Platforms EOI: Platform to support archival of digital cultural heritage.

Project title

Platform to support archival of digital cultural heritage.

Field of Research code(s)

- 19 STUDIES IN CREATIVE ARTS AND WRITING
- 21 HISTORY AND ARCHAEOLOGY

EOI Lead Name

Gavin Sade

EOI lead Research Group

Creative Lab QUT

EOI lead Organisation

Queensland University of Technology

EOI lead Email

Collaborator details

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<tr>
<th>Name</th>
<th>Research Group</th>
<th>Organisation</th>
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<tr>
<td>Dr David Pyle</td>
<td>Creative Lab</td>
<td>Queensland University of Technology</td>
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Project description

This project aims to build a cloud-based platform to support the GLAM sector to build and sustain next-generation digital cultural heritage collections. It aims to offer services to support advanced photogrammetry, archival and presentation of 3D models of artefacts. The platform will support researchers involved in the preservation and archival of cultural heritage, who require access to sensitive collections, and who are designing new methods for the public presentation of cultural heritage. The resulting platform will adapt and existing tools to establish a cloud-based service for end-users. It will also provide reference designs for building affordable photogrammetry systems that can be used by researchers or GLAM sector along with workflows and protocols required for processing and storing in a FAIR repository. The project will develop terms of use, licencing and IP agreements required to enable FAIR use of digital cultural collections. Finally, the project will offer education and support services to enable GLAM partners and researchers to contribute to the platform and connect with other developments in the digital humanities.

Existing technology

Adopt

The project will adopt:

- cloud-based services for photogrammetry;
- existing tools in the digital humanities;
- training and education resources in photogrammetry developed by QUT;
- international best practice in Digital Cultural Heritage and FAIR collections; and
- advanced visualisation technologies developed by QUT for the public presentation of three-D digital assets.
Adapt

The project will adapt:
• existing open-source software to a cloud platform with a standardised user interface and API;
• tools used in the digital humanities, such as Jupyter notebooks, expanding these to support the presentation of three-D cultural assets, and connect with analytics capabilities; and
• existing national digital archives expanding capabilities and APIs that allow for digital assets to be used in multiple contexts.

Build

The project will build a cloud-based photogrammetry service and a digital repository for the archival of digitised cultural artefacts.

Anticipated requirements

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<th>Annual funding</th>
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<td>$200,000 - $299,000</td>
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<tr>
<th>Proposed length</th>
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<td>3 years</td>
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Other information

Other information you wish to provide

QUT is currently working on a pilot project funded through the ARDC Transformative Data Collections program that is investigating the use of photogrammetry to archive fragile textile artefacts. The project will establish a network of stakeholders interested in contributing to a national data scale project. This EOI will expand on the work commenced in the pilot project.

Terms

I agree to the terms

Yes