# Platforms EOI: Data Cooperative (Data CO-OP) Platform

20 September 2019 at 12:52

## Project title
Data Cooperative (Data CO-OP) Platform

## Field of Research code(s)
- 08 INFORMATION AND COMPUTING SCIENCES
- 10 TECHNOLOGY
- 13 EDUCATION
- 14 ECONOMICS
- 16 STUDIES IN HUMAN SOCIETY
- 17 PSYCHOLOGY AND COGNITIVE SCIENCES
- 18 LAW AND LEGAL STUDIES
- 20 LANGUAGE, COMMUNICATION AND CULTURE
- 21 HISTORY AND ARCHAEOLOGY

## EOI Lead Name
Amir Aryani

## EOI lead Research Group
Social Data Analytics Lab

## EOI lead Organisation
Swinburne University of Technology

## EOI lead Email

## Collaborator details

<table>
<thead>
<tr>
<th>Name</th>
<th>Research Group</th>
<th>Organisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Farmer</td>
<td>Social Innovation Research Institute</td>
<td>Swinburne University of Technology</td>
</tr>
<tr>
<td>Prof Timoleon Sellis</td>
<td>Data Science Research Institute</td>
<td>Swinburne University of Technology</td>
</tr>
<tr>
<td>Luis Salvador-Carulla</td>
<td>Centre for Mental Health Research</td>
<td>Australian National University</td>
</tr>
<tr>
<td>Dr Nasser Bagheri</td>
<td>Centre for Mental Health Research</td>
<td>Australian National University</td>
</tr>
<tr>
<td>Prof Sharyn Rundle-Thiele</td>
<td>Social Marketing</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Dr. Tom Verhelst</td>
<td>Regional Innovation Data Lab</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Prof Scott Baum</td>
<td>School of Environment and Science</td>
<td>Griffith University</td>
</tr>
<tr>
<td>Ass. Prof. Andreas Chai</td>
<td>Discipline Head of Economics and Business Statistics</td>
<td>Griffith University</td>
</tr>
</tbody>
</table>
The Data Cooperative (CO-OP) Platform aims to advance data-driven research by making access to linked datasets more effective and affordable. The main focus of this platform is supporting research in public health, social science and community wellbeing. This project builds on the foundation of cross-sectoral collaboration between universities, government and not-for-profit community sector organisations in Australia. The collaborator researchers in this project have a particular interest and expertise in place-based initiatives and applying a spatial lens to datasets for improving health and community services in relation to place. The platform will provide an evidence base that can be used to analyse and inform public health and social wellbeing interventions across local, regional, state and national levels and the consequent measurement and evaluation of their outcomes.

**Existing technology**

**Adopt**

1) Aggregating and linking open datasets, through national data repositories including Research Data Australia, ADA, APO, AURIN, and link the related work from National Library of Australia Trove.

2) Optimise the discoverability of these data packages, the platform will leverage the DataCite collaboration to disseminate the metadata records across global data services, including Google Data Search, Harvard Dataverse Network, and Elsevier Data Search.

3) Using 5 Safes Framework to govern secure Data CO-OPs

**Adapt**

1) Extend CKAN open source to work with Power BI business intelligence packages

2) Extend Schema.org for project ID
   Implement a JSON LD extension to propagate the results to Elsevier Data Search and Google Data Search

3) Implement DataCite Event Data in to CKAN

4) Implement Scholix, RAID into CKAN

5) Implementing Jupyter Notebooks for the Linked Data Packages

6) Extending GIS Mapping in PowerBI.

7) Integrate Trove API into the CKAN model for publication retrieval functionality

**Build**

This project will establish a governance model and focus group for the hybrid Data CO-OPs that include public and private data.

**Anticipated requirements**

**Annual funding**

$300,000 - $399,000

**Proposed length**

3 years

**Other information**

Other information you wish to provide

Co-Investment is based on the cash and in-kind (staff time) contribution from 5 universities.
## Terms

I agree to the terms

- Yes