

23rd Conference of the Meso American- Caribbean Sea Hydrographic Commission

Progress on DHN Marine Spatial Data Infrastructure (IDEM-DHN)

Directorate of Hydrography and Navigation
Brazilian Navy



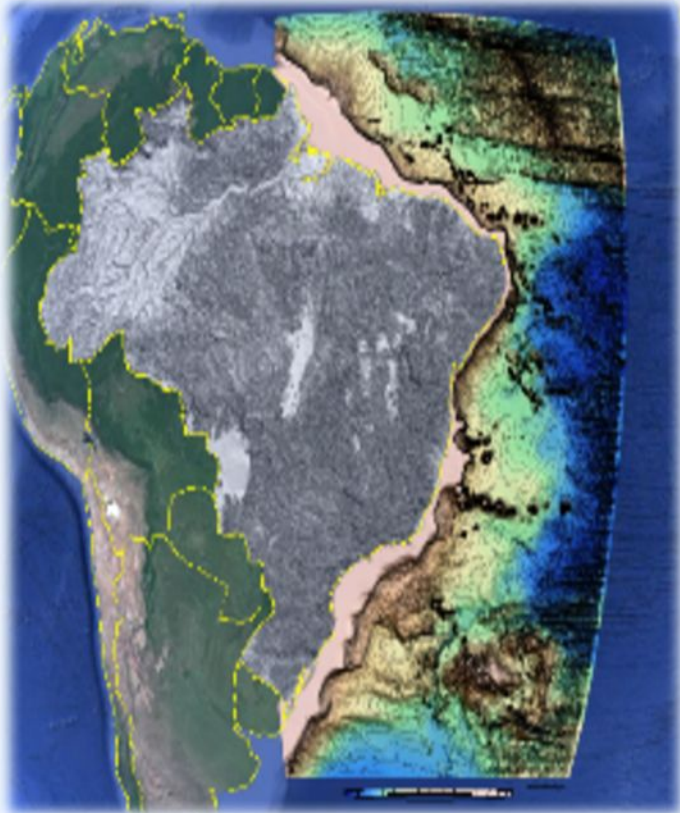
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Context

- The potential of Marine Spatial Information



<https://www.marinha.mil.br/dhn/?q=pt-br/node/168>



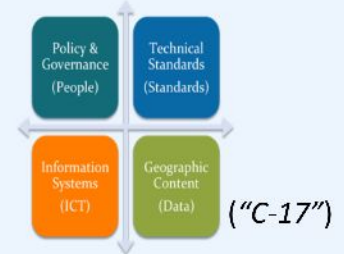
- New Technologies and Goals => SDG;
- Relationship between Nature and Society;
- **The dynamic of decisions** ("Smart Oceans...")

What's the best way to managing all of it?



Return of Investments (ROI)
("Griffin et.al,2017")

Solutions based on SDI & MSDI concept



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Main actions on DHN-MSDI

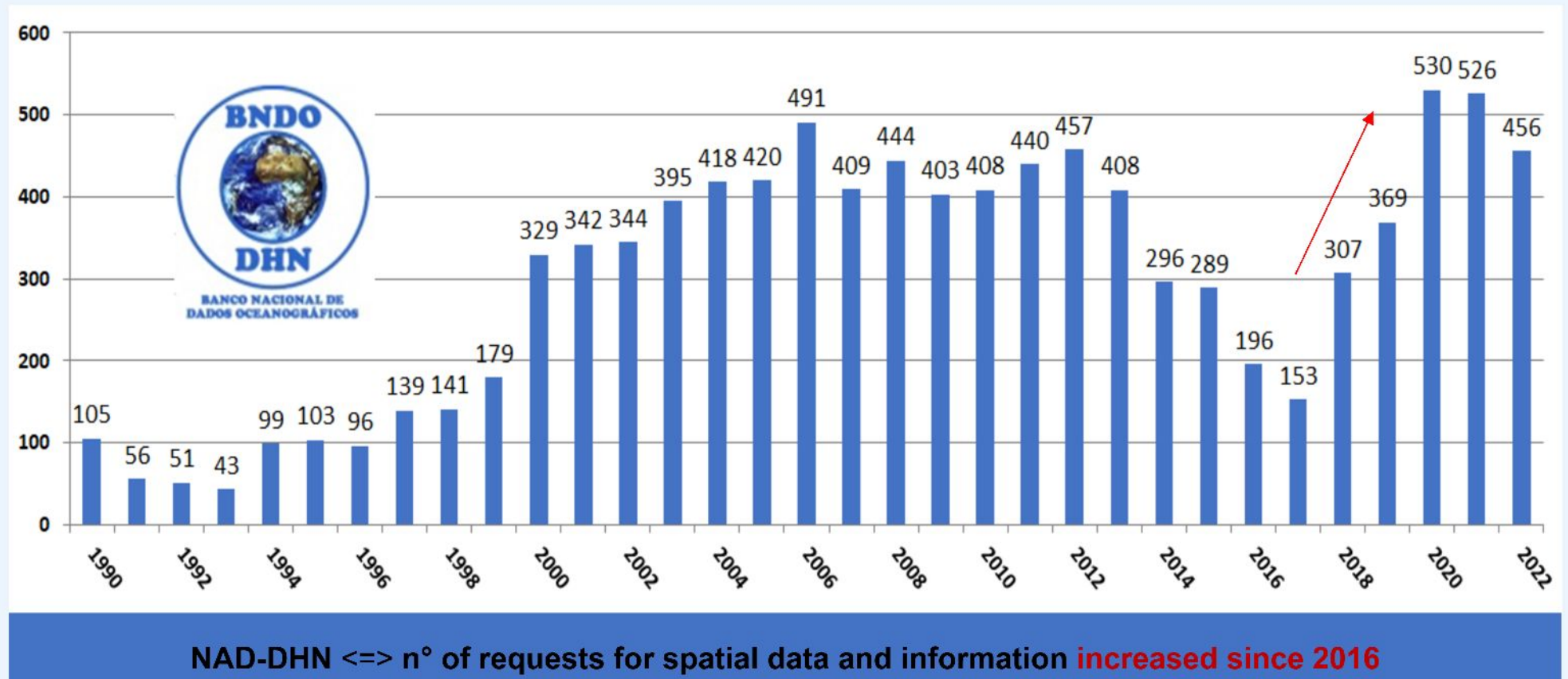
- Policy & Governance + Geographic content – Historical Request



("NAD-DHN, 2018")



("ISO9001:2015")



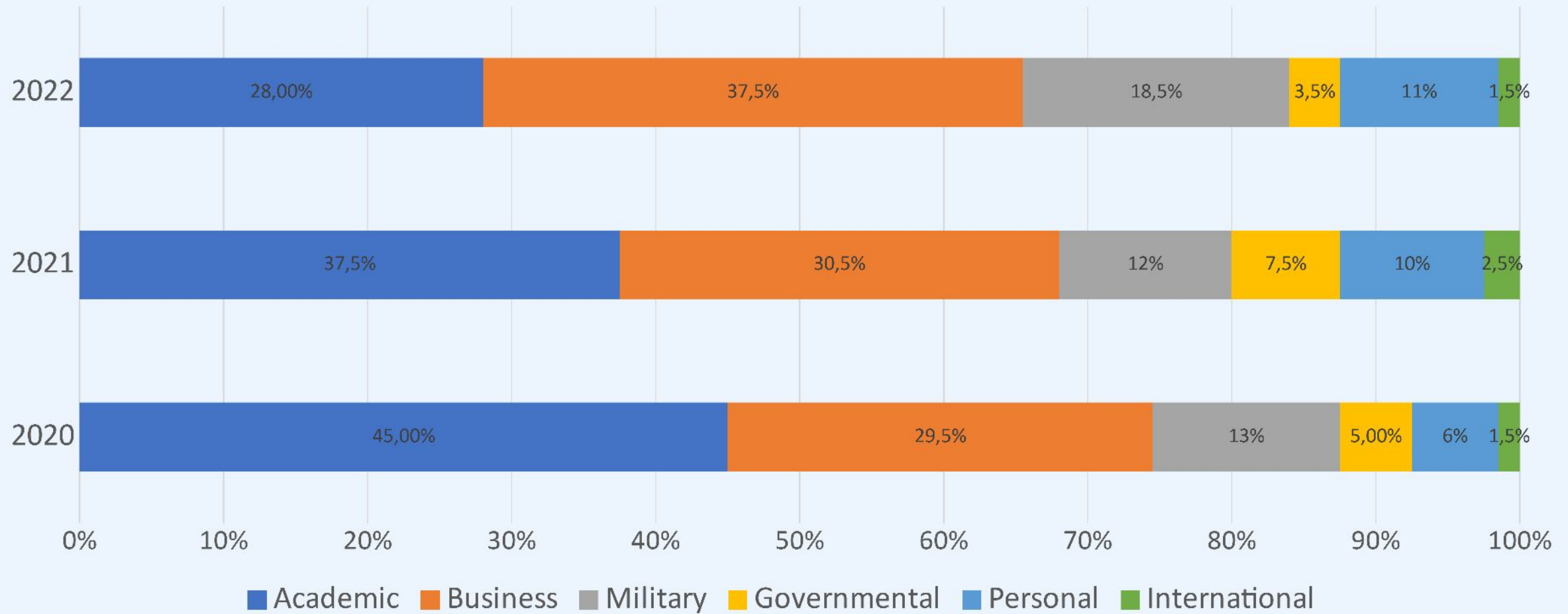
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Main actions on DHN-MSDI

- Policy & Governance + Geographic content - Percentage of Clients Categories



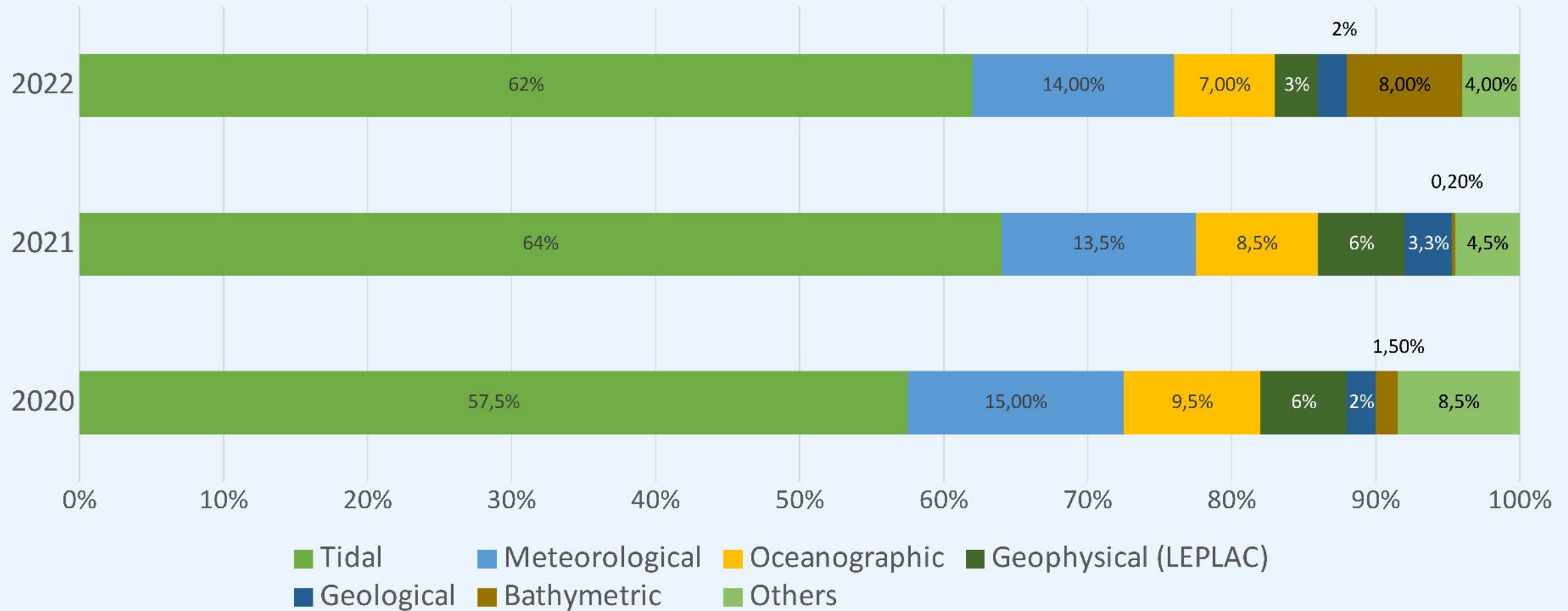
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Main actions on DHN-MSDI

- Policy & Governance + Geographic content - Percentage of Data Type Exchange



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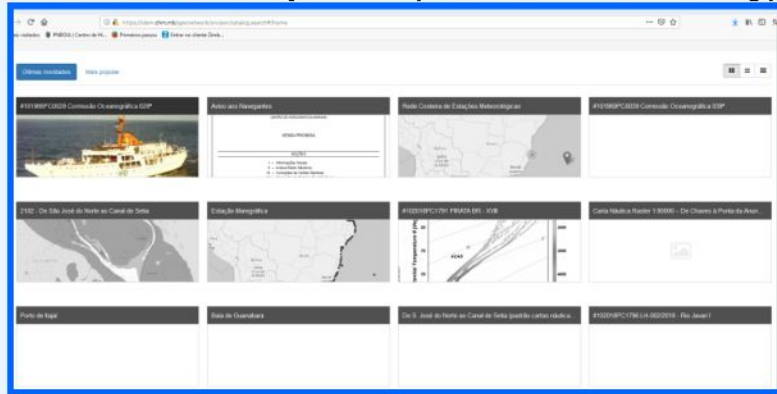
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Main actions on DHN-MSDI

- Technology Component -

Geonetwork update (Metadata catalog)



Geonetwork and Geoserver were homologated by Brazilian Navy

... However, in the meantime, we were using Geonetwork Maps API and NSDI viewer

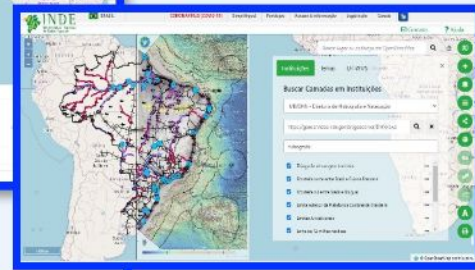
Geoportal was initially plan to 2020/2021



<https://idem.chm.mb/geoserver/estacoes/wms>
Este conjunto de dados é publicado no serviço de visualização (WMS) disponível em <https://idem.chm.mb/geoserver/estacoes/wms>.

~ 2016

Geoserver (Geoservice application)



Geoportal was homologated and launch 2022



<https://idem.dhn.mar.mil.br/>



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Main actions on DHN-MSDI - Achievement during the year -

- Technological component & Standards



GeoPortal-DHN VISUALIZADOR DE MAPAS

Infraestrutura de Dados Espaciais Marinhos

Marinha do Brasil
Diretoria de Hidrografia e Navegação
Centro de Hidrografia da Marinha

GeoNetwork
Catálogo de Metadados
Informações sobre os metadados dos serviços disponibilizados pela Diretoria de Hidrografia e Navegação

GeoServer
Catálogo de Serviços
Informações sobre os serviços disponibilizados pela Diretoria de Hidrografia e Navegação

Visualizador de Mapas
Visualização Gráfica dos serviços disponibilizados pela Diretoria de Hidrografia e Navegação

=> Metadata (586) => Layers (259) => Categories (9)

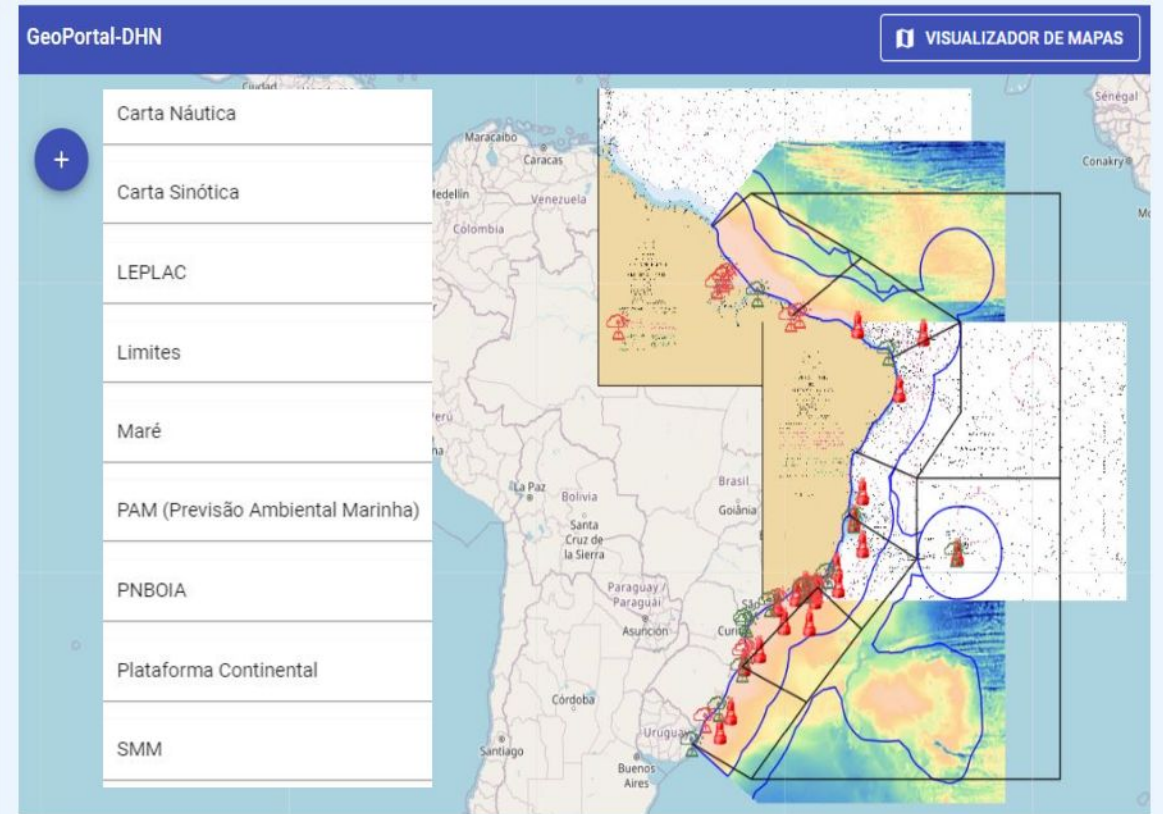
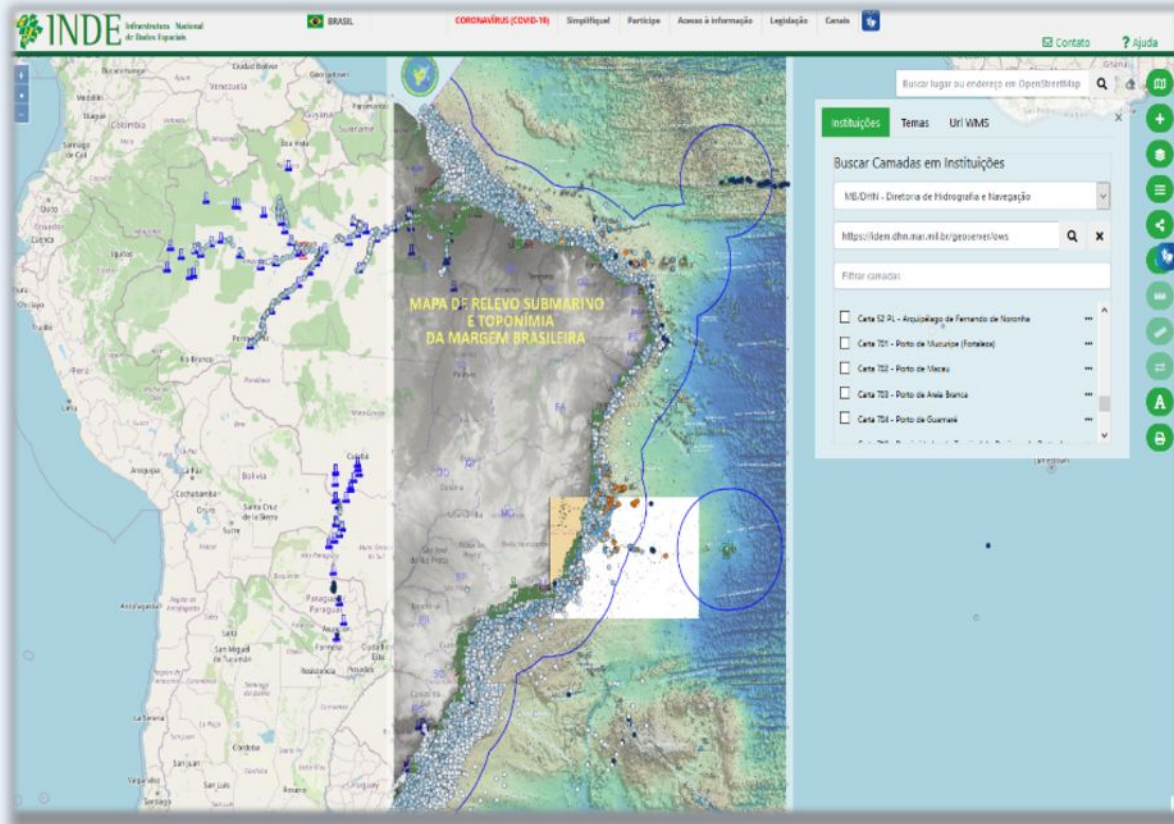
Main actions of **IDEM-DHN (DHN-MSDI)**:

⇒ contribute to NSDI

⇒ to support **Marine Spatial Planning**



Achievement during the year



Launch of the Brazilian MSDI (**IDEM DHN**) as part of the Brazilian SDI in October

<https://idem.dhn.mar.mil.br/>



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Challenges and Perspectives

- Conclude the necessary adjustments of environments *GeoNetwork* and *GeoServer* (data loading and integration process of others SDI);
- Development and implementation of more capabilities to user interact with the **marine spatial data by the geoportal IDEM-DHN**
- Reinforcement of the national **maritime identity**



Contributing with



UN-GGIM
WGMGI



Pilot project
"MSP/SECIRM"



IHO-MSDIWG (SWAtHC and MACHC)



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