

Republic of Korea

ROK MSDI Marine Spatial Data Infrastructure & EAHC MSDIWG

WG-MGI, UN-GGIM9 New York 5 AUG 2019

Presented by Mr. Jun-Shik Lee





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Report on ROK MSDI & EAHC MSDIWG





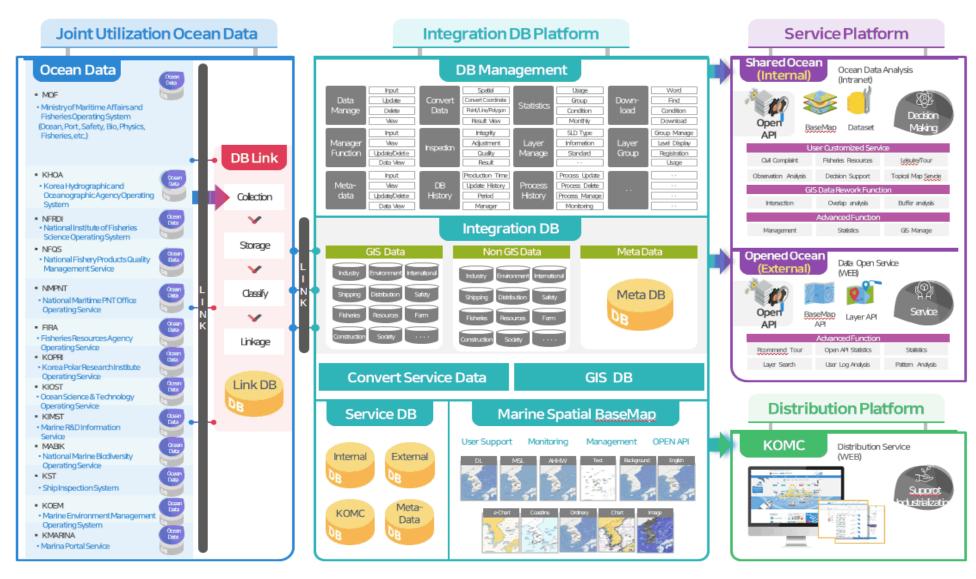
- 1. Current status of MSDI
- 2. Base map
- 3. Service system
- 4. MSDI & MSP in ROK



- 1. Venue & main agenda
- 2. Country report from MSs
- 3. Questionnaire & Work plan
- 4. Action items
- 5. Prototype of the EAHC-MSDI

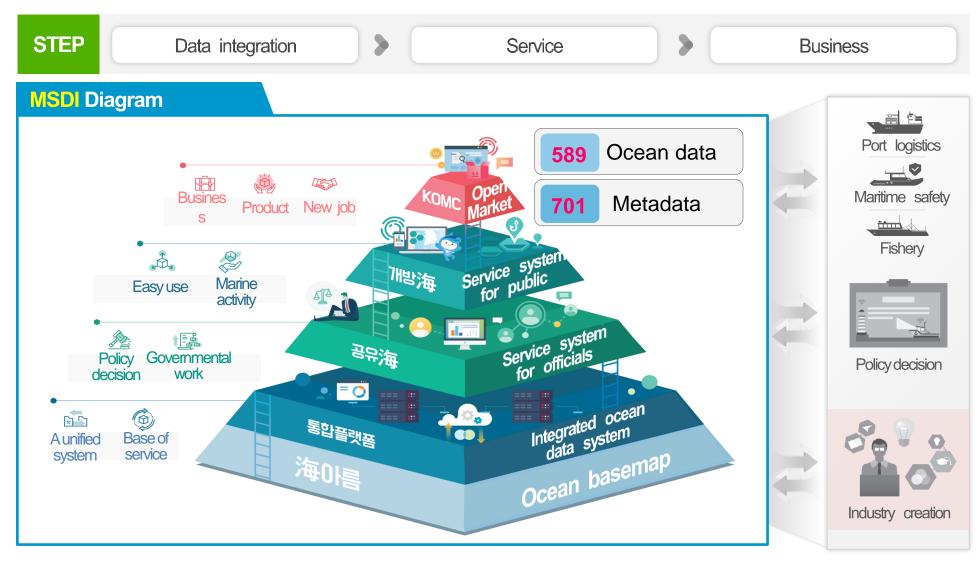
Current Status of ROK MSDI





Current Status of ROK MSDI



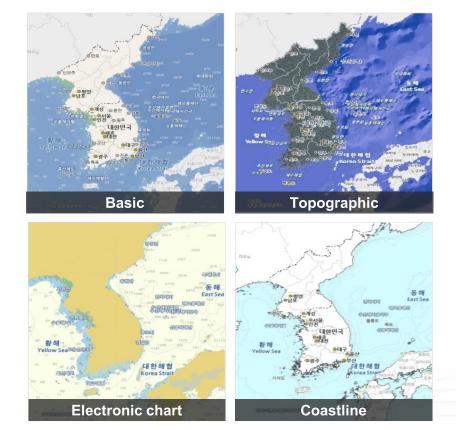


Marine spatial basemap



Purpose

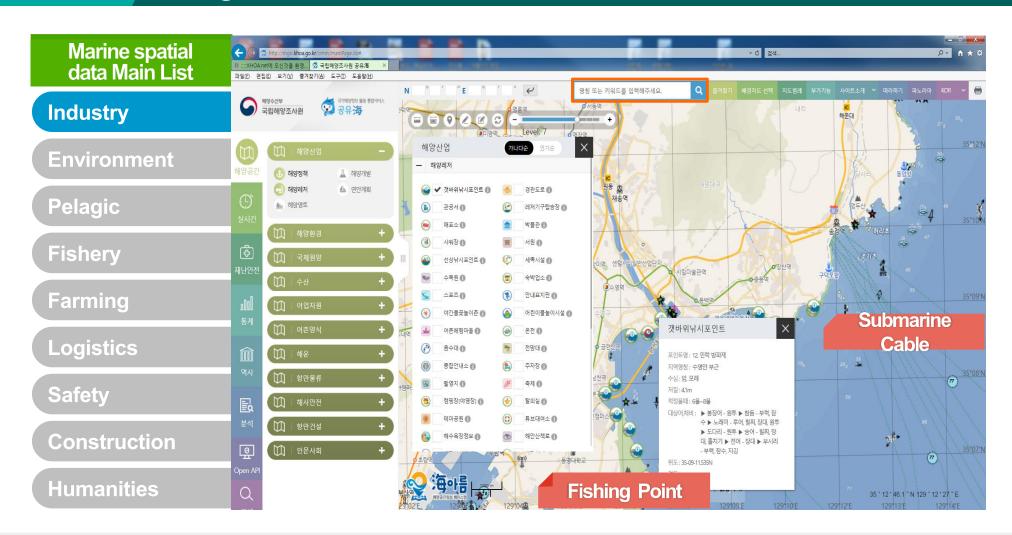
To provide a platform for various use of marine spatial information





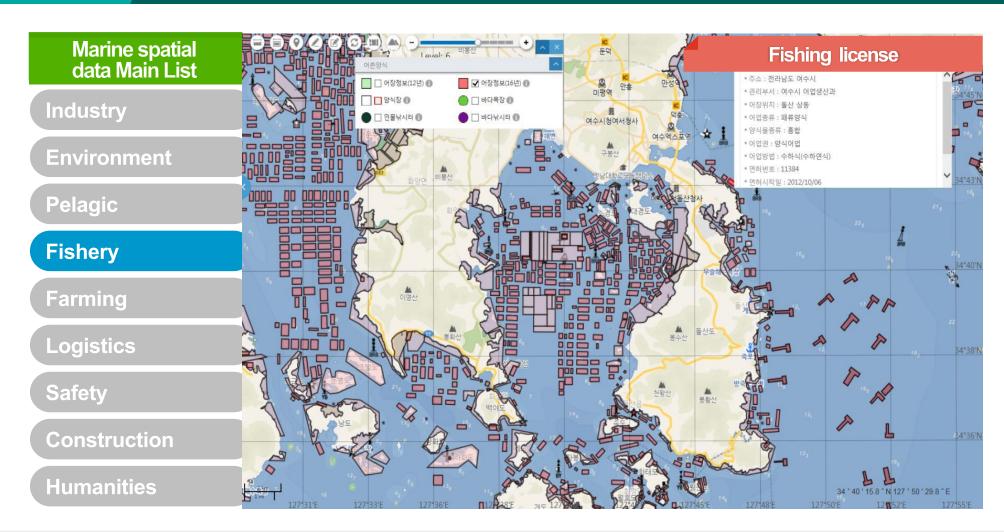


Part. 2 Categories of Service





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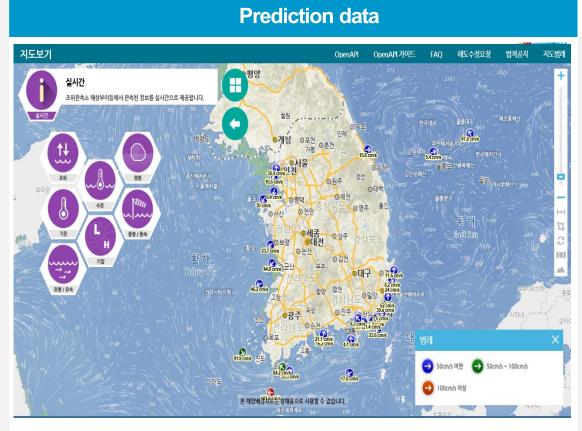




Part. 3 Realtime & Prediction Data Service



Tide, Current



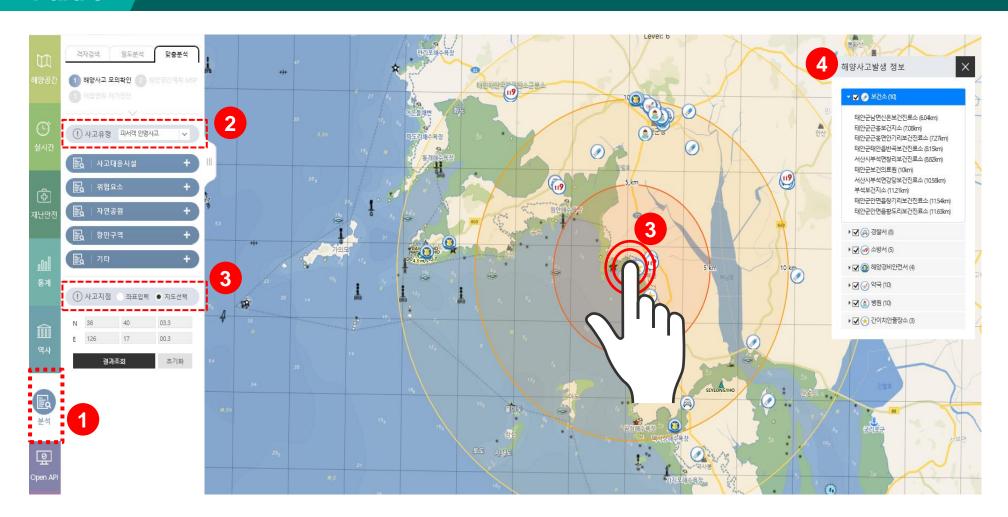


Part. 4 Visualization of the Statistic data





Part. 5 Customized services related to the maritime accidents





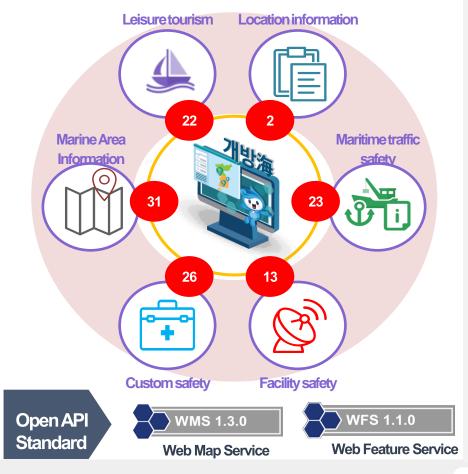
Part. 6 Review of restricted areas

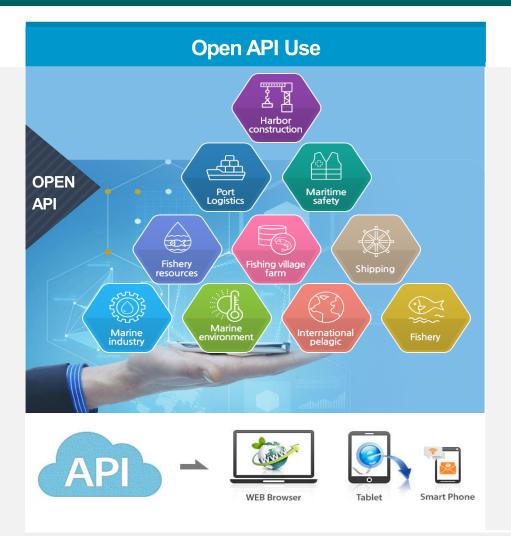




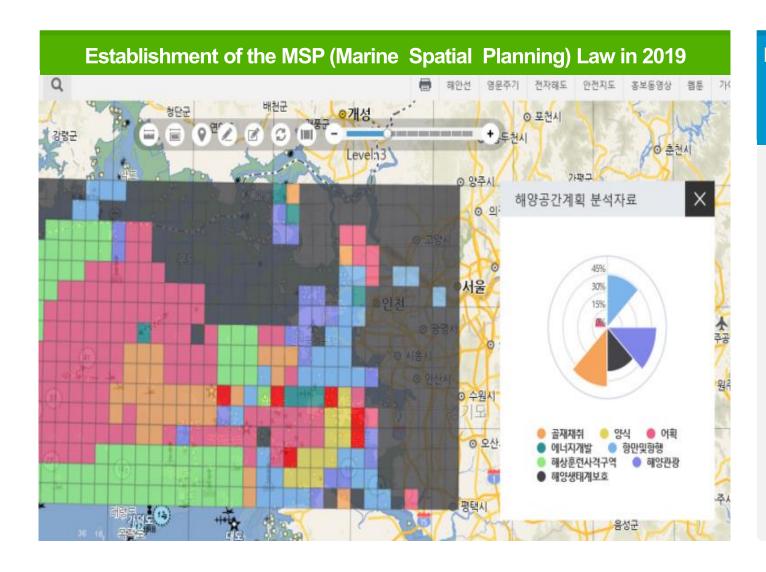
Part. 5 Open API

117 types of marine spatial information









Enactment of Regulations on the Integration and Co-utilization of Marine Information

Marine Information
Co-utilization
Guideline

Marine Information
Quality Processing
Guideline



Zoning Scheme of Korea's Marine Spatial Planning

Fisheries & Aquaculture



Reclamation



Conservation



Spatial Competition and Conflicts

- Fisheries
- Mining and extraction
- Energy development
- Marine tourism
- Environment and ecosystem management
- Research and education
- Harbor and navigation
- Military activity area
- Safety management

Shipping



Tourism & Recreation



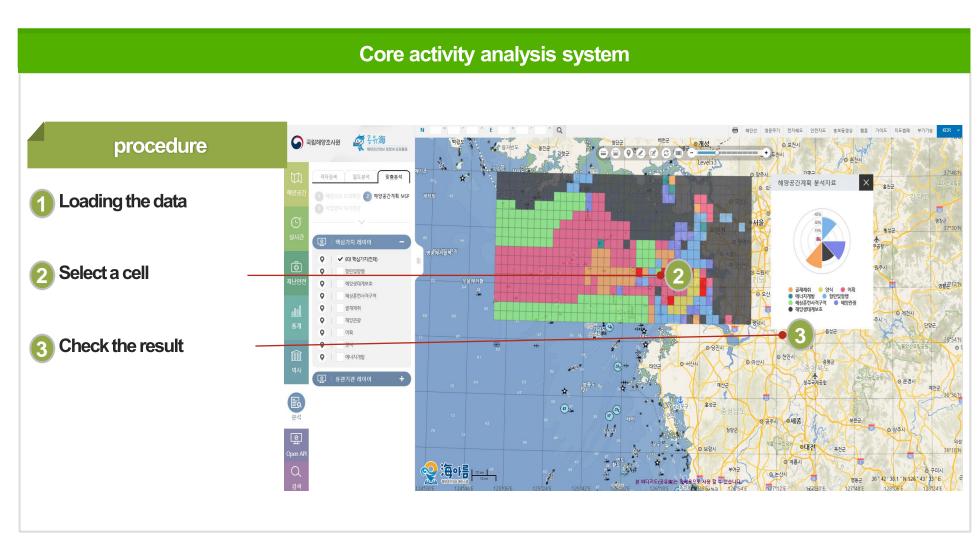
Marine sand extraction



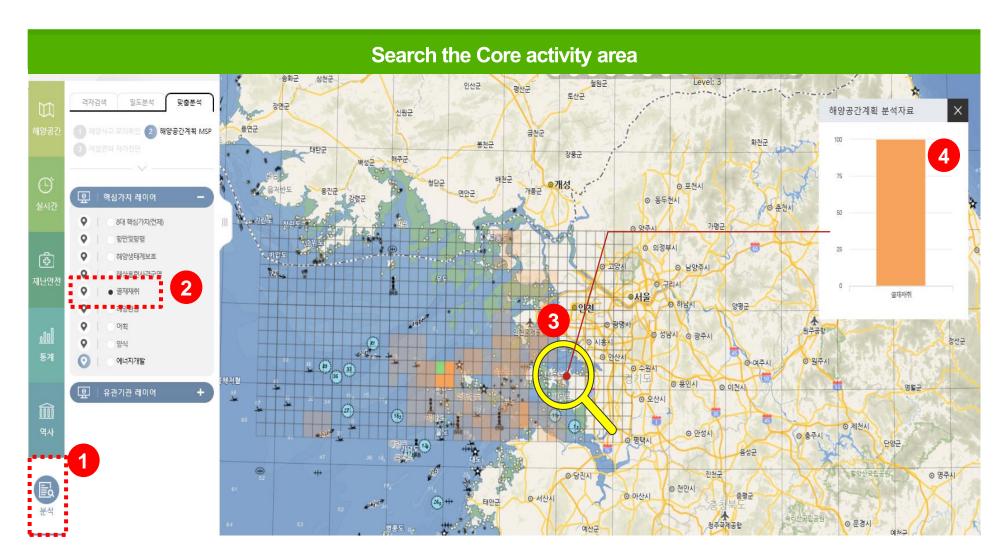
Tidal energy Wind energy











Challenges





Harbor sea fog

Port traffic

Amount of fish catch per year

Economic route

Data integration (Link / Update)

Various Service (Customized)

Business Model (Development)

Maintenance Laws (For MSDI)



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Venue & main agenda



Meeting place

• The 2nd EAHC-MSDIWG meeting was held in Singapore in June 2019.

Participants

• 35 participants from 10 countries (Brunei, China, Indonesia, Japan, Malaysia, Philippines, Rep. of Korea, Singapore, Thailand, Vietnam).

Main Agenda

- National presentation from Members on the status of MSDI
- Reports on IHO MSDIWG10 & UN-GGIM WG-MGI1
- Direction of WG: Result of the questionnaire to be shared
- Review of the WG work plan

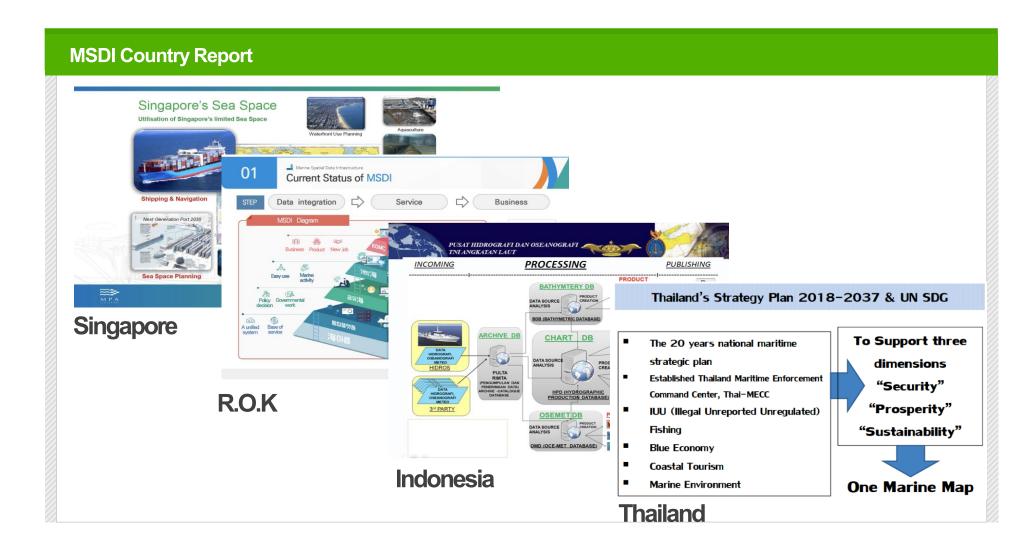


EAST ASIA HYDROGRAPHIC COMMISSION 10th TRDC-BOD, 2nd MSDIWG and 8th CHC Meetings 25th to 28th June 2019, Singapore



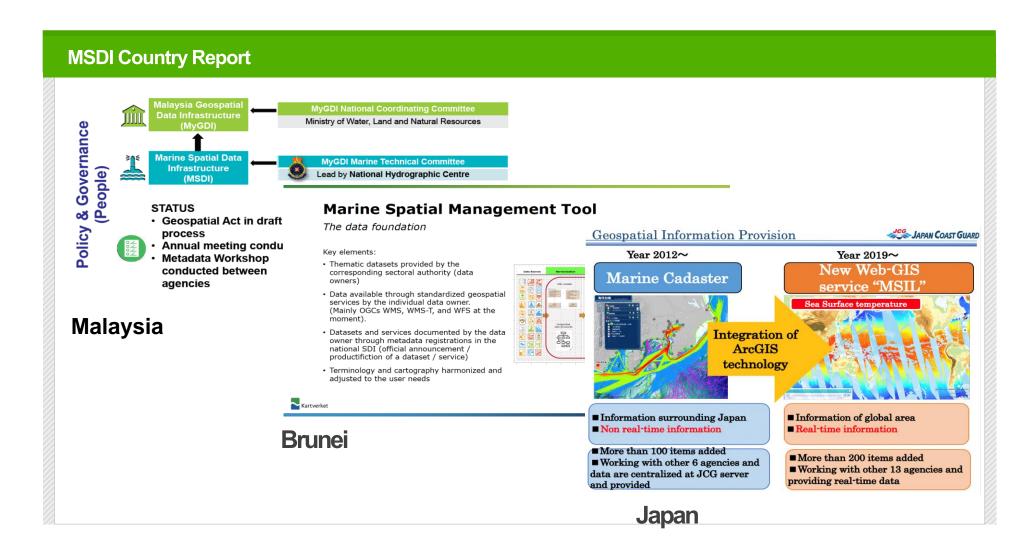
Country report from MSs





Country report from MSs





WG Work plan



Work Plan 2019-2021

- Task A (Leadership and coordination for policies, governances, and standards)
 - Develop a vision and mission statement of the WG
 - Communicate and liaise with relevant international organizations
 - Support to draft data policy statements of national MSDI in EAHC
 - Identify relevant standards to support the implementation and operation of MSDI
- Task B (Operational data sharing and management)
 - Identify user's needs and requirements for MSDI
 - Establish an EAHC marine spatial data center.
- Task C (Training and education)
 - Develop and maintain training syllabi

Action items of the last meeting



Action 1: Singapore to present the involvement of Institute of Higher Learnings in GeoSpace-Sea's development at the next WG meeting.

Action 2: Indonesia to share marine data themes once refined at the next WG meeting.

Action 3: Chair to send a template to request MSs to provide NMSDI governance structure and to present the results at the next WG meeting.

Action 4: Singapore, with support from Indonesia, Japan, ROK and any other interested MSs, to develop a draft guideline on EAHC-MSDI standards and present at the next WG meeting.

Action 5: MSs are requested to complete the IHO MSDI questionnaire (MSDI & MSP) if and when circulated, and to provide a copy of the completed questionnaire to EAHC-MSDI WG Chair for information.

Action 6: ROK to inform TRDC-BOD Chair of the IHO MSDI training materials when it is completed.

Action 7: Vice-chair to collate a list of potential key users of NMSDIs from MSs

Action 8: As part of the WG Work Plan ROK to develop a prototype EAHC-MSDI portal and to report at the next WG meeting.

Action 9: The proposed WG Work Plan will be reported by Chair in the next EAHC SC Meeting in Japan for endorsement.

Action 10: EAHC-MSDI WG Chair, Singapore and host country to coordinate the MSDI Workshop Programme.





Spatial Data Infrastructure

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Documents

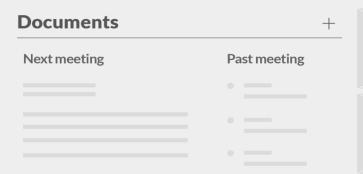
Capacity building

EAMSDI services

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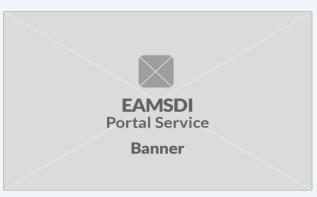


Main Visual









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Date To-From	YEAR
Country	
Date To-From	YEAR
Country	

NATION	MSDI	HYDROGRAPHIC BUREAU	COAST GUARD
Republic of Korea	_	_	_
Japan	_	_	_
Philippines		_	_
Indonesia	_	_	_
Thailand	_	_	_
China	_		
Brunei		_	_
Malaysia			
Singapore		_	
DPRK	_	_	_
Vietnam	_	_	_

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Date To-From

Country











EAMSDIWG1 🖺

29th-30th, November, 2018

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MSDI



SDI / MSDI training materials



IHO

International Hydrographic Organization
Organisation Hydrographique Internationale



UNGGIM

United nations Initiative on Global Geospatial Information Management

Standards



OGC

International Hydrographic Organization
Organisation Hydrographique Internationale

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UNGGIM



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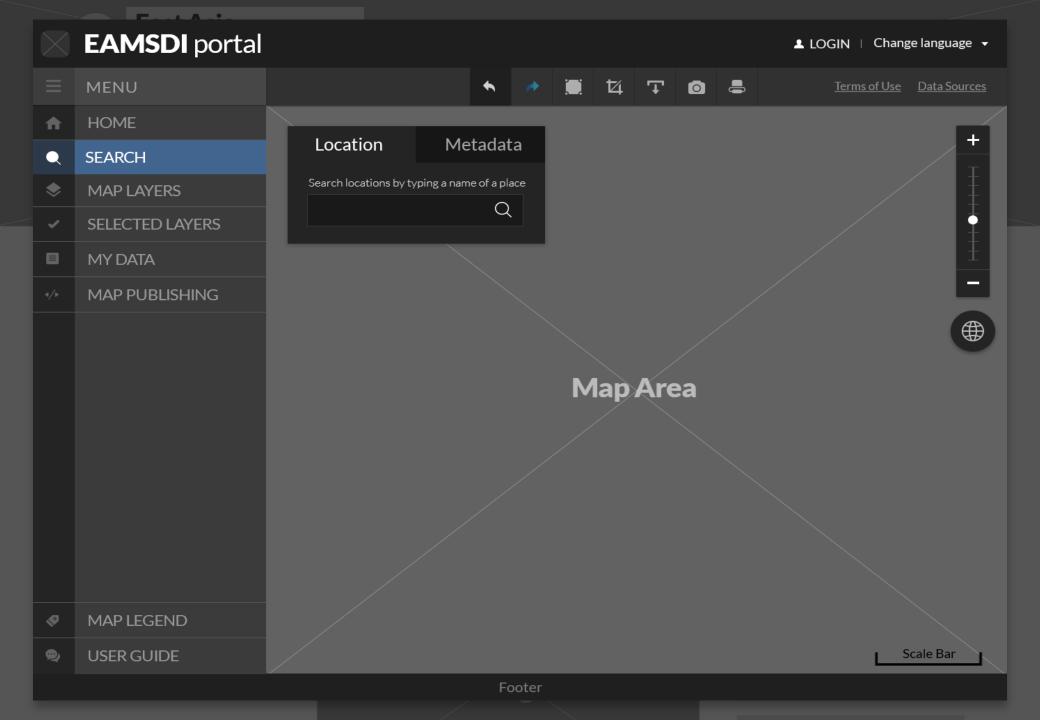
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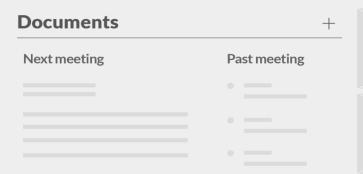
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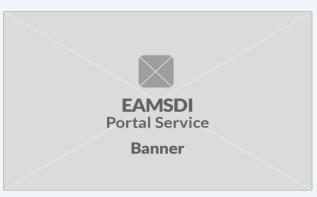


Main Visual











Thank you

