



The General Bathymetric Chart of the Oceans

STRATEGY 2024-2030

The vision

To bring knowledge about our planet's seabed to everyone

The mission

To produce free, open and complete seabed data and information for the world's oceans. This is achieved by enabling and inspiring seabed mapping efforts through international collaboration, technological innovation, capacity development, and education.

1 Introduction

To this day GEBCO has proudly upheld its original mission to deliver “the most authoritative, publicly available bathymetry of the world’s oceans” by providing depth data to the world. Bathymetry provides a measure of the shape of the seabed; as the science of measuring ocean depth, it is foundational to ocean sciences. It underpins disciplines ranging from hydrography and oceanography to marine

geology and ecology. It encompasses the mapping and charting of underwater features and the topography of the seabed.

To enable GEBCO to fulfil its expansive and ambitious mission, GEBCO will focus its efforts on providing data that support information and knowledge on the shape of the seabed.

The present structure of the General Bathymetric Chart of the Oceans (GEBCO) reflects its long evolution since its creation in 1903 by Prince Albert I of Monaco. It has been shaped by its successes and the opportunities created through many transitions over the years.

GEBCO has a rich history; its successes are numerous and global.¹ Today, GEBCO is an internationally recognised and well-respected programme that operates under the joint auspices of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC) of the United Nations Educational, Scientific and Cultural Organization (UNESCO). GEBCO collaborates with international, multi-sector stakeholder organisations which use seabed data to achieve their goals and meet their needs. GEBCO will contribute to the purpose and function of both IOC/UNESCO and IHO and seek advice and cooperation about seabed related services and capacity.

While both parent organisations have their own respective strategies, GEBCO has developed its own strategy which is outlined in this document. This strategy aims to:

- provide a vision and a mission to see GEBCO's legacy enduring over multiple generations.
- broaden GEBCO's focus to encompass seabed data and datasets, including bathymetry and its derivatives, positioning the programme firmly in the twenty-first century mainstream of ocean science.
- support a dedicated governance that strives to increase GEBCO's visibility and relevance in a world increasingly more aware of the importance of the ocean.
- provide clarity of GEBCO's direction within the complex structure and relationships between parent organisations, subcommittees and subordinate projects.
- ensure that GEBCO complements and supports the parent organisations' objectives.
- ensure that GEBCO subcommittees and subordinate projects have the support they require to optimise their work and outcomes.
- inform GEBCO stakeholders and partners of its intentions and ambitions so that together they can support each other in support of the GEBCO mission under the dedicated governance.

¹ See 100 years of GEBCO

1.1 GEBCO's parent organisations

The present strategy supports the missions and objectives of the parent organisations - the IHO and the IOC of UNESCO - and recognises their leading and supporting roles for GEBCO.²

IHO's vision is to be the authoritative worldwide hydrographic body which actively engages all coastal and interested States to advance maritime safety and efficiency and which supports the protection and sustainable use of the marine environment. Its mission is to create a global environment in which coastal states provide adequate, standardised and timely hydrographic data, products and services, and ensure their widest possible use.

IOC's vision is to bring together governments and the science community to achieve the 'Ocean We Need for the Future We Want'. Its mission is to promote international cooperation and coordinate programmes in research, services and capacity-building to increase knowledge about the nature and resources of the ocean and coastal areas. The IOC sees that knowledge is applied for the improved management, sustainable development, the protection of the marine environment, and the decision-making processes of all coastal states.

2 GEBCO's vision and mission

The scientific knowledge derived from ocean sciences is critical to achieving all six outcomes of the United Nations Decade of Ocean Science for Sustainable Development (the Ocean Decade), which the parent organisations proactively support.

GEBCO therefore considers seabed data and information to be at the heart of its pursuit with:

- A **vision** to bring knowledge about the seabed to everyone on the planet; and
- A **mission** to produce free, open and complete seabed datasets of the world's oceans by enabling and inspiring seabed mapping efforts through international capacity development, education, and collaboration.

² IHO Strategic Plan for 2021-2026 and Draft IOC medium-term strategy for 2022–2029 (41 c/4)

3 Outcomes and Objectives

GEBCO's outcomes and objectives are organised through five pillars critical to achieving its Vision and Mission: Data, Technologies and Standards, Capacity, Community, and Governance.

GEBCO aims to contribute to the overarching Ocean Decade outcomes, whereby striving for Oceans will be clean, healthy and resilient, productive, predictable, safe, accessible as well as inspiring and engaging.

GEBCO will promote seabed mapping activities focused on the creation of a definitive set of seabed data of the world ocean through initiatives such as its Nippon Foundation GEBCO Seabed 2030 project.

To achieve its mission, GEBCO seeks the following outcomes and strives towards objectives for each of the five pillars that are in line with and build on the vision, while supporting the parent organisations' goals.

3.1 Delivering open and fit for purpose seabed data

GEBCO supports, promotes and encourages the acquisition, compilation, curation, distribution and scientific use of bathymetric and other seabed data and information acquired during hydrographic surveys and ocean mapping. Seabed data, including bathymetric data in the first instance, are obtained through direct measurements, engineering and technological innovation.

Objective

- To compile, maintain and improve the most accurate, reliable and relevant sets of seabed data based on internationally approved geospatial standards focused on bathymetry and the authoritative GEBCO Gazetteer of Undersea Feature Names.
- Open and equitable (free and easy) access to comprehensive seabed data and information for everyone under *Creative Commons* or comparable license terms.

Outcomes

- A fully explored and well understood global seabed contributing towards improved ocean science and facilitating decision making on sustainable ocean management, conservation and the global economy.

3.2 Supporting, promoting and using innovative solutions to continuously improve the GEBCO data value chain

Seafloor mapping has evolved over the life of GEBCO from lead lines to sonar to multibeam echosounders. The future is bringing new technologies which are and will be critical to the success of GEBCO's mission.

GEBCO supports technological innovation and the development and adoption of standards as a means to better achieve its mission. Through technology and standards, GEBCO aims at serving and advising on the technical aspects of building and use of GEBCO datasets and products.

Objective

- To actively support, promote and use innovative solutions to continuously improve the seabed data value chain, including solutions contributing to ocean management, conservation and the global economy.

Outcome

- Innovative technologies and standards that improve the seabed data value chain and maximise benefits for GEBCO and the broader community.

3.3 Establishing global infrastructure to develop capacity

GEBCO aims to assist in developing capacity, mobilise contributors facilitate an enabling environment to engage users and decision-makers from all sectors in the development and use of science-based solutions. Through its endorsement of the mission statement both the UNESCO/IOC and IHO, GEBCO supports capability and capability development, including through the support of the Nippon Foundation GEBCO alumni network. This will be accomplished via stakeholder engagement, communications, and capacity development / training.

Objectives

- Establish a globally distributed network of facilities and experts to support communication, encourage education and promote training.
- To double global ocean mapping capacity in the next five years.

Outcome

- An engaged, qualified and diverse global community of professionals inspired to support GEBCO in executing its mission and vision.

3.4 Engaging communities and partners to best deliver GEBCO's mission

Developing and nurturing a diverse, global and dynamic community that shares GEBCO's vision and has a will to increase our knowledge of the ocean is key for the success of GEBCO.

Objectives

- Increase engagement with the general public to improve their awareness of the relevance of GEBCO's work.
- Seek ongoing support of global leadership from all sectors and parent organisations for GEBCO.

Outcome

- A diverse community that understands the importance of GEBCO and engages and actively contributes to the programme.

3.5 Gaining support for our mission through robust processes that influence decision-making

Ensuring synchronisation and coherence between GEBCO Guiding Committee's governance and strategy is critical for formulating a clear vision and ensuring the effective execution of the strategy. The development of a Governance review encompassing stakeholder engagement, organisational structure mapping, legal framework assessment, governance instrument gap analysis, and financial status review will provide means to enhance oversight and accountability of GEBCO.

Objectives

- To build a sustainable GEBCO Marine Spatial Data Infrastructure (MSDI).
- To influence policy through robust science-based evidence to increasing support for sustained public and industry seabed mapping.

Outcomes

- An adequately funded long-term programme under the IHO and IOC of UNESCO.
- Improved coordination of ocean mapping efforts that maximise benefits to all ocean stakeholders.

4 Principles and strategies to deliver our objectives.

To deliver its strategy in the most effective way, GEBCO embraces the following principles:

- Support the IOC and IHO in engaging with national government and coordinating efforts, including for waters under national sovereignty from a coastal state and national government perspective.
- Engage at the UN and other multilateral organisations to make sure that GEBCO is represented in relevant policy discussions.
- Leverage the parent organisations, subcommittees, subordinate projects and other relevant initiatives, such as the Nippon Foundation GEBCO Seabed 2030 project.
- Nurture and develop partnerships with stakeholders to enhance visibility and efficiency in delivering this strategy

- Ensure the entire ocean space is considered by focusing the efforts on both the areas beyond national jurisdictions (ABNJ) as well as regions under national sovereignty.
- Ensure open, diverse, equitable and inclusive cultures striving for outcomes that are overarching, ambitious, and span generations, gender, cultures, nations, and sectors.

5 A better future

After 120 years of activity, GEBCO more than ever must think about the future it wants for the ocean for the coming generations. GEBCO's future activities will continue to aim at improving humanities knowledge of the ocean through striving to increase free and easy access to seabed datasets and related knowledge built on. Beyond 2030, GEBCO is committed to sustaining the significant momentum built in the field of ocean science during the early part of the twenty-first century, primarily through the efforts of initiatives such as the Nippon Foundation GEBCO Seabed 2030 project and the United Nations Decade of Ocean Science for Sustainable Development, ensuring their dynamic achievements continue into the next decade

New initiatives, partnerships, and projects should be freely discussed, as long as they follow the fundamental principles of GEBCO as set in this strategy and have a clear purpose.

A better or an enhanced future for GEBCO could include but is not limited to:

- Evolving GEBCO's governance to allow the programme and community to properly and effectively exert itself as the thought leaders in the world of seabed mapping, and to be able to embark on new innovations and initiatives in pursuit of our aims and objectives.
- The promotion and acquisition of an expanding type of datasets pertinent to the geologic nature of the seafloor, and immediate sub-seafloor, benthic ecosystems, and administrative layout of Marine Protected Areas (MPAs) that will support the enhanced understanding of the seafloor in a three-dimensional context.
- Support coastal communities and indigenous knowledge.
- Continue to support ocean literacy to raise awareness, knowledge and caring about the ocean.
- Endeavour to promote the development of new technology for the benefit of seafloor data and products and promote their use.