

ANZLIC Strategic Plan 2020-24

Updated roadmap, May 2022

Driving spatial excellence and place-based intelligence across Australia and New Zealand



Administrative
Boundaries



Buildings and
Settlements



Elevation
and Depth



Geocoded
Addressing



Geology
and Soils



Imagery



Land Cover
and Land Use



Land Parcel
and Property



Physical
Infrastructure



Place Names



Population
Distribution



Positioning



Transport






Water

Roadmap for ANZLIC initiatives

Following inputs from stakeholders and in collaboration with the Intergovernmental Committee on Surveying and Mapping (ICSM), ANZLIC's updated roadmap to continue to implement the ANZLIC Strategic Plan 2020-24 is outlined below.






This includes activities to implement the priority initiatives and enablers.

In addition to implementing the roadmap, significant value is also derived from the strong connections across Australia and New Zealand through ANZLIC and ICSM by sharing information about spatial data and capabilities developments within jurisdictions and leveraging these across jurisdictions where possible.

Priority Initiatives				
MODERNISING THE FOUNDATION SPATIAL DATA FRAMEWORK				
<p>Modernise FSDF information to increase its accuracy and reliability and adopt 3D and 4D formats (where applicable) to meet emerging user needs.</p> <p>Ensure the FSDF is fit for future purposes.</p> <p>ANZLIC and ICSM are working to modernise foundation spatial data to 3D and 4D (time) digital formats, this includes:</p> <ul style="list-style-type: none"> Streamlining processes to collect and supply spatial data to users across the full data lifecycle: capture, procure, access, standardise, maintain and value-add. Enabling better data management practices, focusing on governance, privacy and cyber security, discoverability and accessibility. Driving development and adoption of open spatial data standards that align with and inform international standards. <p>In addition, the ICSM Metadata Working Group is undertaking a work program that includes data governance, management and metadata and is applicable across all of the FSDF themes.</p>				
Theme	Objective	Who <i>Either an ICSM working group, or one (or more) jurisdictions</i>	What	When
 Administrative Boundaries	Reinforce the Australian Bureau of Statistics' current Australian Statistical Geography Standard as the national Administrative Boundaries theme that reflects the location of people	Geoscience Australia and the Australian Bureau of Statistics	<ul style="list-style-type: none"> Update ANZLIC's FSDF to link to Australian Bureau of Statistics' Australian Statistical Geography Standard (ASGS) 	September 2022
	Continue to make Administrative Boundaries data openly available	Department of Industry, Science, Energy and Resources	<ul style="list-style-type: none"> Continue to publish quarterly updated Administrative Boundaries data via data.gov.au 	Ongoing
 Buildings and Settlements	Collaborate with stakeholders to develop a standard for a buildings dataset as a new theme in the FSDF, consistent with the UN-GGIM	ICSM Elevation, Depth and Imagery Working Group	<ul style="list-style-type: none"> Develop an approach for interoperability and exchange of 3D buildings data across jurisdictions 	June 2023
 Elevation and Depth	Review existing Earth Observation acquisition approaches and identify opportunities to reduce costs, collaborate on procurement, achieve whole-of-economy licencing, and leverage new capabilities	ICSM Elevation, Depth and Imagery Working Group	<ul style="list-style-type: none"> Leverage the work of New Zealand to develop principles for a standardised approach across jurisdictions for LIDAR Digital Elevation Models Collaborate with the Australian Climate Service and the Australian Space Agency on Earth and Observation initiatives 	March 2024 Ongoing/as required



Theme	Objective	Who <i>Either an ICSM working group, or one (or more) jurisdictions</i>	What	When
Geocoded Addressing	Develop an updated addressing strategy	ICSM Addressing Working Group	<ul style="list-style-type: none"> Publish the Addressing Strategy 2035 Identify the priorities for implementing the Addressing Strategy 2035 Develop and publish guiding principles for a whole-of-government approach for addressing in Australia 	July 2022 June 2023 June 2023
Geology and Soils	Collaborate with stakeholders to develop a standard for a geology and soils as a new theme in the FSDF, consistent with the UN-GGIM	Geoscience Australia	<ul style="list-style-type: none"> Collaborate with stakeholders to develop an approach for interoperability and exchange of geology and soils data across jurisdictions 	December 2024
Imagery	Develop guidance on approaches for imagery data	ICSM Elevation, Depth and Imagery Working Group	<ul style="list-style-type: none"> Develop and publish an Imagery Statement of Direction 	December 2022
Land Cover and Land Use	Make access and discoverability of land cover and land use datasets easier for users	Geoscience Australia	<ul style="list-style-type: none"> Action through implementation of Digital Atlas of Australia Prototype/Beta release Dec 2022 Production release June – Dec 2023 	Land Cover – December 2022 Land Use – June 2023
Land Parcel and Property	Progress digitisation of cadastres nationally and support their evolution towards 3D and 4D based on a new national standard	ICSM Cadastre Working Group	<ul style="list-style-type: none"> Monitor the progress against Cadastre 2034 Actively modernise/upgrade digital cadastres across Australia and New Zealand Publish ICSM standard for the accuracy of spatial cadastres Undertake next steps for standard development and implementation of the Australia and New Zealand 3D Cadastral Survey Data Model 	Ongoing yearly progress reports December 2022 December 2022 July 2023
Physical Infrastructure	Collaborate with stakeholders to develop a standard for a physical infrastructure dataset as a new theme in the FSDF, consistent with the UN-GGIM	ANZLIC and ICSM jurisdictions leading spatially enabled digital twin work (VIC and NSW) ICSM Elevation, Depth and Imagery Working Group	<ul style="list-style-type: none"> ANZLIC and ICSM to determine what is needed for a foundation spatial data theme Leverage the NSW Telco Authority's work to develop a Telco standard across jurisdictions Collaborate with stakeholders to develop an approach for interoperability and exchange of 3D underground utilities data across jurisdictions Collaborate with stakeholders to develop an approach for interoperability and exchange of physical infrastructure data across jurisdictions 	December 2022 June 2023 June 2023 June 2024

	Theme	Objective	Who <i>Either an ICSM working group, or one (or more) jurisdictions</i>	What	When
	Place Names	Explore opportunities to improve place names data, including dual place naming	ICSM Place Names Working Group	<ul style="list-style-type: none"> Develop and implement a new Place Names Strategy, in particular to include: <ul style="list-style-type: none"> an active approach to improving the Composite Gazetteer of Australia modernisation of the principles and guidelines for Australian place names – incorporating the use of First Nations language and names 	June 2023 September 2023 June 2024
	Population Distributions	Promote the availability of the Australian Bureau of Statistics' spatially enabled population data Strengthen the partnership between the Australian Bureau of Statistics and ANZLIC in recognition of the ABS' role as the Population Distribution theme custodian	Australian Bureau of Statistics and Geoscience Australia	<ul style="list-style-type: none"> Update ANZLIC's FSDE by linking to the Australian Bureau of Statistics' spatially enabled population data (including the Data by Region and Population data suites) Progress discussions between ANZLIC and the ABS to strengthen future engagement 	September 2022 September 2022
	Positioning	Collaborate to implement the Geocentric Datum of Australia 2020 (GDA2020), and introduce new reference frames such as the Australian Terrestrial Reference Frame (ATRF) and Australian Vertical Working Surface (AVWS)	ICSM Geodesy Working Group	<ul style="list-style-type: none"> Adoption of GDA2020, including by government and industry Support jurisdictions performing Gravity Model projects to improve the AVWS 	December 2022 Ongoing
	Transport	Make national level roads data open available	Geoscience Australia	<ul style="list-style-type: none"> Action through implementation of Digital Atlas of Australia Prototype/Beta release Dec 2022 Production release June – Dec 2023 Develop an approach for interoperability and exchange of roads data across jurisdictions 	December 2022 December 2023
	Water	Make access and discoverability of surface water datasets easier for users	Geoscience Australia and the Australian Hydrographic Office	<ul style="list-style-type: none"> Action through implementation of Digital Atlas of Australia Prototype/Beta release Dec 2022 Production release June – Dec 2023 Develop an approach for interoperability and exchange of surface water data across jurisdictions 	December 2022 December 2023
DIGITAL TWINS					
<i>Support the development of standards based digital twins in accordance with the Principles for Spatially Enabled Digital Twins of the Built and Natural Environment in Australia.</i>					
	Support jurisdictional spatially enabled digital twin proof of concept projects and collaboration	<ul style="list-style-type: none"> Support program delivery for major digital twin projects Facilitate effective collaboration and information sharing Support adoption of relevant standards 	ANZLIC jurisdictions leading spatially enabled digital twin work (VIC and NSW)	<ul style="list-style-type: none"> Host twice yearly Digital Twin forums amongst ANZLIC and ICSM members to enable information sharing and inform strategy and standards development 	Ongoing

Theme	Objective	Who <i>Either an ICSM working group, or one (or more) jurisdictions</i>	What	When
SPACE AND SPATIAL				
<i>Support downstream application of new space and satellite capabilities and data sources to maximise value to information supply chains, particularly for earth observation and positioning.</i>				
Support recommendations from the <i>Space and Spatial Industry Growth Roadmap 2023</i>	Continue to participate in the Steering Committee for the development of the <i><u>Space and Spatial Industry Growth Roadmap 2023</u></i>	SA ANZLIC Member (representing ANZLIC)	<ul style="list-style-type: none"> Collaborate with stakeholders to support implementation of recommendations of the <i><u>Space and Spatial Industry Growth Roadmap 2023</u></i> 	Ongoing
Priority Enablers				
SKILLS AND CAPABILITIES FOR THE FUTURE				
<ul style="list-style-type: none"> Support opportunities to address surveying and spatial skills shortages and actively share and grow spatial capability Leverage opportunities to advocate for innovative approaches to grow spatial capability For example, support and advocate for initiatives that raise awareness of spatial sciences and geospatial data applications to open career pathways for students and others who may not have considered careers in the geospatial field 				
EFFECTIVE COLLABORATION AND ENGAGEMENT				
<ul style="list-style-type: none"> Collaborate with stakeholders across industry, the research sector and government to drive spatial data outcomes Advocate to raise awareness of the value of spatial data and for spatial data priorities to be progressed 				
SUPPORT IMPROVED DIVERSITY AND INCLUSION				
<ul style="list-style-type: none"> Leverage opportunities to advocate for greater diversity and inclusion in the spatial sector Share information across jurisdictions and with stakeholders about initiatives to drive improved diversity and inclusion in the spatial sector 				

