Conference or Workshop Item:

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A Digital Library for the University of York

Introduction

The University of York is building a digital library to provide ingest, storage, discovery and access for multimedia content. The digital library has taken OAIS (reference model for an Open Archival Information System) as its high-level model and has selected Fedora as the underlying technical architecture.

The project is part-funded by JISC as "SAFIR". Further info: http://www.york.ac.uk/library/elibrary/digitallibrary.htm

Designated Community

Who is this for?

A mix of University of York staff or students, external content providers and external consumers.

Key considerations

- What do our users want?
- Do these needs differ across different subject 'communities'?
- How do we manage usability issues for different levels of expertise and different user expectations?
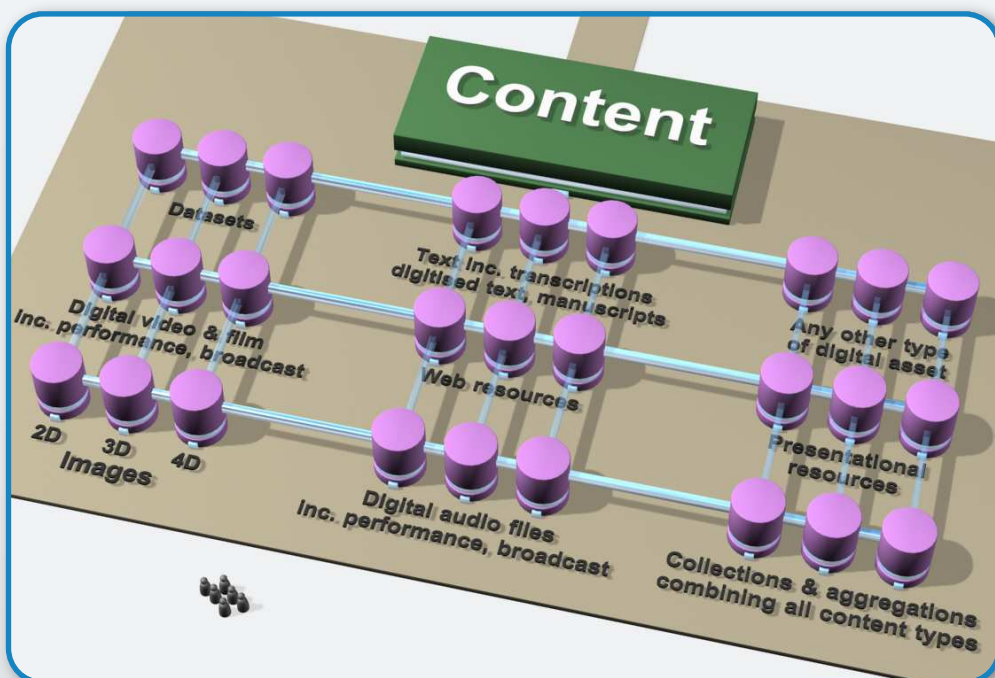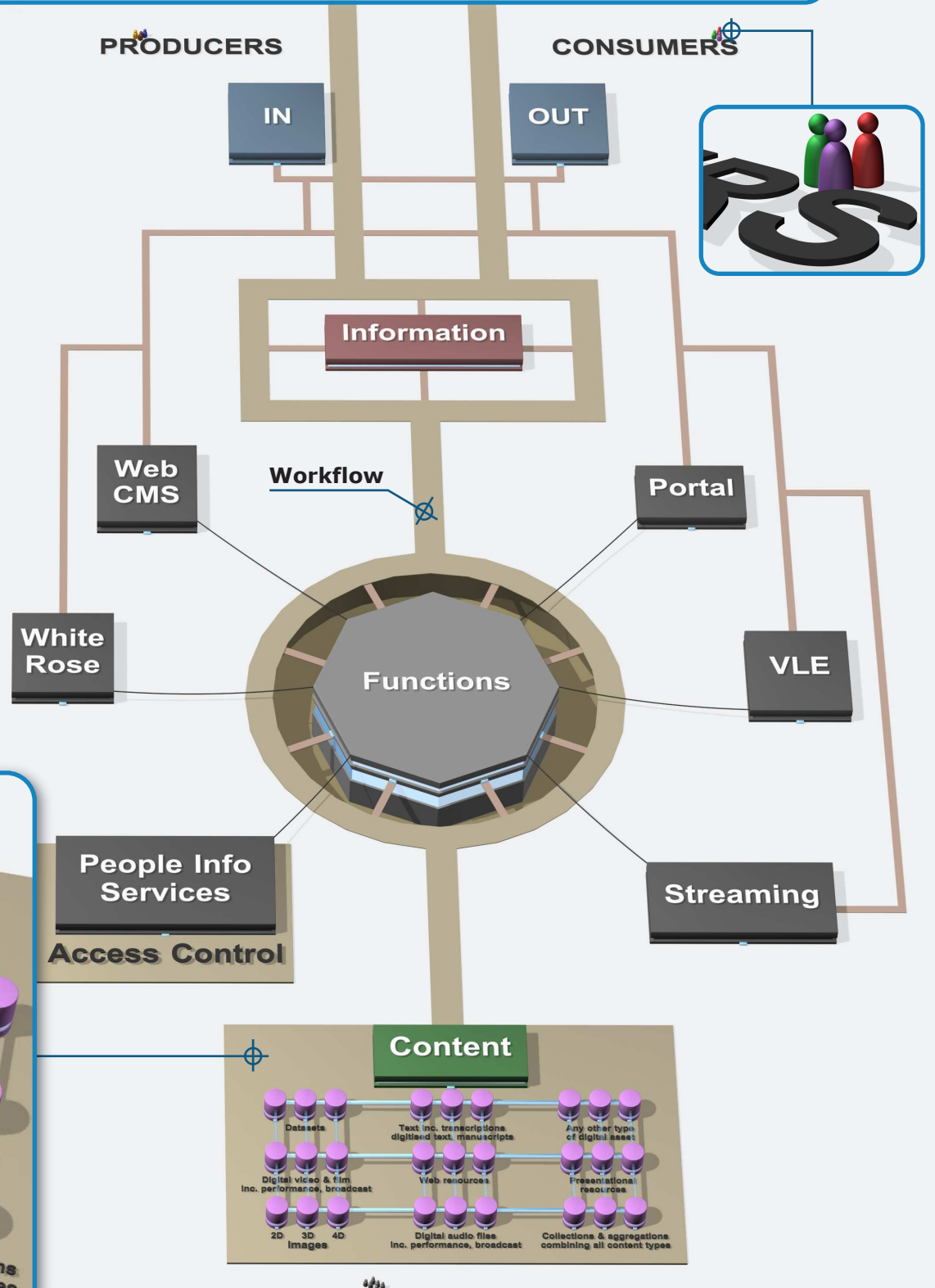
Information

What comes in, what gets stored and what flows out again?

Content and metadata

Key considerations

- What types of content?
- How is it packaged?
- How are collections and aggregations managed?
- How are the relationships between objects captured?
- How is the content described (and discoverable)?
- How is it identified, persistently?

PRODUCERS

IN

CONSUMERS

OUT

Information

Web CMS

Workflow

Portal

White Rose

Functions

VLE

People Info Services

Streaming

Access Control

Content

Datasets

Text inc. transcriptions, digitised text, manuscripts

Any other type of digital asset

Digital video & film inc. performance, broadcast

Web resources

2D 3D 4D Images

Digital audio files inc. performance, broadcast

Presentational resources

Collections & aggregations combining all content types

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Functions

What does the digital library have to do?

Key considerations

- **Ingest** – get content and metadata in
- **Access** – get content out
- **Data Management and Archival Storage** – store and facilitate discovery
- **Preservation Planning** – plan for the future
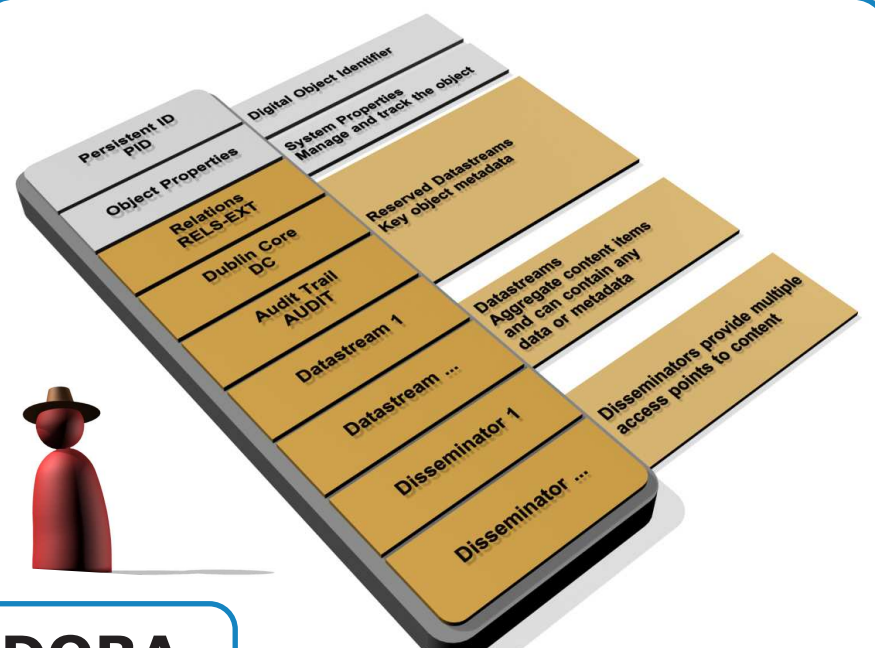- **Administration** – manage human and policy tasks within the system

Interoperability and Integration

With internal and external systems, such as the Yorkshare VLE, identity management systems, White Rose Research Online and external federated search services.

Key considerations

- What standards do we need to use?
- Do these systems have open APIs?
- What data can we share and re-use?

Sharing information to create joined-up services

FEDORA

Persistent ID PID

Digital Object Identifier

Object Properties

System Properties Manage and track the object

Relations RELS-EXT

Reserved Datastreams Key object metadata

Dublin Core DC

Audit Trail AUDIT

Datastreams Aggregate content items and can contain any data or metadata

Datastream 1

Datastream ...

Disseminators provide multiple access points to content

Disseminator 1

Disseminator ...

Flexible Extensible Digital Object Repository Architecture

The Fedora technical architecture can support the functions and information flow for York's Digital Library. Its object model answers our key considerations.

Poster by Julie Allinson & Wayne Britcliffe

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