CONDENSE

Research Data Portfolio

October 2019

CONDENSE

from data to action

PLAN
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DESCRIBE
ANALYSE
PUBLISH

PROJECT

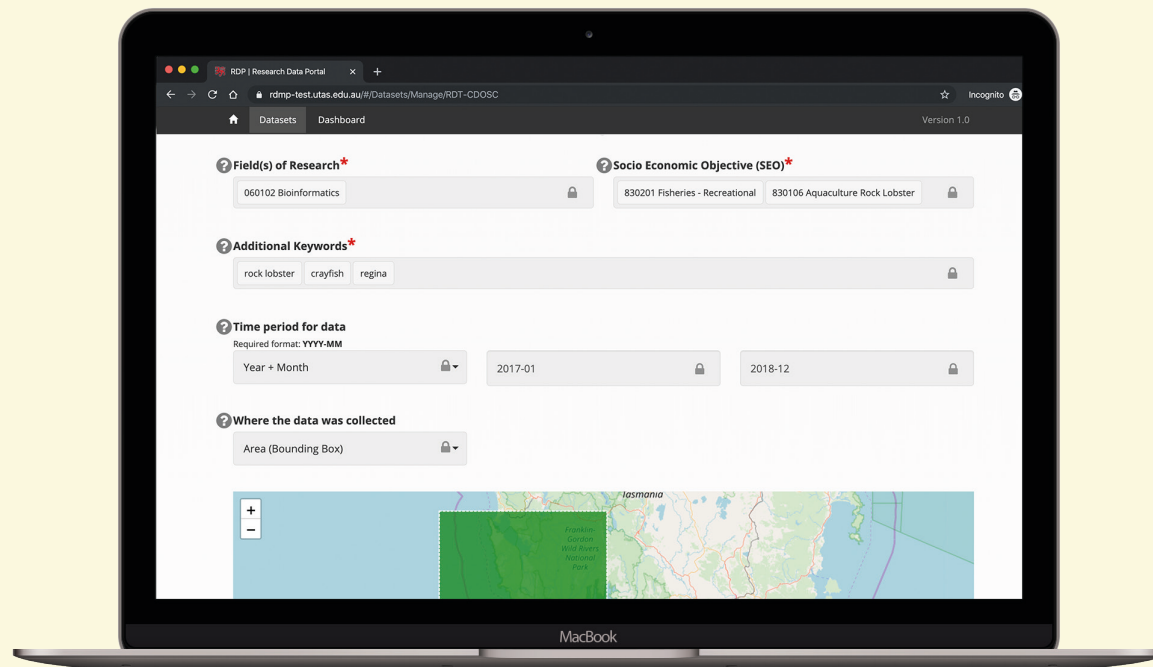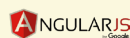## UTAS RESEARCH DATA PORTAL

CLIENT

UNIVERSITY *of* TASMANIA

IN BRIEF

The first whole-of-university data-publishing application at UTAS, integrating with national research-data-storage infrastructure and international identifier standards, and publishing records to the national research repository.

UNDER THE HOOD

Microsoft SQL Server · nectar · ANGULARJS by Google · Microsoft .NET

CONDENSE

from data to action

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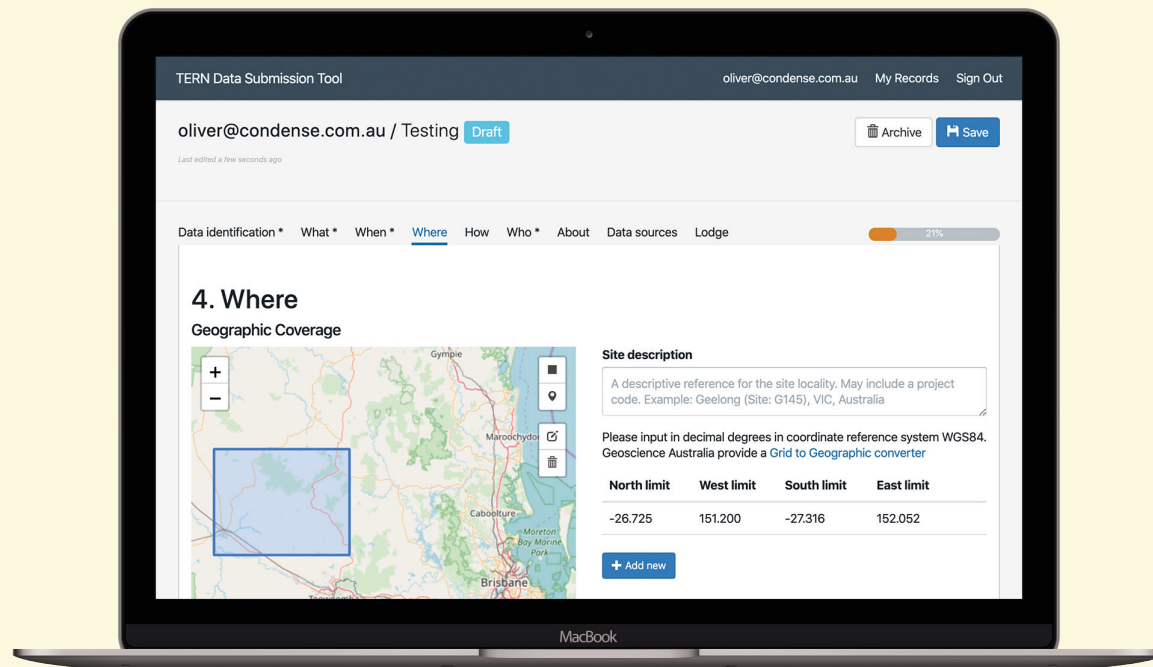PUBLISH

TERN DATA SUBMISSION TOOL

CLIENT

TERN

NCRIS

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

IN BRIEF

Streamlining the process of capturing metadata for terrestrial ecosystem data in a standard format and prepared it for publication to the TERN Data Discovery Portal.

UNDER THE HOOD

React   django   doi   KEYCLOAK

ISO/TS 19115-3:2016
Geographic information — Metadata — Part 3: XML schema implementation for fundamental concepts

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from data to action

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SEAMAP AUSTRALIA

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IMAS
INSTITUTE FOR MARINE
& ANTARCTIC STUDIES

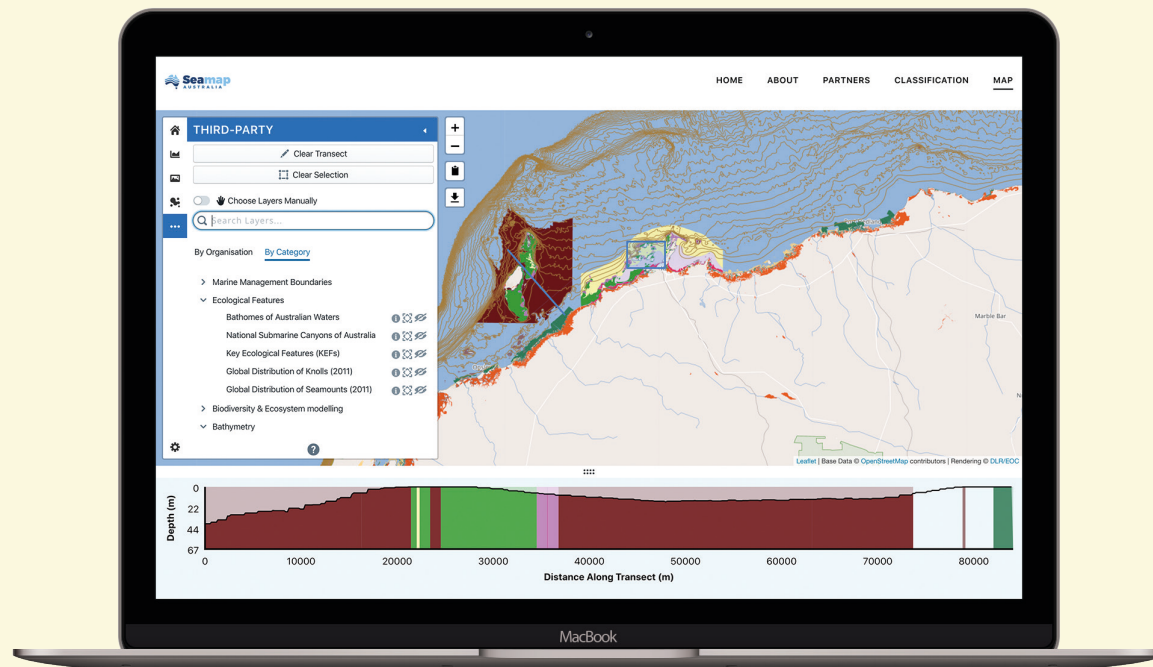**Seamap**
AUSTRALIA

IN BRIEF

The world's first continent-scale sea-bed habitat mapping project. The portal brings together data from national seabed mapping collections, making the data discoverable and accessible in one location for scientists, managers, and recreational users to browse and analyse.

UNDER THE HOOD

Microsoft SQL Server • OSGeo • React • Leaflet • THREDDS

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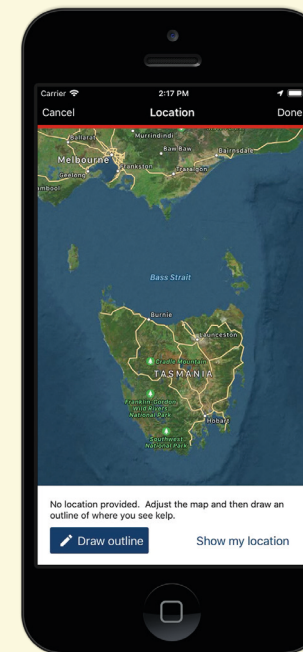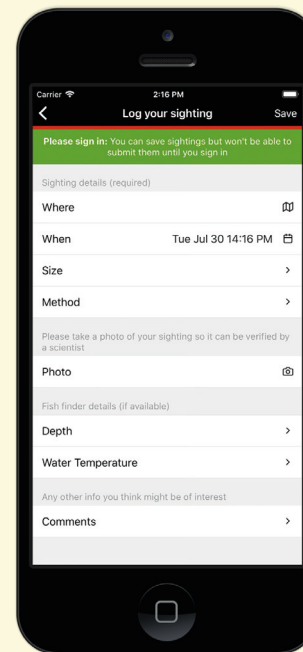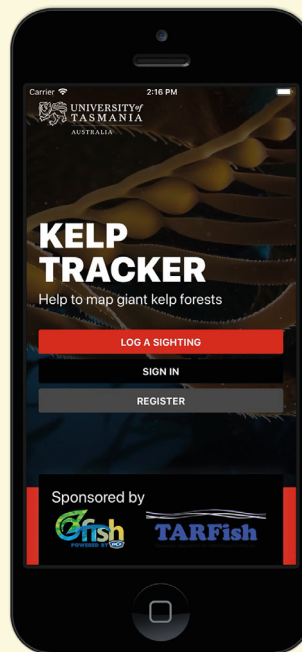# IMAS KELP TRACKER APP

CLIENT

UNIVERSITY *of* TASMANIA
AUSTRALIA

IMAS INSTITUTE FOR MARINE & ANTARCTIC STUDIES

IN BRIEF

A citizen-science data collection application to help scientists understand the diminishing giant kelp populations.

UNDER THE HOOD

Microsoft SQL Server   django   React Native

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AODN DATA SUBMISSION TOOL

CLIENT

AODN
Australian Ocean Data Network

UNIVERSITY of TASMANIA

IMOS
Integrated **Marine Observing** System

IN BRIEF

A self-service tool for researchers to submit their research data — simplifying the process of gathering information in a standard format and preparing it for upload to the AODN catalogue and AODN Portal.

AODN Data Submission Tool   Home   Help   Sign in

AODN Data Submission Tool

An open source tool for capturing research data - simplifying the process of gathering information in a standard format and preparing it for upload to the AODN catalogue (and AODN Portal if suitable).

The AODN would like to acknowledge initial development of this tool by the Institute for Marine and Antarctic Studies, University of Tasmania, and this subsequent work which was co-funded by Research Data Services (RDS).

Sign in

MacBook

UNDER THE HOOD

OSGeo   React   django

ISO/TS 19115-3:2016
Geographic information — Metadata — Part 3: XML schema implementation for fundamental concepts

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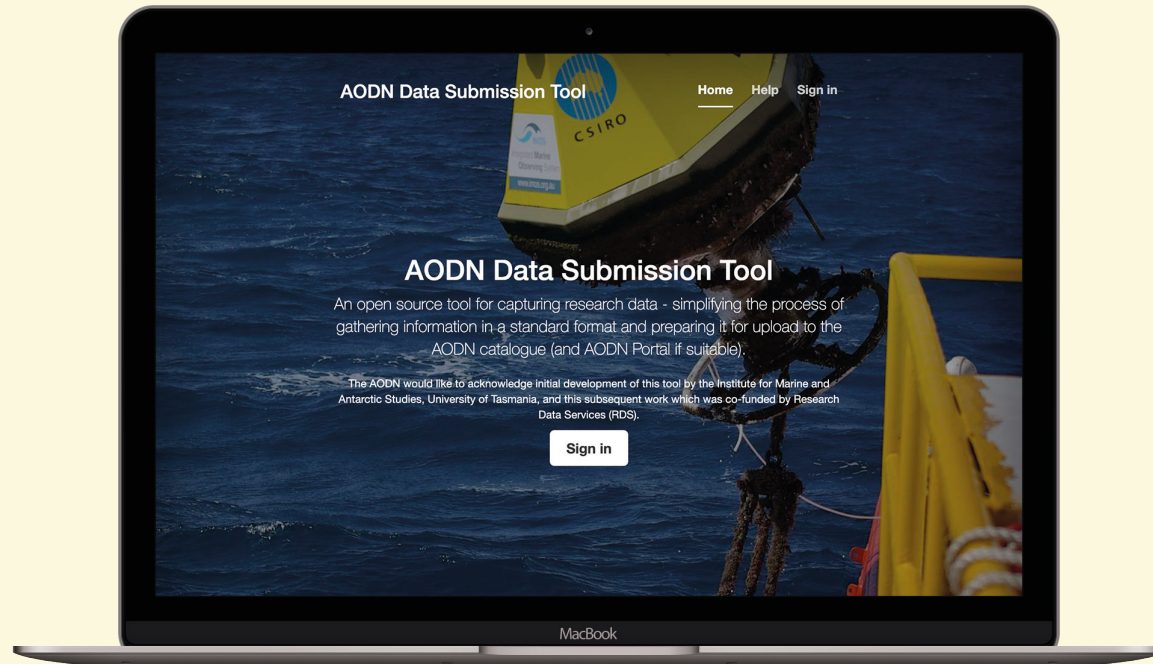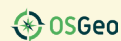
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PROJECT

FISHERIES SPATIAL AND RESEARCH DATABASES

CLIENT

UNIVERSITY *of* TASMANIA | **IMAS** INSTITUTE FOR MARINE & ANTARCTIC STUDIES

IN BRIEF

A suite of custom data-entry applications for numerous research databases including high value commercial fisheries.

UNDER THE HOOD

Microsoft SQL Server · React · Django · RED HAT ANSIBLE · ORACLE

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IMAS DATA PUBLISHING PLATFORM

CLIENT

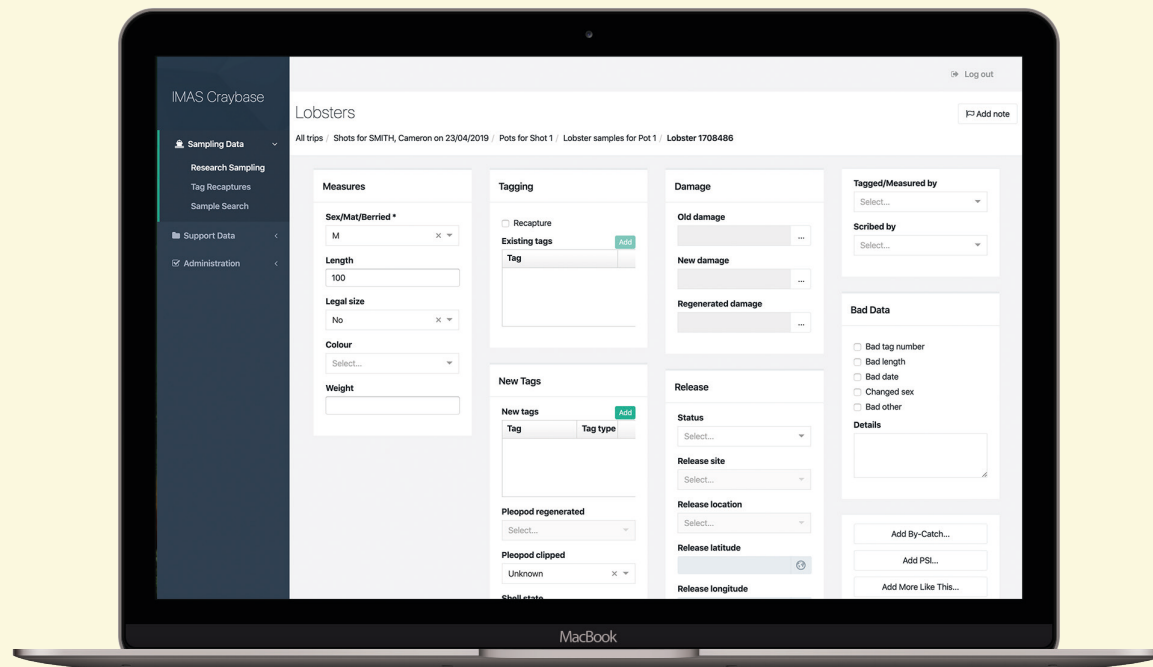UNIVERSITY of TASMANIA

IMAS
INSTITUTE FOR MARINE & ANTARCTIC STUDIES
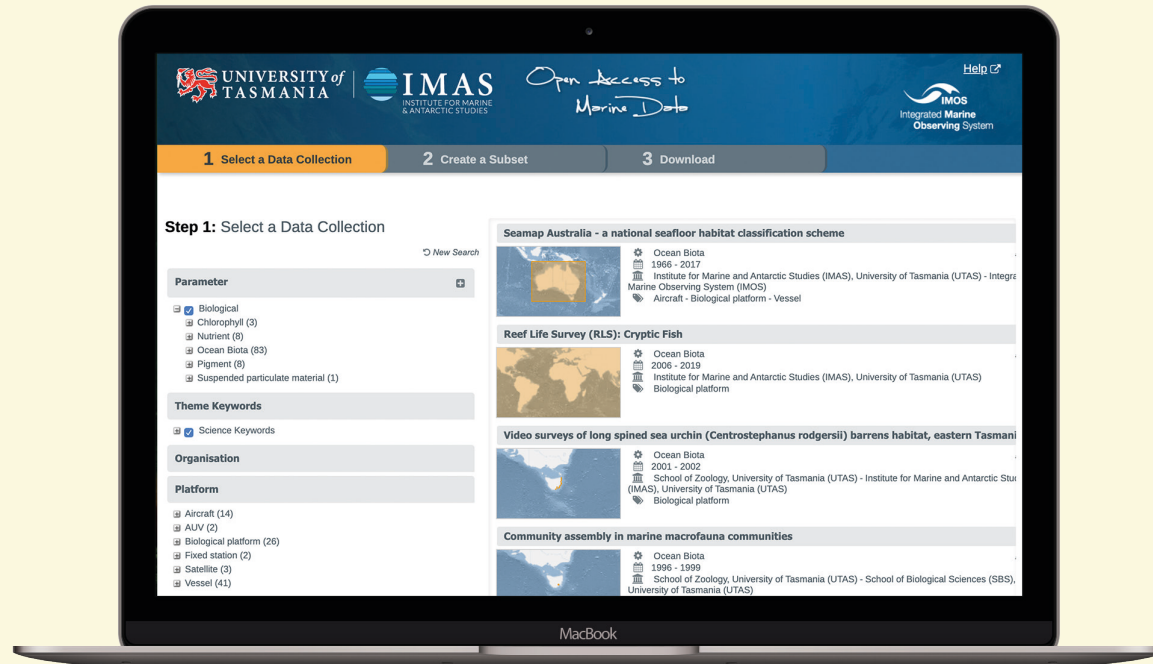
IN BRIEF

A data discovery and access, standards-based cataloguing, and standards-based data serving platform hosting datasets of IMAS researchers, collaborators and partners, including many with national and global interest, across all aspects of the research data management lifecycle.

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Open Access to Marine Data

Help

IMOS Integrated Marine Observing System

1 Select a Data Collection   **2** Create a Subset   **3** Download

Step 1: Select a Data Collection

↻ New Search

Parameter	+

☐ ☑ Biological
  ⊞ Chlorophyll (3)
  ⊞ Nutrient (8)
  ⊞ Ocean Biota (83)
  ⊞ Pigment (8)
  ⊞ Suspended particulate material (1)

Theme Keywords

☐ ☑ Science Keywords

Organisation

Platform

⊞ Aircraft (14)
⊞ AUV (2)
⊞ Biological platform (26)
⊞ Fixed station (2)
⊞ Satellite (3)
⊞ Vessel (41)

Seamap Australia - a national seafloor habitat classification scheme
⚙ Ocean Biota
📅 1966 - 2017
🏛 Institute for Marine and Antarctic Studies (IMAS), University of Tasmania (UTAS) - Integrated Marine Observing System (IMOS)
🏷 Aircraft - Biological platform - Vessel

Reef Life Survey (RLS): Cryptic Fish
⚙ Ocean Biota
📅 2006 - 2019
🏛 Institute for Marine and Antarctic Studies (IMAS), University of Tasmania (UTAS)
🏷 Biological platform

Video surveys of long spined sea urchin (Centrostephanus rodgersii) barrens habitat, eastern Tasmania
⚙ Ocean Biota
📅 2001 - 2002
🏛 School of Zoology, University of Tasmania (UTAS) - Institute for Marine and Antarctic Studies (IMAS), University of Tasmania (UTAS)
🏷 Biological platform

Community assembly in marine macrofauna communities
⚙ Ocean Biota
📅 1996 - 1999
🏛 School of Zoology, University of Tasmania (UTAS) - School of Biological Sciences (SBS), University of Tasmania (UTAS)

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🚗 **UNDER THE HOOD**

Microsoft SQL Server   RDS Research Data Services   CHEF   OSGeo

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IMAS DATA SUBMISSION TOOL

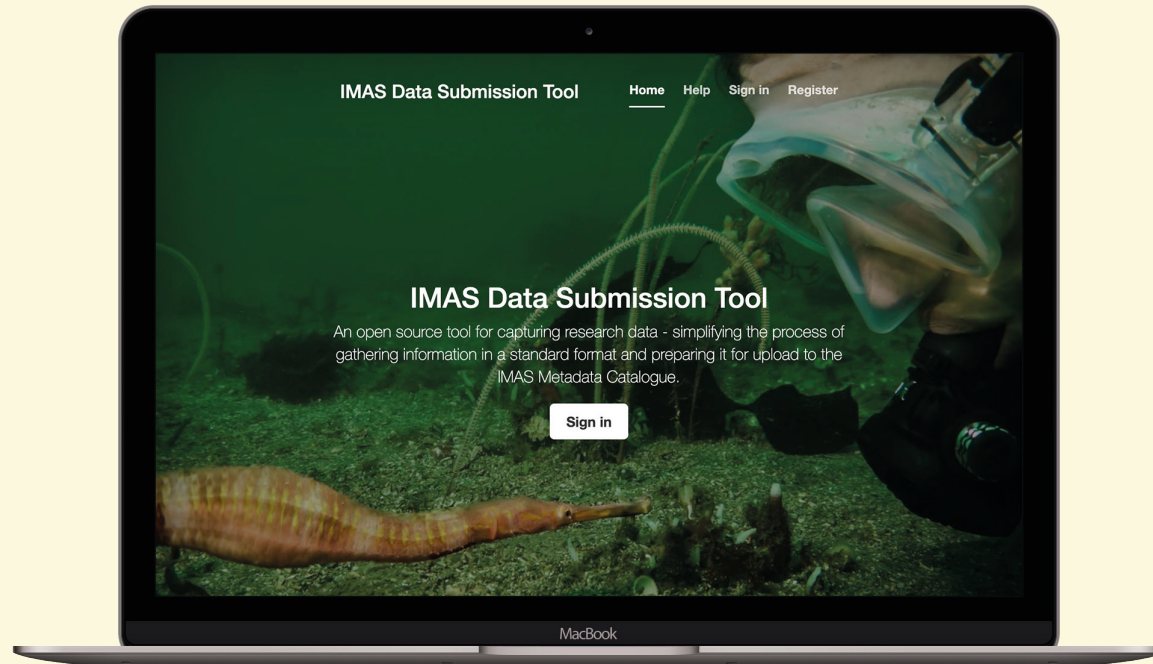CLIENT

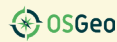UNIVERSITY of TASMANIA | **IMAS** INSTITUTE FOR MARINE & ANTARCTIC STUDIES

IN BRIEF

Simplifying metadata entry by researchers and providing workflow to review and publish. This simpler method of entering data records has ensured much greater compliance from researchers who would otherwise be required to wrestle with an unnecessarily complicated interface and standard.

IMAS Data Submission Tool   Home   Help   Sign in   Register

IMAS Data Submission Tool

An open source tool for capturing research data - simplifying the process of gathering information in a standard format and preparing it for upload to the IMAS Metadata Catalogue.

Sign in

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React   django   OSGeo   **ISO/TS 19115-3:2016** Geographic information — Metadata — Part 3: XML schema implementation for fundamental concepts

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IMAS RESEARCH DATA PROFILE

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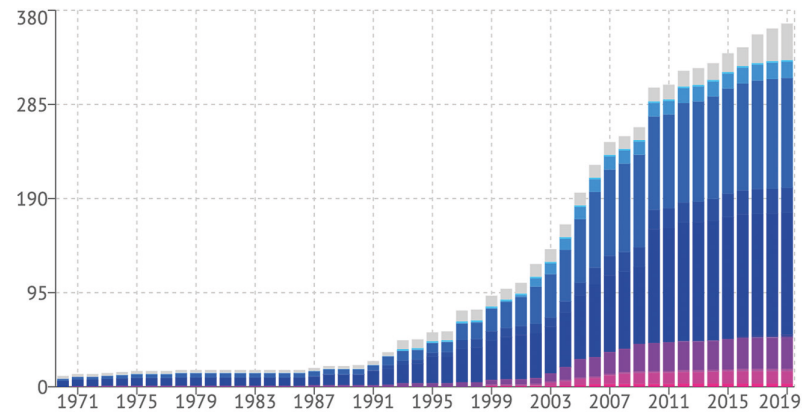
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IMAS
INSTITUTE FOR MARINE & ANTARCTIC STUDIES

IN BRIEF

Visualisations of the research data output by IMAS. Draws information directly from Geonetwork to provide fresh, accurate information.

CUMULATIVE DATA COLLECTION BY YEAR

This graph shows the cumulative number of datasets from IMAS and our collaborators through time.

UNDER THE HOOD

GeoNetwork
opensource

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PUBLISH

DATA-MAPPING FOR FISHERIES DIGITAL TRANSITION PROJECT

CLIENT

Tasmanian Government

IN BRIEF

A comprehensive review of data sources, processing and reporting standards of the wild-capture commercial fisheries sector as they transition to digital platforms as part of the $5 million Fisheries Digital Transformation project.

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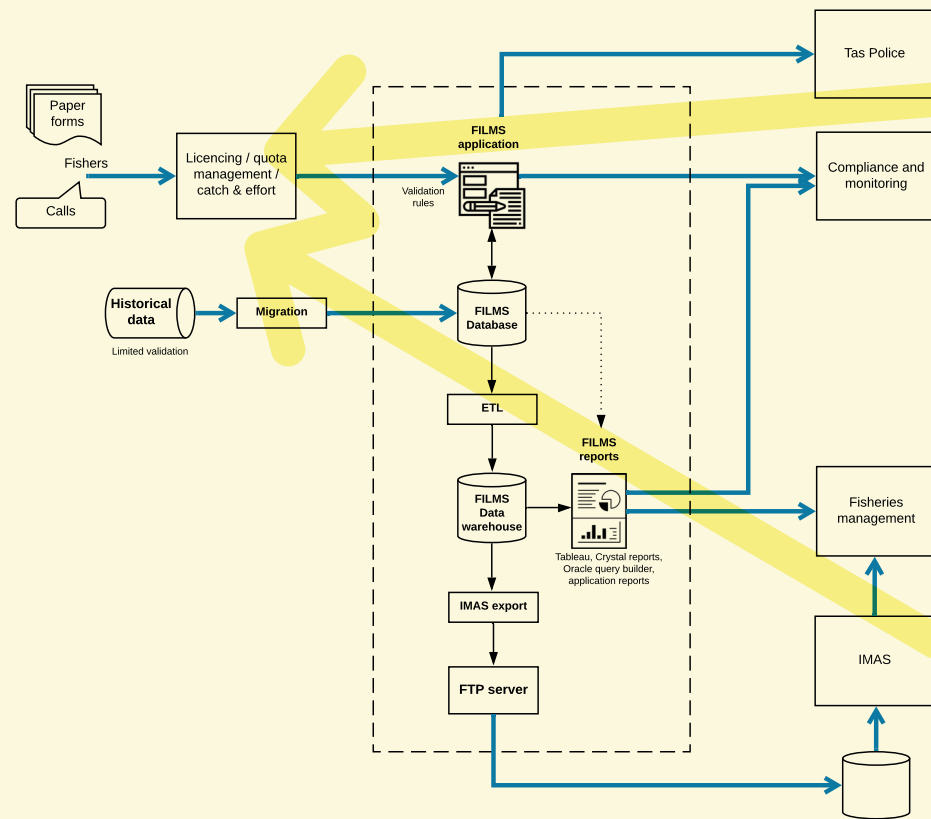
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