



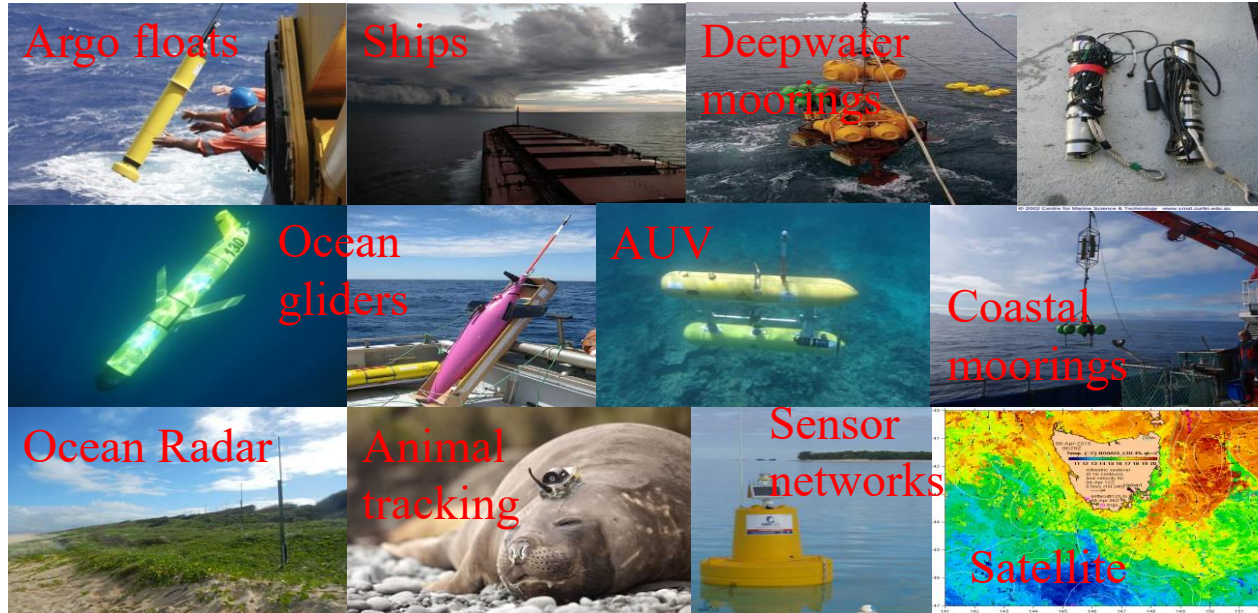
Vocabulary management and publication at IMOS using services developed in partnership with ANDS

Sebastien Mancini, Jane Frazier,
Kim Finney, Richard Walker, Rowan Brownlee and Adrian Burton

eResearch Australasia 2015, 20th October 2015

What is IMOS?

Observations undertaken by 10 platform-based Facilities



1 Select a Data Collection

2 Create a Subset

3 Download

Step 2: Create a Subset

Spatial Subset enter

Bounding Box W E enter

Reset enter

Integrated Marine Observing System (IMOS)

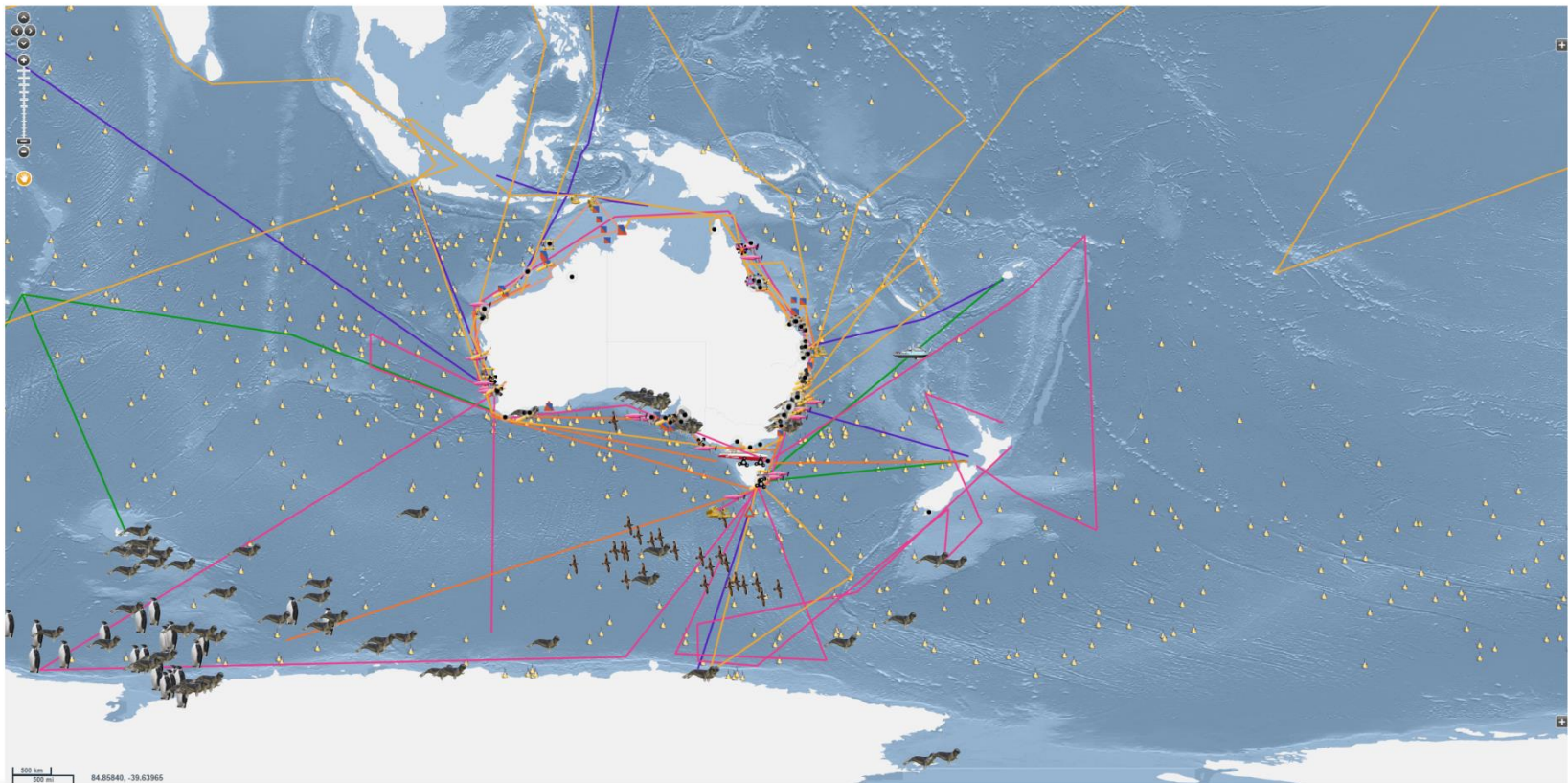
Filters

Facility

Platform code

Subfacility

Clear Subset



« Previous

Next »

Acknowledgment of | Disclaimer of | IMOS of | EODN of

What is the AODN?



Commonwealth Agencies

(AAD, AIMS, BOM, CSIRO, GA, RAN)

Integrated Marine Observing System
(IMOS)

Universities (IMAS, UWA, UQ, JCU...)

State Government Agencies
(EPA Victoria ...)

New-Zealand (NIWA)

NCRIS (ALA, TERN)



All data discoverable, accessible, usable and reusable

- IMOS portal

<https://imos.aodn.org.au/imos123/>

- FTP access

<http://data.aodn.org.au>

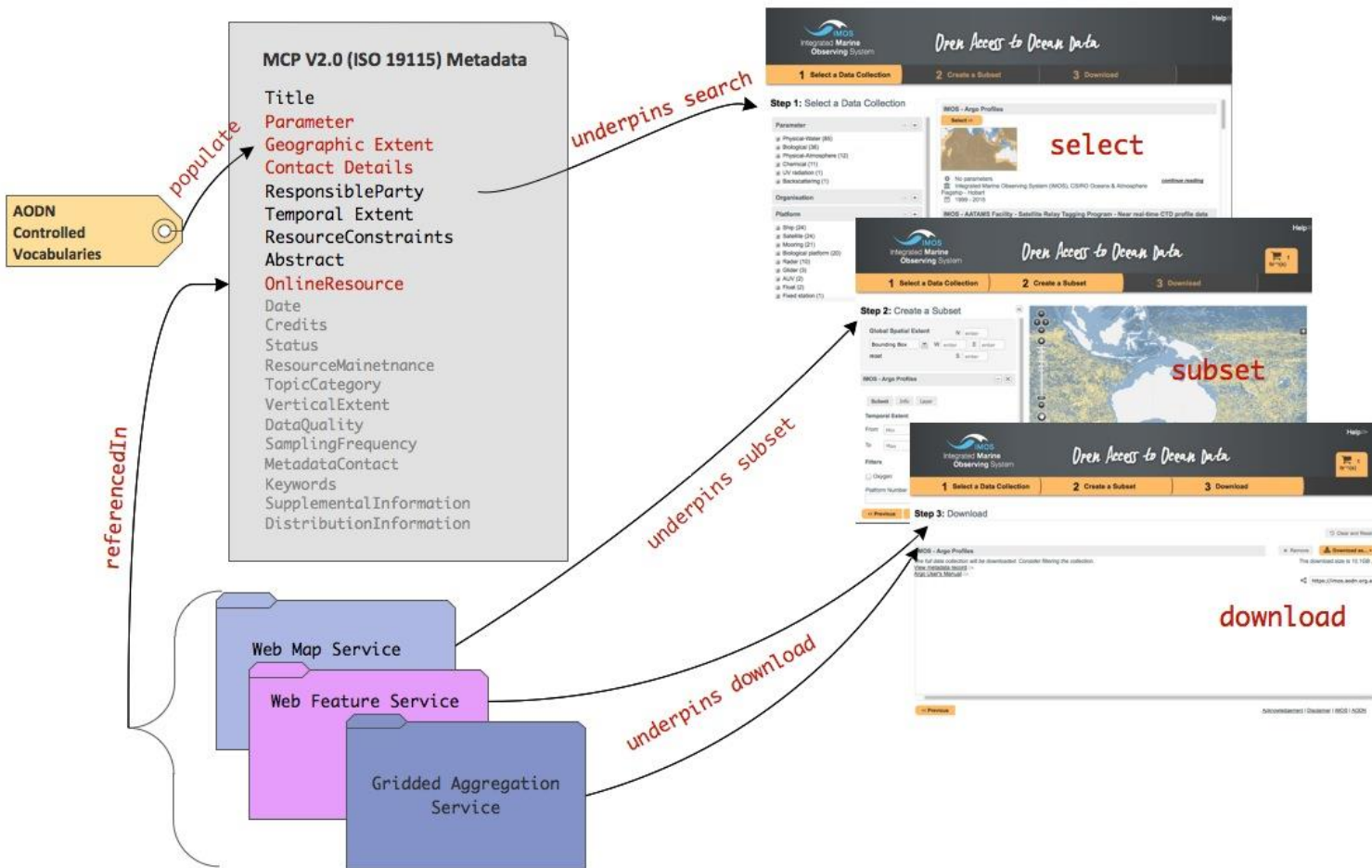
- THREDDS catalogue

<http://thredds.aodn.org.au/thredds/catalog.html>

- Github

<https://github.com/aodn>

THE 'ABC' OF CONTRIBUTING DATA TO PORTAL 1-2-3



IMOS/AODN use case (requirements)

Needed to create, store, manage, publish, use vocabularies, ultimately in a collaborative environment. Basic functionality we needed was generic – not domain specific



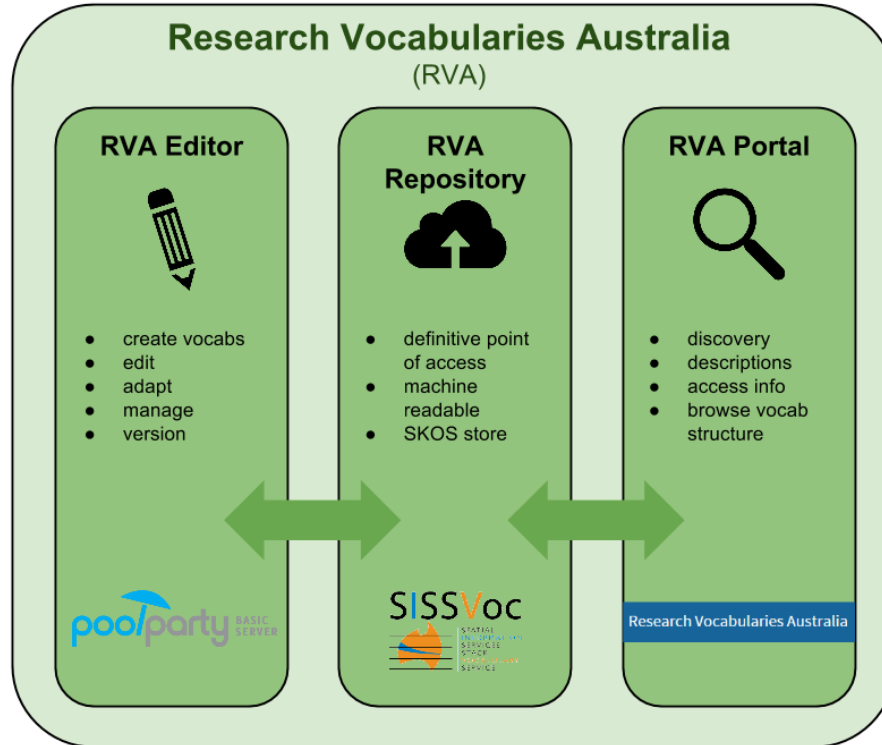
Original solution

Creation:	spreadsheets, XML editor
Storing:	ISO 19135 flavoured database PostgreSQL
Managing:	spreadsheets, database, custom scripts, manual auditing/tracking
Publishing:	Geonetwork static registers, custom script to generate SKOS
Using:	custom scripts, geonetwork fork (widgets to allow population of parameter field using controlled vocab)
Collaboration:	No dynamic community participation

Desired solution

Creation:	SKOS based editor, persistent URLs
Storing:	triple store
Managing:	automated audit trail/version/deprecation
Publishing:	via services, SPARQL query, file download, output generation in #formats
Using:	services, search interface, core Geonetwork thesaurus manager/picker
Collaboration:	Web based workflow management for dynamic community participation

VOCRAM project



RVA Editor - PoolParty

PROJECT CORPORA TOOLS OPTIONS ADVANCED Select Language Kim_Finney Help Logout Last automatic snapshot at 01:38 - 12.08.2015

AODN Organisation Vocabulary (181)

- Alex Wyllie and Associates Pty Ltd (0)
- Apache Energy Limited (0)
- Astron Environmental Services (0)
- Australian Fisheries Management Authority (AFMA), Australian Government (0)
- Australian Maritime Safety Authority (AMSA), Australian Government (0)
- Australian Museum (0)
- Australian Ocean Data Network (AODN) (0)
- BHP Billiton Iron Ore (0)
- BHP Billiton Limited (0)
- BHP Billiton Petroleum Australia (0)
- BMT Oceanica (0)
- Barnford Consulting Ecologists (BCE) (0)
- Birdlife Australia (0)
- BlueNet (0)
- Boggabri Coal Pty Ltd (0)
- Broome International Airport Holdings Pty Ltd (BIAH) (0)
- Bureau of Rural Sciences (BRS), Australian Government (0)
- Busselton Underwater Observatory (0)
- C-AID Consultants (0)
- Central Queensland University (CQU) (0)
- Centre for Ecology and Energy Physiology, University of Strasbourg (0)
- Centre for Whale Research (CWR) (0)
- Charles Darwin University (CDU) (4)
- Charles Sturt University (CSU) (1)
- Chevron Australia Pty Ltd (0)
- Coastalwatch (0)
- Columbia University (0)
- ConocoPhillips Australia Pty Ltd (0)
- Conservation Council of Western Australia (CCWA) (0)
- Coral Reef Research (0)
- Council of Heads of Australian Faunal Collections (CHAFC) (0)
- Curtin University (10)
- D.A. Lord and Associates Pty Ltd (DAL) (0)
- Dcafe (0)
- Deakin University (3)

AODN Organisation Vocabulary

1DCCE1179-4ADE-0001-EAAD-E7FCAASE1E08

GraphSearch Project Linking LD Frontend PP Browser

Metadata & Statistics Concepts Triples SPARQL Autopopulate Visualization Quality Report History

Metadata & Statistics **ADMS**

Title AODN Organisation Vocabulary en	Languages Default Language: en
Subject organisation en	Statistics Class Statistics Number of Concept Schemes: 1 Number of Concepts: 366 Number of Suggested Concepts: 0 Relation Statistics Number of Broader/Narrower Relations: 186 Number of Related Relations: 0 Relation Statistics: en Number of Preferred Labels: 366 Number of Alternative Labels: 312 Number of Hidden Labels: 297 Label Statistics: Total Number of Preferred Labels: 366 Number of Alternative Labels: 312 Number of Hidden Labels: 297
Description A controlled vocabulary of organisational entities en	Workflow Disabled
Author Kim_Finney Natalia Atkins	Quality Setting Default
Publisher (Organisation) eMarine Information Infrastructure (eMII) en	User Groups eMII_Editors
Contributor Kim Finney	URI Generation URI: http://vocab.aodn.org.au/def/organisation/<increment>
Created 06.05.2015 - 01:03	Repository Type Memory
License http://creativecommons.org/licenses/by/4.0/legalcode	



RVA portal: vocabs.ands.org.au

Research Vocabularies Australia

About Get Involved My Vocabs

Search for a vocabulary or a concept

My Vocabs

Please review the Research Vocabularies Australia participant agreement before you proceed.
If you have questions, please email services.ands.org.au.

+ Add a new vocabulary from PoolParty

+ Add a new Vocabulary

Published Vocabularies

VOCABULARY	ACTION
AODN Units of Measure Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Discovery Parameter Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Sampling Parameter Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Parameter Category Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Platform Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Platform Category Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Instrument Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Organisation Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>
AODN Organisation Category Vocabulary	<input type="button" value="View"/> <input type="button" value="Edit"/> <input type="button" value="Trash"/>

Profile

Sebastien Mancini

Research Vocabularies Australia

About Get Involved My Vocabs Login

Search for a vocabulary or a concept

AODN Organisation Vocabulary

Acronym: AODN Organisations
Publisher eMarine Information Infrastructure (eMII)

Created: 23-09-2015

widgetable

Related

Related people and organisations

Has contributor eMII_Atkins.Natalia

Has contributor Natalia_Atkins

Has contributor eMII_Finney.Kim

Has author Natalia Atkins

current version

Version 1.1

- Access apiSparql
- Access sesameDownload
- Access sissvoc

See [audit log](#) for changes since last version.

An AODN controlled vocabulary describing organisational entities.

Languages

English

Notes

First public release.

Licence

Version 1.0


Top Concepts

Browse

- The University of Melbourne (6)
- University of Canberra (UC) (1)

RVA Repository – SISSVoc/Linked Data API

Research Vocabularies Australia – Linked Data API

 AODN Organisation Vocabulary

Search Results

Department of Defence (DoD), Australian Government (original)

definition The primary role of Defence is to defend Australia against armed attack. Australia's defence policy is founded on the principle of self-reliance in the direct defence of Australia, but with a capacity to do more where there are shared interests with partners and allies.

narrower

- Australian Defence Force Academy (ADFA), Department of Defence (DoD), Australian Government (original)
- Defence Science and Technology Organisation (DSTO), Department of Defence (DoD), Australian Government (original)
- Royal Australian Navy (RAN), Department of Defence (DoD), Australian Government (original)

Department of the Environment (DoE), Australian Government (original)

definition The Department of the Environment designs and implements the Australian Government's policies and programmes to protect and conserve the environment, water and heritage and promote climate action. The environmental framework is being delivered under four pillars: Clean air, Clean water, Clean land, and National heritage.

narrower

- Australian Antarctic Division (AAD), Department of the Environment (DoE), Australian Government (original)
- Bureau of Meteorology (BOM), Department of Environment (DoE), Australian Government (original)

Department of Industry and Science, Australian Government (original)

definition The department consolidates the Australian Government's efforts to drive economic growth, productivity and competitiveness by bringing together industry, energy, resources, science and skills.

narrower

- Australian Geological Survey Organisation (AGSO) (original)
- Australian Institute of Marine Science (AIMS), Department of Industry and Science, Australian Government (original)
- Bureau of Mineral Resources, Geology and Geophysics (BMR) (original)
- Commonwealth Scientific and Industrial Research Organisation (CSIRO) (original)
- Geoscience Australia (GA), Department of Industry and Science, Australian Government (original)

Department of the Environment, Water, Heritage and the Arts (DEWHA), Australian

[html](#) | [json](#) | [rdf](#) | [text](#) | [ttl](#) | [xml](#)

Find Concepts

Exact label

Text within label

On This Page

- > Department of Defence (DoD), Australian Government (original)
- > Department of the Environment (DoE), Australian Government (original)
- > Department of Industry and Science, Australian Government (original)
- > Department of the Environment, Water, Heritage and the Arts (DEWHA), Australian Government (original)
- > Australian Fisheries Management Authority (AFMA), Australian Government (original)
- > Australian Maritime Safety Authority (AMSA), Australian Government (original)
- > Alex White and Associates Pty Ltd (original)
- > Anaschi Energy Limited (original)
- > RPS APASA Pty Ltd (original)
- > next >

Sort by

pref label (original)

definition (original)

narrower (original)

View

> all > basic > concept > description

pref label (original)


definition (original)

narrower (original)

Items per page

> 10 > 25 > 50

Research Vocabularies Australia – Linked Data API

 AODN Organisation Vocabulary

[html](#) | [json](#) | [rdf](#) | [text](#) | [ttl](#) | [xml](#)

Department of the Environment (DoE), Australian Government (original)

<http://vocab.aodn.org.au/def/organisation/entity/8>

alt label Department of the Environment (DoE) (original)

dcterms created 27/04/2015 10:38:15 (original)

dcterms modified 12/05/2015 01:18:32 (original)

creator Natalia Atkins (original)

dc publisher eMarine Information Infrastructure (eMII) (original)

dc source Australian Ocean Data Network Organisation Register (original)

broad match 1 (original)

definition The Department of the Environment designs and implements the Australian Government's policies and programmes to protect and conserve the environment, water and heritage and promote climate action. The environmental framework is being delivered under four pillars: Clean air, Clean water, Clean land, and National heritage.

exact match print.asp?n_code=3956 (original)

hidden label DoE (original)

narrower <http://vocab.aodn.org.au/def/organisation/entity/11> (original)

broader 8

<http://vocab.aodn.org.au/def/organisation/entity/9> (original)

broader 8

type Resource (original)

Concept (original)

in scheme <http://vocab.aodn.org.au/def/organisation/1> (original)

has top concept 8

replaces <http://vocab.aodn.org.au/def/organisation/entity/23> (original)

Find Concepts

Exact label

Text within label

View

> all > basic > description

- pref label (original)
- alt label (original)
- dcterms created (original)
- dcterms modified (original)
- creator (original)
- dc publisher (original)
- dc source (original)
- broad match (original)
- definition (original)
- exact match (original)
- hidden label (original)
- narrower > broader (original)
- type (original)
- in scheme > has top concept (original)
- replaces > is replaced by (original)
- top concept of (original)

What's next?

- From our perspective, an excellent outcome that should enable a leap forward in the use and sharing of vocabularies
- Work with community to govern and maintain vocabularies
- Expand scope of vocabularies used
- Improve tooling in community infrastructure that need to use vocabularies
- Help community to map their own terminologies to the common vocabularies

Vocabularies in everyday life

Categories

Luggage & Travel Gear

- Backpacks
- Briefcases
- Diaper Bags
- Fashion Waist Packs
- Gym Bags
- Laptop Bags
- Luggage
- Messenger Bags

Travel Accessories

- Luggage Carts
- Luggage Locks
- Luggage Scales
- Luggage Straps
- Luggage Tags
- Packing Organizers
- Passport Covers
- Passport Wallets
- Shoe Bags



Travel Wallets

Umbrellas

Refine by

TRAVEL WALLET

1-60 of 2,543 results for Clothing, Shoes & Jewelry : Luggage & Travel Gear :
Travel Accessories : **Travel Wallets**

Sort by  



More Colors Available

Lewis N. Clark Rfid Neck Stash by Lewis N. Clark
\$8.08 - \$22.99 ✓Prime

Some sizes/colors are Prime eligible



Landing Gear RFID Safe Money Belt Hidden Waist Stash by Landing Gear

\$16.95 - \$19.95 ✓Prime



Stander EZ Adjust & Pivoting Home Bed Rail + 3 pocket organizer pouch + Adjustable in Length to



Eagle Creek Travel Gear Undercover Money Belt by Eagle Creek

\$20.00 ✓Prime

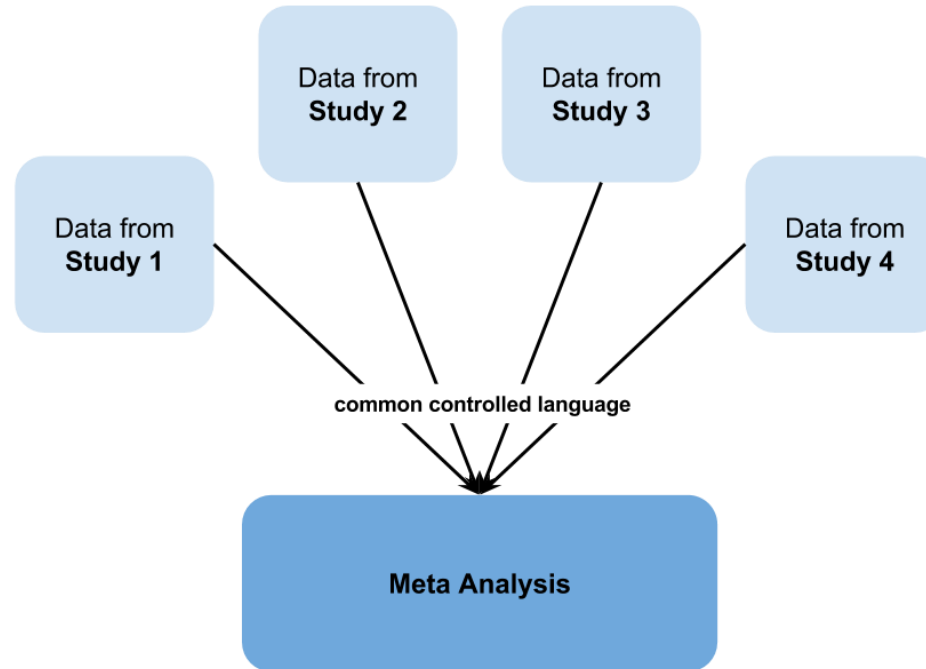
Vocabularies and Research

	<p><u>Cenozoic</u> (65.5 mya to present)</p>	<p>Quaternary (2.588 mya to present)</p> <p><u>Holocene</u> (11,700 yrs to present) <u>Pleistocene</u> (2.588 mya to 11,700 yrs)</p>
		<p>Neogene (23.03 to 2.588 mya)</p> <p><u>Pliocene</u> (5.332 to 2.588 mya) <u>Miocene</u> (23.03 to 5.332 mya)</p>
		<p>Paleogene (65.5 to 23.03 mya)</p> <p><u>Oligocene</u> (33.9 to 23.03 mya) <u>Eocene</u> (55.8 to 33.9 mya) Paleocene (65.5 to 55.8 mya)</p>
	<p><u>Cretaceous</u> (145.5 to 65.5 mya)</p>	

Vocabularies and Data reuse

Name	Thread pitch (mm)	Minor diameter tolerance	Nominal diameter (mm)	Head shape	Price for 50 screws	Available at factory outlet?	Number in stock	Flat or Phillips head?
M4	0.7	4g	4	Pan	\$10.08	Yes	276	Flat
M5	0.8	4g	5	Round	\$13.89	Yes	183	Both
M6	1	5g	6	Button	\$10.42	Yes	1043	Flat
M8	1.25	5g	8	Pan	\$11.98	No	298	Phillips
M10	1.5	6g	10	Round	\$16.74	Yes	488	Phillips
M12	1.75	7g	12	Pan	\$18.26	No	998	Flat
M14	2	7g	14	Round	\$21.19	No	235	Phillips
M16	2	8g	16	Button	\$23.57	Yes	292	Both
M18	2.1	8g	18	Button	\$25.87	No	664	Both
M20	2.4	8g	20	Pan	\$29.09	Yes	486	Both
M24	2.55	9g	24	Round	\$33.01	Yes	982	Phillips
M28	2.7	10g	28	Button	\$35.66	No	1067	Phillips
M36	3.2	12g	36	Pan	\$41.32	No	434	Both
M50	4.5	15g	50	Pan	\$44.72	No	740	Flat

Vocabularies and Data linking



vocabs.ands.org.au

Why ANDS?

- Shared cross-facility service
- Enabling infrastructure
- Further data discovery & re-use
- Enabling integration into national and international data aggregations

vocabs.ands.org.au

RVA Documentation Home:

<https://documentation.ands.org.au/display/DOC/Research+Vocabularies>

Contact us to get started:

services@ands.org.au

Sebastien.mancini@utas.edu.au

The Operators of the IMOS infrastructure are:



ANDS is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy (NCRIS).

NCRIS

National Research
Infrastructure for Australia

An Australian Government Initiative



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