GeoSpace-Sea

Singapore's National Marine Spatial Data Infrastructure
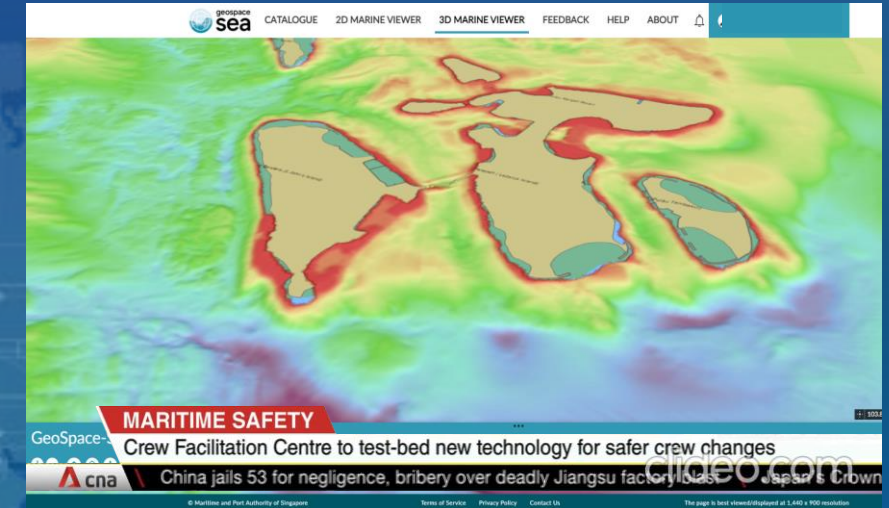
Maritime and Port Authority of Singapore (MPA)
IHO MSDI WG Online Meeting
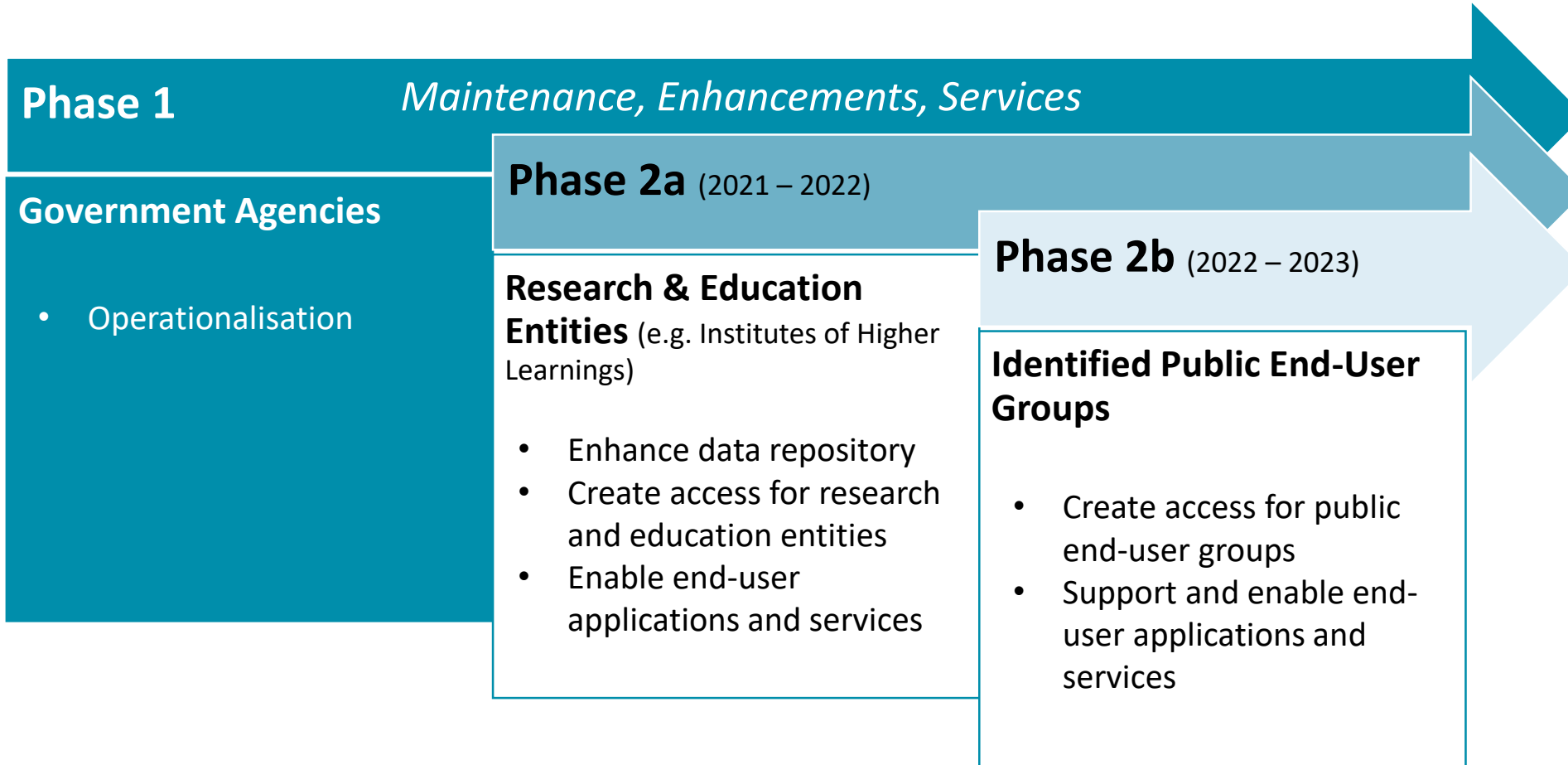17 – 18 March 2021

Launch of the GeoSpace-Sea Phase 1

- GeoSpace-Sea was launched at the International Safety@Sea 2020 Opening Speech by SMS Chee Hong Tat, 30 Nov 2020

- The national central repository of marine and coastal spatial data is presently accessible by participating government agencies via the GeoSpace-Sea portal.
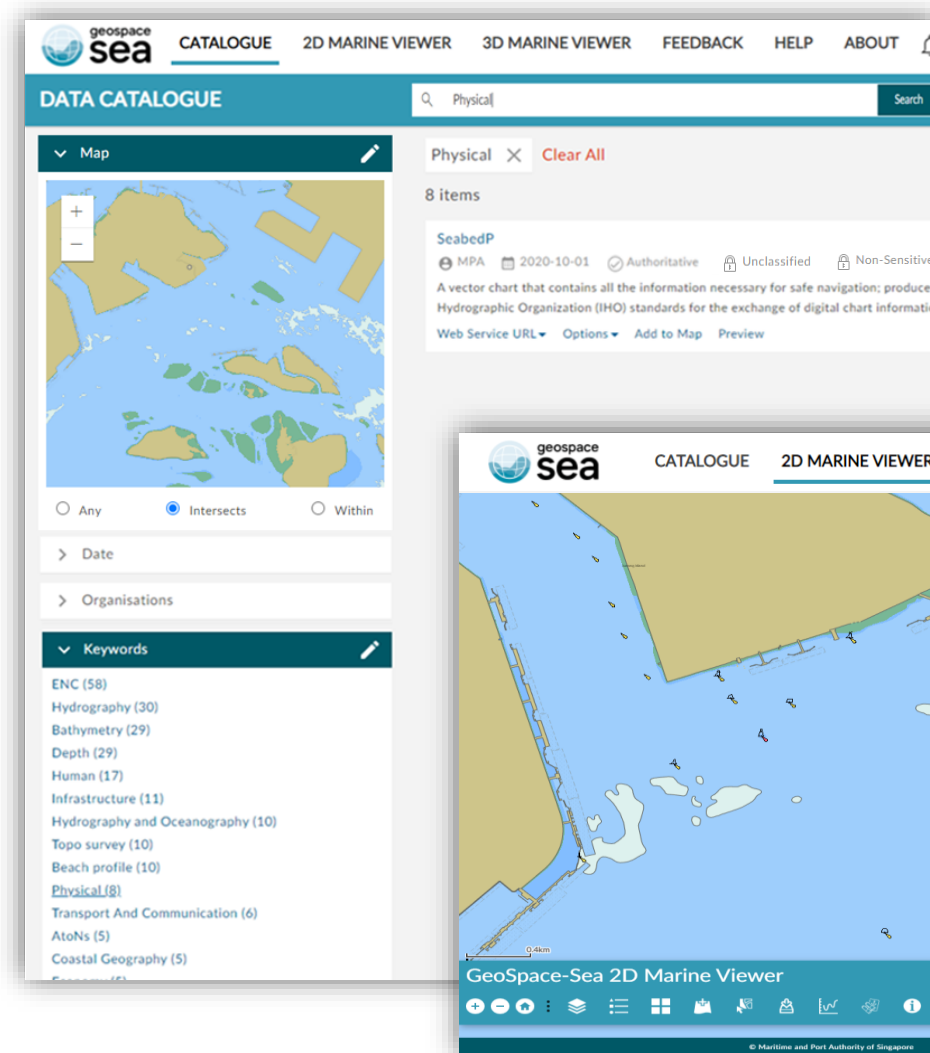
Strategic Direction of GeoSpace-Sea

Phase 1

Maintenance, Enhancements, Services

Government Agencies

- Operationalisation

Phase 2a (2021 – 2022)

Research & Education Entities (e.g. Institutes of Higher Learnings)

- Enhance data repository
- Create access for research and education entities
- Enable end-user applications and services

Phase 2b (2022 – 2023)

Identified Public End-User Groups

- Create access for public end-user groups
- Support and enable end-user applications and services

GeoSpace-Sea Data Discoverability

- Discoverability of multi-disciplinary marine and coastal data

- Filter, search and discover by:
  - Spatial (extent)
  - From standardised metadata - keywords, source, date

- Further enhancements using technology may be required with more complex variety, volume, variability and velocity of data.

National SDI and MSDI: A Geospatial-Powered Singapore

- A GeoSmart government

- A thriving GeoIndustry

- A nation of GeoEmpowered people

- Integration of GeoSpace-Sea into the Singapore Geospatial Master Plan:

Data	Governance	Capacity Building
• Two-way data discoverability • Harmonised national geospatial standards	• Coupling of Geospatial Data Management Working Group	• National geospatial training, programmes, outreach

Looking Ahead

- **Sustain and create new partnerships to realise the benefits of GeoSpace-Sea**
  - End-user applications and services

- **Operational Sustainability**
  - (Value-added) data and services, pricing models and mechanisms
  - Quantification of the benefits and value of MSDI and open marine spatial data

- **Enhancing GeoSpace-Sea (data, metadata, standards, technology)**
  - Effectively ensure quality of diverse data and metadata
  - S-100 and MSDI

- **Operationalising an integrated MSDI and NSDI**
  - Seamless user experience

MPA
SINGAPORE