UNIVERSITY OF WESTMINSTER

Haplo

The Repository is the CRIS, and the CRIS is the Repository

Jenny Evans, University of Westminster
evansje@westminster.ac.uk
@jennye

https://westminsterresearch.westminster.ac.uk

Repository/CRIS Workshop (II):
Practical Applications for Interoperability and/or Integration
Open Repositories 2019

About the University of Westminster

4 campuses centrally located in and around the London area

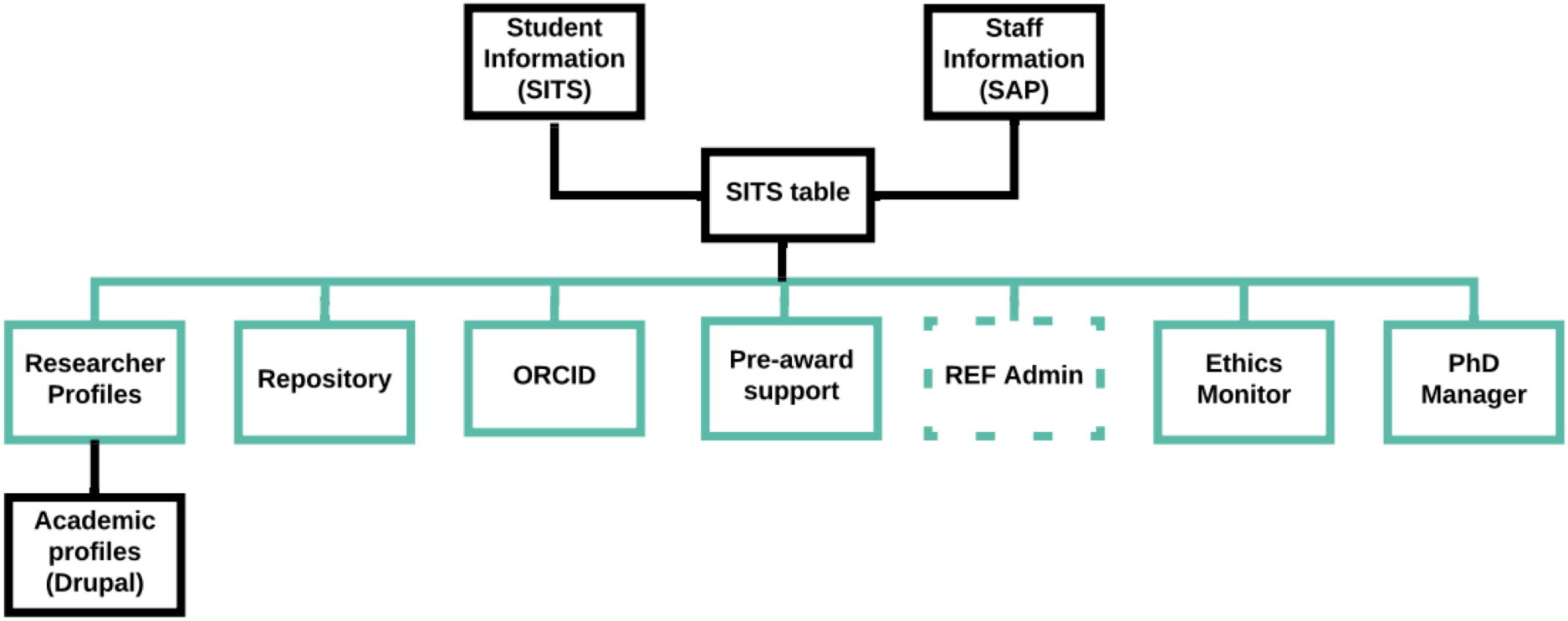
Over 19,000 students from 169 countries

866 academic teaching staff, 680 visiting staff and 928 support staff

World leading research in Art and Design and Media and Communications; Internationally excellent research in English, Architecture and the Built Environment and Allied Health; Excellence in Psychology and Neuroscience, Politics, Area Studies and Law (Research Excellence Framework, 2014)

A Virtual Research Environment (VRE)

Haplo Research Manager

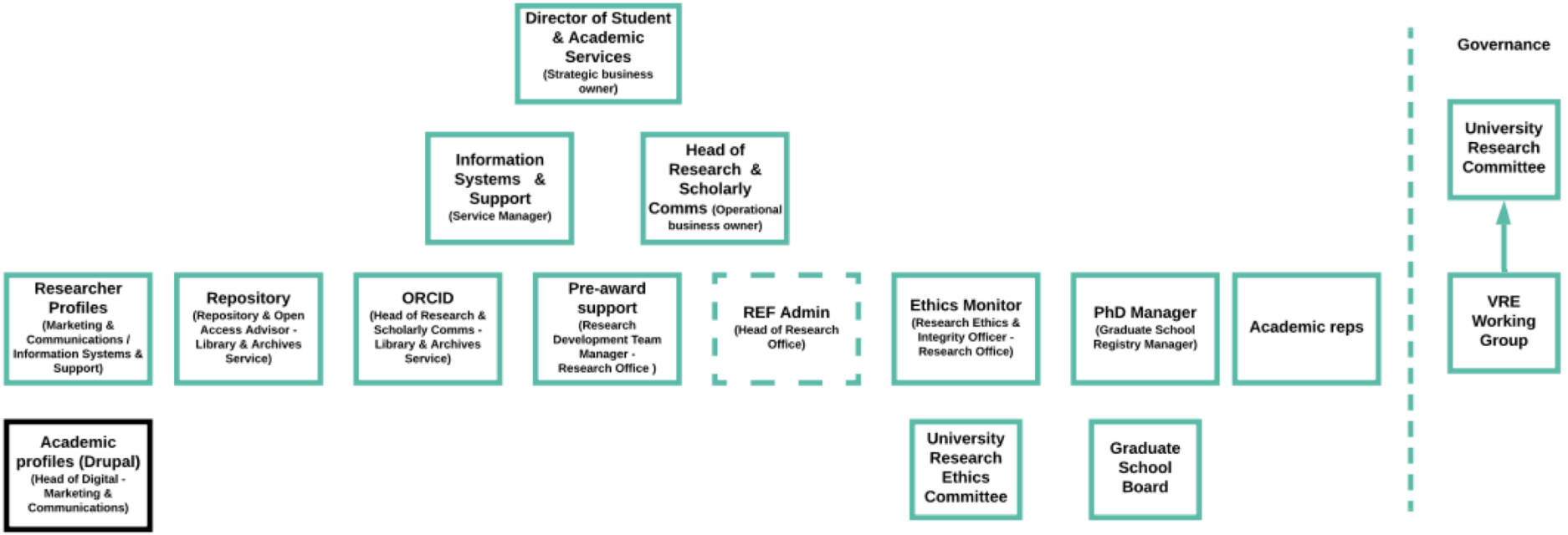


VRE

User interface

Stakeholder involvement

Roles and groups



The (long) road

…to Haplo Research Manager

EPrints hosted by UoW

EPrints hosted by CoSector

PhD Manager, Ethics Monitor, Researcher profiles, hybrid Haplo-EPrints

Drupal integration

ORCID integration

Upgrade to Haplo core platform

All Haplo Repository

Restructuring

Mediated deposit

Move to self- deposit

REF Admin

DOI Minting

Preservation via Jisc Open Research Hub

Implementation of PhD Examinations

Implementation of full Funding module

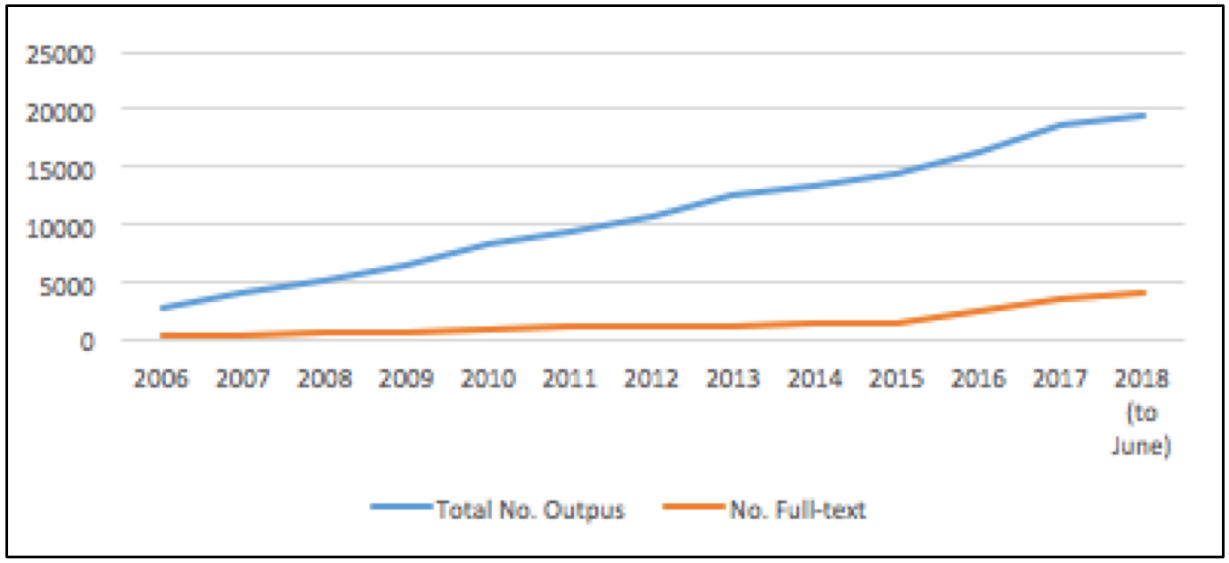
Hybrid repository solution

Haplo - EPrints

Noted increase in self-deposit (alongside introduction of the REF OA policy)

However…

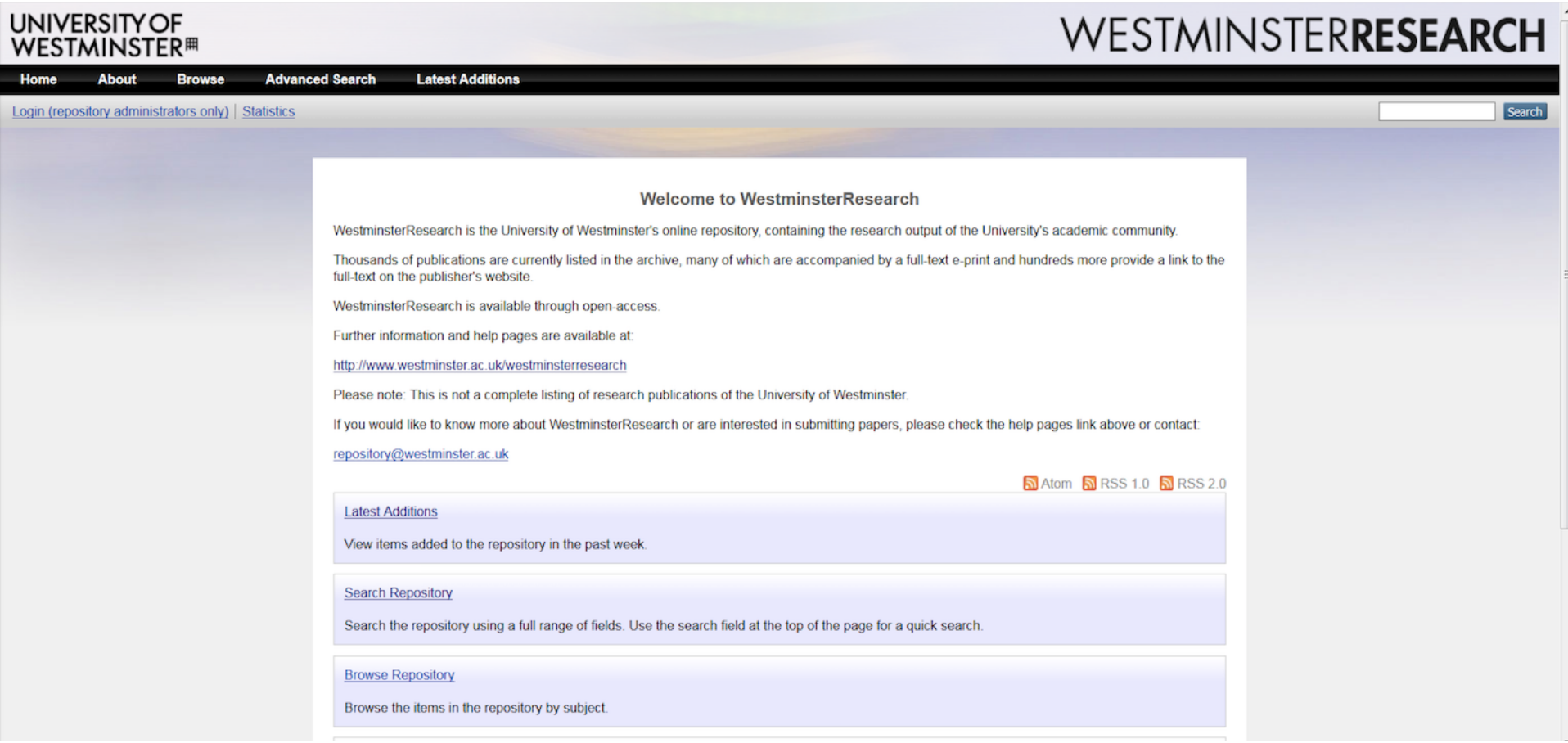
- Limited metadata model
- Dated public interface
- Single use case
- Unable to manage portfolios and data



Number of outputs included in WestminsterResearch (2006 – June 2018)

Public interface

Pre-migration



Building the business case

To move to an All Haplo repository

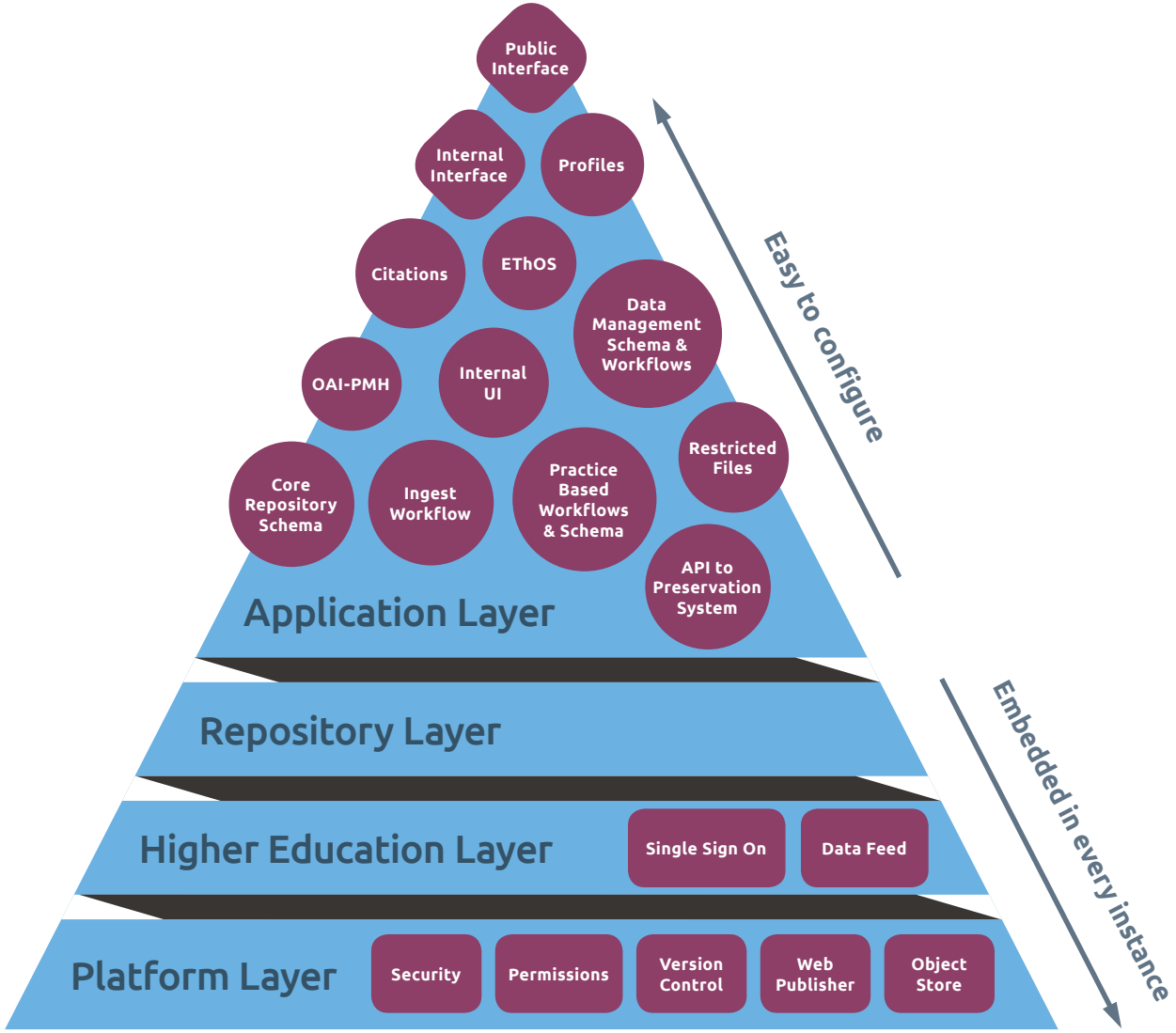
Perceived risk	Mitigation
Not being able to submit Research Excellence Framework (REF) return	Focus on standards & interoperability not software
Loss of access to EPrints community & developments	Growing Haplo user community
Security of supplier hosting sensitive data	Security built in at platform level
All our eggs in one basket?	Get out clause - able to export in EPrints compatible format

Risks of not moving? not capturing non-text outputs, costs involved in multiple subscriptions, unable to take advantage of EPrints developments nor develop hybrid solution

Building blocks for a CRIS & Repository

1. Data model
2. Workflows
3. Permissions
4. User Experience & Interface
5. Same underlying database as CRIS
6. Data shared between modules in CRIS, including Repository
7. Aggregate data from other systems

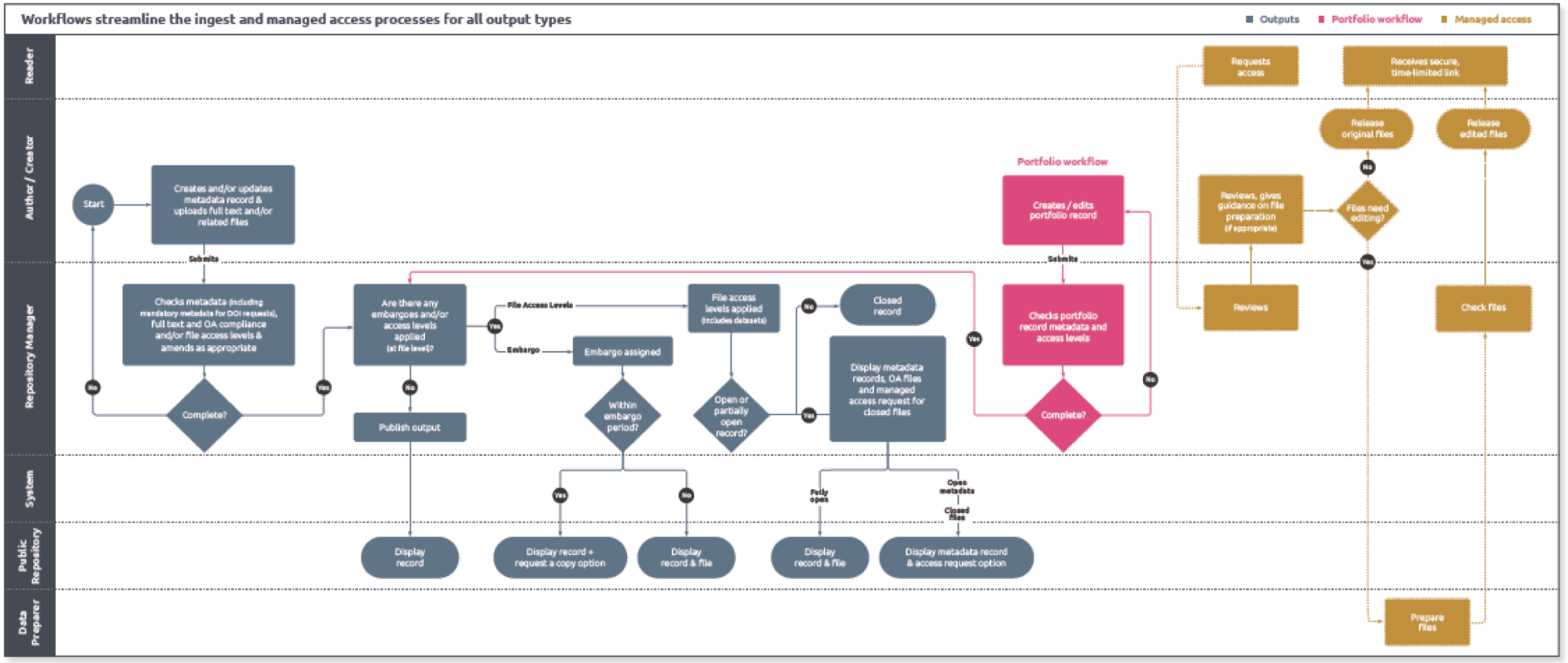
Repository architecture



Evans, J. & Renner, T. (2019). A single open source repository for every use case (Poster). *International Digital Curation Conference*, Melbourne, 4-6 February 2019.

Workflows

One workflow for all outputs



Data model

Pervasive multi-values

All attributes are multi-value, and using multi-values works with all Haplo features.

Qualifiers

All attributes can be qualified (like Fully Qualified Dublin Core).

Links as primary data type

Model every "noun" as a type, then link from records instead of using free text. E.g. Authors have their own record, and Outputs link to authors. Allows 'data once' (e.g. ORCID iD on Author goes on all outputs) and easy querying. Used as much as possible, e.g. Projects, Publishers, Funders, Journals, Licenses, Subject, Open Access, File access levels...

Data model
…continued

Hierarchy support for links

Enables taxonomies, organisational structure, etc.

Pluggable data types

Some data types need special logic and display. Plugins can define special types, eg DOI, Author Citation, ORCID iD, …

Computed attributes

Derive metadata from other records in the CRIS, using custom logic. E.g. Department is computed from department attribute of author at time of deposit.

Aliasing attributes

Use same underlying attribute for consistency and discoverability, but display and metadata crosswalk to appropriate name for the output. E.g. Author (text) aliases to Creator (non-text).

Building a repository

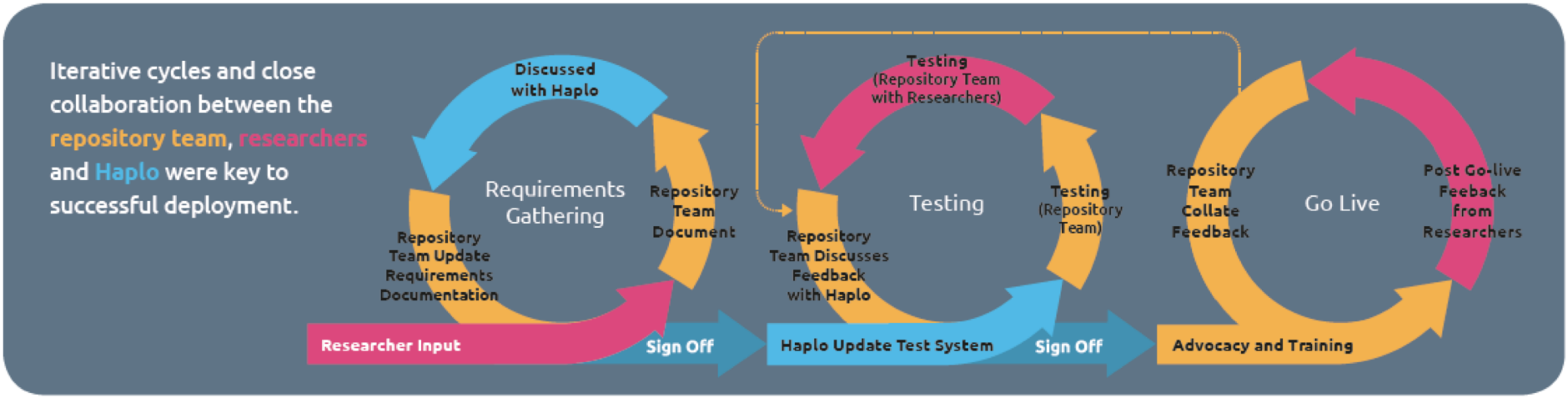
Requirements gathering, user testing, post-go live feedback

Our Repository and Open Access Advisor has over 10 years experience working with repositories

Focus on our practice-based arts research community

Involved colleagues at the two other universities who had signed up to build a Haplo repository

Wanted to build a standards-based repository that would be useful for the whole sector not just Westminster



Public interface

Post-migration

The online repository of research outputs from the University of Westminster's academic community.

Find researchers and their research...

Search

WestminsterResearch makes information about thousands of publications (many accompanied by the full text or a link to the full text on the publishers website) available through open access.

If you would like to know more about WestminsterResearch or are interested in submitting research outputs, please see: **Open Access: WestminsterResearch** or contact **repository@westminster.ac.uk**.

This repository supports OAI 2.0 with a base URL of
`https://westminsterresearch.westminster.ac.uk/oai2`

Repository Policies **Browse by year**

Latest additions

The Changing Geopolitics of Global Communication
Thussu, D.K. 2021. *The Changing Geopolitics of Global Communication*. London Routledge.

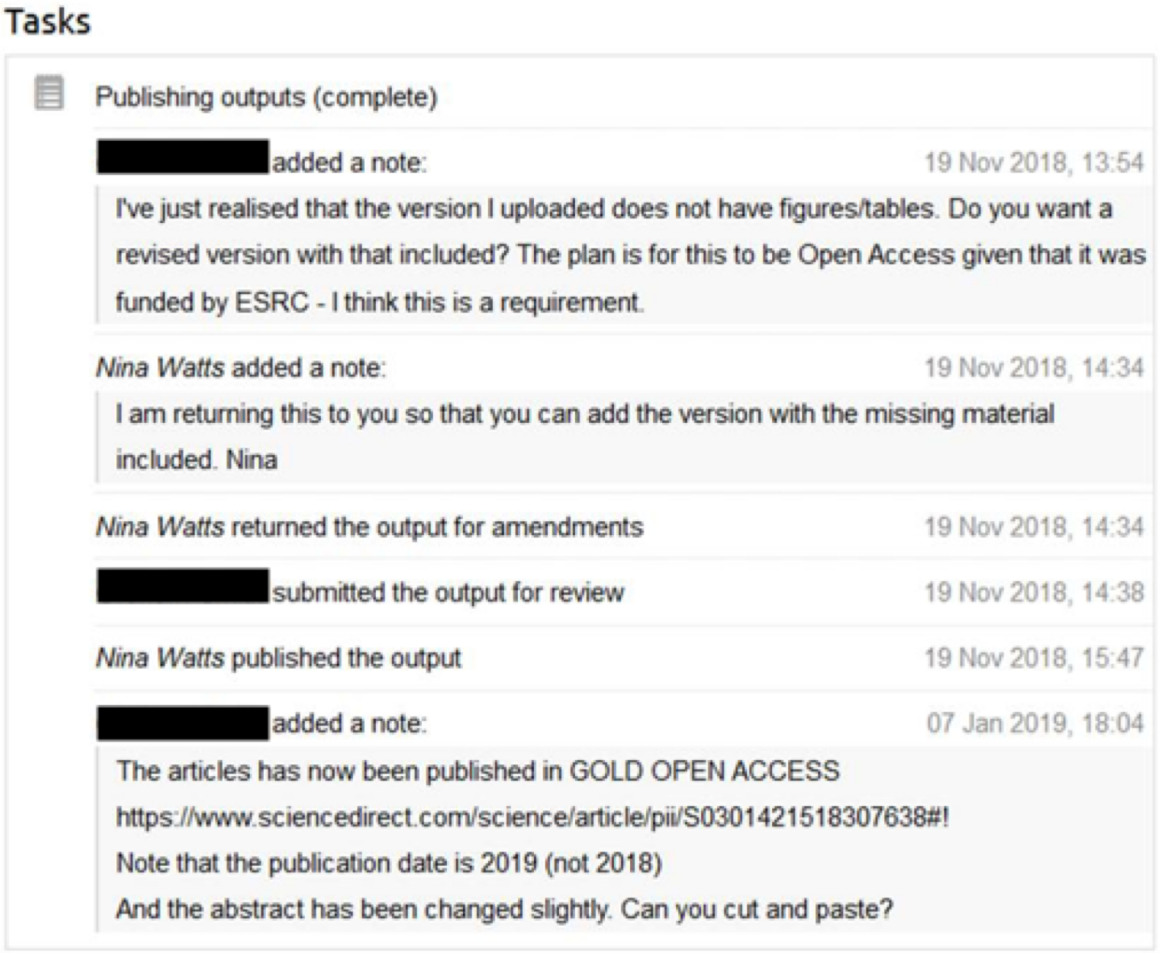
Architecture and its Imprint: Building, Concepts, Publication
Peckham, A. 2021. *Architecture and its Imprint: Building, Concepts, Publication*. London Routledge.

Human Security and International Law: the role of the United Nations
McClean, E. 2021. *Human Security and International Law: the role of the United Nations*. London Routledge.

Workers' Photography in the East End
Stevens, S. 2020. *Workers' Photography in the East End.*

Benefits

Record of any interaction between Author and Repository Manager

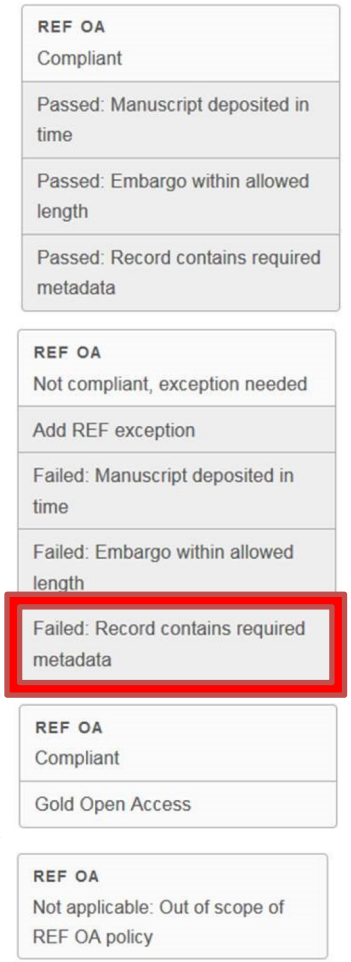


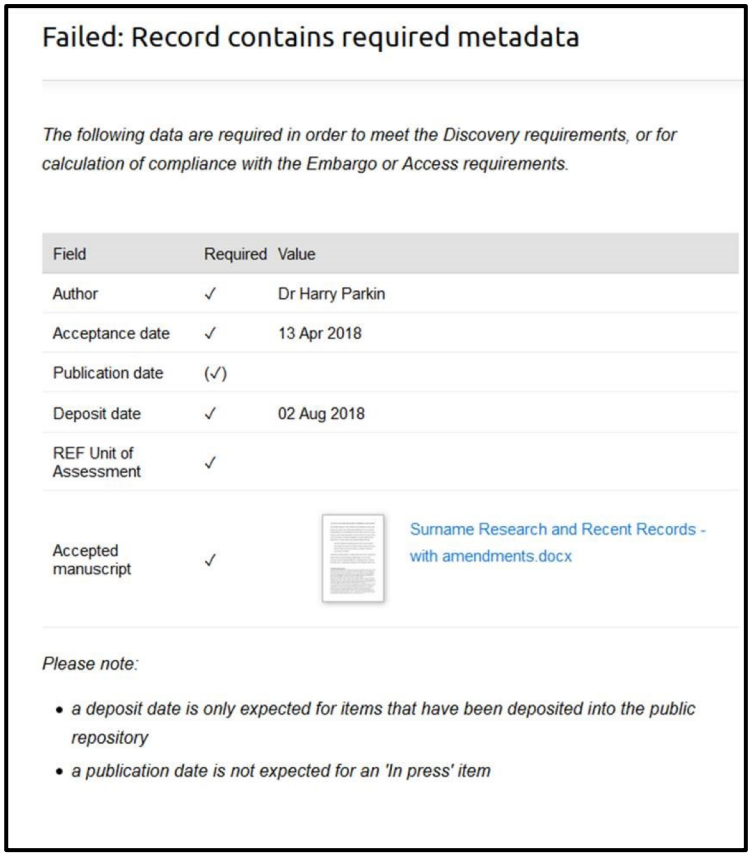
Benefits

UK example of pluggable reporting and quality control

UK Research Excellence Framework (REF) Open Access compliance is captured on each record.

Click through for details.





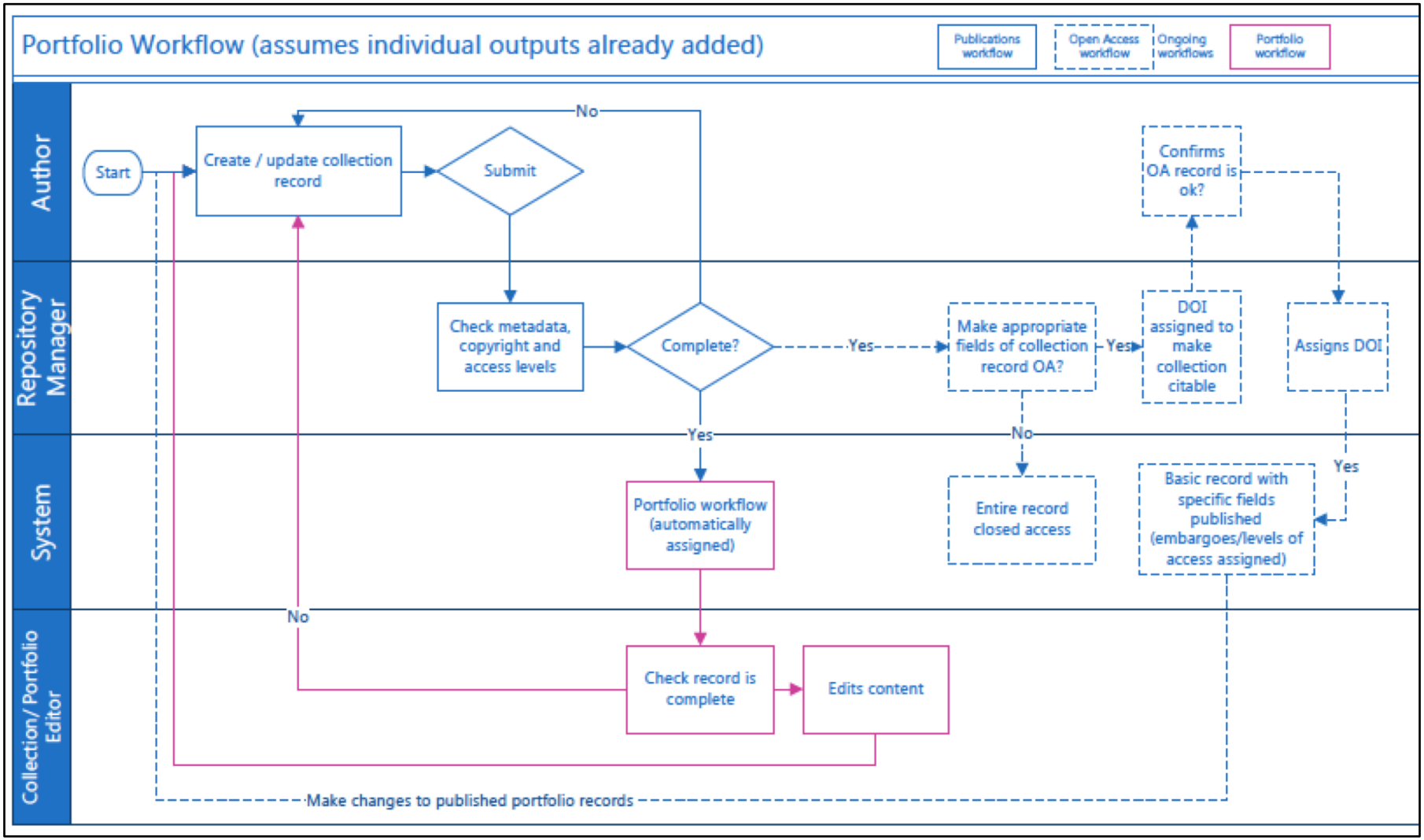
Practice-based arts research

Portfolios and non-text outputs: a case study

Brings together all of the benefits of the software

- One conversation – portfolios of outputs and their associated documentation
- Portfolio workflow (including Portfolio Editor role)
- REF template
- Non-text outputs metadata (Aliasing enables use of terms such as creator, description, contributor without impacting on other templates
- Integrated with REF Admin workflows (almost live)
- The flexible metadata model meant we were able to not only listen to but deliver on their requests

Collection creation (portfolio) workflow



All of the metadata

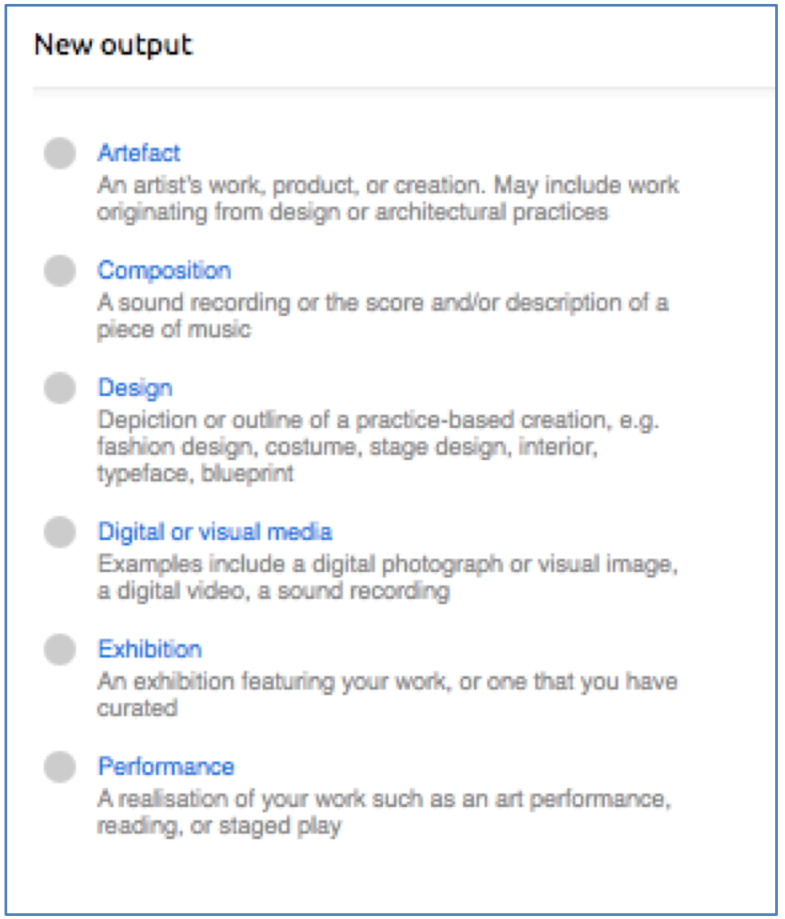
Non-text outputs

			Practice based output types						Related output types				
Stage in deposit process		Note: indicate which are compulsory fields by *	artDesign (described as 'practice based')	Design	Digital or visual media	Show/Exhibition	Performance	Artefact	Composition	Thesis	Collection / Portfolio	Open / Closed / Both	
	REF mapping			Design	Digital or visual media	Exhibition	Performance		Composition	N/A			
	Interoperability mapping based on Jisc RDSS data model			artDesign	image or movingImage	showExhibition	performance	artDesign	musicComposition	thesisDissertation	artDesign or datacite?		
	IRUS-UK		artDesign	artDesign	image or movingImage	show/Exhibition	performance	artDesign	Music/Musical Composition	Thesis or dissertation	ArtDesign or Other?		
1	Choose practice-based or text item	Offer to all? Can we make it more prominent for practice-based research areas?											Add text with definition of practice based
2	Select practice-based output type	artDesign, Design (what's the difference between these two?), Digital or visual media, Show/Exhibtion, Performance, Collection. Datacite mandatory field. (keep design)											
3	Title	Datacite mandatory field	x	x	x	x	x	x	x	x	x	Both	
4	Image credit?	This in Kaptur/Kultur for their carousel of images (used rather than text based landing page)	x	x	x	x	x	x	x	x	x	Both	

First request from researchers

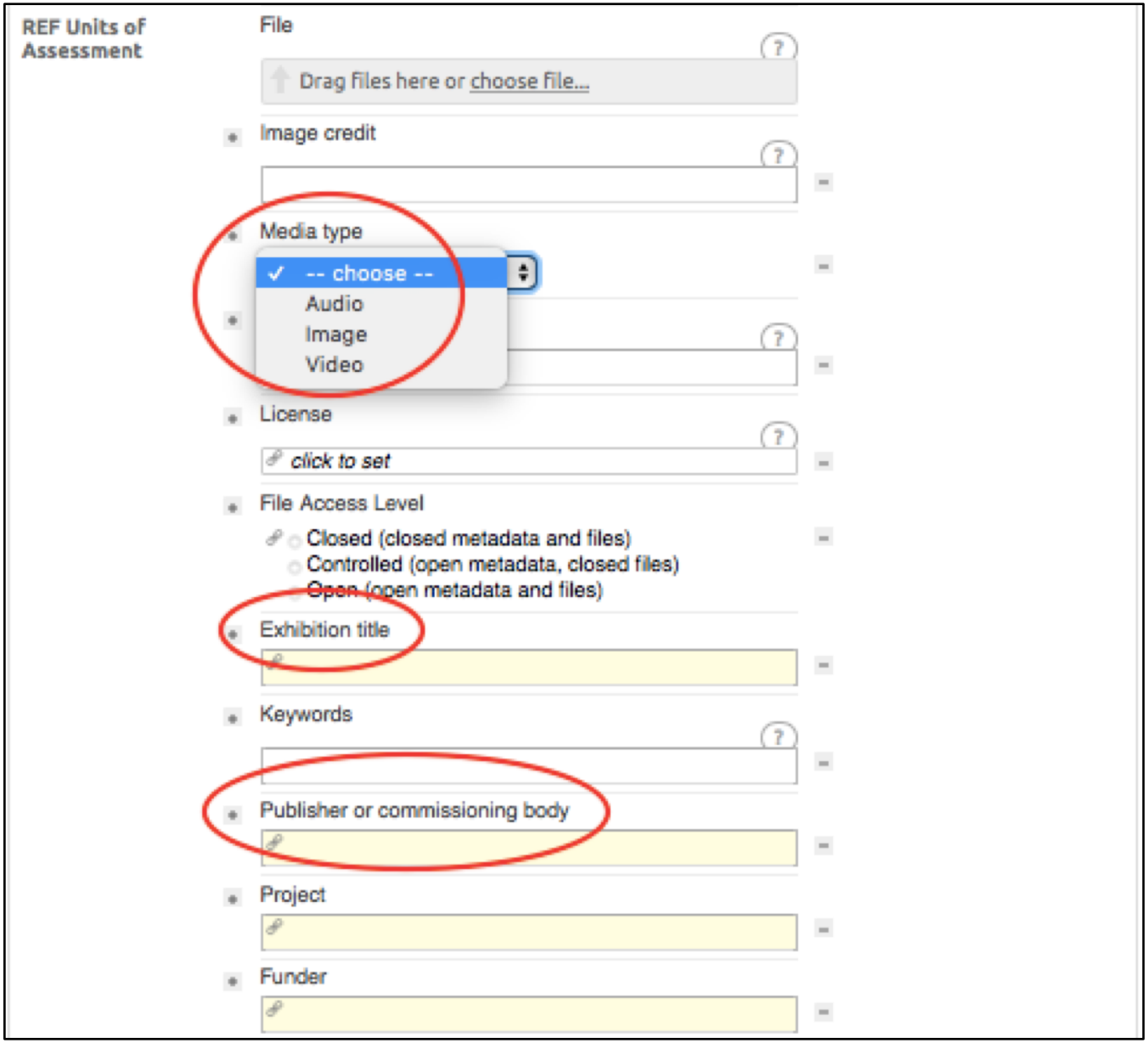
"We want to be able to select non-text outputs"

- Text based output
- Non-text based output
- Portfolio of outputs

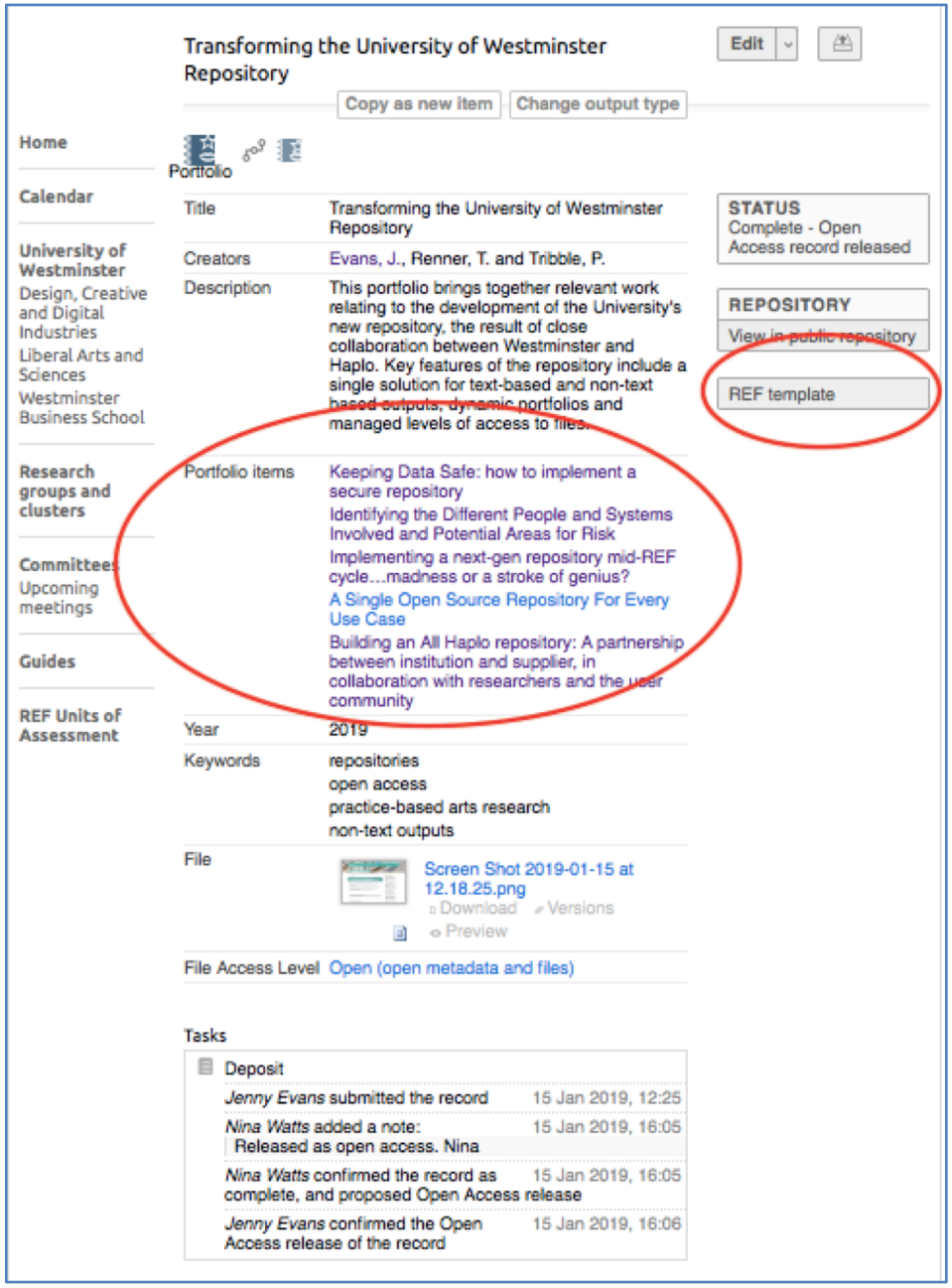


Non-text outputs

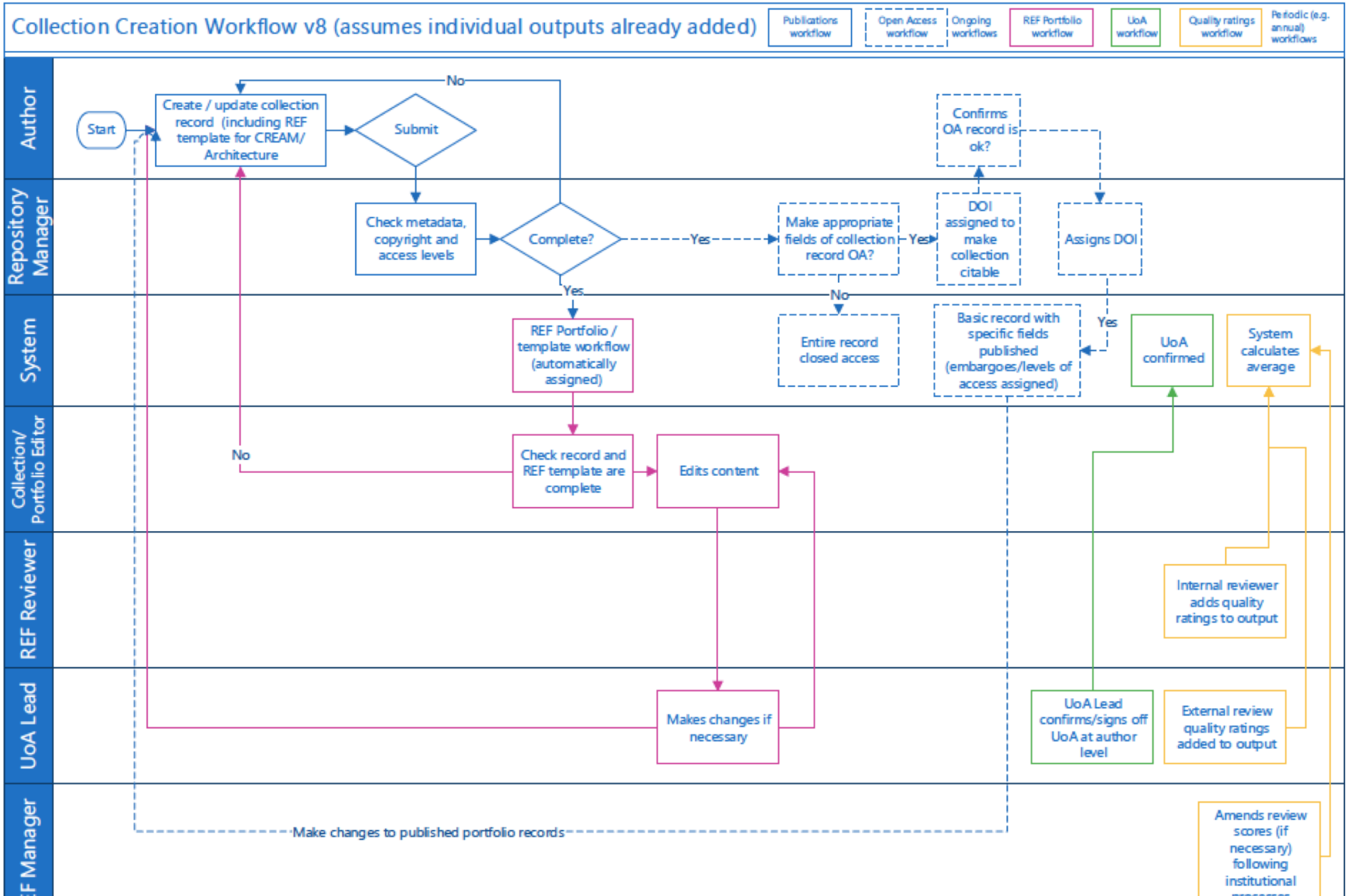
Exhibition output type


REF Units of Assessment
File
Drag files here or choose file...
Image credit
Media type
-- choose --
Audio
Image
Video
License
click to set
File Access Level
Closed (closed metadata and files)
Controlled (open metadata, closed files)
Open (open metadata and files)
Exhibition title
Keywords
Publisher or commissioning body
Project
Funder

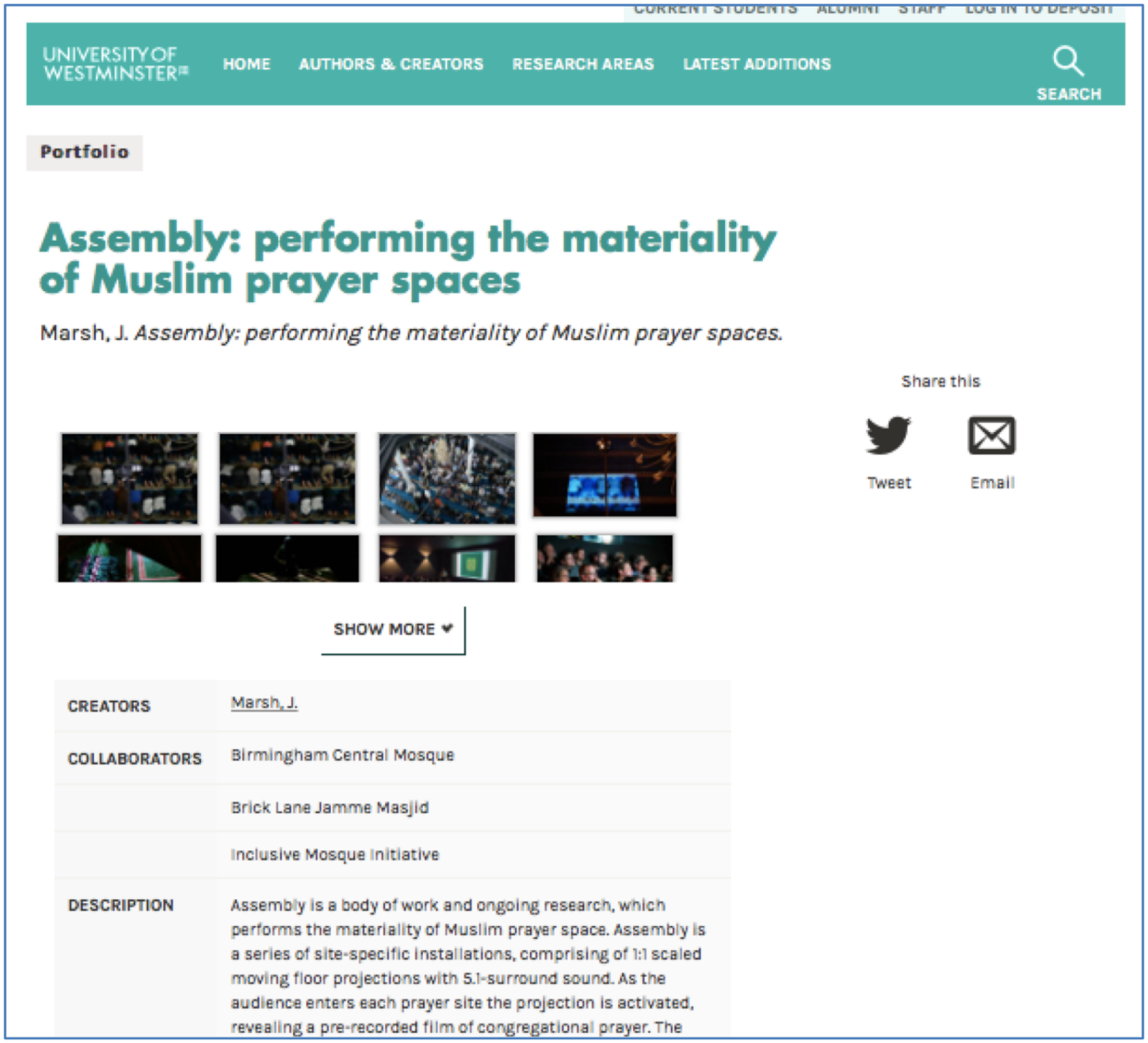
Portfolios


Transforming the University of Westminster Repository
Edit
Copy as new item
Change output type
Home
Calendar
University of Westminster
Design, Creative and Digital Industries
Liberal Arts and Sciences
Westminster Business School
Research groups and clusters
Committees
Upcoming meetings
Guides
REF Units of Assessment
Portfolio
Title
Transforming the University of Westminster Repository
Creators
Evans, J., Renner, T. and Tribble, P.
Description
This portfolio brings together relevant work relating to the development of the University's new repository, the result of close collaboration between Westminster and Haplo. Key features of the repository include a single solution for text-based and non-text based outputs, dynamic portfolios and managed levels of access to files.
Portfolio items
Keeping Data Safe: how to implement a secure repository
Identifying the Different People and Systems Involved and Potential Areas for Risk
Implementing a next-gen repository mid-REF cycle...madness or a stroke of genius?
A Single Open Source Repository For Every Use Case
Building an All Haplo repository: A partnership between institution and supplier, in collaboration with researchers and the user community
Year
2019
Keywords
repositories
open access
practice-based arts research
non-text outputs
File
Screen Shot 2019-01-15 at 12.18.25.png
Download
Versions
Preview
File Access Level
Open (open metadata and files)
Tasks
Deposit
Jenny Evans submitted the record
15 Jan 2019, 12:25
Nina Watts added a note: Released as open access. Nina
15 Jan 2019, 16:05
Nina Watts confirmed the record as complete, and proposed Open Access release
15 Jan 2019, 16:05
Jenny Evans confirmed the Open Access release of the record
15 Jan 2019, 16:06
STATUS
Complete - Open Access record released
REPOSITORY
View in public repository
REF template

Research Excellence Framework (REF)



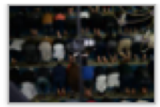
Portfolio of outputs

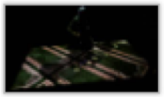


Exhibition

Jamaat (2018)

Marsh, J. 2018. *Jamaat (2018)*. Brick Lane Mosque





CREATORS	Marsh, J.
COLLABORATORS	Brick Lane Jamme Masjid community
	Inclusive Mosque Initiative
CINEMATOGRAPHER	Jonathan Fuller-Rowell
DESCRIPTION	Assembly is a site-specific research project made in collaboration with Brick Lane Jamme Masjid community, Jamaat (2018) (translated from Arabic meaning assembly) was made and exhibited respecting the religious and cultural rules of the mosque. The mechanical recording device was used as an anonymous eye; in a culturally sensitive environment such as the mosque, the objectivity of the machine allowed entry to a place that is forbidden for a female non-Muslim. The camera was not permitted to film in front of the people praying, nor could it show their faces. Subsequently, an

Explore this collection

Assembly: Artist Talk at Closeup Film Centre
Marsh, J. 2018. Assembly: Artist Talk at Closeup Film Centre. Julie Marsh.

Assembly Exhibition Catalogue
Marsh, J. 2018. Assembly Exhibition Catalogue. London Julie Marsh.

Salat (2016)
Marsh, J. 2016. Salat (2016) . Birmingham Central Mosque

Share this
Tweet Email

Other

Assembly: Artist Talk at Closeup Film Centre

Marsh, J. 2018. *Assembly: Artist Talk at Closeup Film Centre*. Julie Marsh.

TITLE	Assembly: Artist Talk at Closeup Film Centre
AUTHORS	Marsh, J.
ABSTRACT	Assembly, a site-specific performance and artist talk where Julie Marsh shared her latest site-specific artwork made in collaboration with Brick Lane Jamme Masjid community. Through integrity to site this research aims to avoid the fixed representation of social space by an open, genuine investigation. The artist talk was held at Close-up cinema, followed by a short walk to Brick Lane Jamme Masjid to experience the artwork. Speakers: Julie Marsh: Filmmaker & Researcher at CREAM, University of Westminster Naima Kahn: Trustee of the Inclusive Mosque Initiative Matt Webber: Social Anthropologist at University College London & SOAS

Explore this collection

Jamaat (2018)
Marsh, J. 2018. Jamaat (2018). Brick Lane Mosque

Assembly Exhibition Catalogue
Marsh, J. 2018. Assembly Exhibition Catalogue. London Julie Marsh.

Salat (2016)
Marsh, J. 2016. Salat (2016) . Birmingham Central Mosque

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Exhibition

Salat (2016)

Marsh, J. 2016. *Salat (2016)* . Birmingham Central Mosque

CREATORS	Marsh, J.
COLLABORATORS	Birmingham Central Mosque
DESCRIPTION	Salat (2016) is made and performed in collaboration with Birmingham Central Mosque congregation. The research proposes a new approach to site-specificity; a collaboration between community, artist, machine and site. A key concern is how the collaboration between artist and congregation can inform much of the decision-making around production. Bespoke mechanical rigs perform a dual function, firstly, to record site and secondly to playback the footage in syncronised time and space. Salat (2016) brings forth a precise relationship between body and space, helped by the fact that the people it addresses are coming to worship and therefore invested in the place. The congregation question how the projected image relates to the real space and how the experience of the real space is mediated by the image. Salat (2016) challenges ideas about what such happen in a sacred space as the worshippers physically re-oriented themselves to their own image, witnessing the projected image of their body move over their physical body in the site. It

Explore this collection

Jamaat (2018)
Marsh, J. 2018. Jamaat (2018). Brick Lane Mosque

Assembly: Artist Talk at Closeup Film Centre
Marsh, J. 2018. Assembly: Artist Talk at Closeup Film Centre. Julie Marsh.

Assembly Exhibition Catalogue
Marsh, J. 2018. Assembly Exhibition Catalogue. London Julie Marsh.

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Assembly Exhibition Catalogue

Marsh, J. 2018. *Assembly Exhibition Catalogue*. London Julie Marsh.

TITLE	Assembly Exhibition Catalogue
TYPE	Exhibition catalogue
AUTHORS	Marsh, J.
ABSTRACT	Assembly is a site-specific research project made and exhibited in Brick Lane Mosque. Jamaat (2018) (Arabic: جماعت) (meaning Assembly) comprises of two simultaneous film installations, one in the main prayer hall and one in the female prayer room. At the end of the residency, the Jamme Masjid invite the general public into both sites of worship, providing an opportunity for Muslims and non-Muslims to experience Jamaat prayer via the site-performance.
KEYWORDS	site-specific
	film installation
	performance
	documentary
	collaborative
	Art
	society
	interdisciplinary
YEAR	2018
PUBLISHER	Julie Marsh
FILE	Julie Marsh_ASSEMBLY.pdf

Explore this collection

Jamaat (2018)
Marsh, J. 2018. Jamaat (2018). Brick Lane Mosque

Assembly: Artist Talk at Closeup Film Centre
Marsh, J. 2018. Assembly: Artist Talk at Closeup Film Centre. Julie Marsh.

Salat (2016)
Marsh, J. 2016. Salat (2016) . Birmingham Central Mosque

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The Repository is the CRIS, and the CRIS is the Repository

Challenges

Diverse stakeholder group can get unwieldy

Different users may have different priorities

(Research Development Team want absolute control over 'Funder' whereas Repository wants the researcher to be able to add new Funders

Amount of feedback and trying to build that into updates

Time it takes to co-ordinate such a broad range of functions

Things outside our control e.g. recent website redevelopment project

Workflows are so intuitive if something is slightly wrong people notice

Access is so granular it isn't always easy to describe what one person can do – it depends on their role/s

The Repository is the CRIS, and the CRIS is the Repository

Benefits

One place for researchers to interact with research related information

Level of awareness amongst researchers

Engagement with the practice-based arts and architecture community

Has really developed connections between Professional Services teams and with the academic community

Linked data and single source of truth for everything e.g. information on the Author record such as Department is shared onto records in all areas of functionality and automatically updated when this is changed (e.g. ORCID iD is added to the Author record and immediately available in output records)

Security – access built in at platform level and at field level

Lower subscription and support costs – fewer integrations to maintain

Post go-live

Work continues

REF Admin module – currently in testing

Preservation via Jisc Open Research Hub (Archivematica/Arkivum)

Post-go live repository functionality

Upgrade to core platform for Funding and Graduate School Examinations

Thank you!

Jenny Evans, University of Westminster

evansje@westminster.ac.uk

@jennye

https://westminsterresearch.westminster.ac.uk/item/q9x2v/transforming-the-university-of-westminster-repository