

PILIN Project

Executive summary

As the [FRODO](#) and [MERRI](#) projects have matured, there is a growing realisation that sustainable identifier infrastructure is required to deal with the vast amount of digital assets being produced and stored within universities. This is a particular challenge for e-Research communities where massive amounts of data are being generated without any means of managing this data over any length of time.

The emphasis in the PILIN Project will be on building identifier management infrastructure based on a technology (Handle) that is now under development through the auspices of CNRI to underpin sustainable global identifier infrastructure.

PILIN aims to meet a specific need common to e-Research communities, the proposed work to be undertaken will be transferable to other communities, such as the VTE sector, [the Le@rning Federation](#) and the [TILIS](#) Project.

The project aims to take advantage of existing governance and consultative mechanisms within the ARROW environment to ensure relevant and sustainable outcomes and optimal return on investment. The project will be run in partnership between ARROW and the University of Southern Queensland ([USQ](#)), specifically through the [RUBRIC](#) Project.

Aims and Objectives

- Support adoption and use of persistent identifiers and shared persistent identifier management services by the project stakeholders.
- Plan for a sustainable, shared identifier management infrastructure that enables persistence of identifiers and associated services over archival lengths of time.

Project Outputs

1. Best practice and policy guides for the use of persistent identifiers in Australian e-learning, e-research, and e-science communities.
2. Use cases describing community requirements for identifiers and business process analysis relating to these use cases.

3. E-Framework representations of persistent identifier management services that support the business requirements for identifiers.
4. A "pilot" shared persistent identifier management infrastructure usable by the project stakeholders over the lifetime of the project. The pilot infrastructure will include services for creating, accessing and managing persistent digital identifiers over their lifetime. The pilot infrastructure will interoperate with other DEST funded systemic infrastructure. The development phase of the pilot will use an agile development methodology that will allow the inclusion of "value-added" services for managing resources using persistent identifiers to be included in the development program if resources permit.
5. Software tools to help applications use the shared persistent identifier infrastructure more easily.
6. Report on options and proposals for sustaining, supporting (including outreach) and governing shared persistent identifier management infrastructure