

Traceability and auditing





What's next?

Project Stages

Implementation

Pilot

Integration

Feedback

Wide-ranging project

Are we missing anything?

See handouts



Case Studies

Jon Dowland
Paul Thompson





Case Study: Data Flows

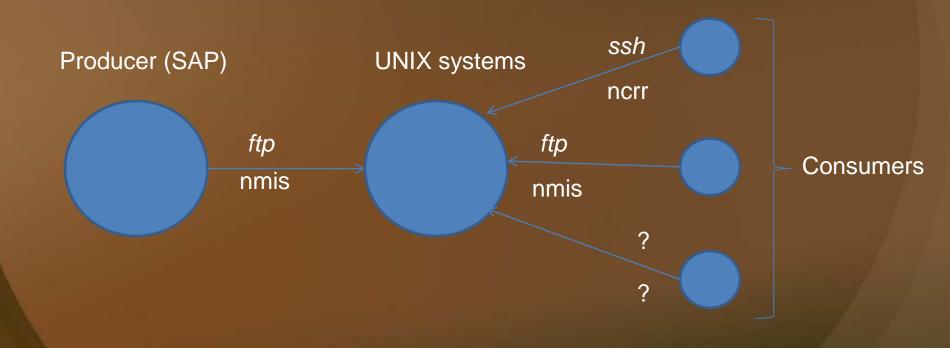
Jon Dowland





System Changes

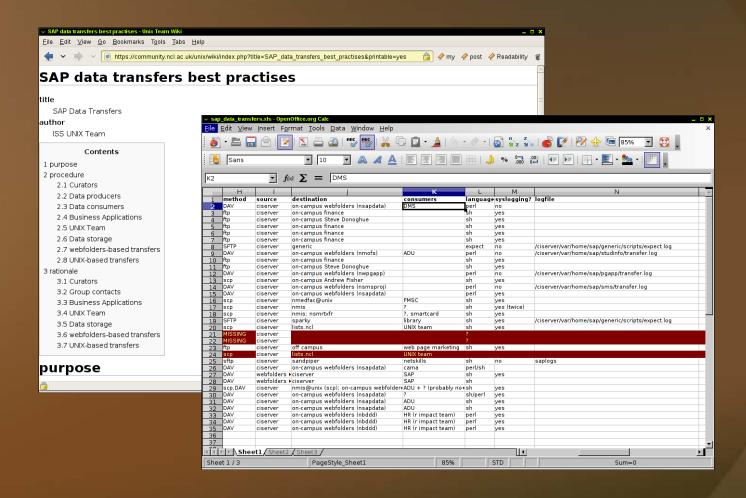
Decommissioning "FTP service" 2006-2008





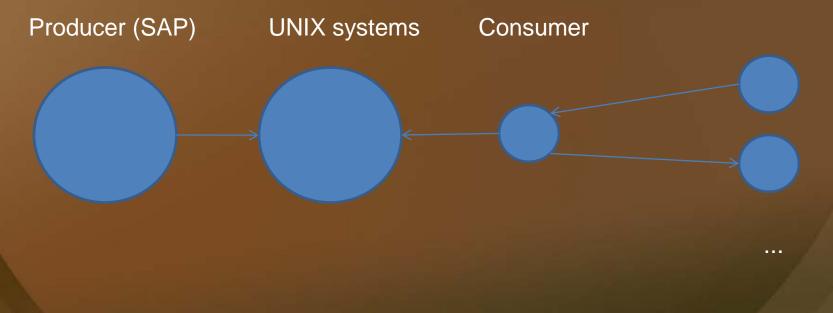


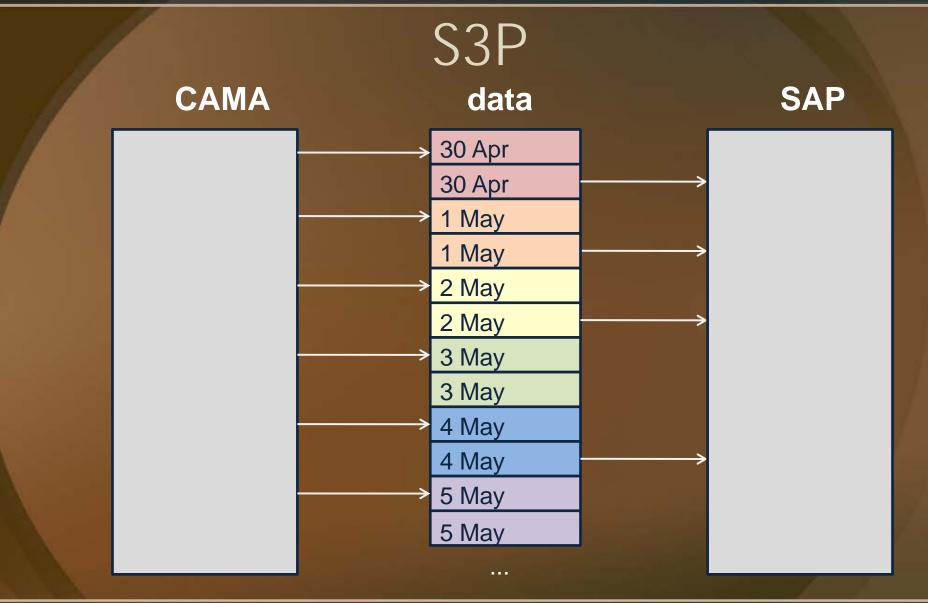
Interim Solution





Data Feed Re-use







Solutions

Data dictionary (what have we got, where)

Data transfer records (who is fetching what)

"Message queue" middleware



Case Study: Personalisation

Paul Thompson





Personalisation & Integration

Student homepage
Staff homepage
Blackboard & other VLEs

Systems present relevant information to users (and to each other)





Teaching Materials







News and Events



My News

School & Faculty Websites

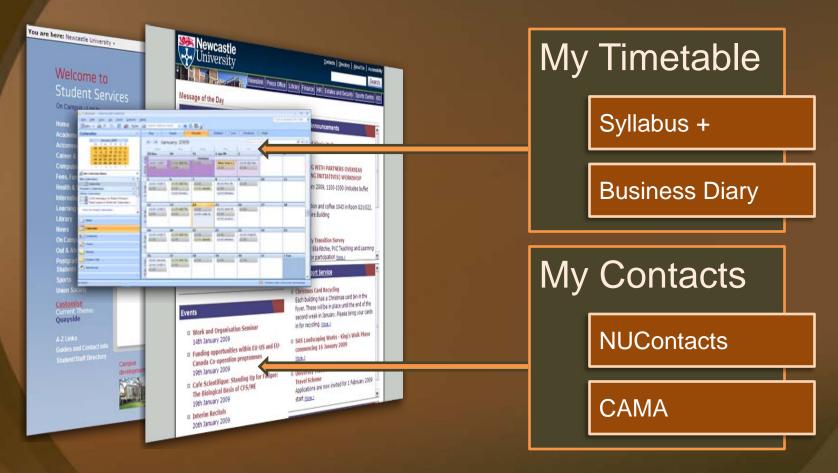
Central Services Websites

Blogs, Wikis & Repositories





Academic Information







Administrative Systems



My Queries

Student Services CRM

ISS Service Centre

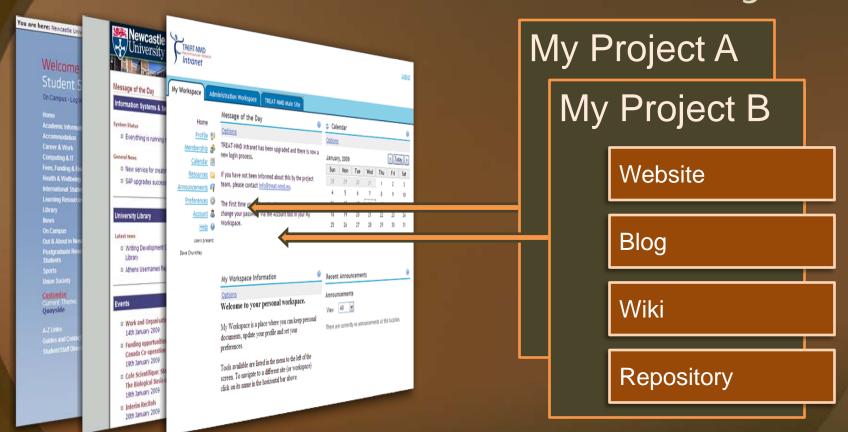
Other Helpdesk Software

Print Credits



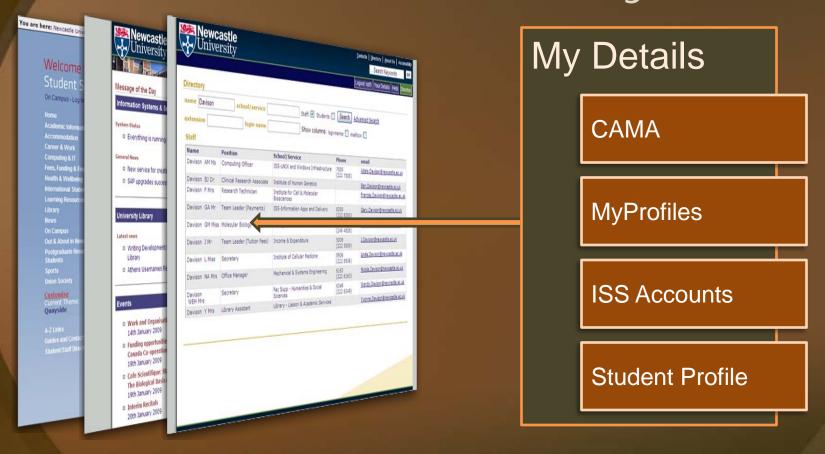


Research Community





Data Visibility







Q&A and Conclusion

Steve Williams

