

Integrated Research Infrastructure for Social Science Project Report

ARDC HASS RDC and Indigenous Research Capability Program

Milestone 2.1 **WP2 User requirements_ARDC_VocabularyRequirements_IRISS**.

LEAD ORGANISATION: Australian National University (ANU), Australian Data Archive (ADA), ANU Centre for Social Research and Methods (CSRM), Research School of Social Sciences (RSSS)

Partners:

- University of Queensland, Institute for Social Science Research (ISSR)
- University of Melbourne, Melbourne Institute
- Australian Urban Research Infrastructure Network (AURIN)
- Australian Consortium for Social and Political Research Inc (ACSPRI)

Authors:

30/13/2022

Questions	Response/Decision	Next Steps
Consent & scope – classifications		
Is there an ABS point of contact for ARDC?	ANU has Talei Parker, Jarrod Lange & Linda Skiller as contacts for: stakeholder engagement, geographic and Census services. ARDC will need to determine what point of contact is suitable for its purposes (as repository and broker).	AB and SM liaison. ARDC & ANU engagement with ABS on shared or delegated governance.
Have the target ABS classifications been identified?	Focusing on: Education, Age, Sex, State for Census demonstrator. Top tier: Education (ASCED) and Geography (ASGC & ASGS) (as a priority for the demonstrators). Occupation (ANZSCO) and Industry (ANZSIC) as candidates for phase 2 of IRISS. With Geography – unclear here on optimum place for authoritative geographic (names) vs geometric (spaces) and the role of Loc-I (passing on ABS content). Subsets: variables that appear in the 2021 Census data dictionaries relating to population and education and training . It may be important to focus on particular mnemonics e.g., HEAP , AGEP and SEXP for the demonstrator.	Plan for making Education top tier and population and education and training subsets across 2016 and 2021 Census data dictionaries machine accessible via RVA.
Does the project wish to express relationships between versions of classifications?	Yes – to classifications and variables. Unclear what the crossover is here with what's best to use RVA and Collectica for to make FAIR (classifications and variables respectively) to provide a national service (PID & referenceable).	Explore tech mix of Dataverse, Collectica and RVA (and Loc-I) as options for publishing and working with referenceable classifications and variables from Census data dictionaries for 2016 and 2021.
Has the project secured ABS consent for publishing ABS classifications via ARDC?	ABS content made publicly accessible is available under a CC-BY licence . If ABS wants to “own” the content on RVA (or elsewhere) this is idea. Alternatively, ADA can “guide” the development of the published output and maintain the procedural and technical documentation as a WP4 project output.	AB and SM liaison. ARDC & ANU engagement with ABS on shared or delegated governance.
Will ABS provide final review and acceptance of metadata and classifications published via ARDC?	As above.	As above.
Encoding & IRI resolution – classifications		
What source formats are available from ABS?	Currently only .csv by download. Ideally access to a more expressive and accurate version of this content e.g., SDMX.	As above.

Questions	Response/Decision	Next Steps
Who will encode the classifications? (ABS, ARDC, other)?	ARDC with support from IRISS team on approach and relevance to use case/s.	IRISS team are to technically test the reuse of Census data dictionary classifications and variables for 2016 and 2021 in RVA.
Does ABS or the project have a preferred approach to encoding? (SKOS, XKOS, other)?	Project requires SKOS & XKOS – any alignment with DDI codebook or lifecycle models is beneficial.	ARDC & IRISS team review informatics as part of tech assessment of Dataverse, Collectica and RVA.
Will ABS define an IRI pattern? Does ABS have a redirection service for resolution of IRIs to the ARDC host?	Not ABS no on either question. ARDC is viewed as the partner/broker with ANU in publishing and making ABS content referenceable. Advice by experts in this space might be sought on the best approach.	
Machine-readable question libraries and survey response formats		
Are there existing standardised approaches to modeling and encoding question libraries and survey response formats?	Exploring the potential for working with that idea of “cascading variables” and the role that Collectica might play as part of an informatics workflow for social science (along with Dataverse, RVA and LimeSurvey)	As above – Explore tech mix.
Are there existing examples of machine-readable registers of question libraries and survey response formats?	CLOSER (UK) use Collectica and they are an example of how DDI is used to encode survey and response information.	Explore the Collectica demo.
Integration		
What is meant and whether an approach has been selected, or will be developed? VASSAL will take classifications and vocabularies from ACDC (Census Demonstrator project) and SPIRE, and integrate with international vocabulary services such as the CESSDA	IRISS will deliver proof-of-concept work through the demonstrators (WP4). We are in process of understanding where/how the different tech fits into an informatics workflow for social science (to make it possible to reuse ABS content pre and post data collection and as part of data integration.	Create a template for capturing the informatics workflow.

Questions	Response/Decision	Next Steps
vocabulary service and DDI Alliance vocabularies		

Task Name	Priority	Assigned To	Due Date	Progress	Notes
IRISS				0 of 73 Done	
Support services development (techdev)	Medium	Ingrid Mason	08/31/23	Quarter	
Framework for survey integration	Medium	Steven McEachern	09/30/22	Empty	
Export AUSSA from LimeSurvey to commence data integration with ABS Census data dictionary	Medium	Adam Zammit	09/30/22	Empty	Start with 2016, move onto 2021
Socialise approach and results of reuse of ABS content with HILDA data and survey tool	Medium	Steven McEachern	11/10/22	Quarter	15 Sept & 10 Nov RWG meeting
Engage with ABS on ASGS their use of Loc-I	Medium	Steven McEachern	12/31/22	Quarter	Jarrold Lange & Laurent Lefort (ABS)
Demonstrate use of demo RVA and CV with ABS Census artefacts	Medium	Steven McEachern	12/31/22	Quarter	CV reuse and fixity
Import ABS Census categories and classifications in demo RVA	Medium	Rowan Brownlee	09/07/22	Three Quarter	2016 & 2021 Census dictionaries as reference-able
Import ABS Census concordances in demo RVA	Medium	Rowan Brownlee	09/30/22	Empty	2016 & 2021 using XKOS
Transition ABS Census categories and classifications to prod RVA	Medium	Rowan Brownlee	01/31/23	Empty	Presumes MOU with ABS is in place
Import ABS Census questions in demo RVA	Low	Rowan Brownlee	01/31/23	Empty	Exploratory only
Oversee technical management	Medium	Marina McGale	08/31/23	Quarter	
Specifications for IRISS services	Medium	Steven McEachern	09/30/22	Empty	
Specification for Vocabulary service (solutions architecture)	Medium	Rowan Brownlee	09/30/22	Empty	
Engage with partners on uptake of CV	Medium	Steven McEachern	08/31/23	Quarter	
Requirements for RVA services (existing/new)	High	Ingrid Mason	09/30/22	Quarter	
Results of working with ABS content RVA demo	Medium	Rowan Brownlee	08/31/22	Quarter	Census 2016, 2021 dictionaries
Meeting to discuss if/how Census data dictionary Qs and variables are suitably encoded with ABS	Low	Steven McEachern	12/15/22	Empty	
Support CV workshop Q4 2022	Low	Steven McEachern	12/15/22	Empty	
Update on internal ABS discussion on automation plans	High	Steven McEachern	08/31/22	Quarter	Linda Skiller & Talei Parker

Engage with ABS on MOU for governance	High	Adrian Burton	12/31/22	Quarter	Linda Skiller & Talei Parker
Manage partner requirements and engagement	Medium	Ingrid Mason	08/31/23	Quarter	
Workshop - documentation (as-is, to-be) DDI	Low	Ingrid Mason	08/31/22	Empty	Use AUSSA & ANU Poll
Workshop - harmonisation (as-is, to-be) R/Stata	Low	Ingrid Mason	08/31/22	Empty	Use AUSSA & ANU Poll