

**First Expert meeting of the UN-GGIM & IHO Joint Working Group on Marine
Geospatial Information**
**with the theme “Advancing Integrated Marine Geospatial Information
Management”**

Chiang Mai, Thailand
4 – 8 May 2026



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Singapore

Maritime and Port Authority of Singapore



M P A
S I N G A P O R E



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GeoSpace-Sea Journey

30 Nov 2020

- System live on Intranet for government access
- 255 Registered Users, 516 Datasets

Driven by:



MPA
SINGAPORE

In joint collaboration with:



31 Aug 2022

- Commenced public sharing thru SG-MDH & OCEANS-X

National, Regional & International Involvements

- Co-Chair of UN-GGIM-IHO Joint WG MGI
- Chair of East Asia Hydrographic Commission (EAHC) MSDI WG
- Co-Chair of Geospatial Working Committee
- Co-Chair of Geospatial Data Management Working Group



Awards

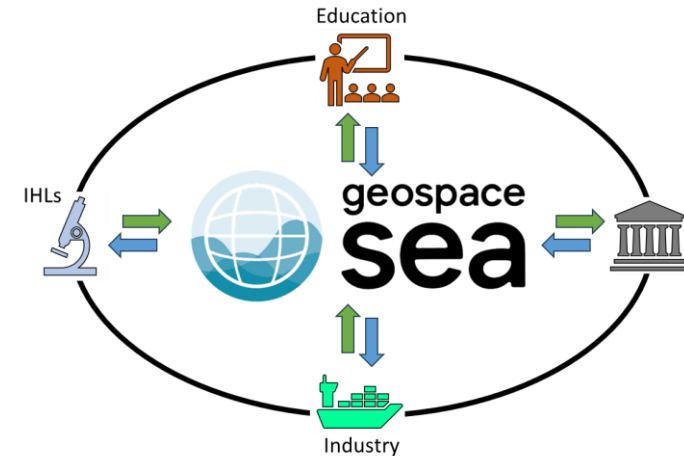
- 2026 Ministry of Transport Minister Innovation Distinguished Award
- 2021 Ministry of Transport Minister Innovation Merit Award
- 2021 International Special Achievement in GIS Award by Esri



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Where do we aim to be in the next five years?

- **Expand Data Coverage:** Integrate a wider range of cross domains datasets
- **Improve Accessibility:** Make the platform more user-friendly and accessible to a broader audience
- **Enhance Analytical Tools:** Develop AI-powered tools for data interpretation, predictive modeling, and anomaly detection.
- **Foster Community Engagement:** Create a more robust platform for knowledge sharing
- **Strengthen Partnerships:** Forge new collaborations to drive innovation and impact.



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Main Challenges within the Next Five Years

- **Data Availability and Quality:** Ensuring consistent access to high-quality, reliable oceanographic data from various sources can be a significant challenge.
- **Funding Sustainability:** Securing consistent and long-term funding is paramount. Demonstrating clear value to stakeholders to ensure the platform's continued operation and growth.
- **Skills and Capacity Gaps:** Shortage of specialised skills personnel required for advanced data science, AI development. Bridging these gaps through training, recruitment, and capacity building will be essential.
- **Technological Advancement and Adoption:** Developing and implementing analytical tools and encouraging widespread adoption of these new technologies by users with varying technical expertise can be challenging.
- **User Engagement and Community Building:** Actively engaging a diverse user base and fostering a collaborative community takes more than just providing a platform.



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Potential Opportunities

- **Public-Private Partnerships:** Collaborating with government agencies and private companies can unlock new opportunities.
- **Training and Education Programs:** Developing or supporting training programmes to address skills and capacity gaps within the maritime and oceanographic communities, fostering a more skilled workforce.
- **Community-Driven Development:** Encouraging user contributions to improve features based on real-world needs, and build a strong, engaged user community.
- **International Data Sharing Agreements:** To expand data coverage and improve the global understanding of oceanographic phenomena.
- **Innovation Challenges and Competitions:** Hosting challenges that incentivize developers and researchers to create new applications or solutions to drive innovation and highlight the platform's potential.



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GeoSpace-Sea Stage of Maturity



Development	At this stage, the organisation is just a thought or an idea . Key decisions are being made, including mission, vision, and objectives. Resources are gathered, and the core team is often formed. This stage is marked by creativity, enthusiasm, and a lot of uncertainty.
Startup	Once the idea is developed, the startup phase begins. This includes launching the product or service , acquiring initial customers , and dealing with various challenges . Cash flow is a significant concern at this stage, and the organisation is often in a delicate financial position.
Growth	If the startup phase is successful, the organisation moves into growth. During this stage, there are increased sales , and the business starts to see some profits. There's a focus on increasing market share , and the structure becomes more complex. The challenges include maintaining quality , managing cash flow, and continuing to build the brand.
Expansion	This stage is characterised by scaling the business and entering new markets . There may be diversification of products and services, and the organisation structure will become even more complex. There's a need to maintain company culture and values while still growing rapidly.
Maturity	At this stage, the organisation has reached a point where it's well-established in its industry. Growth may slow, but profits are stable. The focus may shift to maintaining market share and efficiency . Challenges include dealing with increased competition and continuing to innovate.

Source: <https://www.business2community.com/strategy/stages-business-lifecycle-challenges-0798879>



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How familiar are you with the UN-IGIF, and IHO C-17?

Governance	Governance and Institutions <ol style="list-style-type: none"> 1. GeoSpace-Sea Steering Committee 2. Geospatial Working Committee 3. Geospatial Data Management WG 4. Co-Chair – UN-GGIM-IHO Joint MGI WG 5. Chair – EAHC MSDI WG 	Legal and Policy <ol style="list-style-type: none"> 1. GeoSpace-Sea Terms of Use 2. Electronic Navigational Charts (ENCs) 3. Singapore Government Data Policy 	Financial <ol style="list-style-type: none"> 1. <i>Sale of Premium products and services</i> #
	Growth	Expansion	Development
	Technology	Data <ol style="list-style-type: none"> 1. Hydrographic data 2. Predicted & Actual tidal information 3. Marine Sensors data 4. <i>Near real-time sensors data</i>* 5. <i>Marine work areas (Proposed & Approved)</i># 	Innovation <ol style="list-style-type: none"> 1. <i>Marine Geospatial Challenge</i>*
Growth		Development	Growth
People		Partnerships <ol style="list-style-type: none"> 1. MPA MoU with industry, technology providers, IHLs and academia 	Capacity and Education <ol style="list-style-type: none"> 1. MPA Citizen Programme – Geospatial 2. MPA X NUS Geospatial Education MoU 3. <i>Geospatial 101 (Marine)</i>*
	Startup	Development	Startup

* Planned

In consideration



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Kind of support that wish to receive from UN-GGIM-IHO Joint Working Group on Marine Geospatial Information

- Guidance and methodology
- Capacity development and training
- Peer exchange and communities of practice
- Case studies, templates, or examples



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