

Improving Indigenous Research Capabilities: Building an Aboriginal and Torres Strait Islander Data Commons Phase 2

Draft Project Plan for Public Feedback

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REVISION HISTORY

Version	Date	Editor	Summary of changes
2.0	12 Mar 2024	M LANGTON	Added the content in the sections
2.1	12 March 2024	K Smith	Updated the Deliverables and Milestones section

1. PROJECT INFORMATION

PROJECT TITLE	Improving Indigenous Research Capabilities: Building an Aboriginal and Torres Strait Islander Data Commons Phase 2
PROJECT START AND END DATES	1 July 2024 to 30 June 30 2028
CONTRACTING ORGANISATION	University of Melbourne
Project Lead Contact Person	Professor Marcia Langton
PROJECT MANAGER	Levi Murray
FOCUS AREA and ACTIVITY	Improving Indigenous Research Capabilities, HASS and Indigenous Research Data Commons, ARDC

1.1. Project aims, scope and outcomes

Background: The Indigenous Data Network

The Indigenous Data Network (IDN), led by Redmond Barry Distinguished Professor Marcia Langton AO FASSA FTSE, is a unique initiative that supports and enhances the capabilities of Aboriginal and Torres Strait Islander peoples, communities and researchers at the interface of research data science and Indigenous knowledge systems. Based at the University of Melbourne, the IDN connects individuals, communities, corporations, organisations, institutions and academic partners, nationally and internationally. The IDN partners recognise that Indigenous data are more than resources; they constitute a body of knowledge in digital and other forms, which





when used ethically and in accordance with human rights and accepted best practice standards, are critical to shaping Indigenous self-determined priorities for research and beneficial outcomes for communities and populations, and embody information that is an integral part of Indigenous identity, history and cultural heritage.

Project Aims and Scope

Representing the interests of Aboriginal and Torres Strait Islander researchers, corporations, organisations and communities across Australia, this project will build and extend on the work of national and international frameworks of Indigenous Data Governance (IDG) and Indigenous Data Sovereignty (IDS) to collectively strengthen the foundations of Aboriginal and Torres Strait Islander data governance, use, accessibility and management principles. Phase 2 of the IIRC project will extend the foundations developed in Phase 1, Indigenous Data Catalogue, resources and extensions, foundational Indigenous research data tools and infrastructure developed in the first phase. The Indigenous Data Network (IDN) and project partners will continue to build the Indigenous research capability program to enable Aboriginal and Torres Strait Islander peoples and researchers at the interface of research data science and Indigenous knowledge systems to have access to effective research data tools. The project will achieve this by working with Aboriginal and Torres Strait Islander data custodians, focusing on how Aboriginal and Torres Strait Islander communities engage with, and what they aspire to, in the governance of their data.







Figure 1: Project Plan Work Packages

The project will be delivered by a Foundation Stream (FS) focusing on Indigenous Data Governance and Sovereignty, and four parallel Sub-Streams (SS) of activities:

Foundation Stream (FS): Aboriginal and Torres Strait Islander data governance and sovereignty

The central objective of the FS is to promote collaboration among leaders in Indigenous Data Governance, Aboriginal and Torres Strait Islander communities, and others within the five categories of Indigenous data custodians (as defined in the Glossary). The FS activities in this work package have been designed to evaluate, enhance, and activate the use of Aboriginal and Torres Strait Islander Data Governance principles by IDCs. The activities will also intersect with, and inform all four sub-streams of activities.

The primary goal of the Foundation Stream (FS) continues to facilitate collaboration among Indigenous Data Governance leaders and stakeholders from Aboriginal and Torres Strait Islander communities across the five defined categories of Indigenous data custodians (see Glossary). Combined these activities continue to enable the assessment, improvement, and implementation of a distinctive set of Aboriginal and Torres Strait Islander Data Governance principles. These principles continue to guide the entirety of the project's streams and activities for Phase 2. This will also extend their influence beyond the project's duration, fostering a culturally secure and





respectful national research data ecosystem. In this process, due recognition will be given to the AIATSIS Code of Ethics and other publicly accessible relevant scholarship.

FS IN SCOPE

FS.1: Contextualised Indigenous Knowledge and research data governance

Phase 2 will continue to support the ongoing development of an Indigenous Knowledge and Research Data Governance Group for the Yirrkala township in Northeast Arnhem Land. This phase will prioritise Yolŋu leadership, in collaboration with the Yirrkala School, Djalkirri Foundation and Dhimurru Aboriginal Corporation in the contextualisation and data governance principles to refine a governance framework, processes and protocols for the appropriate collection, use (security, licensing and authentication), distribution (e.g. publication, media, other platforms), and storage of Indigenous research data within their region.

FS.2: Development and implementation of Indigenous Data Governance frameworks and processes for nationally significant IDCs

Indigenous data custodians (IDCs) across Australia require continued support in the development and embedding of Indigenous Data Governance Frameworks within their organisations, institutions and agencies. Current cataloguing, metadata labelling and other data management processes of many IDCs continue to have compliance issues with both the FAIR and CARE principles. Phase 2 will require maintaining attention to ensure that they are able to enhance their Indigenous data management. Working with key national IDCs (government agencies and Aboriginal community-controlled organisations), this activity will provide continuing support to IDCs in their develop and implementation of IDG frameworks. The following organisations will remain partnering with the IDN on this activity: Australian Institute of Indigenous Studies (AIATSIS), Australian Institute of Health and Welfare (AIHW), Australian Bureau of Statistics (ABS), Northern Australia Aboriginal Justice Agency (NAAJA), National Film & Sound Archive (NFSA), and National Imaging Foundation (NIF).

FS.3: Traditional Knowledge and Biocultural Labels for Aboriginal and Torres Strait Islander Data

This stream will continue the work of the IIRC Phase 1, working alongside partner organisations and other IDCs. This set of activities aims to: (1) assess current practices in Australian collections with regard to the use of Indigenous data governance principles to describe and make Indigenous data appropriately discoverable and accessible and available for re-use including through use of metadata tools such for traditional knowledge (TK-L and TK-N) and biocultural knowledge Labels and Notices (BC-L and BC-N); and, (2) identify gaps and opportunities for building capabilities associated with Indigenous data governance in Australia. This set of activities will develop and undertake a qualitative survey and in depth interviews to develop an evidence base about the current state of policies and practice associated with Indigenous data governance in Australian amongst diverse types of collections (e.g., artistic, archival, scientific). A report detailing this evidence base will be produced, along with proposals for how to promote and embed Indigenous data governance practices in Australian collections and institutions including strategies for training and capability building within institutions and in Indigenous communities

FS OUT OF SCOPE

Provision of IDS/IDG guidance for individual IDCs (e.g. organisations, research projects, government agencies) beyond those nominated. It is intended that the NIDG Framework and resources developed by the IIRC project will support individual IDCs.





Sub-Stream 1 (SS1): Indigenous research data catalogue resources and extensions

Building on the Indigenous data catalogue resources and tooling developed in the first Phase of the IIRC project, Phase 2 will continue to review, refine, and expand the IDN catalogue resources by capturing ongoing and more comprehensive metadata, developing data sharing methodologies and exploring additional use cases to apply the IDN catalogue profile and tools to a diverse range of Indigenous research data collections.

SS1 will ensure the inclusion of cases across multiple IDCs to refine and extend the Indigenous Data Network Catalogue Profile. Overarching aims of SS1 include:

- a. The expansion & refinement of the IDN catalogue (e.g., ongoing metadata capture).
- b. The ongoing development and application of data sharing methodologies and further use cases to apply the IDN catalogue Profile and tooling to a variety of Indigenous research data holdings.
- c. Strengthening security & authentication processes for Indigenous research data nationally
- d. Assessing the complexities of the different catalogue tooling under development, ensuring their adaptability across different sites and contexts.
- e. Maintenance, expansion & adaptation of catalogue tooling drawing on use cases within the Indigenous research community, including Aboriginal and Torres Strait Islander communities.

SS1 IN SCOPE

SS1.1: Expansion of the Indigenous Data Network Data Catalogue (IDNC)

Building on the Indigenous Data Network Demonstration Catalogue developed in Phase 1 of the IIRC Project, Phase 2 will expand this catalogue, adding metadata of nationally significant datasets held by the five IDCs, in the first instance, prioritising project partners and other Aboriginal Community Controlled Organisations (ACCO).

The Indigenous Data Network Catalogue (IDNC) is currently hosted on the IDN portal (idnau.org). In this second phase of the project, the IDNC will be linked to the IDN data repository, ARDC HASS-I repository, partner catalogues and repositories in a federated profile. The IDNC is not intended to be a central repository of raw data, nor a standalone catalogue. The IDNC will not replicate other catalogues, instead it will provide outward links to other catalogues to support their data findability. The IDNC will centralise the importance of a national, federated Indigenous research data commons by improving Indigenous research data findability; supporting the uptake of the IDN Catalogue Profile by other IDCs; supporting Indigenous data governance via IDC tooling and embedded frameworks.

SS1.2: Cataloguing Indigenous data held by Australian universities & development of supporting policy

This activity will include the development and/or extension of the IDN catalogue Profile and tooling, and IDN catalogue of data holdings within the following three Australian universities:

SS1.2.1: Led by The University of Melbourne the team will extend on the work of Phase 1 of the project, cataloguing Indigenous data held across the University, creating an UoM Indigenous Data Catalogue, applying the IDN catalogue Profile. This will include data held by Museums & Collections, the University Library (Scholarly Services) and research data collections across all departments, faculties and Institutes. Further, an Indigenous Data Governance policy framework will be developed and implemented within the University.

SS1.2.2: Led by The University of Queensland the team will extend on Phase 1 of the project, working with Queensland Aboriginal & Torres Strait Islander communities and UQ Anthropology Museum, to explore institutional Indigenous RDM in iterative relationship with the partnered communities; metadata improvements on special and research collections; exploration of, scoping, co-design and piloting developments in relation to new discovery methods and layers to enable ease of use for community partners; consideration of RDM systems and researcher practices new and future UQ research collections.





SS1.2.3: Led by the Australian National University: Continuations and extensions of the work undertaken in Phase 1 of the project, led by the ANU First Nations Portfolio, Indigenous Data Governance for ANU data cataloguing.

This exploratory work across all three tertiary education institutions will include co-written publications outlining the different approaches, challenges and pathways forward, and include further extensions to the IDN catalogue Profile.

SS1.3: Contextual application of the Indigenous Data Catalogue profile and tooling: Yirrkala School Language Production Centre community case study

The LPC archive houses an irreplaceable and endangered archive of half a century of bilingual education materials and other rare historical resources from diverse clan groups and Yolŋu organisations within the North East Arnhem Land region. The collection is vast and varied, encompassing fragile photographic negatives, thousands of photographs dating back to the 1930s, extensive and unique cartographic materials, multimedia recordings across five formats, scarce local publications, and other priceless artefacts, each reflecting the rich cultural and historical tapestry of the region. This activity will continue the work commenced in Phase 1, working with the LDaCA project in a shared package to support the digitisation and cataloguing of the Yirrkala Bilingual School Literature Production Centre (LPC) archive in Northeast Arnhem Land.

SS1.4: Maintenance, enhancement and extensions of the IDN catalogue resources and tooling

Unique to stage 2, the vocabularies, AgentsDB, IDN Catalogue Profile and Scores calculator and information form are providing the set of reference material for Indigenous cataloguing. While established in Phase 1 of the Project, this material will require further maintenance across Phase 2. Extending enhancements to the Reference Material for Indigenous cataloguing will also need to be undertaken, including adding new assessment methods for Indigenous data, expanding Indigenous categories for semi-standardised representation reference data. The Agents Database and Indigenous reference spatial datasets will also be further expanded. Further, the User Interface for the IIRC central domain will be upgraded and refined via broad consultations with different user groups from IDC communities.

SS1 OUT OF SCOPE

Digitisation and cataloguing of Indigenous data of universities beyond those set out in SS1.2. The methodologies developed and refined will be made publicly available and are intended to provide support and guidance to other research institutions to undertake their own digitisation and cataloguing of Indigenous data.

Supporting the development of bespoke guidelines/standards for individual organisations and institutions beyond the case studies articulated in SS1.

Place-based consultations for user interface upgrade and refinements (beyond identified case studies with IDCs).

Sub-Stream 2 (SS2): Indigenous spatio-temporal frameworks and infrastructure

Place carries significant social, cultural, and economic value for Aboriginal and Torres Strait Islander communities. During Phase 1 of the IIRC project, an Indigenous Spatio-temporal Framework was created to prioritise and make decisions for these communities. SS2 intends to expand the Framework's application by testing new methodologies and developing advanced geospatial research tools. The goal is to make the Framework accessible to a wide range of organisations, institutions, and agencies throughout the nation, enabling better decision-making and understanding of Indigenous landscapes.





SS2 IN SCOPE

SS2.1: Enhancement of Indigenous data representations: Fuzzy mapping

In Phase 1 of the IIRC project, some novel forms of data were trialled, including representations of fuzzy geometries for Indigenous areas and multi-language representations of Indigenous place names. Key activities will include:

- Demonstrating spatial reference datasets that use fuzzy geometries within existing spatial datasets
- Tests the utility of a fuzzy spatial reference dataset to determine if its visualisation and querying support Indigenous research capabilities
- Testing the inclusion of Indigenous names within a jurisdictional Gazetteer

SS2.2: Ongoing ingestion and stratification of geospatial components of data and data assets.

Continuing the work of Phase 1, this activity will continue to increase the number and quality of the spatial reference datasets at <u>https://data.idnau.org/s/datasets</u>

By doing so, this activity will:

- Bring more Indigenous reference data into machine-readable form (e.g. AIATSIS, AIHW, ABS data).
- Allow for better assessment of Indigenous status of data, as there will be additional Indigenous locations to cross check data's metadata and content against.
- Improve cataloguing search skill due to more spatial objects for data to be associated with and spatial intersections searching.

SS2.3: (Re)Mapping Indigenous geospatial boundaries: Indigenous Knowledges and linguistic methods Significant ongoing work with Indigenous communities and knowledge holders will continue with the application of linguistic methods, enabling the mapping and re-mapping of Indigenous geospatial boundaries. The inclusion of Aboriginal and Torres Strait Islander songs, dance and ceremonies continues to test new methodologies that are critical in the development of tools and resources.

SS2 OUT OF SCOPE

The implementation and rollout of Indigenous data mapping interface that includes multiple layers: socioeconomic, education, cultural, social indicators is out of scope in this phase, the technical architecture will have the mechanisms to facilitate this functioning in the future.

Sub-Stream 3 (SS3): Data capability building for Indigenous digital futures in Indigenous Australia

Indigenous data capability building involves strengthening the ability of Indigenous communities and organisations to collect, manage, analyse, and utilise data that is relevant to their needs. Its purpose is to empower Indigenous peoples by giving them control over their data for decision-making, policy development, and community advancement. By building data and digital capacity, the principles of Indigenous Data Sovereignty are also supported, ensuring that Indigenous communities have access to resources, training, and support for data management and analysis to self determine their digital and data capability. In the context of SS3, training will be developed and provided to various Indigenous research communities, researchers working with Indigenous data, and the five categories of IDCs.

SS3 IN SCOPE

SS3.1: Researcher upskilling in Indigenous data governance





Underpinning the work of Phase 1 of the IIRC Project, this activity will focus on systematic identification of barriers and enablers to building sustainable pathways for educational and career pathways for Indigenous peoples and professional development for non-Indigenous people, focusing on early career researchers and IDCs.

This will include exploring a multimodal delivery and pedagogical approaches to ensure best practice and outreach regardless of location.

SS3.2: Supporting research data literacy and management within Aboriginal and Torres Strait Islander communities and organisations

Fostering empowerment, self-determination, and informed decision-making, the development of research data literacy and management resources will continue to be expanded through:

- The ongoing digitisation and Indigenous data catalogue training program for Aboriginal community-controlled sector: Yolŋu use case
- Capacity building for data management in the Aboriginal community-controlled sector with a focus on building operational ability: NAAJA Use Case
- Development and delivery of Aboriginal community data literacy resources, focused on South East Queensland Aboriginal and Torres Strait Islander communities.

SS3.3: International Indigenous data upskilling: Global classrooms initiative

The Global Classrooms Initiative is an educational program developed by the United Nations Association of the USA (UNA-USA). The initiative aims to promote global citizenship and international cooperation among students and educators worldwide. It provides resources, training, and curriculum support to schools and teachers to integrate global issues and the work of the United Nations into their classrooms.

SS3.3 will extend on Phase 1 to continue the fostering of global collaborations particularly within Asia - Pacific universities. It will look to extend the current delivery of local Indigenous Studies programs, offering the UoM MPH Indigenous Data Governance course in low, medium and high touch, and hybrid modes of the Global Classrooms initiative. It will also explore the development of a global collaborative educational network including a collaboration with Hokkaido University for the Ainu engagement within the annual ARDC computational summer skills school.

SS3 OUT OF SCOPE

Embedding training and capacity-building into other training.

Adoption of a mainstream open-source CMS framework.

Sub-Stream 4 (SS4): Indigenous data repositories and data rematriation

Rematriation is a concept commonly used in Indigenous contexts, referring to the process of returning, restoring, and repatriating data, cultural materials, artefacts, and knowledge to Indigenous communities. When applied to Indigenous data, rematriation involves transferring control and ownership of the data back to the Indigenous communities from which it was originally collected or stored. This recognises that Indigenous data is not merely a resource but an integral part of Indigenous identity, cultural heritage, and self-determination. SS4 will also investigate various types of data repositories needed for diverse Indigenous data custodians, with future plans to





expand data holdings. This sub-stream prioritises refining, developing, and utilising data repository services to support critical and at-risk Indigenous data holdings identified during Phase 1 of the project.

SS4 IN SCOPE

SS4.1: Culturally appropriate and sustainable data storage options for Indigenous data collections Ensuring Indigenous data collections are stored in a manner that is both culturally relevant and sustainable is paramount. It recognises the sovereignty and critical importance of Indigenous knowledge, safeguarding their autonomy over data management and control. The continued development of robust, usable and sustainable storage methods will provide the conservation of precious traditional knowledge for posterity. Developing and implementing community-led governance models to safeguard sensitive information will enhance collaboration between Indigenous groups and academic researchers. Such practices underscore self-determination, honour Indigenous principles, and facilitate the development of a data management framework that is inclusive and fair. This activity will work in partnership with Indigenous community groups and organisations (e.g. Mulka Project, Milingimbi Art and Cultural Centre, Southern West Yiradyuri Clans Land, Water and Sky Country Aboriginal Corporation) to support their RDM.

SS4.2: Indigenous data governance, cataloguing and rematriation across international borders. Indigenous data governance, cataloguing, and rematriation can be complex when working across international borders. Data collected by researchers, institutions, or governments in one country may pertain to Indigenous communities spanning multiple nations. In such cases, collaboration, partnerships, and respectful engagement are crucial to ensure cross-border data governance and management. It requires navigating legal frameworks, respecting different jurisdictional systems, and establishing agreements to honour Indigenous rights and community preferences. For this activity, we will continue to develop IDG protocols for legacy and new Indigenous research data focusing on two case studies:

SS4.2.1: Yolŋu-Makassan historical and contemporary data sharing

Historical and contemporary data sharing relies on the critical relationships between Yolŋu people of Arnhem Land and the Makassans (South Sulawesi, Indonesia). These relationships enable significant cultural exchanges (which historically were developed over centuries of trade and interaction). Continued collaboration with Yolŋu researchers and UoM investigators, in collaboration with Makassan Museums, archives and experts from Universitas Hassanuddin, is enabling the exploration and development of IDG protocols that bring together the data held in Makassar and Arnhem Land. This focus will result in a shared repository to enable better understandings of our shared past and its possible impacts on the future.

SS4.2.2: Karel Kupka Collection: Rematriation

Playing a key historical role in Australian arts both in Australia and Europe, the collections assembled in Arnhem Land by the Czech-born French artist and anthropologist Karel Kupka (1918-1993) are evidence of the figurative practices of Aboriginal groups in Arnhem Land. Continued work in the development of international collaborations will enable the creation of a data digital archive that is robust, sustainable and enduring which preserves the legacy of this history. Working with Milingimbi Art and Culture Centre (MACAC) and the national and international institutions holding Kupka's collections, continued activity will work to bring together Kupka's materials (art collections, personal archives, publications, photographs) to make them virtually accessible to the communities of origin across Arnhem Land. This activity will include supporting MACAC to develop their technical architecture, including its bespoke Djalkari Keeping Place database and associated data management systems by providing that supports their data access, governance and sovereignty priorities.





<u>SS4 OUT OF SCOPE</u> Any additional case studies.

Project Outcomes

The Improving Indigenous Research Capabilities project will facilitate the strengthening and extension of the foundational components of Indigenous social, technical and spatio-temporal research data architecture built in the first phase of the project. This second phase will dynamically refine, strengthen and extend on the work packages and activities via a process of ongoing testing and application to make them widely available to communities, organisations and government agencies nationally. Collaborations with Aboriginal and Torres Strait Islander communities and organisations in different cultural and geographical contexts across the nation via a series of co-designed case studies will ground the project outcomes, centralising Indigenous Data Governance & Sovereignty principles across the work.

The FS will govern all aspects of the project's streams and activities but will also have an enduring impact beyond the life of the project by cultivating a culturally secure and respectful national research data ecosystem.

This project will align with and inform broader policy and regulatory priorities, including the National Closing the

Gap Partnership Agreement (in particular, Priority Reform 4^[1]). The project will also address the regulatory environment, enabling institutions, agencies and entities to embed Indigenous data governance and sovereignty in practical and functional ways. Indigenous Data Custodians (IDCs) across all sectors are increasingly aware of the imperative of embedding Indigenous Data Governance within their practices and policy yet have limited knowledge or understanding of how to do so. Thus, the work undertaken within this project has the potential for broad national impact for research communities, in the first instance, but also for Indigenous data custodians across all sectors. This ambitious, innovative project further has the potential to locate Australia as the leader of Indigenous Data Governance and Sovereignty application on an international stage. Cumulatively the project team, project partners and work packages outlined in this Project Plan represent novel and progressive approaches to improving Indigenous research capabilities that will inform Indigenous research data custodians internationally.

1.4. Project Partners

The Improving Indigenous Research Capabilities project is a collaborative effort involving multiple project partners. These partners include leading Australian universities, research institutions, Indigenous organisations and government agencies dedicated to enhancing data capacity and capabilities of Indigenous communities in Australia. The project aims to address the unique challenges faced by Indigenous peoples in accessing and utilising research data and technologies. The project partners will work together to develop innovative approaches, tools, and resources that empower Indigenous research communities to engage with and benefit from data-driven research. By fostering strong partnerships between academia, Indigenous organisations, government agencies and research communities, the project seeks to bridge the gap between Indigenous knowledge and data science, contributing to the advancement and self-determination of Indigenous peoples in Australia. All project partners are Indigenous data custodians or are stakeholders with significant interests in building Indigenous research data capabilities.





ORGANISATION	SUBCONTRACTOR (Select box if YES)	SUMMARY
The University of Melbourne		The University of Melbourne (UoM) is an international leader in Indigenous research with a strong track record of both Australian competitive research grants and public sector research. The University is committed to respectful partnerships and collaborations with Indigenous communities and organisations across our research activities. The University prioritises Indigenous research and invests in flagship Indigenous research initiatives. The most recent of these is the Indigenous Knowledge Institute, which launched in 2020 with unprecedented core funding support of \$6 million over an initial five years to help sustain and advance research into Indigenous knowledge systems. The University's other flagship Indigenous research initiatives include the Indigenous Studies Unit (responsible for the coordination of the Indigenous Data Network), Onemda Aboriginal and Torres Strait Islander Health and Wellbeing; Research Unit for Indigenous Studies Program, School of Culture and Communication. The University's leading Indigenous researchers also work in collaboration with the Melbourne Institute of Applied Economic and Social Research, and the Evaluation and Implementation Science Program in the Centre for Health Policy. The University of Melbourne is the lead contracting organisation for this project.





Australian National University	As Australia's national university one of
Australian National Oniversity	As Australia s flational University, one of
	Australian National University's (ANU)
	defining roles is to contribute to the
	advancement of Australia's Indigenous
	peoples. We host some of the nation's
	best Indigenous academics who are
	enthusiastic about nurturing and
	mentoring the next generation of
	academic leaders from across the country
	and around the world. ANU is a place
	where First Nations peoples and cultures
	are respected, celebrated and reflected in
	our research and education. As a branch
	of the University's executive, the First
	Nations Portfolio works across the
	University to ensure the ANU is a world
	leader in teaching and research of First
	Nations issues as well as ensuring that the
	University makes a leading contribution to
	national policy in the relationship
	between Indigenous Australians and the
	nation. The University is committed to
	research excellence and supports
	meaningful collaboration with Indigenous
	communities through a range of Centres
	and initiatives including the Tjabal
	Indigenous Higher Education Centre, the
	Centre for Aboriginal Economic Policy
	Research, the Australian Centre for
	Indigenous History, The National Centre
	for Indigenous Genomics, Mayi Kuwayu:
	The National Study of Aboriginal and
	Torres Strait Islander Wellbeing, and the
	ANU Grand Challenges - Indigenous
	Health and Wellbeing project. The ANU
	will make contributions to the Foundation
	Stream and Sub-stream 1.





Queensland University of Technology	The Oueensland University of Technology
Queensiand Oniversity of Technology	(OUT) Contro for Data Science
	(QOT) Centre for Data Science
	encompasses about a nundred
	researchers from across the University,
	with a vision of developing methods for
	better use of data to benefit the world.
	Their core research focus includes fields
	of data management and governance,
	data analysis and visualisation,
	human-focused data science, and
	data-focused decision-making. Their
	researchers bring expertise in a wide
	range of areas of potential relevance to
	the IDN, including statistics and machine
	learning, information science, health,
	environment, business, industry, digital
	media and more. The CDS is also a lead
	node in the Australian Data Science
	Network, which connects around 25
	research centres in data science across
	the country. CDS also works with the
	Carumba Institute for Indigenous research
	and education. Professor Peter Anderson
	is the Institute's Director and the CDS and
	CI are currently working on a number of
	joint research projects as well as student
	centred research programs. QUT will
	make contributions to the Foundation
	Stream and Sub-stream 3.





University of Queensland	The University of Queensland (UQ) has
onversity of Queensiana	the Indigenous leadership and researcher
	context necessary for such project
	activity Forty (10) Indigenous academics
	teach and/or research at IIO a dozen of
	whom are in the Faculty of Humanities
	and Social Sciences, LIO HASS also
	and Social Sciences. OQ HASS also
	sultural data most notably in its
	Anthropology Museum lod by Indigonous
	Anthropology Museum led by Indigenous
	Director, researcher and Aboriginal
	anthropologist, Michael Aird. HASS also
	trains future indigenous researchers
	across 16 higher degree by research
	candidatures. Creative Industries
	researcher and Wakka Wakka and
	Gooreng Gooreng woman, Sandra Phillips
	as HASS Associate Dean (Indigenous
	Engagement) maintains a strongly
	collaborative ethos across the faculty and
	through seminars and frequent
	consultation promotes robust dialogue
	and exchange about researcher practice.
	Public health researcher, Bronwyn
	Fredericks as PVC (IE) leads UQ-wide and
	challenges all of us to be better. The UQ
	environment is one that can lead and
	produce Indigenous data commons
	project activity that leverages the best of
	emerging standards including those of
	compatibility and interoperability and the
	best of long-held values and priorities of
	Indigenous peoples to improve
	Indigenous researcher capability. UO will
	make contributions to the Foundation
	Stream and Sub-stream 1





University of Adelaide	The University of Adelaide (UoA) located
Oniversity of Adelaide	in South Australia, is renowned for its
	commitment to fostering Indigenous
	education programs and strategies
	Perceptising the importance of promoting
	Aboriginal and Torres Strait Islander
	knowledge cultures and perspectives
	the University has developed
	comprohensive initiatives to support
	comprehensive initiatives to support
	Through its Indianneus Education
	Through its indigenous Education
	Strategy, the University aims to provide
	culturally appropriate learning
	environments, increase Indigenous
	student participation and success rates,
	and enhance engagement with
	Indigenous communities. The University
	of Adelaide offers a range of academic
	and support services tailored to meet the
	unique needs of Indigenous students,
	including access to Indigenous Tutorial
	Assistance Scheme (ITAS) and culturally
	sensitive mentoring programs. By actively
	engaging with Indigenous communities
	and incorporating Indigenous knowledge
	into its curriculum, the University of
	Adelaide strives to create an inclusive and
	respectful educational environment that
	celebrates and empowers Indigenous
	cultures and peoples. UoA will make
	contributions to the Foundation Stream.





Griffith University	Grimith University (GU) recognises and
	values the rich cultural heritage and
	contributions of Indigenous peoples, and
	actively works towards fostering
	reconciliation and creating positive
	change in Indigenous communities.
	Griffith University has established various
	initiatives and programs to support
	Indigenous students, enhance their
	educational opportunities, and promote
	cultural understanding. These include the
	Gumurrii Student Support Unit, which
	provides personalised assistance and
	guidance, as well as the Deadly Choices
	program that focuses on improving health
	outcomes for Aboriginal and Torres Strait
	Islander peoples. Through research,
	collaborations, and partnerships, Griffith
	University strives to empower Indigenous
	voices, preserve traditional knowledge.
	and address the socio-economic
	disparities faced by Indigenous
	communities.
	GU will make contributions to the
	Foundation Stream and Sub-stream 3.





	_	
Australian Institute of Aboriginal and Torres		The Australian Institute of Aboriginal and
Strait Islander Studies		Torres Strait Islander Studies (AIATSIS) is
		Australia's national institute dedicated to
		Aboriginal and forres Strait Islander
		peoples knowledge, societies and
		cultures. We are both the custodian and
		repository of Australia's fiational
		Islander heritage materials and one of
		Australia's publicly funded research
		agencies Among ALATSIS statutory
		responsibilities are to provide leadership
		in Aboriginal and Torres Strait Islander
		research, research ethics and use and
		protocols for collections related to
		, Aboriginal and Torres Strait Islander
		peoples., AIATSIS published the Code of
		Ethics for Aboriginal and Torres Strait
		Islander Research in 2020 which includes
		guidance on ethical practice in relation to
		Indigenous data. AIATSIS contributes to
		meta data standards, through AIATSIS
		language thesaurus/Austlang. In 2018
		AIATSIS established the Indigenous
		Research Exchange. The purpose of the
		Indigenous Research Exchange is to
		connect people and ideas, build the
		Torres Strait Islander peoples' decision
		making and inform policy and practice.
		key element of the Indigenous Research
		Exchange is the Knowledge Exchange
		Platform, a portal that aims to provide a
		central discovery point for Indigenous
		research and data that:
		 showcase and support
		Indigenous knowledge
		translation.
		• is a powerful resource for
		Indigenous leadership and
		community-led decision
		making





	 support nation-building
	through specific nation-based
	data
	• promote IDG, IDS and
	self-determination
	• change the narrative on
	Indigenous data collection,
	use and ownership; and
	 provide links and networks to
	other data sources and
	knowledge repositories,
	including the wide range of
	information available within
	AIATSIS.
	AIATSIS will make key contributions to the Foundation Stream and all Sub-streams.
Empowered Communities	First established in 2013, Empowered Communities (EC) is a nation-wide initiative designed and led by Aboriginal people to shift the 'top-down' approach to Indigenous affairs in Australia. The EC approach focuses on supporting Aboriginal empowerment, development, and productivity to address issues of social and economic disadvantage. EC shifts away from an Indigenous affairs agenda to a 'comprehensive Indigenous Empowerment agenda' that includes long-term reforms in partnership between Indigenous leaders, governments, corporations. EC will play a key role in the governance of the project and provide advice regarding community consultations and





Commonwealth Scientific and Industrial	As Australia's national science agency, the
Research Organisation	purpose of the Commonwealth Scientific
	and Industrial Research Organisation
	(CSIRO) is to solve the greatest challenges
	through innovative science and
	technology. These challenges can only be
	met through collaborative action involving
	the community, industry, government and
	research sectors. CSIRO operates through
	three lines of business: Impact science:
	Nine national research business units with
	focus on the biggest challenges facing the
	nation; National Facilities and Collections:
	managing infrastructure and biological
	collections for the benefit of research and
	industry; CSIRO Services: Commercial,
	customer-centric products and services
	for industry, government and the
	community. CSIRO has also established a
	whole of organisation Indigenous Science
	and Engagement Program, which includes
	the Office of Indigenous Engagement, and
	sits within CSIRO office of the Chief
	Scientist. CSIRO also has a strong
	indigenous STEIM education program,
	STEM Academy, CCIPO acknowledges the
	stein Academy. CSIKO acknowledges the
	and Torres Strait Islander people have
	made and continue to make to our
	culture the economy and science CSIRO
	is working with Indigenous communities
	and organisations to create
	Indigenous-driven science solutions that
	support sustainable futures for
	Indigenous peoples, cultures and Country.
	See here for examples of CSIRO
	Indigenous Science -
	https://www.csiro.au/en/research/indige
	nous-science.
	CSIPO will play a key role in the Constantial
	conce will play a key role in the Geospatial
	Sub-sureand and indigenous Data
	stream of activities





Kimberley Aboriginal Health Research Alliance	Kimberley Aboriginal Health Research Alliance (KAHRA) is an influential alliance led by Aboriginal people, for Aboriginal people, and our overarching goal is to improve and promote the health and wellbeing of Aboriginal people in the Kimberley through the development and application of practical health research. KAHRA are working to fundamentally change the model of regional and remote Aboriginal health research in the Kimberley, having communities and researchers engaged as equal partners at every step of the way. KAHRA will be involved in the Sub-stream
	3 activities and provide advice regarding community consultations and/or case studies in Western Australia.
Australian Bureau of Statistics	The Australian Bureau of Statistics (ABS) is the national statistical agency of Australia responsible for collecting, analysing, and disseminating official statistical information about the country. In its commitment to inclusivity and recognition of the importance of Indigenous data, the ABS has dedicated efforts to improve its work with Indigenous communities. The ABS conducts various surveys and data collection initiatives tailored to better understand the social, economic, and cultural aspects of Indigenous Australians. This involves collaborating closely with Indigenous representatives to ensure data collection methods are culturally sensitive and respectful of Indigenous values. By engaging in this ongoing effort, the ABS aims to provide accurate and comprehensive statistics that reflect the diverse experiences and needs of Indigenous peoples, contributing to better policy-making and promoting understanding and recognition of Australia's First Nations peoples. The ABS will make contributions to the Foundation Stream of the Project.





A vertue lieve location to a fille a lite and Malferra	The Australian Institute of Lealth and
Australian Institute of Health and Welfare	The Australian Institute of Health and Welfare (AIHW) is a renowned organisation dedicated to collecting, analysing, and disseminating health and welfare data in Australia. The AIHW plays a crucial role in understanding and addressing the health disparities faced by Indigenous Australians. Through its Indigenous work, the AIHW collaborates with Indigenous communities, government agencies, and other stakeholders to gather comprehensive data on various health indicators, including mortality rates, chronic diseases, mental health, and social determinants of health. By providing accurate and up-to-date information, the AIHW enables evidence-based policy development and targeted interventions to improve the health outcomes and wellbeing of Indigenous Australians. Its commitment to engaging Indigenous voices, respecting cultural protocols, and promoting data sovereignty ensures that the Indigenous work conducted by the AIHW is culturally sensitive and meaningful. The AIHW will make contributions to the Foundation Stream
National Film and Sound Archive	The National Film and Sound Archive (NFSA) preserves documents and artefacts that tell the stories behind Australian audio-visual industries and culture. The collections date back to 1935, making it one of the first audio-visual archives in the world. NFSA has been working to rematriate Indigenous cultural knowledge in the form of audio-visual material over the last few years. This includes establishing a hub in the town of Alice Springs to ensure that Aboriginal Australians can access material in a culturally safe manner. The NFSA is interested in data integration and the identification of people and places in their collection practices. Including the





		potential of AI analytics across large data sources to reduce labour intensive work. The NFSA will make contributions to the Foundation Stream and Substream 1 activities for the Project.
National Imaging Facility		The National Imaging Facility (NIF) of Australia is a key player in advanced imaging, offering expansive resources including equipment, expertise, and data analysis to support the nation's scientific and research endeavours. It operates a network across 14 nodes, providing unique capabilities in health, agriculture, materials science, and cultural heritage, to foster innovation and address research challenges. NIF is backed by significant investment from the Australian government and various state governments under the National Collaborative Research Infrastructure Strategy (NCRIS), ensuring Australia's leadership in the field of imaging. Its commitment to open access and collaboration with industry and academia aims to yield improvements in healthcare, product development, and knowledge discovery. The NIF will make contributions to activities in the Foundation Stream.
KurrawongAl	X	KurrawongAI is a small, Australian-based company enabling organisations to take control of their data. They use data modelling, data governance and data systems implementation expertise all based on Semantic Web and Knowledge Graph principles to ensure data is in the richest, most open and most extensible form it can be. KurrawongAI use knowledge graphs for data storage, as a transfer format, when serialised, and as inputs to advanced reasoning and data processing tasks, such as for Machine Learning and Artificial Intelligence applications. Kurr





1.5. Project team roles and responsibilities

[redacted for publication]

1.6. Governance

A Project Steering Committee is required and is accountable for assessing project performance. The Terms of Reference for the Steering Committee should be attached to this project plan (<u>ARDC will provide a Terms of</u> <u>Reference template</u>). At least one ARDC representative must be included in the Steering Committee.

1.7. Milestones and Deliverables

The following are the agreed milestones and deliverables for the project.

DELIVERABLE / WORK PACKAGE	RESPONSIBILITY (Org)	ARDC RESOURCES REQUIRED	START DATE	FINISH DATE
Foundation Stream (FS): Indigenous Data Governance and Sovereignty				
FS.1: Contextualised Indigenous Knowledge and research data governance				
<i>FS.1.1</i> Implement a co-designed Yolŋu-led Data Governance framework that aligns with Yolŋu governance systems, working with clan leadership.	UoM		1 July 2024	30 January 2027
<i>FS.1.2</i> Hold a 2-day workshop in Yirrkala with clan leaders in late 2024 to progress the Yolŋu Data Governance (YDG) framework.	UoM		1 October 2024	30 December 2024





<i>FS.1.3</i> Consultations with broader Northeast Arnhem Land community members on outcomes of 2-day workshop: including travel to relevant Homelands. Timeline and content to be directed and led by Yolŋu clan leaders.	UoM	1 January 2025	30 December 2025
FS.1.4 Work with Northeast Arnhem Land Yolŋu leadership to advocate for Indigenous Data Sovereignty of the LPC digital archive: consultations with Northern Territory Department of Education.	UoM	1 January 2025	28 April 2028
<i>FS.2.1</i> Continuing development and implementation of Indigenous Data Governance frameworks and processes for nationally significant partnering IDCs. This will include consultations, workshops, staff and management training.	UoM, AIATSIS, AIHW, ABS, NAAJA, NFSA, NIF	1 July 2024	28 April 2028
<i>FS.2.2</i> Hold annual workshops with Northern Australia Aboriginal Justice Agency (NAAJA) to embed and implement IDG measures across the organisation.	UoM, NAAJA	1 July 2025	28 April 2028
FS.3.1 Write and submit human research ethics application for FS.3.2	UniAdel, CSIRO	1 July 2024	30 November 2024
FS.3.2 Undertake interviews and survey to develop an evidence base on use of IDG principles through use of metadata tools such as TK and BC labels and notices amongst diverse types of collections (e.g., artistic, archival, scientific).	UniAdel, CSIRO	1 December 2024	30 September 2025
FS.3.3 Analyse survey & in-depth interviews and write a report detailing findings.	UniAdel, CSIRO	1 September 2025	30 February 2026
FS.3.4 Refine & adjust consistent and interoperable metadata conventions for appropriate discoverability, accessibility and use (e.g. TK & BC- labels and notices, vocabs, agreed terms etc.)	UniA, CSIRO, UoM	1 March 2026	31 December 2026





incorporating qualitative findings from FS.3.3			
FS.3.5 Use cases of metadata conventions trialled with 2-3 Indigenous communities and refinement of conventions.	UniA, CSIRO, UoM	1 Jan 2027	31 November 2027
FS.3.5 Development of resources and strategies for training IDGs how to apply metadata conventions.	UniA, CSIRO, UoM	1 December 2027	15 May 2028
Sub-stream 1 (SS1): Indigenous Data Catalogue Resources & Extensions			
SS1.1 – Expansion and ongoing maintenance of the Indigenous Data Network Data Catalogue (IDNC): continue ingesting metadata of Indigenous datasets held across Australia by IDCs, connecting to other relevant catalogues & adding to Agents Database.	UoM, KurrawongAl	1 July 2024	28 April 2028
SS1.2.1 Continue the cataloguing of Indigenous data held at the University of Melbourne using and refining the Indigenous Data Catalogue Profile. This will include metadata searching, triangulation, and Natural Language Processing techniques.	UoM, KurrawongAl	1 July 2024	28 April 2028
SS1.2.2 UQ Museums & Libraries will continue to undertake metadata improvements on their ID collections, partnering with Queensland Indigenous communities to explore, scope, co-design and develop pilots.	UQ, KurrawongAl	1 July 2024	28 April 2028
SS1.2.3 Continue with the cataloguing of Indigenous data held at the Australian National University using and refining the Indigenous Data Catalogue Profile.	ANU, KurrawongAl	1 July 2024	28 April 2028
SS1.3.1 Finalise digitisation Literature Production Centre Archive at Yirrkala, including digitisation of all non-standard documents, objects, materials in Archive.	UoM	1 July 2024	30 March 2025





SS1.3.2 Co-write and publish a resource with Yolŋu collaborators and Yirrkala School leadership, detailing the digitisation methods, including innovative methods developed as examples of adaptability.	UoM	1 January 2025	30 November 2025
SS1.3.3 Work with Yolŋu knowledge holders and technical team to refine metadata categories.	UoM	1 July 2024	30 November 2024
SS1.3.4 Metadata development and entry with Yolŋu knowledge holders (e.g. Prof Yalmay Yunupiŋu).	UoM	1 December 2024	30 November 2025
SS1.3.5 Complete documentation of how to structure a spreadsheet to create RO-Crates from files-on-disk.	UoM/LDACA	1 July 2024	30 January 2025
SS1.3.6 Use Crate-O to package files-on disk with metadata and natural-language licences.	UoM/LDACA	1 December 2025	30 March 2026
SS1.3.7 Develop, test and implement a discovery portal on a local area network. Set up distributed licensing using REMS.	UoM/LDACA	1 April 2026	1 May 2027
SS1.4 .1 Extending idnau.org (IIRC Project website) to incorporate resources, publications, project news & updates and information, outputs for all project streams and activities, tracking registrations, active users and uptake. Ongoing content delivery.	UoM	1 July 2024	28 April 2028
SS1.4.2 Broad consultations with IDCs and other user groups to enhance the user interface and UX of idnau.org	UoM	1 January 2025	30 November 2026
Sub-stream 2 (SS2) Indigenous Spatio-temporal Frameworks & Infrastructure			





SS2.1 Enhancement of Indigenous data representations: Fuzzy mapping extensions with ingestion of new geospatial assets.	UoM, KurrawongAl	1 July 2024	30 May 2025
SS2.2 Ongoing ingestion and stratification of geospatial components of data and data assets: Growing the number and quality of the spatial reference datasets started in Phase 1. Minimum of 5 datasets per year. https://data.idnau.org/s/datasets	UoM, KurrawongAl	1 July 2024	28 April 2028
SS2.3 Extraction and stratification of Indigenous geospatial data to establish reference points and polygons for digital mapping and referencing	UoM, KurrawongAl	1 July 2024	1 July 2026
Sub-stream 3 (SS3) Data capability Building for Digital Futures in Indigenous Australia			
SS3.1 Researcher upskilling in Indigenous data governance			
SS3.1.1 Scoping and testing multimodal delivery and pedagogical approaches to ensure best practice and outreach regardless of location.	UoM	1 July 2024	28 April 2028
SS3.1.2 Continuation of ARDC/IDN 12-month Indigenous Internship program: ARDC supported placement of Indigenous interns with IDN, building pathways to RDM careers.	UoM, ARDC	1 July 2024	28 April 2028
SS3.1.3 Develop Indigenous Data Catalogue Model & tooling training modules for the research community (produced in variety of formats: video, audio, text)	UoM, KurrawongAl	1 July 2025	1 July 2027





SS3.2 Supporting research data literacy and management within Aboriginal and Torres Strait Islander communities and organisations			
SS3.2.1 Continue the delivery of Indigenous data catalogue model training program for Aboriginal community-controlled sector: Yolŋu case study	UoM, QUT, AIHW	1 July 2024	1 June 2025
SS3.2.2 Continue capacity building for data management in the Aboriginal community-controlled sector with a focus on building operational ability: NAAJA Case Study	UoM	1 July 2024	28 April 2028
SS3.2.3 Continue the development and delivery of Aboriginal community data literacy resources, focused on South East Queensland Aboriginal and Torres Strait Islander communities.		1 July 2024	28 April 2028
SS3.3 : International Indigenous data upskilling: Global classrooms initiative			
SS3.3.1 Delivery of UoM IDG Master of Public Health subject course in low, medium and high touch, and hybrid modes of the Global Classrooms initiative.	UoM	1 July 2024	30 November 2026
SS3.3.2 Scoping and exploratory development of a global collaborative educational network, including a collaboration with Hokkaido University for the Ainu engagement within the annual ARDC computational summer skills school.	UoM	1 July 2024	28 April 2028
SS.3.3 Survey of IDCs to determine usefulness of data capability building resources to inform refinements/improvements.	UoM	1 Jan 2026	30 October 2027





Sub-stream 4 (SS4): Indigenous data repositories and rematriation			
SS4.1.1 Continue scoping and testing culturally appropriate and sustainable data storage options for Indigenous data collections with Indigenous community partners.	UoM	1 July 2024	28 April 2028
SS4.1.2 Develop open access resources in different formats (e.g. video, audio,text) offering advice and recommendations on a variety of data repository options for Aboriginal and Torres Strait Islander communities and community organisations.	UoM	1 July 2024	28 April 2028
SS4.1.3 Provide hosting options to Indigenous communities requiring repository storage for at-risk data within the IDN data repository (including extraction, cleaning, reformatting and merging).	UoM	1 July 2024	28 April 2028
SS4.1.4 Case Study 1: support Southern West Yiradyuri Clans Land, Water and Sky Country Aboriginal Corporation to co-develop a data repository, with a co-designed Indigenous Data Sovereignty framework.	UoM	1 July 2024	28 April 2028
SS4.1.5 Case Study 2: Support Indigenous businesses managing community data repository options: Kowa Collaborations (BDAC – 10+ collections)	UoM, Kowa Collaboration s	1 July 2024	28 April 2028
SS4.2.1 Case Study 3: Continue development of shared Yolŋu-Makassan data repository to enable better understandings of our shared past and its impacts on the future, including development of data sharing protocols and licensing.	UoM	1 July 2024	30 November 2026





SS4.2.2 Hold Workshop held in Arnhem Land with Makassan experts and Yolŋu leaders to co-design and contribute to a shared data repository.	UoM		1 March 2025	1 May 2025
SS4.2.3 Investigation of legislative, regulatory and data governance requirements to enable both-way rematriation of legacy and contemporary data.	UoM		1 January 2025	30 November 2026
SS4.2.4 Publication as a result of Case Study 3 of shared Yolŋu-Makassan data repository				
SS4.3.1 Case Study 4: Consultations with the Karel Kupka collection holding institutions (NMA, NGA, MQB-JC, Museum der Kulturen, MEG) and Milingimbi Arts & Culture to develop online. Research trips (Indigenous knowledge holders from Milingimbi/Yirrkala) to Canberra, Paris and Geneva-Basel for scoping, consultations and negotiations.	UoM		1 September 2024	30 March 2025
SS4.3.3 Provision of database specific advice & support to Milingimbi Art and Culture Centre on issues such as hosting, storage, backups and exploring how they can use the Djalkiri database technology for the public Kupka database.	UoM, KurrawongAl	Data and system architecture; storage and compute infrastructure.	1 July 2024	30 October 2027
SS4.3.4 Whole-of-system IT assessment of how the Djalkari database is situated within the broader Milingimbi Art and Culture Centre IT ecosystem to ensure IT systems are cohesive, efficient and sustainable.	UoM, KurrawongAl	Data and system architecture; storage and compute infrastructure	1 July 2024	30 November 2024
SS4.3.2 Systematic inventory of all artworks and documents related to Kupka's collections kept in Australia and Europe.	UoM		1 July 2025	30 March 2027





1.8. Visual Summary Overview

Still in development.

1.9. Assumptions

The following assumptions are made in order to deliver successful project outcomes.

ITEM #	CATEGORY (Scope/cost/quality)	DESCRIPTION
1	Data availability	Assuming that the necessary data required for the project is accessible and can be collected or obtained within a reasonable timeframe.
2	Resource Availability	Assuming that the required resources such as funding, equipment, software, and specialised personnel will be available to carry out the research effectively.
3	Stakeholder Cooperation	Assuming that relevant stakeholders, including participants, collaborators, or organisations, will actively participate and provide the necessary support throughout the research project.
4	Time constraints	Assuming that the research project can be completed within the allocated timeframe, considering potential delays, unforeseen challenges, and the availability of researchers and participants.
5	Research Design Validity	Assuming that the research design, methodology, and analysis techniques are appropriate and valid for addressing the research.
6	External Factors	Assuming that external factors, such as changes in legislation, political climate, or economic conditions, will not significantly impact the research project or its outcomes.
7	Generalisability	Assuming that the findings and conclusions drawn from the project can be generalised to a broader Indigenous research communities and data custodians.
8	Technological reliability	Assuming that any technological tools, platforms, or systems used for data collection, analysis, or dissemination are reliable, secure, and will function as intended.





1.10. (Inter)dependencies

DEPENDENCY	RELATIONSHIP TO / IMPACT ON PROJECT	HOW AND WHO WILL MANAGE THE DEPENDENCY
ARDC cloud computer and storage resources	Potential utilisation	Data Manager will engage with ARDC cloud computing and storage if necessary.
ARDC services	Potential utilisation of communications and engagement services & IDN intern	Project Manager will engage with ARDC Senior Science Communicator and Director of HASS & I Program.
Access to skilled staff to support the infrastructure	See Section 1.10	See section 1.10
Access to ARDC expertise	May request ARDC expertise as the need arises	Project Manager will liaise with Director of HASS & I Program
LDACA shared packages	See SS1.3.5, SS1.3.6 and SS1.3.7 in Section 1.7	Project Manager and Leadership will liaise with LDaCA Project Manager and Leadership

1.11. Risks

In the Controls/Mitigation Strategy section include what preventative actions you plan to take and/or actions you might take should the preventative actions fail to control the risk (i.e. what's your plan B?). These might include applying other in-kind resources, reviewing the plan and reducing scope etc.

Risk Rating Key

		Consequence				
		Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Significant (5)
Likelihood	Almost certain (5)	5	10	15	20	25





Li	ikely (4)	4	8	12	16	20
P	Possible (3)	3	6	9	12	15
U	Jnlikely (2)	2	4	6	8	10
R	Rare (1)	1	2	3	4	5

RISK	IMPACT TYPE AND HOW WILL IMPACT PROJECT (Scope/cost/quality/ schedule)	CONTROLS/MITIGATION STRATEGY	RESIDUAL RISK RATING (after controls are in place)	RISK OWNER
Ability to achieve all deliverables of the Project	Scope/Quality	Quarterly reviews will be conducted to assess progress, strengths and gaps that exist across the Streams by IDN and partner institutions. A specific template will be tabled at EPGC quarterly meetings to track progress and outcomes of the Activities of each Stream. Where barriers exist actions will be put in place to mitigate the risk to the Project.	2	Lead Investigator
Filling project positions: delays in recruitment.	Resource	Multiple avenues of advertising, actively searching for qualified staff using specialist recruitment agencies.	6	All Project Partner organisations recruiting for the project.
Deprioritisation and/or unavailability of Indigenous community participants for relevant co-designed,	Quality	Open, transparent and ongoing communications with community representatives participating in the project and ongoing outreach via IDN and Empowered Communities networks across Australia to ascertain other groups	9	Project team members collaborating with community participants, IDN & EC.





community-led case studies and activities	potentially interested in participating.	
impacting on schedule and costs.		

*Only include risks that have a rating of greater than 14 to the project.

1.12. Outputs and Outcomes Monitoring and Evaluation Plan

The indicators below specify what will be measured in the project M&E process in order to assess whether, and to what extent, the project's key intended outputs outcomes have been achieved.

End of Project Outputs are the deliverables achieved as part of the project.

Ουτρυτ	INDICATOR/ S	MEASURE	DATA SOURCE/S	TIMELINE FOR DATA COLLECTION	RESPONSIBILI TY	BASELINE
Output 1. Running and maintenanc e of the IDNC	End of project archiving of metadata and orphaned datasets on a long-term, secure cloud infrastructur e	Volume of rematriation requests and successful ingestion of external datasets on the archive	The data will be sourced by communicati on to and from external data holders. Through a secure transfer through Mediaflux and other cloud infrastructur e. The data will include both	Across the duration of the project	IDNC Catalogue Data Manager	Up to five or more data requests per quarter





			qualitative and quantitative.			
Output 2. Indigenous Data Catalogue Resources & Extensions	Indigenous Data Catalogue resources & extensions outlined in section 1.7, Sub-stream 1.	Commencement and progress towards activities outlined in section 1.7, Sub-stream 1.	Projet website	To commence by the first quarter of 2024	Project manager, SS1 Project team	Not applicable
Output 3. Training and educational resources on appropriate IDG that support IDCs, researchers and Indigenous communitie s	Demand for use, downloads, case study implementat ion	# downloads, qualitative & quantitative analysis of survey data	Project website, SS.3.4 Survey of IDCs, feedback from case study community participants	Across the duration of the project	Project Manager, SS3 Project team	Not applicable
Output 4. Standards, frameworks and tooling for indigenous data, metadata and research	Demand for use, downloads, case study implementat ion	# citations in publications and IDC reports detailing use	Project website	6 monthly	Project Manager, SS1 Project team	Not applicable





Output 5. Accessible spatiotemp oral framework and research tooling	Demand for use, downloads	# citations in publications and IDC reports detailing use	Project website	6 monthly	Project Manager, SS2 Project team	Not applicable
Output 6. Resources to support improved data repositories and Indigenous data rematriatio n	Demand for use, downloads, case study implementat ion	# citations in publications and IDC reports detailing use	Project website	6 monthly	SS4 Project team	Not applicable

End of Project Outcomes are the direct changes that occur from the outputs of the project that can be achieved within the timeframe of the investment.

OUTCOME	INDICATOR/S	MEASURE	DATA SOURCE/S	TIMELINE FOR DATA COLLECTIO N	RESPONSI BILITY	BASELINE
EOP Outcome 1 Indigenous Data Custodians will have IDG principles embedded in their Research data management	IDCs that have IDG frameworks/poli cy increases	An increase of IDCs reporting implementatio n of IDG frameworks/pri nciples	IDC survey	Responses to survey with IDCs midway and at end of project	Project Manager	Not applicable
EOP Outcome 2 Indigenous communities and organisations	Indigenous communities and organisations	Indigenous organisations will report	IDC survey responses from	Responses to survey with IDCs midway	Project Manager	Not applicable





have improved IDS	have more control over the collection, access & use of their data	greater control of their data	Indigenou s sector	and at end of project		
EOP Outcome 4 Australia's Indigenous data ecosystem will be more secure and respectful	IDCs will demonstrate better implementation of FARE and CARE principles	An increase in IDC FARE and CARE scores in the Indigenous Data Catalogue	Indigenou s data catalogue FAIR and CARE scores	Indigenous Data Catalogue	Project Manager	Not applicable
EOP Outcome 5 Indigenous & non-Indigenous researchers will have better awareness of how to use Indigenous data appropriately	Indigenous & non-Indigenous researchers will use IDG principles when collecting, accessing, analysing and sharing Indigenous data	Indigenous & non-Indigenous researchers will report better knowledge of IDG & IDS principles and how to employ them in their research	IDC survey	Responses to survey with IDCs midway and at end of project	Project Manager	Not applicable
EOP Outcome 6 Increased community engagement, input and access to Indigenous research and its outputs	Reduction of barriers to access/use/reus e of Indigenous research outputs in appropriate ways	Greater community engagement with Indigenous research and its output s	IDC survey	Responses to survey with IDCs midway and at end of project	Project Manager	Not applicable
EOP Outcome 7 Increased Indigenous and non-Indigenous people with expertise working in Indigenous Data Science	Systematic identification of barriers and enablers to sustainable education and career pathways in data science for Indigenous peoples and professional	More Indigenous and non-Indigenous people engaging in educational resources and modules produced by the project, and increased	Website, Indigenou s Data Governan ce enrolment s, ARDC Summer School	Annual	Project Manager	Not applicable





development for non-Indigenousenrolments in data scienceECRs in Indigenous Dataand relatedSciencefocus on Indigenous data	enrolment s
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1.13. Communications & engagement

A communications and engagement strategy will build on the existing strategy of Phase one of the project to focus on the specific partners in this project and to engage the Indigenous research community and research communities focused on Indigenous research topics. This will involve the cooperation of the Academies and research institutions not already involved, but able to respond to the challenges of the IIRC.

Online and face-to-face meetings with experts in disciplinary fields and representatives from the five IDC sectors focusing on specific streams and activities of this plan will provide the first stage of the communications and engagement strategy, followed by distribution of information about progress to the wider audience via newsletters, emails and social media platforms. Periodic reports and publications will depend on the progress of each stage and operational focus and will be the responsibility of the leaders of each stream and activity. Those involved in each of the outlined activities of the project will report to Project Steering Committee, who will be responsible for guiding the scope and scale of communication in each case, taking into account the particular audiences to be reached.

- Access, Authentication and Governance
- Consultation Phase
- Compute: HPC and GPUs
- Capability Building: Skills and Training
- IDNC
- The application of Indigenous governance frameworks
- Legal/legislative requirements around data
- Technical architecture and the ongoing development of IDNC, catalogue resources & extension





- Indigenous Research Capabilities
- Legal requirements for data management and infrastructure

Drawing on the findings from Phase 1 and the ongoing outputs of Phase 2 of the IIRC project, the IDN will provide advice to relevant national government agencies (i.e. National Indigenous Australians Agency & Office of the National Data Commissioner, Office of the Australian Information Commissioner) for the development, application and refinement of APS IDG frameworks, policies & regulations. This extends to Australian frameworks, regulation and policy related to: APS data access for Indigenous research and communities, Intellectual Property (IP) of Indigenous Data and Knowledges, and collection, storage, access, and use of Indigenous data.

TERM	DESCRIPTION
APS	See Australian Public Sector
Australian Public Sector	The Australian Public Service (APS) comprises entities that employ their staff under the <i>Public Service Act 1999</i> (PS Act). This includes all departments of state, and some other entities. Generally, APS agencies are 'non-corporate', being components of the legal entity that is the Commonwealth.
Indigenous research data	Within this project, we refer to Indigenous research data as all data generated by, about or for Aboriginal and Torres Strait Islander people in Australia. Indigenous research data specifically refers to information that is collected, analysed, and interpreted within the context of Indigenous communities, cultures, and knowledge systems. It includes data gathered through research projects conducted by and with Indigenous peoples, as well as data that Indigenous communities have generated and maintained themselves. Indigenous research data includes traditional ecological knowledge, oral histories, cultural practices, and other forms of Indigenous knowledge that may not fit traditional Western research paradigms. It may involve collaborative research approaches that prioritise Indigenous self-determination, community engagement, and the equitable sharing of benefits.
IDC	See Indigenous Data Custodian

2. GLOSSARY OF TERMS





Indigenous Data Custodian	 For the purposes of the IIRC Project, we define Indigenous Data Custodians as five broad communities of Indigenous research data custodians: (1) Aboriginal and Torres Strait Islander communities and organisations; (2) universities, researchers and other research organisations; (3) the GLAM sector, including libraries, archives and museums; (4) Commonwealth, state, territory and local governments; and (5) Private sector (including not-for-profit).
IDG	See Indigenous Data Governance
Indigenous Data Governance	Indigenous data governance refers to the principles, practices, and systems by which Indigenous communities exercise control over the collection, ownership, management, and use of data that is relevant to them. It recognises the unique rights, interests, and needs of Indigenous peoples regarding their data and aims to ensure that data is collected, stored, and utilised in a manner that respects their self-determination, cultural values, and sovereignty. Indigenous data governance sets the foundations for data democracy at the community level, supporting Indigenous access, generation, and use of data.
IDS	See Indigenous Data Sovereignty
Indigenous Data Sovereignty	Indigenous data sovereignty refers to the right of Indigenous communities to own, control, and govern the data that is generated within their communities. It encompasses the principles of self-determination, cultural autonomy, and control over information and knowledge systems.
IDNC	See Indigenous Data Network Catalogue
Indigenous Data Network Catalogue	The Indigenous Data Network's catalogue of Indigenous datasets includes metadata of Indigenous data held by IDCs across Australia, including research data generated by the IDN in partnership with IDCs. This catalogue will be built over time as metadata of significant Indigenous datasets are located. The IDNC demonstrates improved metadata models and rating systems for data and metadata to improve Indigenous Data Governance.

3. CHANGE CONTROL (for ARDC information only)

Approval of this Project Plan will comprise the baseline for the project. Changes to any of the following are considered variances:





- Project details
- Project outcomes & aims
- Budget
- Project partners
- Project team roles and responsibilities
- Governance
- Milestones and deliverables
- (Inter)dependencies

Variances to the Project Plan require endorsement by the Steering Committee and then ARDC approval. If approved, the Project Plan will be revised and project reports from that point forward will report project progress against the revised Project Plan, not the original.

To request a variance:

- 1. The Steering Committee submits a request to ARDC for variance to the approved project plan.
- 2. ARDC reviews the changes and advises the project manager or project lead of the outcome.

4. APPENDICES

Redacted

[1] https://www.closingthegap.gov.au/national-agreement/priority-reforms

