

Customer Success Story

ANDS - Australian National Data Service

The Australian National Data Service (ANDS) operates research infrastructure for the Australian research sector. The infrastructure aims to make it easier to discover and reuse research data. A component of this infrastructure is a controlled vocabulary service comprising tools to support efficient and seamless use, reuse and integration of research data. The vocabulary editing core application is PoolParty Thesaurus Server.

The Challenge

A controlled vocabulary (or ontology) reflects agreement on terminology used to label concepts, in other words terms and their relations are defined based on those agreements.

When research communities agree to use common language for the concepts in datasets, then the discovery, linking, understanding and reuse of research data are improved. Research, collecting, education, and government organisations in Australia and overseas are using or developing vocabulary services. ANDS was approached by a group of research organisations requiring access to an Australian vocabulary service.

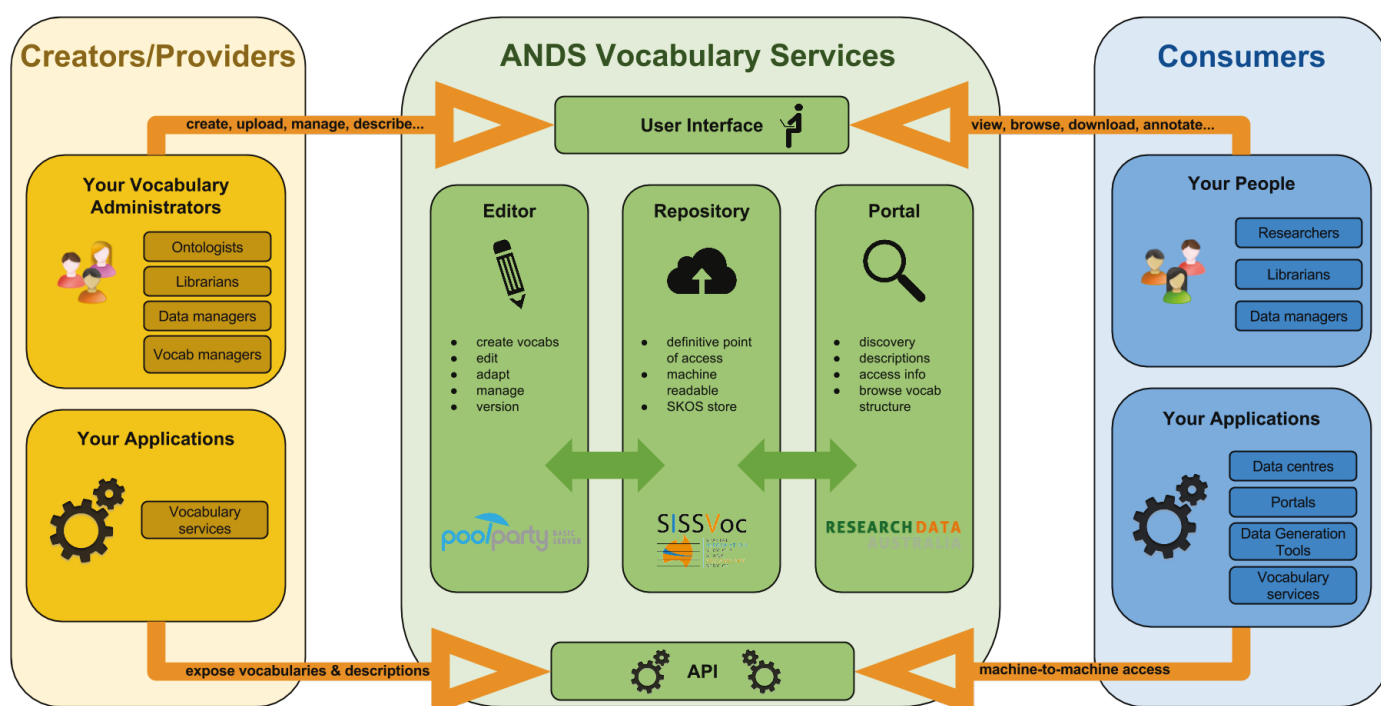
The Solution

Using PoolParty Thesaurus Server, and collaborating with Australian research organisations, ANDS implemented a vocabulary service consisting of the following modules:

- ✓ Vocabulary creation and management based on the PoolParty Thesaurus Server.
- ✓ Publication backend and vocabulary repository access implemented using RDF4J Server with SPARQL Endpoints.
- ✓ Linked Data API realized using Epimorphics Elda/SISSVoc with custom support for SKOS vocabularies.
- ✓ Discovery portal supporting versioning and licensing, as well as a widget for easy tagging of data.

The Results

Research Vocabularies Australia (RVA) makes it easy to find and use vocabularies. RVA also makes it possible for Australian research organisations to publish, re-purpose, create, and manage their own controlled vocabularies.



The Australian National Data Service (ANDS) Vocabulary Services Infrastructure

Project Insights

Services Developed in Partnership

ANDS - RESEARCH PARTNER FOCUSED

Service development was driven by the needs of project partners. Service enhancement is underpinned by ongoing communication with partners and users to best understand needs. Contributors to service development include:

- ✓ The Integrated Marine Observing System
- ✓ The Terrestrial Ecosystem Research Network
- ✓ The Atlas of Living Australia
- ✓ The Bureau of Meteorology
- ✓ Geoscience Australia
- ✓ The Commonwealth Scientific and Industrial Research Organisation.

ANDS also supports the Australian Vocabulary Special Interest Group (AVSIG), which provides a forum for discussion and collaboration.

TAKE A LOOK

Research Vocabularies Australia (RVA)

Discover, access, publish vocabularies

<https://vocabs.ands.org.au/>

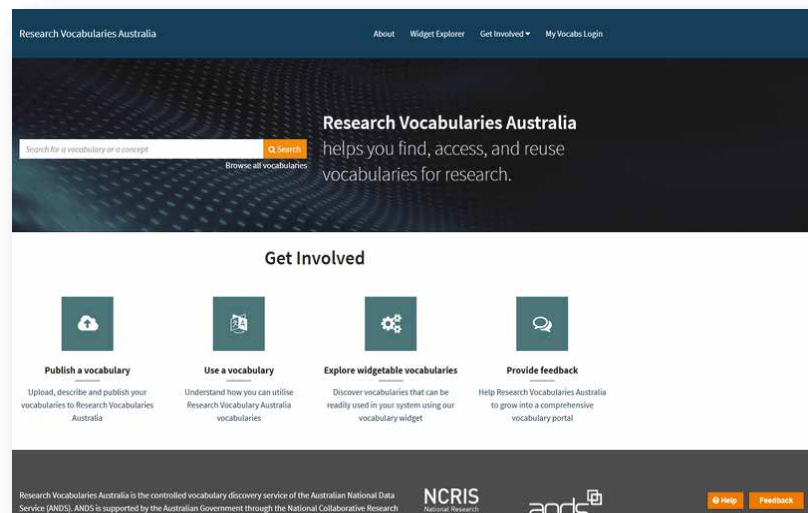
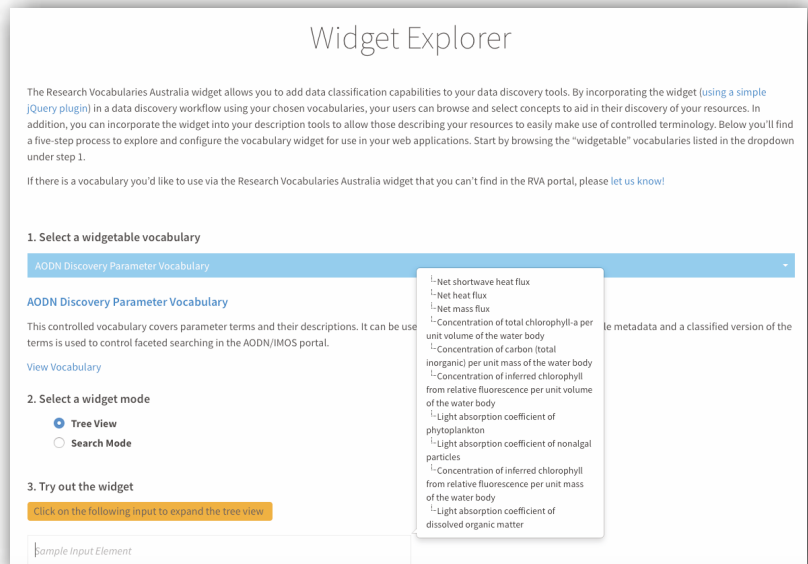
Widget Explorer

Add data classification capabilities to data discovery tools

https://vocabs.ands.org.au/vocabs/page/widget_explorer

Australian Vocabulary Special Interest Group (AVSIG)

<http://www.ands.org.au/partners-and-communities/ands-communities/avsig>



REACH OUT TO US

Do you want to know more? Contact us!



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