AUS SEABED

VISION

The Australian seabed information ecosystem delivers maximum benefits to Australian Governments and users, supporting sustainable use of the marine environment, a resilient society and the growth of the Blue Economy

MISSION

Improve the awareness, coverage, quality, accessibility and usability of seabed mapping products in the Australian region through coordination, collaboration, and innovation

Products

All seabed mapping data and products in the Australian region are guided by F.A.I.R. principles and meet the needs of users

Federated platform adopted as the source of seabed data and products

Curated, standardised and consistent quality

Fit-for purpose and easily understood

Products are end user focused

Connected to community initiatives and platforms

Coverage

Seabed data is collated and collected in areas of the Australian region to provide maximum benefit to users

Legacy seabed data is known, described and accessible

New coverage is shaped by stakeholders

Acquisition is prioritised and coordinated

Data is collected to quality standards to be used many times

Innovation and emerging technologies are embraced

Our Strategy

Working towards a mapped and accessible Australian seabed

Awareness

The AusSeabed mission is widely understood and valued across Australian Governments and the community

Inclusive, diverse, connected and informed community

Engaged with First Nations Australians

Data, tools, standards, and products are widely used

Education and training opportunities are encouraged

ROLE

Connect stakeholders across sectors, and encourage collaboration

Liberate seabed data and products for users

Guide the sector towards quality standards and consistency

Raise awareness of the importance of seabed mapping in the wider community

OUTCOMES

Sustainable and supported federated platform adopted by users

Coordinated activities across Australian Governments and the AusSeabed community

Improved quality of data aquisition through the adoption of common standards and tools

Seabed mapping products support improved decision making within Australian Governments and the broader users

Products

2025 Activities Roadmap
Working towards a mapped and accessible Australian seabed

AUS SEABED

2025 Goals	2022/23	2023/24	2024/25
P1: Australian Governments and the community are using the AusSeabed Data Hub to make data available in compliance with Australian standards			
P1.1 Data register portal	Build a central register to enable streamlined publication	Streamline publication of backscatter and sediment data	Streamline publication of sub-bottom profile data
P1.2 Contributing Hubs	Deliver a Contributing Hub connection roadmap	Connect Contributing Hubs to the AusSeabed Data Hub	
P1.2 Secure infrastructure	Review Australian Cyber Security Standards requirements	Achieve Australian Cyber Security Standards	
P2: AusSeabed is delivering consistent bathymetry, backscatter, sediment and sub-bottom profiles			
P2.1 Bathymetry	Decrease the delivery time of L3 bathymetry datasets	Expand bathymetry delivery expand to L2 point-cloud	Ensure all partner bathymetry datasets are published
P2.2 Backscatter		Develop product specifications for backscatter	Begin routine delivery of backscatter on the Data Portal
P2.3 Sediment	Engage with partners to submit samples for analysis	Publish gridded sediment maps to the Data Portal and update annually	
P2.4 Sub-bottom profile (SBP)	Develop guidelines for SBP	Ensure aquisition opportunities for SBP are taken up	Begin routine delivery of SBP data via the Data Portal
P2.5 Vertical datum tool	Replace AusCoastVDT tool		
P3: AusSeabed delivers up to date national and regional seabed products and compilations			
P3.1 New products	Develop a products roadmap that delivers to stakeholders needs		Build an Implementation Plan for new products
P3.2 Regional grids	Develop 30 m grid specifications and quality assessment	Deliver a National Plan for 30 m regional grids, including updates of existing compilations	
P3.3 National grids	Update the AusBathyTopo 250m grid using L3 data	Comprehensively update the AusBathy Topo 250 m grid, including additional data cleaning processes	
P3.4 User customised grids	Test prototype custom gridding capability with users	Expand the user gridding capability within the Data Portal	
P4: AusSeabed engaged in relevant national, international and global initiatives			
P4.1 Government connections	Improve connections with other national platforms delivering bathymetry data (ELVIS, AMSIS, Digital Atlas, AODN)		Review Government connections with AusSeabed
P4.2 International Data Hubs	Contribute to the GMRT synthesis and GEBCO projects	Connect to GEBCO IHO DCDB platform	
P4.3 Regional relationships	Develop Aus-US activity plan to exchange capability	Identify and explore new regional partnerships	

*Completion of the Roadmap is subject to the sustained funding of the AusSeabed Program

Coverage

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2025 Goals	2022/23	2023/24	2024/25
C1: All bathymetric and sediment sample data is understood. A stocktake on backscatter and sub-bottom profile data is underway			
C1.1 Bathymetry	Stocktake of bathymetry with a national coverage report that implements quality framework information (see C2.1)		
C1.2 Backscatter		Stocktake of backscatter with a national coverage report	
C1.3 Sediment	Stocktake of sediment with a national coverage report		
C1.4 Sub-bottom profile (SBP)		Stocktake of SBP with a national coverage report	
P2: Guidelines, standards and frameworks are in place to ensure data is usable and understood by the community and AusSeabed			
C2.1 Quality framework	Develop bathymetry quality framework	Describe bathymetry holdings using quality framework	
C2.2 National guidelines	Promote the adoption of guidelines		
	Develop satellite derrived bathymetry guidelines	Revise australian multibeam echosounder guidelines	Develop LiDAR guidelines
	Develop sub-bottom profile guidelines (See P2.4)		
C2.3 Quality assurance tools	Implement end-user feedback to update Quality Assurance Tool (QAX)		Develop new and sustain existing QA tools (see C4.1)
C3: Stakeholder requirements and priorities are known and are informing acquisition plans			
C3.1 National Seabed Mapping Plan	Deliver a community workshop on national priorities	Coordinate efforts by key stakeholders to develop and adopt a National Seabed Mapping Plan	
C3.2 Survey Coordination Tool (SCT)	Promote routine uptake of the SCT with stakeholders	Develop a priority and risk analysis tool using the SCT	
C4: Existing capability across the seabed mapping workflow is known and innovative seabed mapping solutions are facilitated			
C4.1 New technology	Participate in a GEBCO working group on data storage	Establish a working group for new mapping technology	Update guidelines and roadmaps with new technology

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Awareness

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2025 Goals	2022/23	2023/24	2024/25
A1: AusSeabed understands users wants, needs and motivations to inform product development and improvement			
A1.1 Community engagement	Gain insights from usage statistics of products and tools	Conduct end-user research to understand user needs	Respond to end-user insights
A2: Governments and the community are satisfied with AusSeabed tools and products			
A2.1 Stakeholder engagement	Capture stakeholder and end-user impact stories	Annual stakeholder survey report delivered including recommendations for improvements	
A3: An AusSeabed First Nations Strategy is under development to facilitate active two-way communication and co-design			
A3.1 First Nations engagement	Publish First Nations Statement	Scope AusSeabed's role in ensuring maximum benefits	Begin developing a First Nations Strategy
A4: AusSeabed is known as the entry and distribution point for all Australian open seabed data			
A4.1 Community education	Promote the uptake of tools, guidelines and standards	Promote a shared understanding of data coordination	Ensure data is distributed as widely as possible
A5: AusSeabed is supporting capacity development through higher education and training			
A5.1 Higher education and training	Form a higher education and training working group	Engage with the higher education and training sector	Integrate AusSeabed material into higher education
A5: AusSeabed is supporting capacity development through higher education and training			
A6.1 Communications	Newsletter, webinars, workshops, conferences, client requests, governance activities, reporting		

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