

# Composing for the non-text infrastructure dance

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NISO Discourse Discussion for this session

<https://discourse.niso.org/t/composing-for-the-non-text-infrastructure-dance/586>

# In today's session

We identify challenges facing scholarly communities whose main method of communication is not the written article but some other form of output

How do we ensure that the rich metadata, functionality and narratives built into institutional and other tailored platforms can expose and transmit that information to the wider academy and global registries, enabling discovery, access and inquiry, without loss of detail

What we want you to think about:

- For non-textual outputs do we need to change (create??) technologies and or capture practice and build solutions around use cases. Do we understand enough about what we need?
- Where do the responsibilities and power structures lie between the various stakeholders for addressing complex issues affecting core infrastructure?
- How do we reach community agreements on taxonomies and other key exchange / interoperability mechanisms?

Definitions

Background

Case studies: University of Westminster and the British Library

Metadata and Persistent Identifiers

Practice Research Voices (PRVoices) Project

# What do we mean by other in the context of practice research?

- artefacts
- compositions
- designs
- digital or visual media
- exhibitions
- performance

# Definitions

Practice Research - Report 1: What is practice research? And Report 2: How can practice research be shared?

These reports were commissioned by the Practice Research Advisory Group <https://praguk.wordpress.com> and were funded by UKRI (Research England), Goldsmiths, University of London, The Royal Central School of Speech and Drama, University of London, University of the Arts London and the Culture Capital Exchange (TCCE)

## **Practice research**

“An umbrella term that describes all manners of research where practice is the significant method of research conveyed in a research output. This includes numerous discipline-specific formulations of practice research, which have distinct and unique balances of practice, research narrative and complementary methods within their projects.”

## **Research narrative**

“In a practice research output, a research narrative may be conjoined with, or embodied in, practice. A research narrative articulates the research enquiry that emerges in practice”

Bulley, James and Sahin, Ozden. *Practice Research - Report 1: What is practice research?* P1. London: PRAG-UK, 2021. <https://doi.org/10.23636/1347>.

# PRAG-UK report 2: How can practice research be shared?

Investigate the founding of an Open Library of Practice Research (OLPR) which would:

- harvest and host peer-reviewed practice research outputs;
- provide specific support for the novel formulations of practice research that will emerge in future.
- embody principles of Open Access.

## Recommendations

- Structuring practice research
- Item types for practice research
- Formats and metadata
- Peer review
- Storing and preserving PR outputs
- Sharing practice research

Bulley, James and Sahin, Ozden. *Practice Research - Report 2 : How can practice research be shared?* London: PRAG-UK, 2021.  
<https://doi.org/10.23636/1347>.

# Background

Repository Fringe, Edinburgh, June 2018

PRAG-UK Town Meeting, London, Jan 2019

Capturing practice research: improving visibility and searchability, London, March 2019

Open Repositories, Hamburg, June 2019

- One presentation, one panel session, 2 x 24x7 presentations and one poster all covering practice research

ORCID Regional Meeting March 2020

RDMF20: RDM and Data sharing/openness in the arts June 2020

Research Excellence Framework 2021 submission, March 2021

Publication of the PRAG-UK reports, July 2021

Jisc Digital Research Community Event on Practice Research, September 2021

UK Reproducibility Network Event, November 2021

aimos conference, November 2021

FORCE11, December 2021

# PRVoices

Started at PIDapalooza in January 2021 based on the work that University of Westminster, Haplo/Cayuse and Jisc had been doing to capture practice research more effectively

<https://zenodo.org/record/5517618>



# Practice made Practical. Reducing the OTHER of non-text

The screenshot shows a research report from the University of Westminster. The title is "Practice made Practical. Reducing the OTHER of non-text". The authors listed are Adam Wake-Hobbs (Jisc), Jenny Evans (University of Westminster), Rachel Kozlowski (British Library), and Taylor Haski (Cayuse). The report discusses the challenges of non-textual research outputs and provides a "Discoverability Landscape" with various standards and identifiers. It also includes a "Practice Research" section with bullet points and a diagram of research outputs.

**Practice Research**

- cross disciplinary
- documents process
- PRAG A/R report recommends a project item type
- intersectional - crosses multiple communities and goes beyond universities - is relevant to galleries, libraries, museums and archives
- may have multiple steps, files, permissions, rights, contextual images, access levels, may be dynamic

as such needs a community of practice to agree on what the form is so that this can be mapped to the discoverability landscape

**Discoverability Landscape:**  
Where does non-text / practice research fit? 'other' or select the 'best fit'?

**Persistent Identifiers:** ORCID, Crossref, RAID, DataCite

**Metadata standards:** COAR, resource types (Design, Image, Interactive resource, Other, Special, Musical Notation), CRT, CRdIT - Contributor Roles Taxonomy, rioxx, CORE, Discoverability, Google Scholar

<https://zenodo.org/record/5767095#.YfHAsy-l1hE>



**Online Conference  
December 7-9, 2021**





# University of Westminster

Worked with Haplo (now a division of Cayuse) to build a **single** open source (FAIR) repository to capture all research enabled by the flexible technology - this mattered!

Close collaboration with our arts and architecture practice research community; informed by previous/existing work

Institutional policy landscape recognises this research (even if the external policy landscape does not)

## Challenges

- PID/metadata landscape
- IP/copyright/licensing issues

We discovered the scholarly communications landscape was born of scientific communication and is quite un-FAIR to this research and not very inclusive!

Mykaell Riley

Bass Culture

DOI: <https://doi.org/10.34737/qqvqz>

Key facts

Project framework: context, research questions, summary of research insights

Project narrative

Research insights

Further dissemination and recognition

Supplementary material

Metadata record

## Project narrative

The project was a response to the lack of recognition of the artistic contribution to the story of British popular music since the 1960s within the UK cultural establishment and academia – and the issues of identity, heritage and sense of belonging that have resulted within BME communities.

The approach I adopted, working closely with other members of the AHRC team, including Professor Les Back, Jacqueline Springer, Dr Caspar Merriam, Janet Brivante and Dr Chris Christodoulou, ensured that our key strategy to share knowledge and integrate the community with the academic research was realised through a series of key public events, meetings and seminars. Each member of the team developed their own inquiries, while I managed and coordinated the group, spanning our use of academic methodologies with the need to ensure public and community engagement.

In seeking to create a narrative through research outputs – in the form of an exhibition, a documentary film and an online resource – as a first step to addressing the balance, I had plenty of “raw material” to draw on, namely the musical talent embedded in three generations of Britons of African-Caribbean origin. The challenge was to locate the musicians, recording artists, singers, MCs and record producers I wanted and involve them in the aims and objectives of the research leading to the film and exhibition.

In telling their story, however, I had to fight their fears of cultural appropriation, while challenging the continued erosion of their contributions to British popular music history. My position as an established artist – 12 years with the reggae band Soul Pulse, then a successful record producer working with Eshé, Soul's Soul, Jammequai, Inner City – helped me access hard-to-reach musicians, industry experts and community-based



# Practice based arts research

## Flexible templates

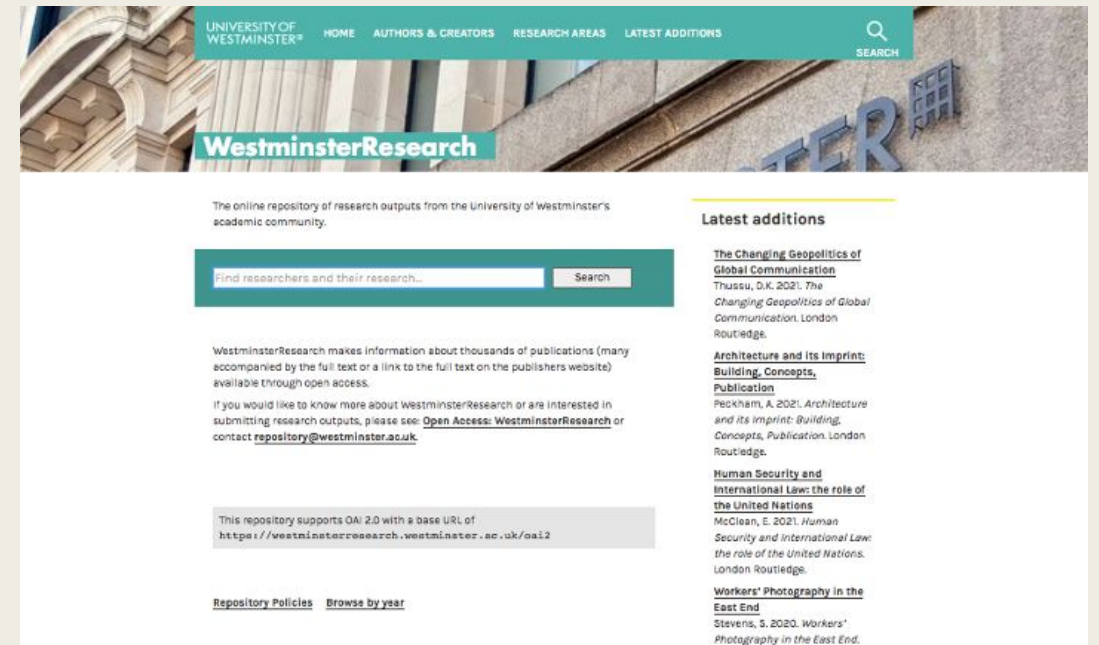
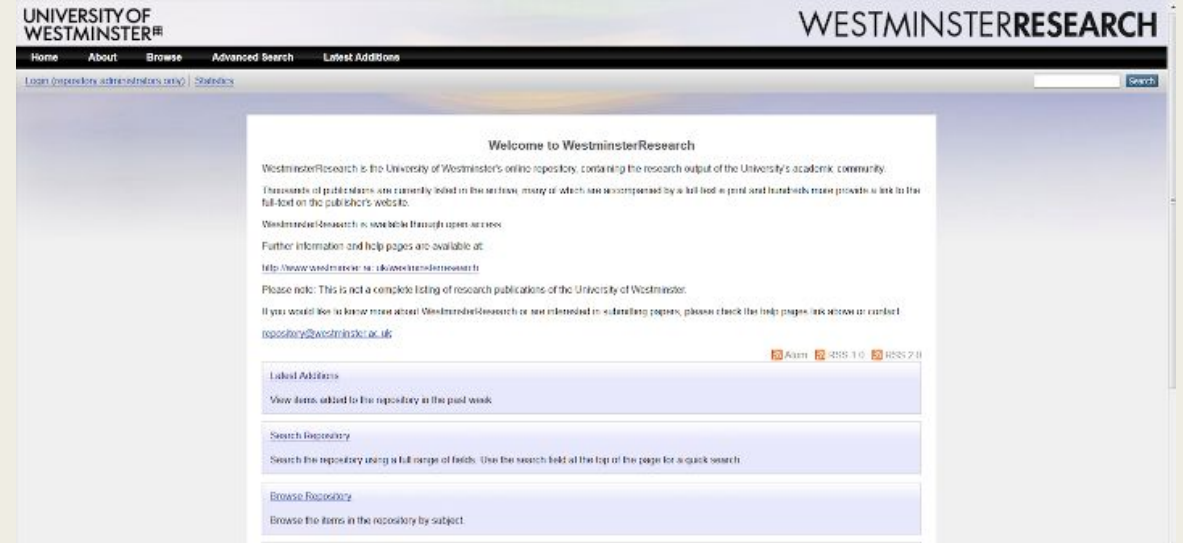
- updated Item type
- New exhibition type
- Dynamic portfolios (collections)

## Vocabulary reflects how researchers see their research

## Could improve the display of this research

## Accessibility and Search Engine Optimisation built into repository web pages

## Iterative development cycle



# University of Westminster Templates

Multiple files with different rights, licensing and level of access

Creators and collaborators recognised

Media type a field not an output type

**New Exhibition**

Please complete this form as fully as possible. Fields may be left blank for information that is not applicable to this portfolio of outputs. The University repository will be alerted to new or edited portfolios of outputs.

\* Title of work

\* Creators

\* Collaborators

\* Description

Date

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

**Key Facts** Project Framework Project Narrative Research Insights  
Further Dissemination and Recognition Supplementary Material

**Outline**

p | 1 | 2 | 3 | 4 | • [B](#) / [x2](#) [x2](#) [link](#)

Relevant images

Drag files here or [choose file...](#)

**Caption**

**Image credit**

**License**

**Open/closed access \***

-- select --

**Key Facts** Project Framework Project Narrative Research Insights  
Further Dissemination and Recognition Supplementary Material

Exhibition and enhanced portfolio templates

# British Library

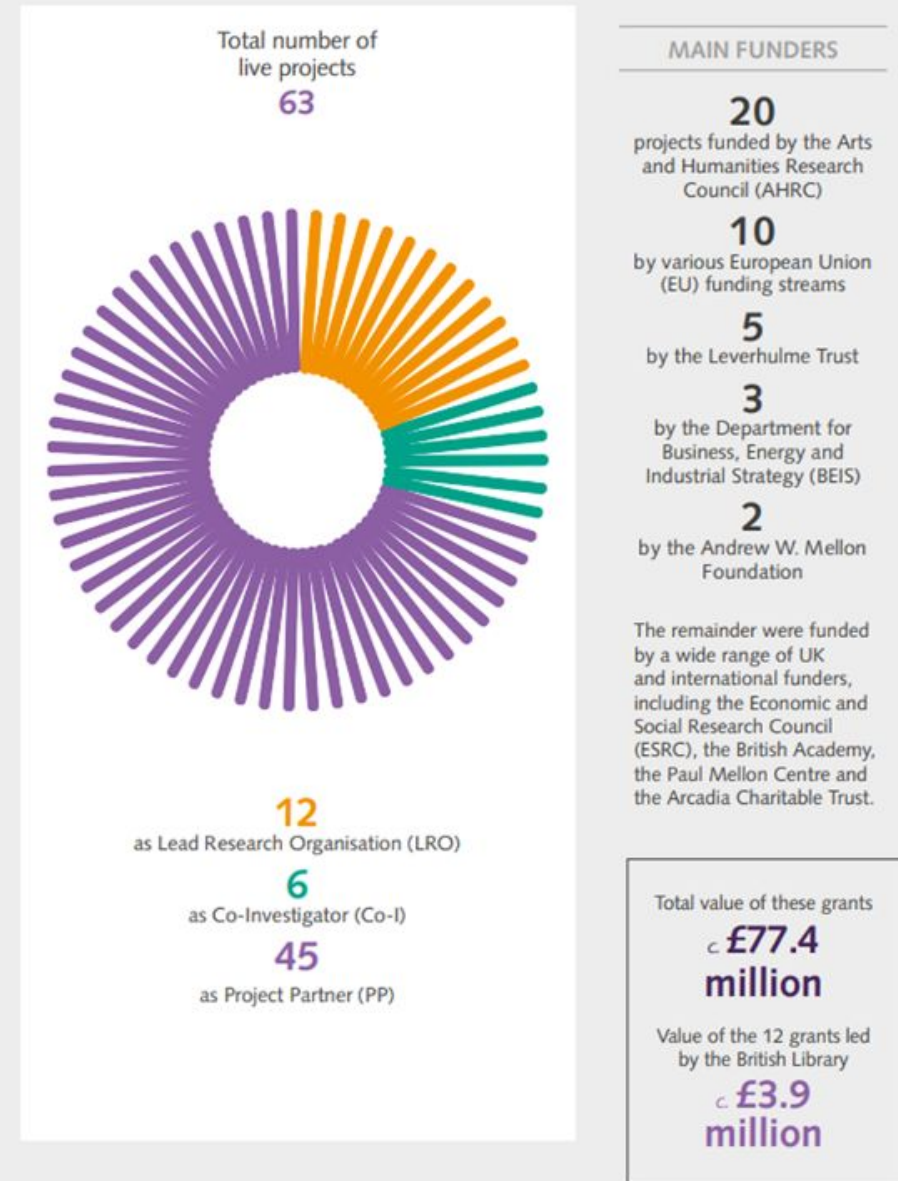
Building a shared repository service to support the GLAM sector

Leads DataCite consortium in the UK

Practice-based research and evidence-based practice feed into BAU:

- Exhibitions
- Collections-based research
- Assess & interpret new collection items
- Preservation & conservation
- Big data
- Infrastructure

## Research projects overview





# GLAM research

Working with Galleries, Museums,  
Botanic Gardens, Archaeology

Shared repository already includes  
practice-based outputs:

- Exhibitions
- Podcasts
- Portfolio activities
- Digital resources

## Shared Research Repository

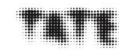
for cultural and heritage organisations

Welcome to our shared repository where you'll find research produced by staff of the British Library and our current partner organisations: the British Museum, MOLA (Museum of London Archaeology), National Museums Scotland, Royal Botanic Gardens Kew, and Tate.

Visit one repository at a time, or use the search box to search and explore publications, reports, datasets and papers from across our combined content.



Browse our partner repositories:



## Metadata

Resource Type	Exhibition
Creator	National Museums Scotland ( <a href="#">isni</a> )
Contributor	Watt, Patrick (Curator)
Date published	2019
Institution	National Museums Scotland
Organisational unit	Scottish History and Archaeology
Event location	Exhibition Gallery 1, National Museum of Scotland
Official URL	<a href="https://www.nms.ac.uk/exhibitions-events/exhibitions/national-museum-of-scotland/wild-and-majestic/">https://www.nms.ac.uk/exhibitions-events/exhibitions/national-museum-of-scotland/wild-and-majestic/</a>
Related URL	<a href="https://www.nms.ac.uk/collections-research/collections-departments/scottish-history-and-archaeology/#mch">https://www.nms.ac.uk/collections-research/collections-departments/scottish-history-and-archaeology/#mch</a>
Licence	CC BY-NC-SA 4.0 Attribution-NonCommercial-ShareAlike
Rights statement	In Copyright - Educational Use Permitted
Related identifier	<b>identifier:</b> 9781910682241 <b>type:</b> ISBN <b>relation:</b> Is Supplement To
Keyword	Art Highland dress Literature Military dress

# Informing practice

- Practice research informs vital professional practice across the sector - replication and reproducibility are still important
- At the same time, practice professionals can create work and outputs that support and inform research, as long as we can support them in making their insights available



TOP: Sewing of hair lock 67\* from [‘Conservation of the Granville Archive papers’](#)

BOTTOM LEFT: Bara carrying out repairs to a manuscript from [‘Conservation for Digitisation: A collaboration with the Palestinian Museum’](#)

BOTTOM RIGHT: Aqueous treatment of poor condition IGI on paper, in the BL’s conservation studio. [‘Iron gall ink on paper: Saving the words that eat themselves’](#)

# BL platform limitations

- In developing our repository platform, we've followed existing approaches and standards
- There are decisions we've made because they are familiar within the sector, but they could be improved for related practice outputs

<https://bl.iro.bl.uk/work/a1329e7a-ef75-45e6-970b-a4fda0995863>

## Karl and Eleanor Marx – Life in the Reading Room (Exhibition label text)

Public Deposited

Siclovan, Diana (ORCID iD)

2019

### Abstract

2018 marked the birthday of political philosopher Karl Marx. In connection with the anniversary, the British Library Treasures Gallery display 'Karl and Eleanor – Life in the Reading Room' (1 May to 5 August 2019) explored the special relationship that Karl Marx and his youngest daughter, political activist Eleanor Marx, had with the Reading Room of the British Museum, one of the predecessor institutions of the British Library. Items on display included a rare first edition of the Communist Manifesto, letters by Karl, Eleanor and other members of the Marx family, as well as first editions of Das Kapital that Marx himself had gifted to the British Museum. The exhibition was accompanied by a programme of related events at the British Library. This file holds the object label text that provided context and descriptions of the items on display.

Citations: ▾



### Items:

THUMBNAIL	TITLE	DATE UPLOADED	VISIBILITY	FILE SIZE	ACTIONS
	Marx_1.jpg	2019-09-19	Public	250 KB	Select an action ▾
	Karl_and_Eleanor_Marx_Board_text.pdf	2019-09-19	Public	510 KB	Select an action ▾
	Karl_and_Eleanor_Marx_Label_Texts.docx	2019-07-01	Public	660 KB	Select an action ▾

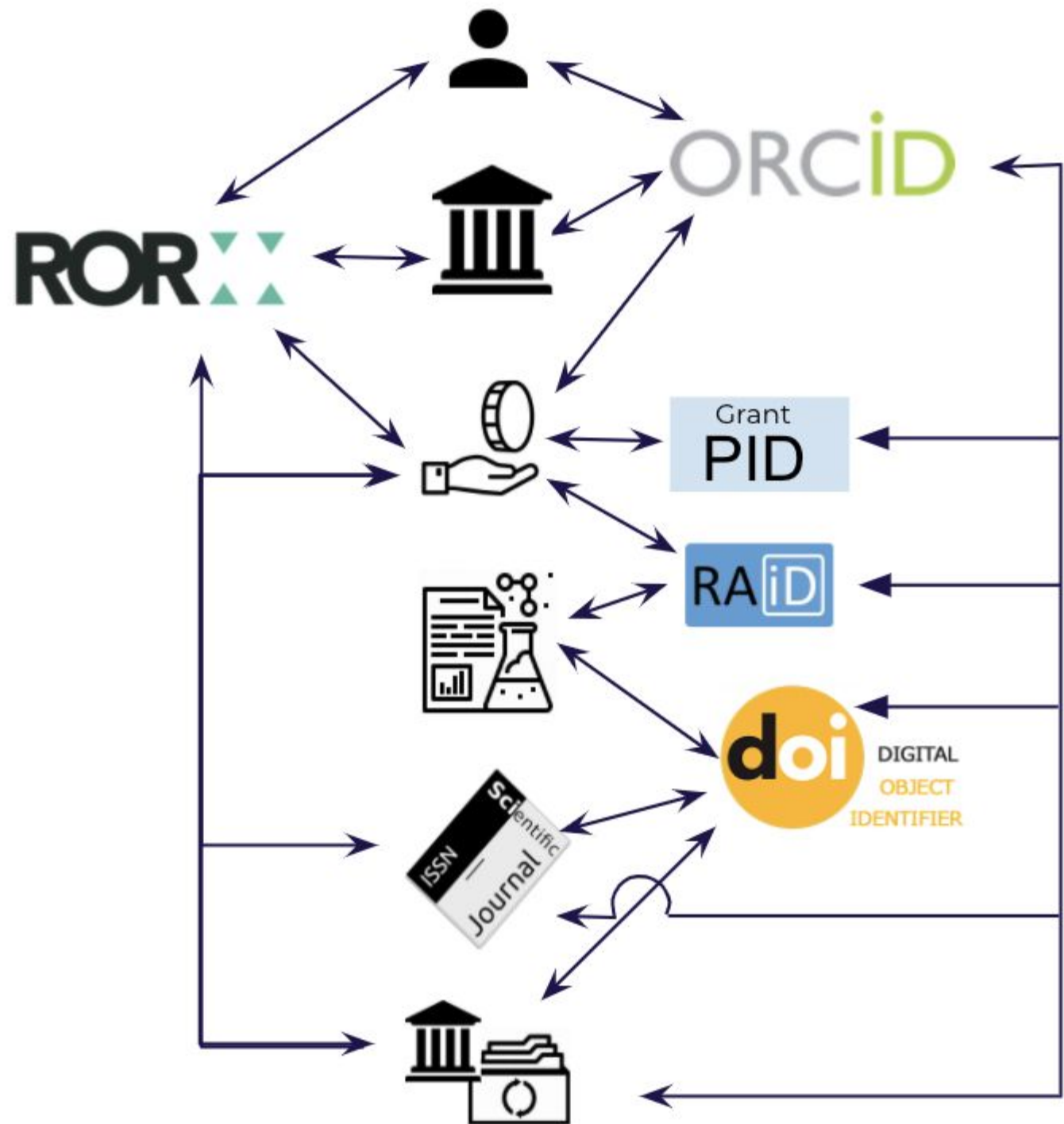
# Jisc

Working on practice and non text as part of the wider scholarly landscape

Produced the PIDs cost benefit analysis - connections and reuse save time and improve research

<https://zenodo.org/record/4772627>

Mission to support the critical infrastructure underpinning research





# How do we work to change existing open standards...rather than creating new and/or proprietary ones?

Metadata and Persistent Identifier landscape grounded in text based, STEM focused research

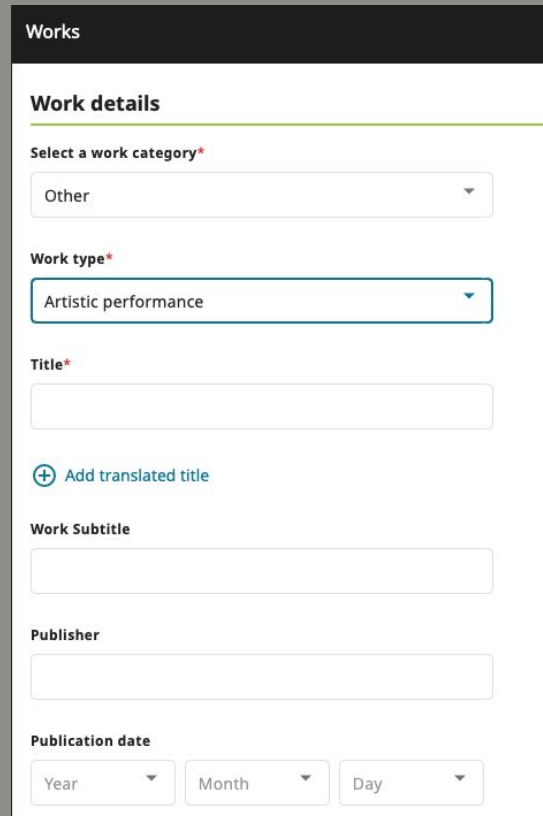
Constructive ideas not criticism

What works?

What is in progress?

Call to Action

# ORCID worktypes: Other



The screenshot shows the 'Works' section of an ORCID profile. It features a 'Work details' section with the following fields:

- Select a work category\***: A dropdown menu with 'Other' selected.
- Work type\***: A dropdown menu with 'Artistic performance' selected.
- Title\***: An empty text input field.
- Add translated title**: A link with a plus icon.
- Work Subtitle**: An empty text input field.
- Publisher**: An empty text input field.
- Publication date**: Three dropdown menus for 'Year', 'Month', and 'Day'.

## What works?

There is a process to add new work types to ORCID

## What is 'in progress'?

ORCID WorkTypes Event held by UK ORCID consortium in 2020 identified need for non-text outputs category

## Call to Action:

Bring together community to outline use case / user story for non-text outputs category and new resource type

# DataCite ResourceTypes

Audiovisual  
Collection  
Event  
Image  
InteractiveResource  
Model  
PhysicalObject  
Sound  
Other



CONNECTING RESEARCH,  
IDENTIFYING KNOWLEDGE

## **What works?**

Latest schema version 4.4

New name to reflect diversity of outputs

Well-established process for assigning DOIs to versioned datasets

## **What is 'in progress'?**

DataCite Metadata Working Group  
acknowledgement of the need to further  
address practice research requirements

## **Call to Action:**

Bring together community to outline use  
case / user story for practice research  
requirements

# RAiD: Research Activity iDentifier



## What works?

A project identifier - the RAiD handle and the RAiD metadata envelope

## What is 'in progress'?

Planning a pilot alongside PRVoices project

## Call to Action:

Identify changes needed to enable RAiDs to better reflect practice research



# CrossRef: Content types

Books and chapters  
Conference proceedings  
Datasets  
Dissertations  
Journals and articles  
Peer reviews  
Posted content (including preprints)  
Reports and working papers  
Standards



## **What works?**

Nexus a useful exemplar of linking different information and content types in an open manner

## **What is ‘in progress’?**

CrossRef a project partner on PRVoices project

## **Call to Action:**

Propose a content advisory group for practice research

# CrediT: Contributor roles taxonomy

Conceptualization  
Data curation  
Formal Analysis  
Funding acquisition  
Investigation  
Methodology  
Project administration  
Resources  
Software  
Supervision  
Validation  
Visualization  
Writing - original draft  
Writing - review and editing

## **What works?**

Idea of role as an important part of the scholarly record

## **What is 'in progress'?**

Consultation to broaden the scope from STEM beginnings

## **Call to Action:**

Recognition of collaborator and other practice research roles



Contributor Roles Taxonomy

# COAR resource types

Design  
Image  
Interactive resource  
Other  
Sound  
Musical Notation

## **What works?**

Includes some non-text resource types

## **What is 'in progress'?**

Evolving EOSC / EU project landscape

## **Call to Action:**

Propose addition of practice research resource type

# riox: other

Book  
Book chapter  
Conference Paper/Proceeding/Abstract  
Consultancy Report  
Journal Article / Review  
Manual / Guide  
Monograph  
Other  
Policy Briefing Report  
Technical Report  
Technical Standard  
Thesis  
Working Paper

**riox**

## **What works?**

Comprehensive mapping of existing repository records

## **What is 'in progress'?**

V3 of the taxonomy is in the consultative phase

## **Call to Action:**

Broadening of the vocabulary for works  
Consultation to include practice and wider A&H community



# Implications for discoverability

## CORE

Harvests PDF only

Uses rioxx, OpenAIRE



## Google Scholar

Indexes text only

PDFs left than 5MG

One file per article



# Practice Research Voices (PRVoices): Scoping the Open Library of Practice Research

Our aim is to realise an equitable landscape for all research, whatever the discipline, where we move beyond the “other” of non-text outputs, recognising practice research and enabling it to be valued as equal to papers, publications and monographs, and ensuring that it is captured and preserved, is made discoverable and can be re-used.

This project, funded by the Arts and Humanities Research Council, will address a number of recommendations of the Research England funded, PRAG-UK commissioned PRAG-UK reports, Practice Research – [Report 1: What is practice research and Report 2: How can practice research be shared?](#) authored by James Bulley and Ozden Sahin (2021).

The project team, is led by Jenny Evans (PI), Prof Neal White (CoI) and the scholarly comms team at Westminster and includes Adam Vials Moore (Co-I) Jisc, Prof Helen Bailey (CoI) (Kings College London) and Rachael Kotarski (Co-I) British Library, technology partners Cayuse, and project partners CrossRef and the Victoria and Albert Museum.

You can follow the project on our project blog, @prvoices on Twitter and Instagram

# Strand 1

## Repositories

Using open research practices, and building on existing infrastructure (the open source Haplo repository (based on [WestminsterResearch](#) – a joint initiative between the University of Westminster and technology partner Cayuse which captures all research including practice research in the arts), use an instance of this repository to review, identify and iterate changes, which will also be tested against the British Library's Repository and the Jisc Research Repository to ensure develop technical requirements for practice research repository platforms that meet the FAIR principles and that can scale to other systems and preservation infrastructure. This will include analysis of associated IP, copyright and licensing challenges.

# Strand 2

## Metadata (and PIDs) landscape

Harnessing existing conversations and mechanisms for feedback and the practical application via the above repositories to identify recommendations to move this landscape towards better reflecting both text and non-text research.

Metadata workshop planned - date tbc - please join us!

# Strand 3

## Create a PR community of practice

To bring together disconnected discussions between different stakeholder groups such as – researchers (including PRAG-UK) and archivists, curators, developers, librarians, records managers, researchers, repository managers, research data managers and research managers – to inform future work.

Come and join our chorus!

# Thank you!

# @prvoices

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