**Platforms EOI: A modern catalog built on a FAIR foundation.**

**Project title**

A modern catalog built on a FAIR foundation.

**Field of Research code(s)**

- 08 INFORMATION AND COMPUTING SCIENCES
- 20 LANGUAGE, COMMUNICATION AND CULTURE

**EOI Lead Name**

Nick Thieberger

**EOI lead Research Group**

School of Languages and Linguistics

**EOI lead Organisation**

University of Melbourne

**EOI lead Email**


**Collaborator details**

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Group</th>
<th>Organisation</th>
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<tbody>
<tr>
<td>Marco La Rosa</td>
<td>PARADISEC</td>
<td></td>
</tr>
<tr>
<td>Amanda Harris</td>
<td>PARADISEC</td>
<td></td>
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<tr>
<td>Peter Sefton</td>
<td>eResearch</td>
<td>UTS</td>
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**Project description**

For many years PARADISEC has operated a custom built catalog - Nabu - to capture, document and disseminate language resources. Whilst robust and performant, Nabu is showing signs of its age.

In this project we want to build upon earlier work funded by the ARDC using OCFL to store collections and items exported as RO-Crates. That project revealed that the combination of RO-Crate described items stored in a standardised format could be a means to stepping into a modern, scale out catalog application able to support many communities and many terabytes of data.

The previous work has created a modern web application (http://45.113.232.73/) that can interact with both OCFL as a viewer for the content (it will display images, audio and video with scrolling transcriptions) in addition to elastic search to provide a discovery capability.

In this project we want to build a catalog solution that operates alongside the viewer capability such that a support organisation could choose to either use the viewer as a frontend to an OCFL repository or enable a full catalog solution on top of one.

There is an international network of language archives that will also benefit from this work.
### Existing technology

**Adopt**

We will adopt OCFL as the underlying storage definition and RO-Crate as the means for describing the content. As much as possible, item metadata and updates will be encoded in the RO-Crate using schema.org for definition and other vocabularies as required.

**Adapt**

We will adapt the underlying database in PARADISEC to the new functionality described here.

**Build**

We will deliver a modern, microservice based catalog application developed in Javascript and deployed as containers that can be installed as an addon to the viewer capability on top of an OCFL repository. Functionality will be informed by the real world usage of Nabu and will include advanced search capability, user management, detailed metadata management, controlled vocabularies and data verification to ensure consistency in the information captured, reporting and exports.

### Anticipated requirements

**Annual funding**

- $100,000 - $199,000

**Proposed length**

- 2 years

### Terms

**I agree to the terms**

- Yes