



***DIRECTORATE OF HYDROGRAPHY AND NAVIGATION (DHN)
Brazilian Navy Hydrography Center (CHM)***

**10th MSDIWG Meeting
NATIONAL REPORT (BRAZIL)**

***Lt Commander Christopher
christopher@marinha.mil.br***

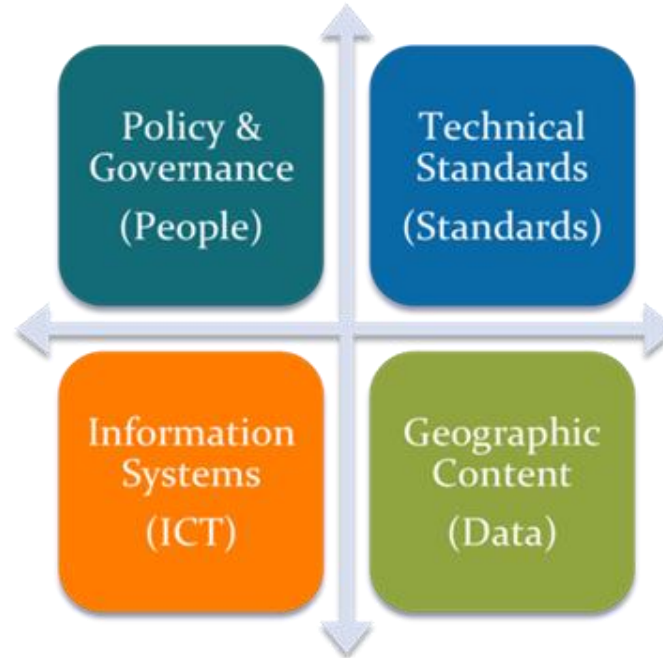
Brazil, 2019



Summary



- ✓ Main actions on DHN-MSDI (2018)



- ✓ Challenges and Perspectives



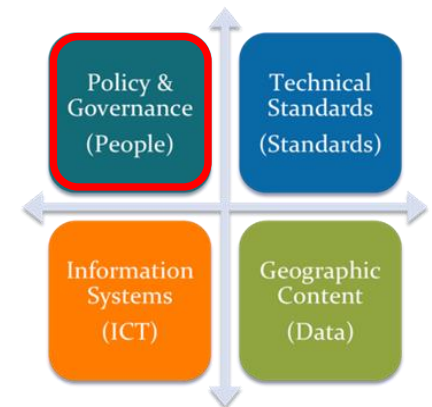
Main actions on DHN-MSDI - policy and governance -



DHN hosted the MSDI Open Forum, OGC Marine Domain WG Meeting and the MSDIWG9 (Jan/Feb2018);



Publication of Access Policy to Open Data and Information of DHN (NAD-DHN, 2018)

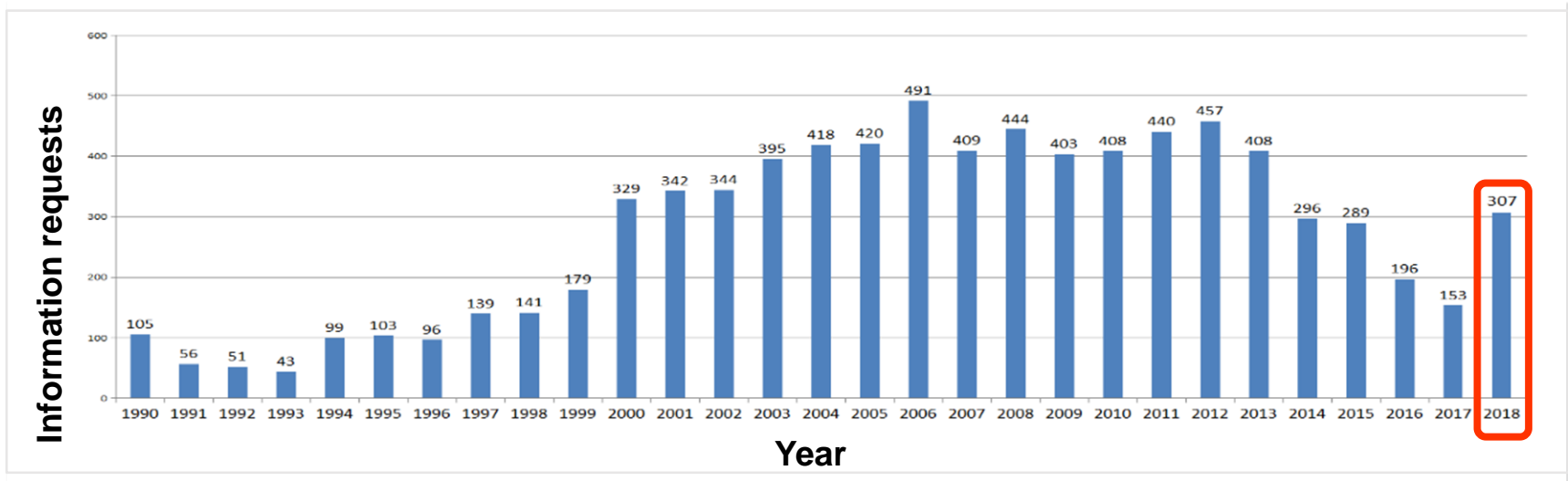




Main actions on DHN-MSDI - technical standards -



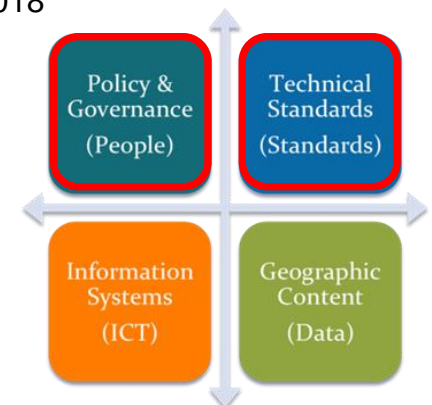
NAD-DHN \Leftrightarrow n° of requests for spatial data and information increased in 2018



Monitoring of claims by data and information of NODC from 1990 to 2018



Adjustments on operational procedures of CHM-QCS to follow the NAD-DHN guidelines
(in constant updating)





Main actions on DHN-MSDI - technology component -



Update of procedures to data and information submission to NODC => helping the register of metadata catalog

BNDO

Acesso a Dados e Produtos

Download Gratuito

Outros Dados e Produtos

Envie seus Dados

Primeiro Acesso

Login

Sites Relacionados

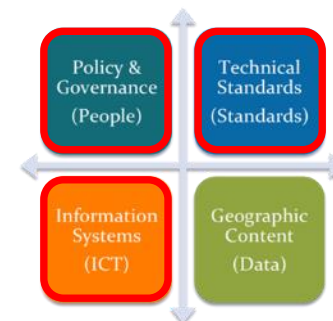
WEB FORM:

Submission:

<https://www.marinha.mil.br/chm/webform/solicitacao-de-acesso-para-formulario>

User access:

<https://www.marinha.mil.br/chm/user/>

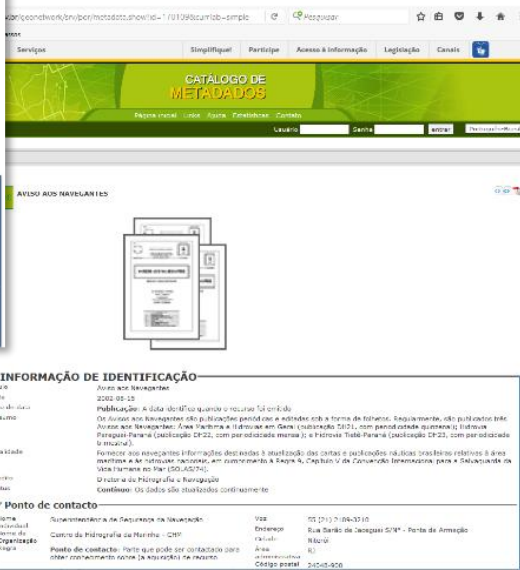
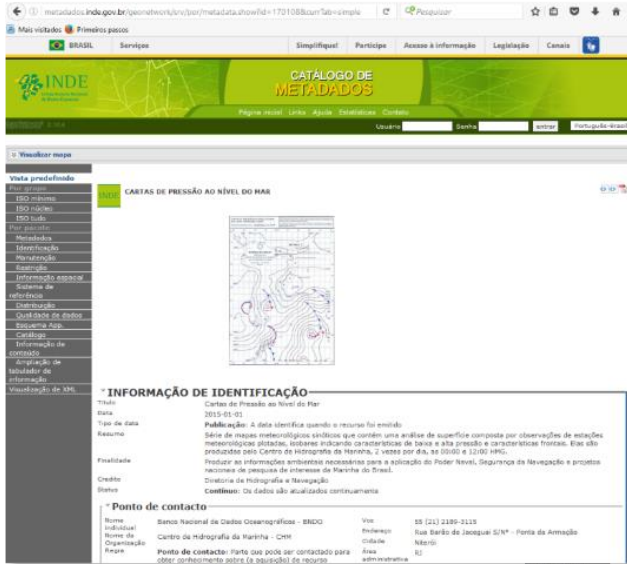




Main actions on DHN-MSDI - technology component -



Contribution to NSDI providing new metadata => e.g. Notice to Mariners and Synoptic Charts

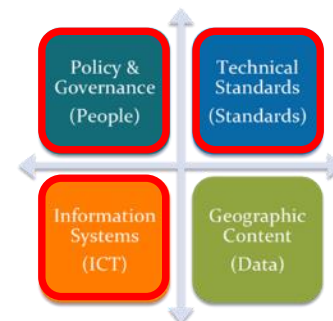


Notice to Mariners:

<http://www.metadados.inde.gov.br/geonetwork/srv/por/metadata.show?id=170109&currTab=simple>

Synoptic Charts:

<http://www.metadados.inde.gov.br/geonetwork/srv/por/metadata.show?id=170108&currTab=simple>



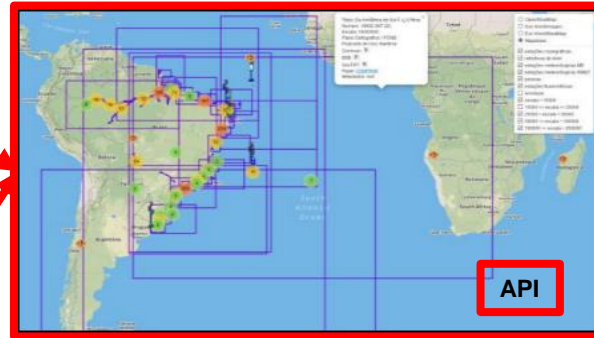


Main actions on DHN-MSDI - technology component -

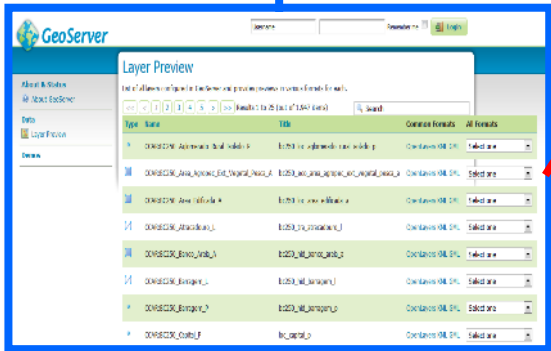
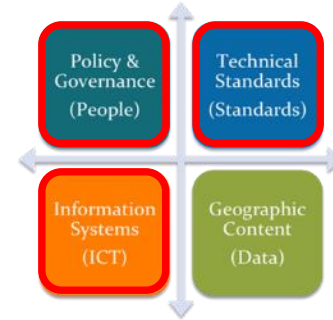
GeoNetwork (Metadata catalog)



Future application of map viewer for the interaction with spatial data (**geoservices**)



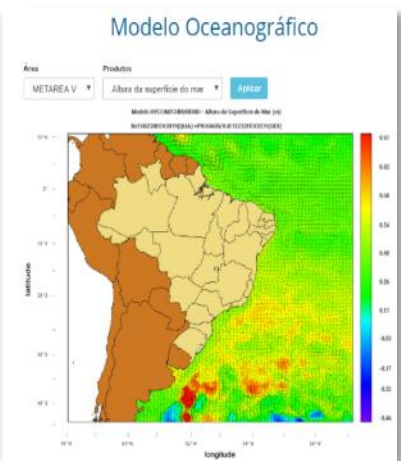
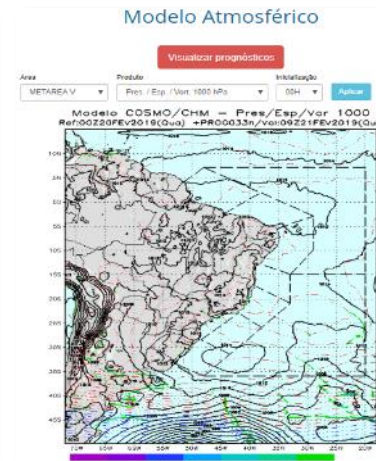
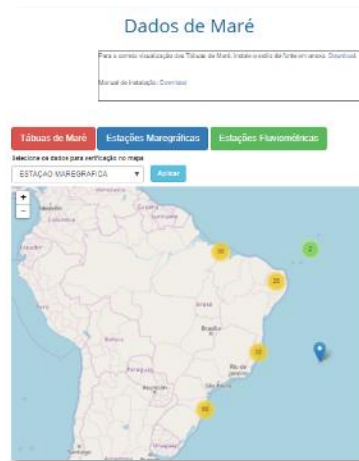
We still looking for...



Current applications for **independent** visualization of data and products

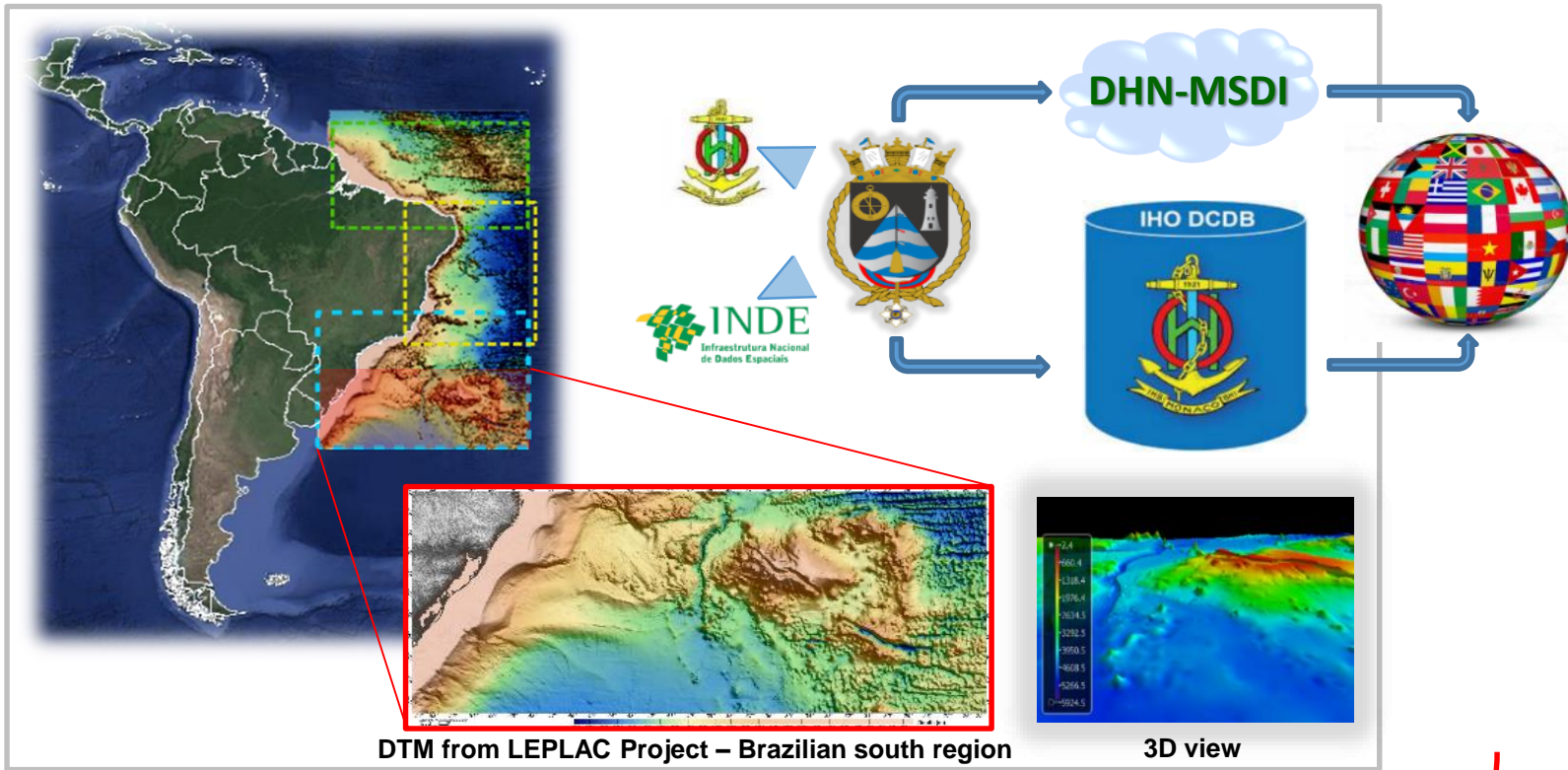
GeoServer (Geoservice application)

In the 2^o step of
Brazilian Navy IT
homologation process





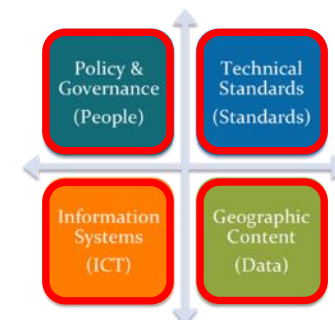
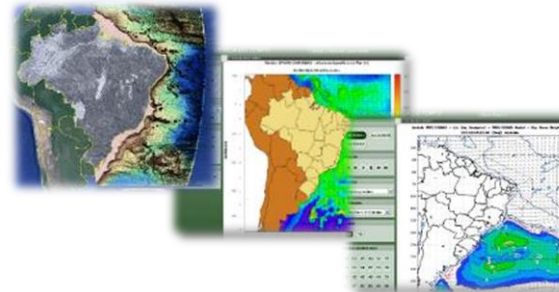
Main actions on DHN-MSDI - spatial data and information -



DTM from LEPLAC Project – Brazilian south region

3D view

Recent studies have presented that sharing bathymetric data through MSDI, represents a large number of potential benefits within national and international context



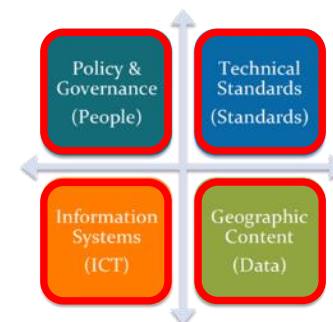


Main actions on DHN-MSDI



- participation in events of Academy and Open forum -

- **Brazilian Symposium on Marine Geology and Geophysics** (Nov. 2018)
- **Brazilian Symposium on Spatial Data Infrastructures** “Celebrating 10 years of NSDI” (Nov. 2018)
- **Submission of a review article about SDI, NSDI and the MSDI to a national scientific periodic** – in progress
- **Participation in Academic debates and Postgraduate courses regarding SDI and GIS**





Challenges and Perspectives



- **Need to raise staff training to get more people with SDI expertise**, in order to build a solid technical body that will be responsible to operate and maintain the DHN-MSDI;
- **Conclude the homologation process of environments *GeoNetwork* and *GeoServer*** (data loading, searching and sharing with integrity and security) ;
- **Search of a map viewer platform to DHN-MSDI** (are APIs the best solution?);
- **New layout of internal sectors (suitable to face this challenge)**
- **Creation of a Committee for Management and Operation of DHN-MSDI.**



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Thanks!!!

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Brazil, 2019