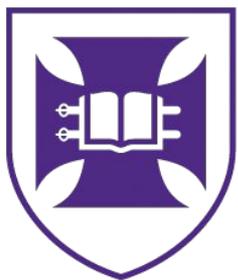


# A CARE and FAIR-ready distributed access control system for human-created data using the Australian Access Federation and beyond

Peter Sefton<sup>1</sup>, Jenny Fewster, Moises Sacal Bonequi, Cale  
Johnstone, Catherine Travis, River Tae Smith, Patrick Carnuccio



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA



australian text  
analytics platform  
atap.edu.au

CREATE CHANGE



MONASH  
University



Australian  
National  
University



THE UNIVERSITY OF  
SYDNEY

With thanks for their contribution:



AIATSIS





**Australian Research Data Commons**



The Language Data Commons of Australia (LDaCA) and Australian Text Analytics Platform (ATAP) projects received investment (<https://doi.org/10.47486/DP768> and <https://doi.org/10.47486/PL074>) from the Australian Research Data Commons (ARDC). The ARDC is funded by the National Collaborative Research Infrastructure Strategy (NCRIS).

[nature](#) > [scientific data](#) > [comment](#) > article

Open Access | [Published: 15 March 2016](#)

# The FAIR Guiding Principles for scientific data management and stewardship

[Mark D. Wilkinson](#), [Michel Dumontier](#), [IJsbrand Jan Aalbersberg](#), [Gabrielle Appleton](#), [Myles Axton](#), [Arie Baak](#), [Niklas Blomberg](#), [Jan-Willem Boiten](#), [Luiz Bonino da Silva Santos](#), [Philip E. Bourne](#), [Jildau Bouwman](#), [Anthony J. Brookes](#), [Tim Clark](#), [Mercè Crosas](#), [Ingrid Dillo](#), [Olivier Dumon](#), [Scott Edmunds](#), [Chris T. Evelo](#), [Richard Finkers](#), [Alejandra Gonzalez-Beltran](#), [Alasdair J.G. Gray](#), [Paul Groth](#), [Carole Goble](#), [Jeffrey S. Grethe](#), ... [Barend Mons](#)  [+ Show authors](#)

[Scientific Data](#) **3**, Article number: 160018 (2016) | [Cite this article](#)

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 An [Addendum](#) to this article was published on 19 March 2019

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Be

**FAIR**

Findable Accessible Interoperable Reusable

and

**CARE**

Collective Benefit Authority to Control Responsibility Ethics

# CARE Principles for Indigenous Data Governance

The CARE Principles for Indigenous Data Governance can be downloaded here in [summary](#) or [full](#)

The CARE Principles in Spanish - [CREA para la Gobernanza de Datos Indigenas](#)

The CARE Principles in Vietnamese - [Các nguyên tắc CARE đối với quản trị dữ liệu bản địa](#)

## CARE Principles for Indigenous Data Governance

The current movement toward open data and open science does not fully engage with Indigenous Peoples rights and interests. Existing principles within the open data movement (e.g. FAIR: findable, accessible, interoperable, reusable) primarily focus on characteristics of data that will facilitate increased data sharing among entities while ignoring power differentials and historical contexts. The emphasis on greater data sharing alone creates a tension for Indigenous Peoples who are also asserting greater control over the application and use of Indigenous data and Indigenous Knowledge for collective benefit.

## Protocol Labels

Protocol Labels outline traditional protocols associated with access to this material and invite viewers to respect community protocols.



TK Men  
Restricted  
(TK MR)



TK Women  
Restricted  
(TK WR)



TK Culturally  
Sensitive  
(TK CS)



TK Secret /  
Sacred  
(TK SS)



TK Verified  
(TK V)



TK Non-Verified  
(TK NV)



TK Seasonal  
(TK S)



TK Women  
General  
(TK WG)



TK Men General  
(TK MG)

# Case Study - Sydney Speaks



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Speech & Language Lab

Classics Museum »

» Research » Research projects » Sydney Speaks Project » Sydney Speaks Project

## Sydney Speaks Project



### Sydney Speaks: Language variation and change in a diverse society

This project seeks to document and explore Australian English, as spoken in Australia's largest and most ethnically and linguistically diverse city – Sydney. The title “Sydney Speaks” captures a key defining feature of the project: the data come from recorded conversations between Sydney siders, as they tell stories about their lives and experiences, their opinions and attitudes. This allows us to measure how their lived experiences impact their speech patterns.

# Sydney Speaks Licenses

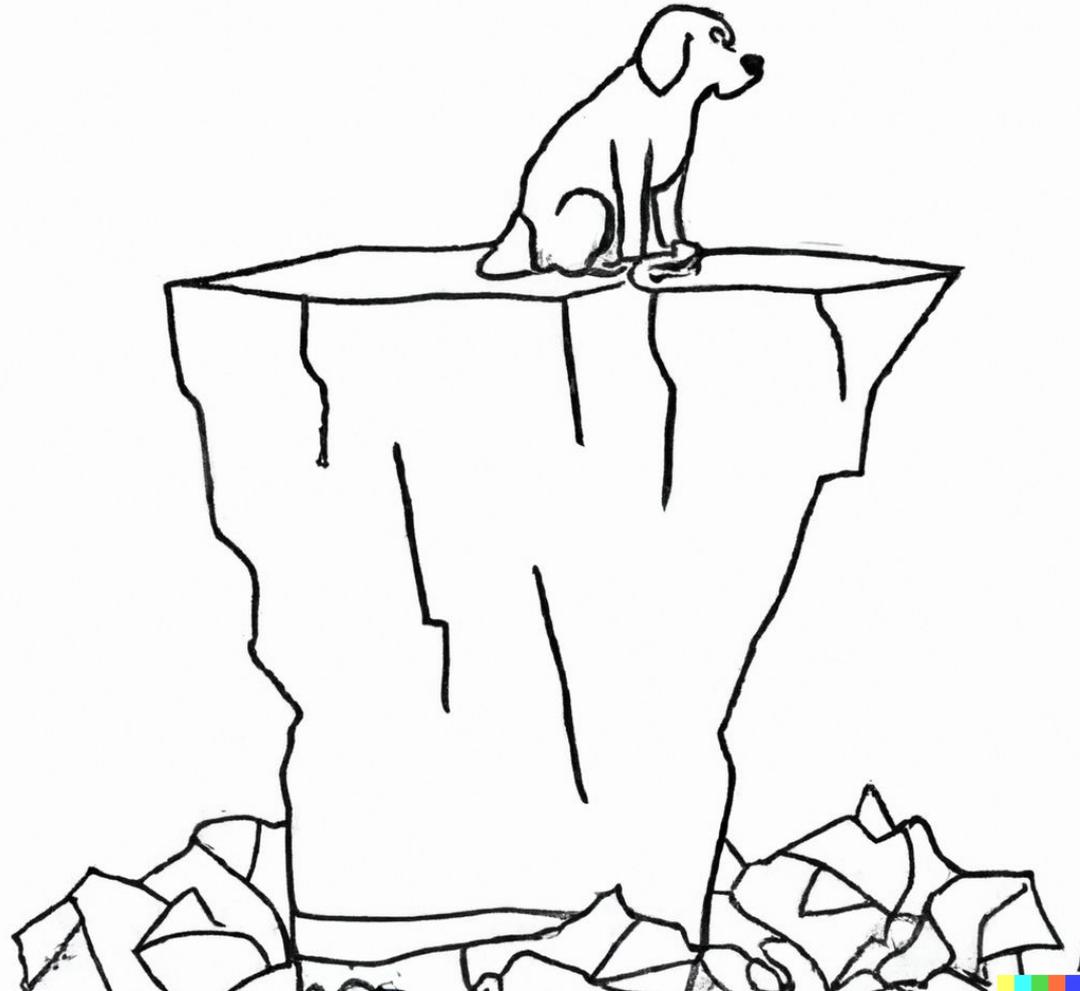
- A Data can be used by other researchers and excerpts can be played in public settings
- B Data can be used by other researchers and excerpts cannot be played in public settings
- C No access (no consent for sharing with other researchers)
- D Data unavailable (not anonymised, transcription incomplete, no consent for including audio in web-based projects)



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## Archival Repository

Dataset 2

...

Dataset n

### Dataset 1

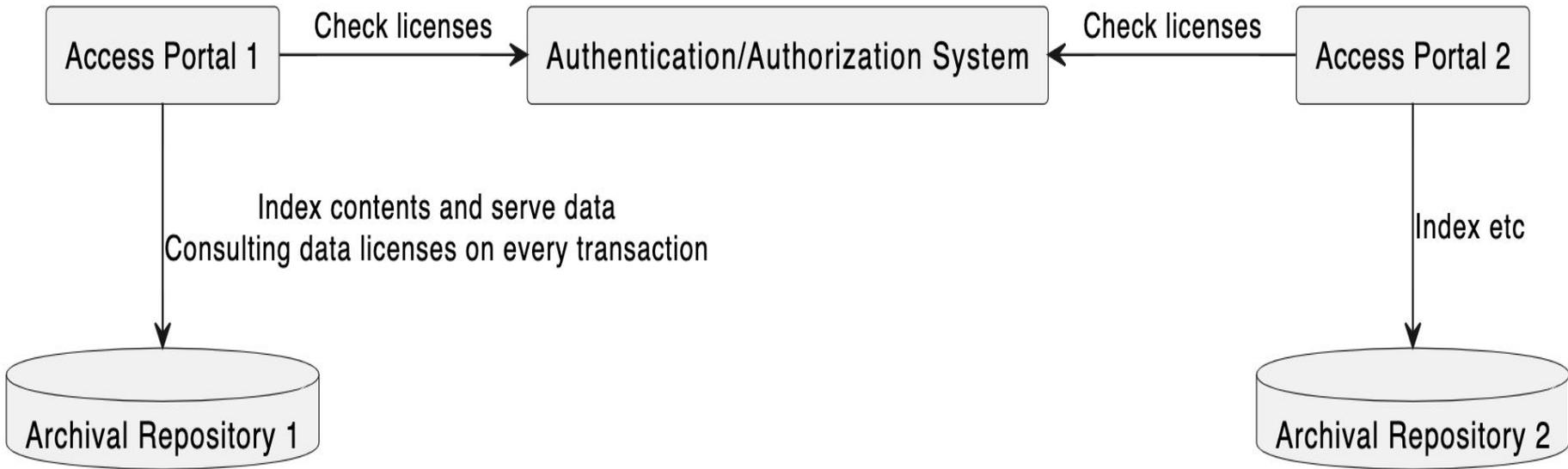
ro-crate-metadata.json

Describes in detail

data\_dir

Dataset has license.txt ("MyStudy Data Reuse License")

License.txt





# Australian TextAnalytics Platform

[SIGN IN WITH GITHUB](#)

Admin login

### User Memberships

Member of the following groups:

- sydney-speaks-license-a
- sydney-speaks-license-b
- sydney-speaks-license-c

github.com/orgs/text-commons/teams

Search or jump to... Pull requests Issues Marketplace Explore

## text-commons

Overview Repositories Projects Packages **Teams 4** People 9 Settings

Find a team...

<input type="checkbox"/> Select all	Visibility
<a href="#">sydney-speaks-license-a</a> <small>https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/</small>	9 members
<a href="#">sydney-speaks-license-b</a> <small>https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/B/</small>	4 members
<a href="#">sydney-speaks-license-c</a> <small>https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/C/</small>	4 members
<a href="#">sydney-speaks-license-d</a> <small>https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/D/</small>	4 members

# CILogon: An Integrated Identity and Access Management Platform for Science

CILogon enables researchers to log on to cyberinfrastructure (CI). CILogon provides an integrated open source identity and access management platform for research collaborations, combining federated identity management ([Shibboleth](#), [InCommon](#)) with collaborative organization management ([COmanage](#)). Federated identity management enables researchers to use their home organization identities to access research applications, rather than requiring yet another username and password to log on. Collaborative organization management enables research projects to define user groups for authorization to collaboration platforms (e.g., wikis, mailing lists, and domain applications). CILogon implements the [AARC Blueprint Architecture](#) and the [REFEDS Assurance Framework](#).

CILogon supports over 4000 identity providers, including campus identity providers, GitHub, Google, and ORCID. Visit <https://cilogon.org/> to view the full list of identity providers and to try logging on with your preferred provider. See our [Add Identity Provider](#) page for details on configuring your identity provider to work with CILogon. Visit <https://demo.cilogon.org/> to see an example of how CILogon can be integrated with a web application. CILogon is a [research and scholarship](#) service provider in the [InCommon](#) federation, and CILogon is an [InCommon Catalyst](#). CILogon is an [open source](#) project, with source code in [GitHub](#).

For highlights of recent CILogon work, see:

- our [April 2022 MAGIC presentation](#)
- our [July 2021 IAM Online webinar presentation](#)
- our [AAF Project](#) with [Australian BioCommons](#)
- recent [InCommon News](#) about our support for [NSF CloudBank](#)
- recent [InCommon News](#) about our support for [JWTs](#)
- our [June 2022 TNC22 presentation](#)

🔴 FAILED

## Resource Entitlement Management System

Resource Entitlement Management System (REMS) is a tool for managing access rights to resources, such as research datasets.

Applicants can use their federated user IDs to log in to REMS, fill in the data access application and agree to the dataset's terms of use. The REMS system then circulates the application to the resource owner or designated representative for approval. REMS also produces the necessary reports on the applications and the granted data access rights.

REMS is a Clojure+ClojureScript Single Page App.

REMS is developed by a [team](#) at CSC – IT Center for Science.

You can try out REMS using the publicly available demo instance at [https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/](#)

### Getting started

- You can [run the application with Docker](#)
- or read the full [development documentation](#)
- or proceed to the [installation instructions](#).

### Releases

Currently, the REMS project aims to make small, frequent releases. R1 includes some breaking changes and database migrations where needed. Since REMS is undergoing active development, we will not guarantee compatibility for the API. However, all breaking changes are highlighted in the release notes.

# REMS

## Continue application

Unfinished applications:

Resource	Last activity ↓	
<a href="https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/">https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/</a>	2022-10-06 11:38	<a href="#">View</a>

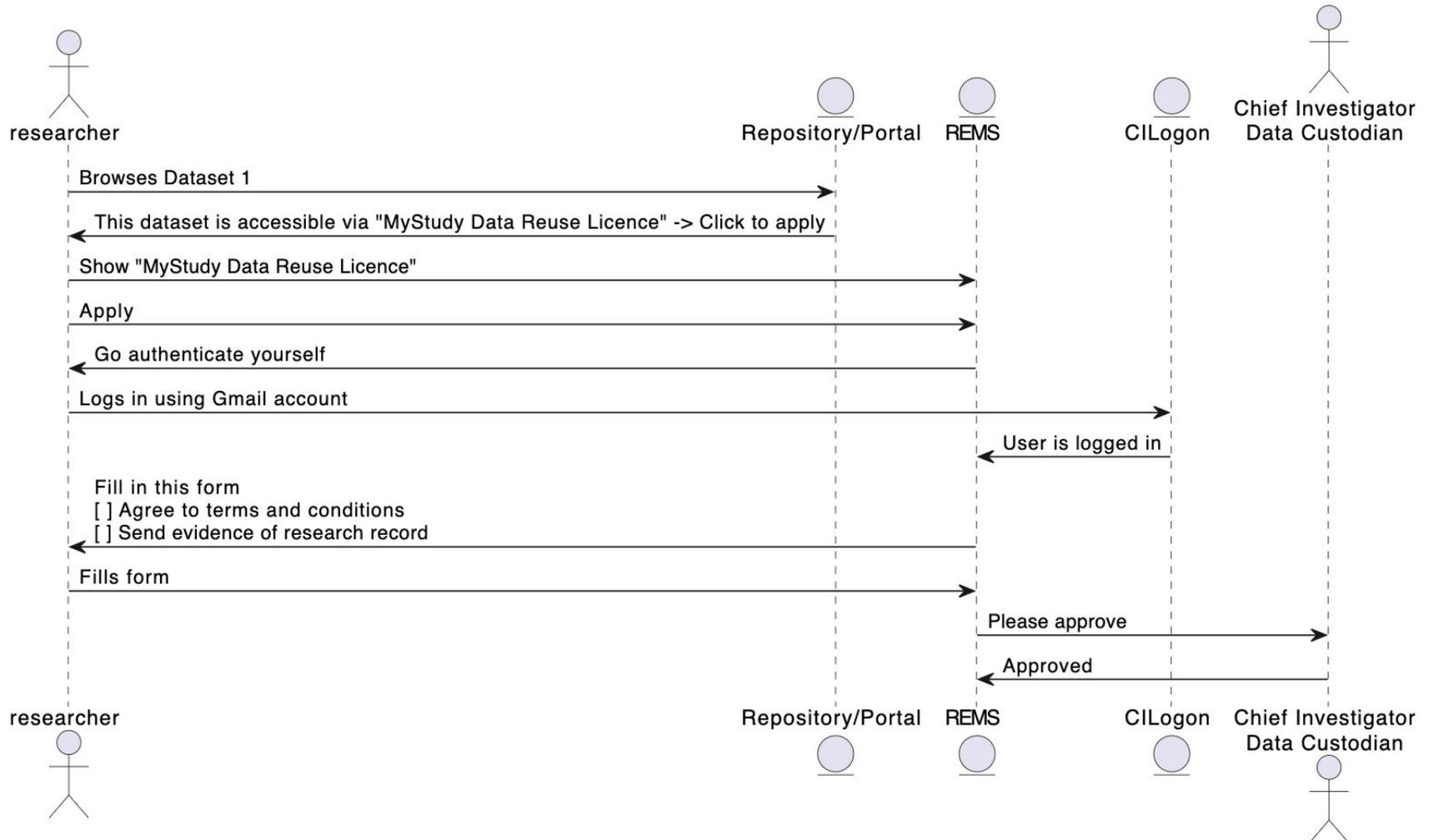
## Apply for access

Search

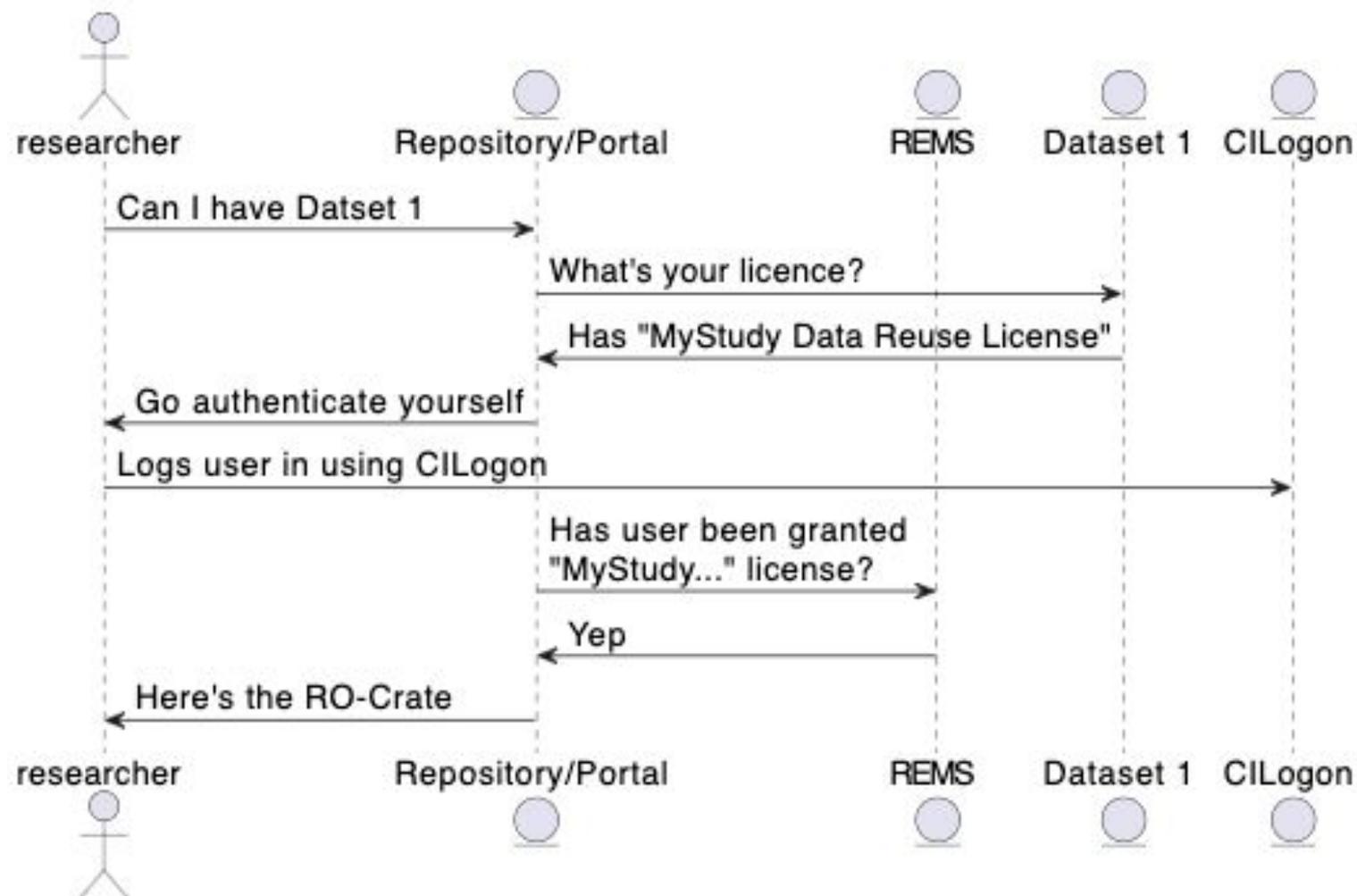
Resource ↑	
<a href="https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/">https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/A/</a>	<a href="#">🔗 More info</a> <a href="#">Apply</a>
<a href="https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/B/">https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/B/</a>	<a href="#">Apply</a>
<a href="https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/C/">https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/C/</a>	<a href="#">Apply</a>
<a href="https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/D/">https://www.dynamicsoflanguage.edu.au/sydney-speaks/licence/D/</a>	<a href="#">Apply</a>

Search

# REMS Authorization: Applying for a licence



# License Server w/ CILogon Authentication & REMS Authorization



# Demo





# Next Steps in the AAF Engagement .....

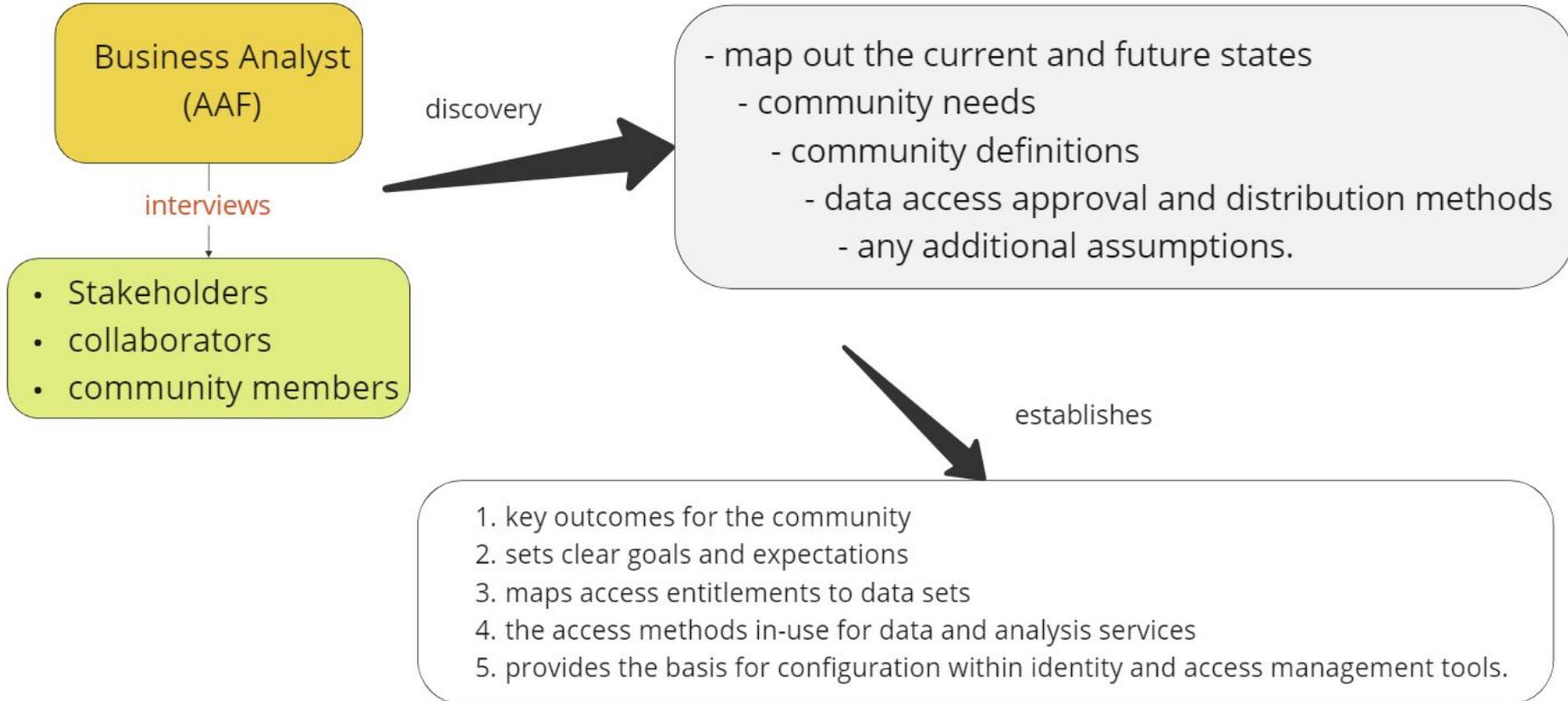
Revisit and consolidate the project's vision through interviews and engagement with

- stakeholders,
- collaborators and
- community participants

This next phase will provide the foundations for the development of policies to support the community. These will assist in creating a trusted community for access to sensitive data that supports the good practice and protocols.

These activities are outlined in the following slides ...

The AAF's business analyst conducts interviews with stakeholders and community members to discover and formalise the community's processes and requirements



# These feeds into the prototyping & implementing phase

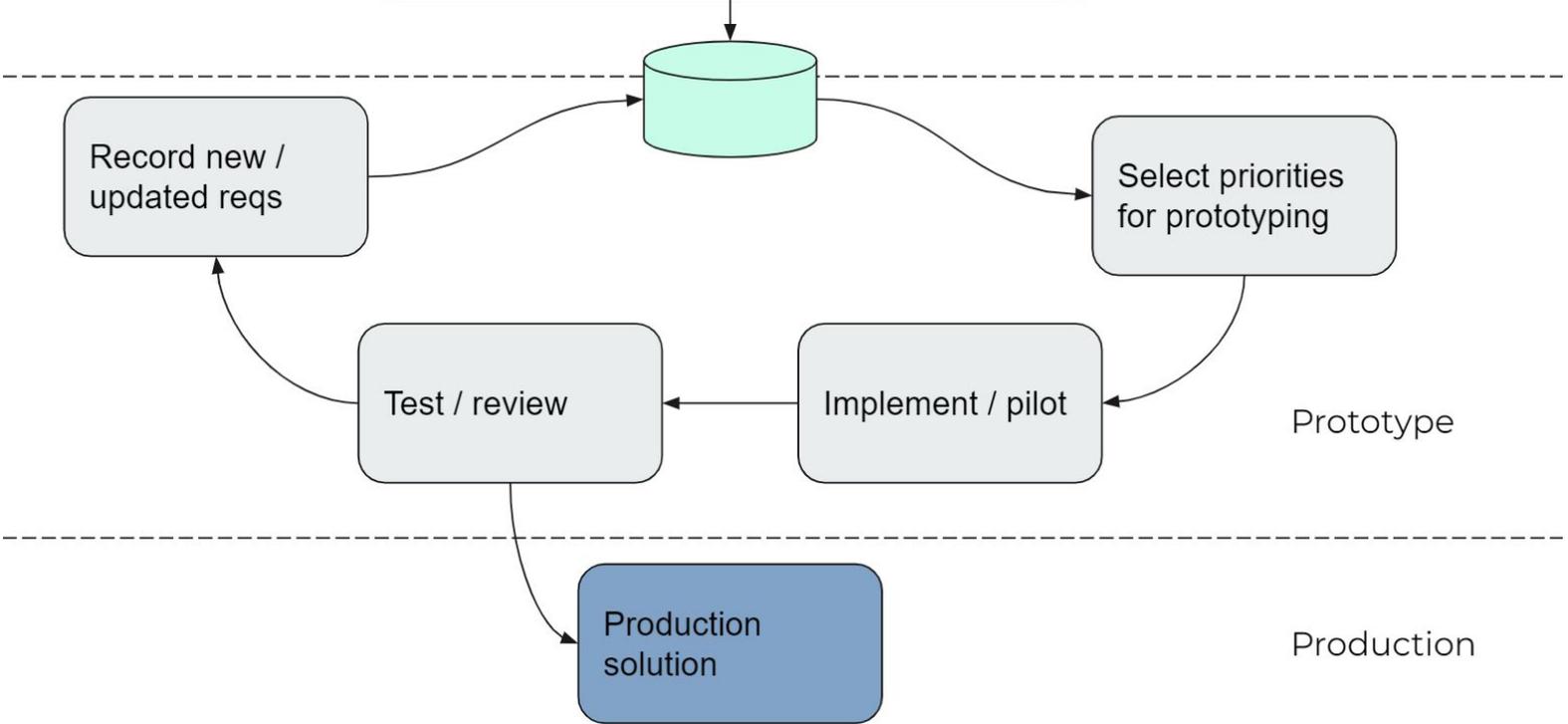


## Process

Requirements

- review background material
- interview subject matter experts
- validate and classify

Identify Requirements



Prototype

Production