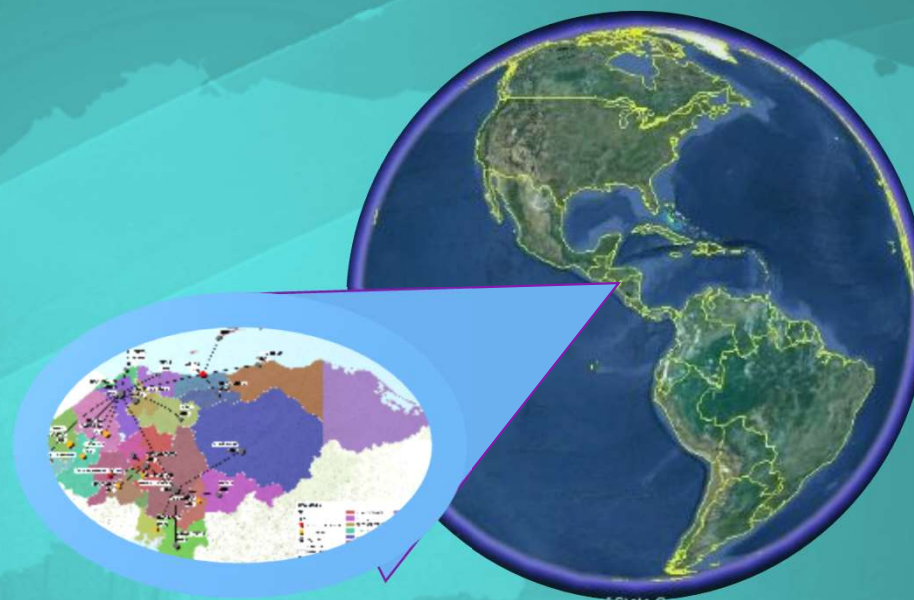# Integrating Spatial Data Infrastructure

- Mgs. **Yidda** Handal
  - Singapur
  - May 11, 2022

International Seminar on the United Nations Global Geospatial Information Management (UN-GGIM)

COUNTRY BACKGROUND

•**Honduras at the center of Central America.**

•**Area**: 112.492 km²

•**Population**: 9.6 million

•**Adm. Division**: 18 departments, 298 municipalities

•**Parcels**: ± 2.8 million

•**Urban parcels average size:** 1,152.10 square meters (m²) and rural parcels average size 7.31 hectares (ha)

•**Approximately 60%** of the total parcels nationwide have registration irregularities or are not registered, having an extra legality status or no land title.

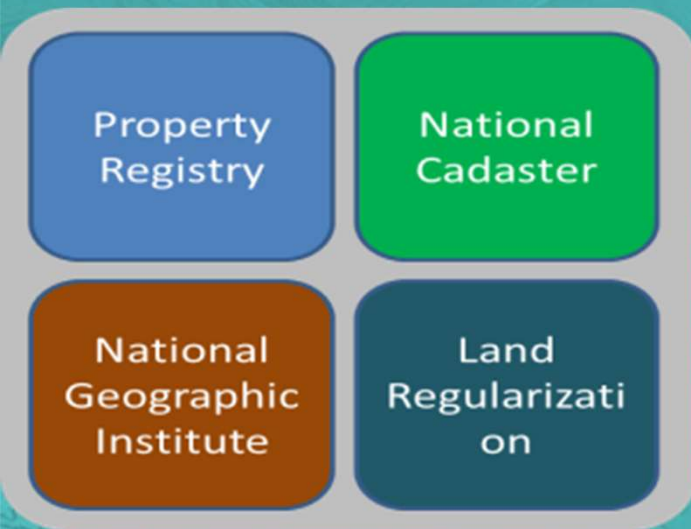•**Peoples**: Indigenous peoples 800,000 habitants (9% of the country)

Experiences acquired for the Integration of Geospatial Data with the municipalities and Challenges…

LEGAL BACKGROUND

2004 Property Law-The Property Institute

Before the Property Law:

Property Registry	National Cadaster
National Geographic Institute	Land Regularization

Desconcentrated agency from the Presidency of the Republic

With patrimony and legal representation

IP — INSTITUTO DE LA PROPIEDAD

Oversees the property registries, the national cadaster, geospatial information, and land tenure legalization

Implements the parcel-based registration technique (*folio real*)

Operates with technical, administrative and financial independence

LEGAL – The Institute

The Properties Registry it is responsible for create and operate an Integrated Property System which includes several registries:

- **Land Property Registry**
- **Cartography Registry**
- **Commerce Registry**
- **Vehicle Registry**
- **Intellectual Property Registry**
- **Special Registries:** integrate Civil Legal Persons, Cartographic Information, Geographic Information, Concessions granted by the State, Historical Heritage, Cultural Heritage, World Heritage, Protected Areas and others.
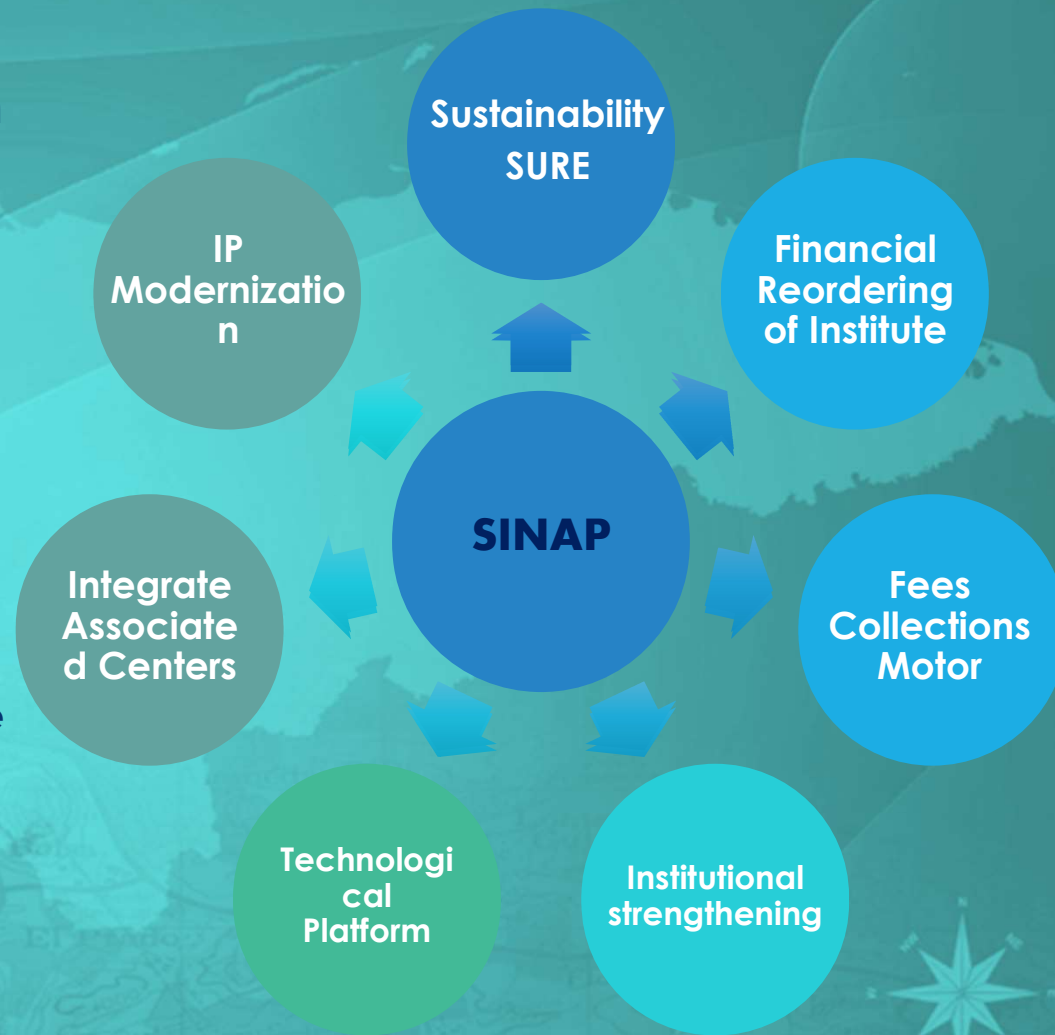
In 2013 Constituted a Trust fund for the Administration of the National Property Administration System SINAP.
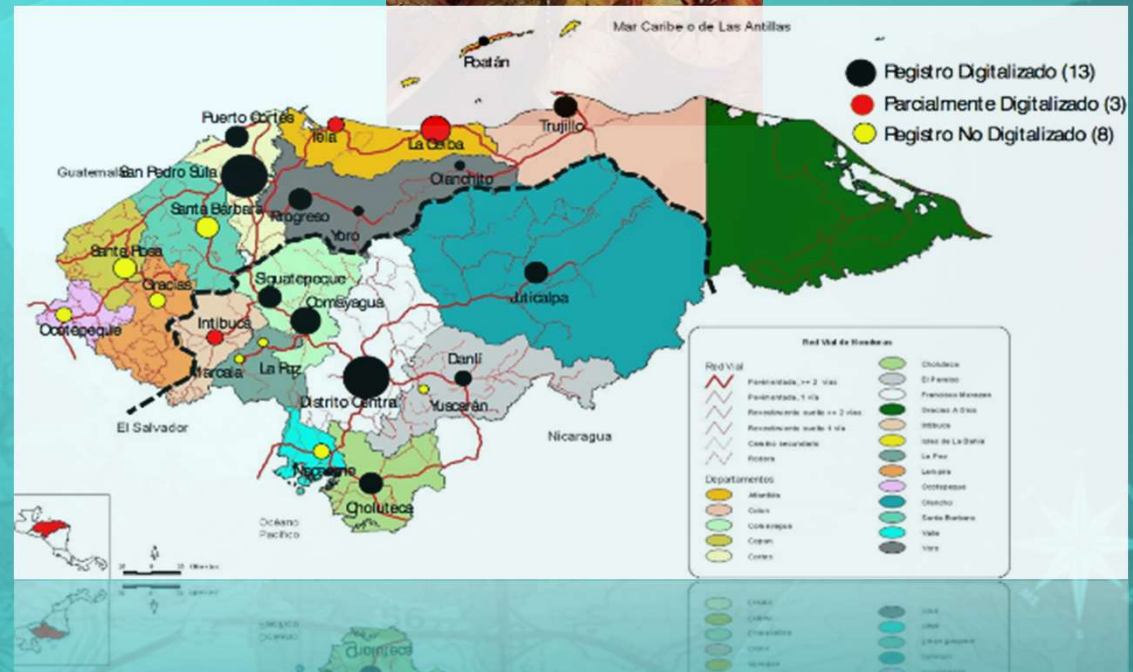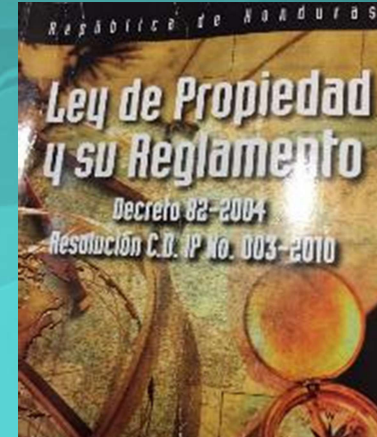
LEGAL – The National System

The National Properties Administration System "_SINAP_":

o It relates high-level Development Planning to intermediate and local schemes

o It links the actions of public and private institutions that carry out processes related to the physical resource of the Nation.

o It allows local governments to design and execute their development plans based on territorial planning.

o It allows the integration and participation of all actors in the territorial space, with efficient and safe use of resources towards the sustainable development of the Nation.

o It is also responsible for the administration of the National Information Territory System, must include all the information as local plans, land use, zoning, permits, environmental plans, real state, legal documents, etc.

Sustainability SURE

IP Modernization

Financial Reordering of Institute

SINAP

Integrated Associated Centers

Fees Collections Motor

Technological Platform

Institutional strengthening

LEGAL – The National System

<u>SINAP includes:</u> Unified System of Registries -SURE, National Territory System- SINIT and Territorial Norms Registry - RENOT

Property Registries

Registry Books

Extract +Digitalization

Registration Code

SURE
Sistema Unificado de Registro

Cartography Registry

Cadastral Map

Cadastral Form +Map

08010033
Spatial Migration

Unified System of Registries "SURE"

Regular Properties

Irregular Properties

The services SURE provides:

❖ Workflows integrated through the presentation of documents in the properties registry with others.

❖ Approval and integrated transactions of data and documents with the Municipalities.

❖ Simplified process on the Generation of new titles through the automated regularization process.

❖ Automatic irregularity alerts.

❖ Digitalization and protection of historical information of Land Registries and cadastral information.

❖ Management of cadastral maps *(of different categories)* and their integration with alphanumeric data and documentary record.
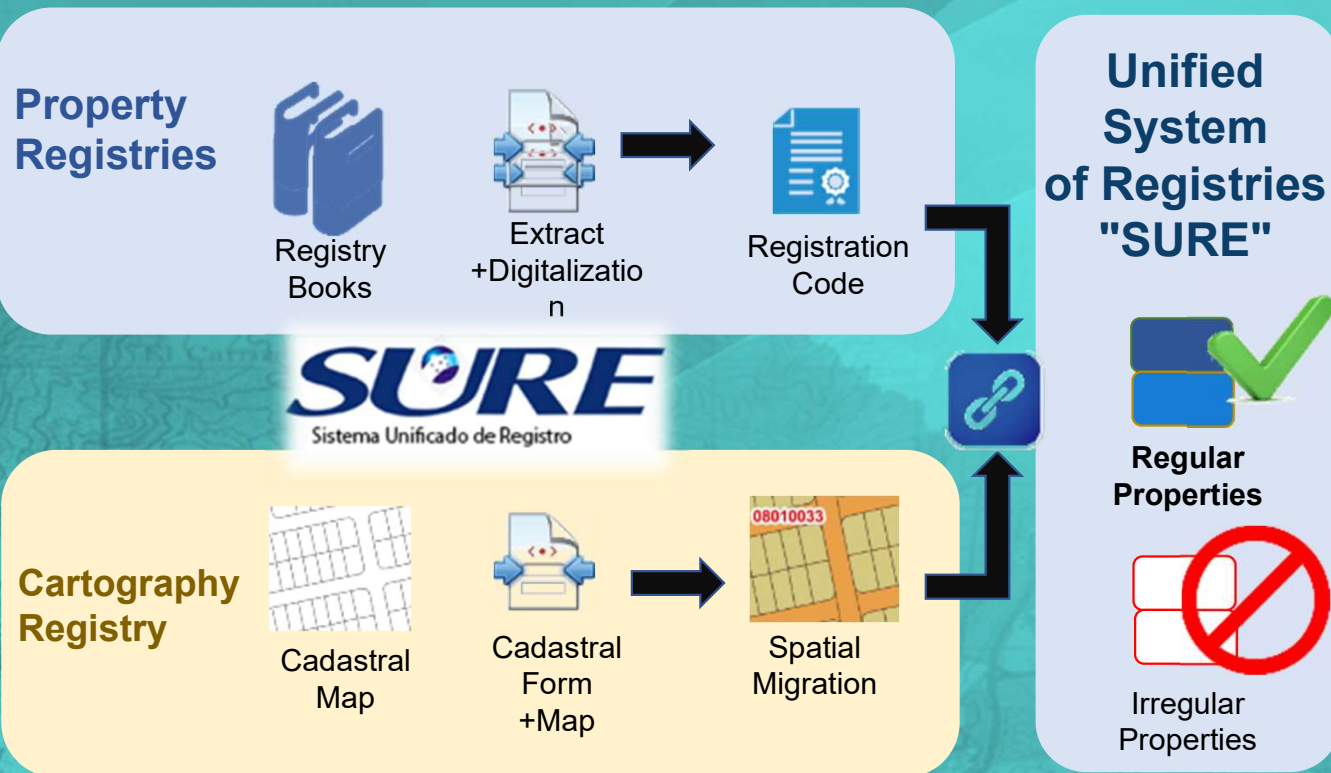
Integrating Services Trough The National System

- **Strengthen the different Registries as one Regulatory and Supervisory Entity.**

- **Decentralization of Properties Services through Associated Centers**

- **Automation of some Offices.**

- **Make the data interoperable**

- **Conducting personnel training y certification.**

- **Simplify processes within institutions and local governments.**

- **Provide services in the Associated Centers.**

Integrating Services Trough The National System

Decentralization of Services towards Municipalities and Associated Centers

Associated Centers (AC)

Partners (municipalities, banks, and others) that can offer de-centralized services of the Property Institute through customer attention windows.

Associated Centers will be responsible for integrating and supporting cadaster and register maintenance and service provision.
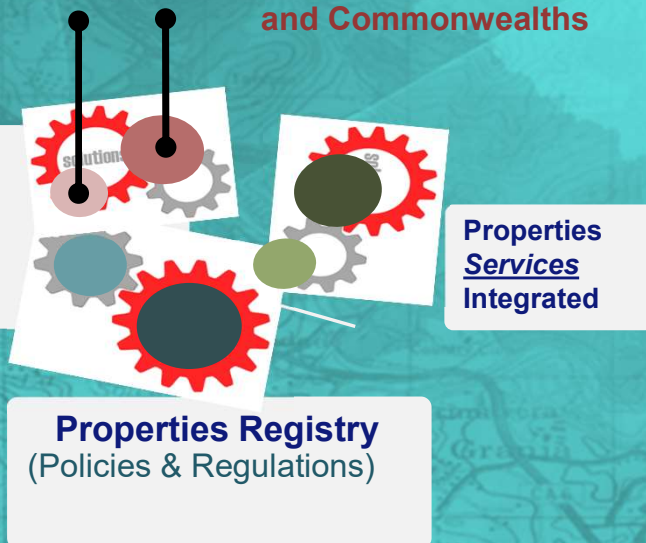
Certified Associated Centers
- Notaries
- Banks

Municipalities and Commonwealths

Outsourcing Operator
- System
- Data Center
- Services

Properties Services Integrated

**Properties Registry**
(Policies & Regulations)

What to Expect:

❖ Bridging the services with the Associated Centers it is expected to reach the highest standards of productivity and quality.

❖ Define the parameters of measurement of results and service levels through service indicators such as time and costs for each service, including fines and penalties derived from non-compliance but also reducing the cost for the citizens.

❖ Define regulations, processes, certifications, procedures and mechanisms for conflict resolution in services through the creation of a specialized and integrated units.

❖ Prioritize investments within a strategy that includes the administration of trust funds and those of the Property Institute in a comprehensive manner
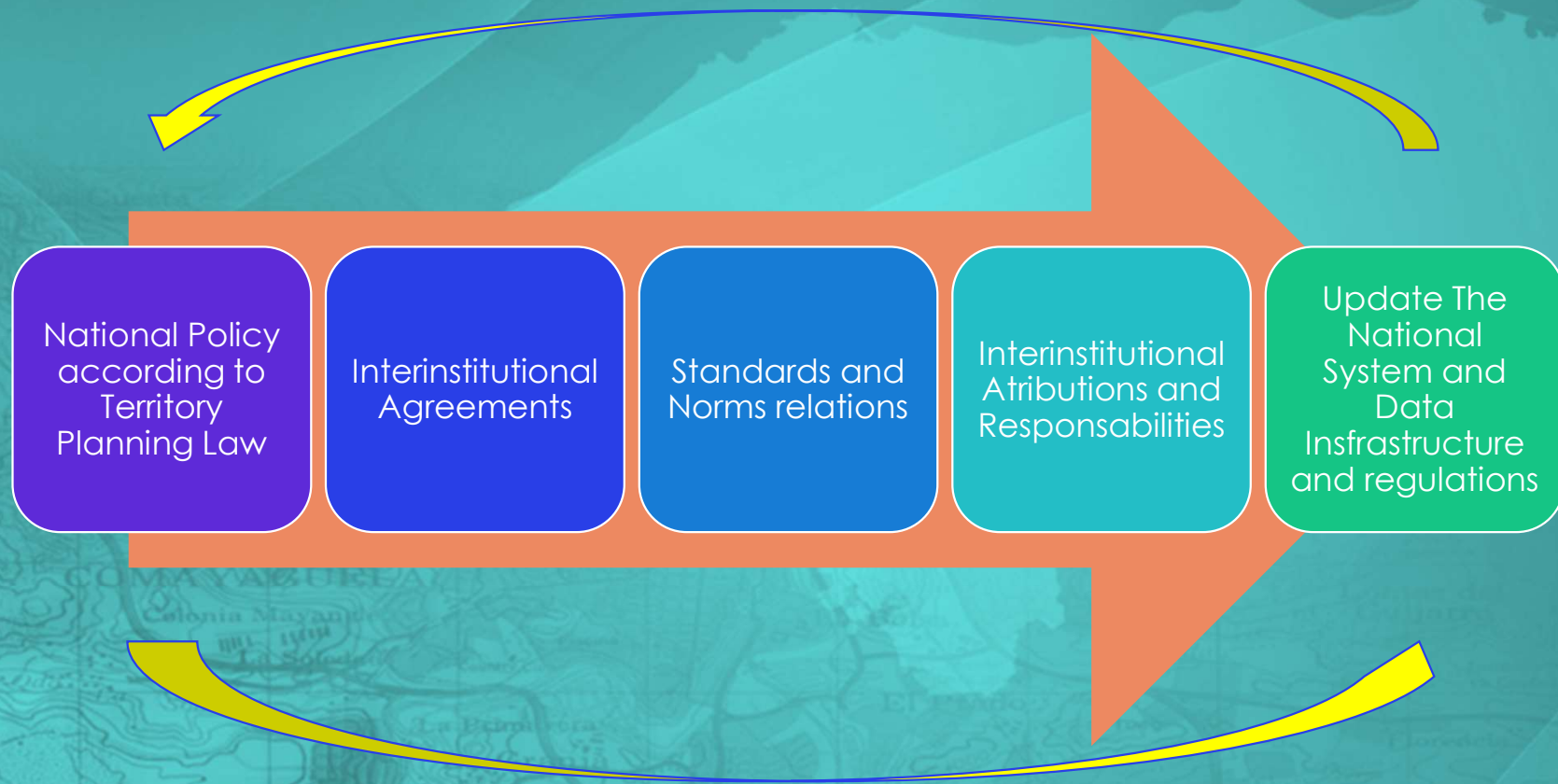
HOW WE OVERCOME THE CHALLENGES OF INTEGRATING GEOSPATIAL DATA

❖Bridging the Interoperability with other institutional platforms
❖Changing the architecture oriented on Web services, incorporating flexible and scalable technologies.
❖Developing of Interfaces that work with the Associated Centers that includes online payments.
❖New publication environment for the system.
❖Data channel encryption.
❖Structuring data according to the global themes.
❖Land survey in areas with no data in the country.

LAND USE STANDARIZATION
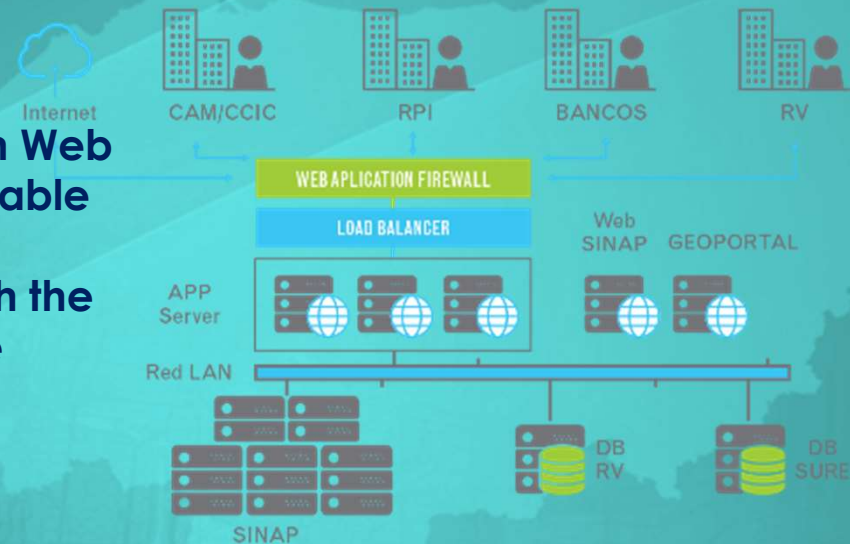
Integration of platforms and technologies that seek Data Standardization …

Integrating Spatial Data Infrastructure with Other Platforms- STANDARIZATION

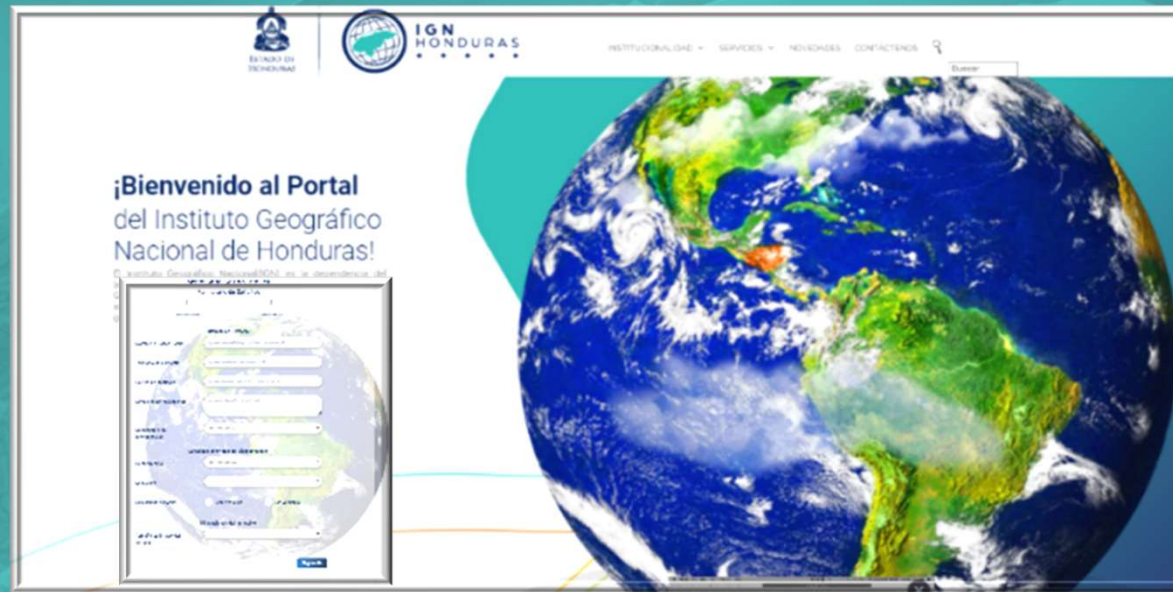# Integrating Spatial Data Infrastructure with Other Platforms

Chile-Honduras Agreement

❑ **Transfer of technological infrastructure and data configuration**

❑ **Transfer of technical knowledge in the use of tools through a training process.**

❑ **Accompaniment in the definition of production processes such as production control with Geonode tools and surveys through mobile devices.**

❑ **Accompaniment in the publication processes using a geoportal and a control panel (dashboard)**

Integrating Spatial Data Infrastructure Platform for Web Services in Connection with The National System

Integrating Spatial Data Infrastructure Sharing Capacity

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Mission: Sentinel-2 Instrument: MSI Sensing Date: 2020-11-25T16:26

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Download URL: https://scihub.copernicus.eu/dhus/odata/
Mission: Sentinel-2 Instrument: MSI Sensing Date: 2020-11-

621_N0214_R040_T1...

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DD

Training relationship for Territory Analisys and the management of satellite images through the National Laboratory of Territory Planning LANOT of the National Autonomous University of Mexico UNAM..

Copernicus Open Access Hub

OPPORTUNITIES

NATIONAL PLAN 2010 - 2038

Visión de País (2010 - 2038)
Objetivos Nacionales y Metas de Prioridad Nacional

Plan de Nación (2010 - 2022)
Lineamientos Estratégicos e Indicadores

Plan de Nación (2022 - 2034)
Lineamientos Estratégicos e Indicadores

Período de Transición a una Nueva Visión de País

Plan de Gobierno 2010-2014
Plan de Gobierno 2014-2018
Plan de Gobierno 2018-2022
Plan de Gobierno 2022-2026
Plan de Gobierno 2026-2030
Plan de Gobierno 2030-2034
Plan de Gobierno 2034-2038

Políticas, Programas y Proyectos

Políticas, Programas y Proyectos

New Line in the National Budget

Review Local Governments Budgets

Action Plan for Financing

FOUR NATIONAL GOALS

1. A Honduras without poverty, educated and healthy, with consolidated social welfare systems

4. A modern, transparent, responsible, efficient and competitive State

2. A Honduras that develops in democracy, with security and without violence

3. A productive Honduras, generating opportunities and employment, that sustainably uses its resources and reduces environmental vulnerability

WHY Marine Information IS IMPORTANT FOR US:

3. A productive Honduras, generating opportunities and employment, that sustainably uses its resources and reduces environmental vulnerability

GOAL 1.1 — Eradicate extreme poverty

GOAL 2.4 — Reduce the extralegal land occupation rate to less than 5%

GOAL 4.1 — Improve the position of Honduras under the Global Competitiveness Index

GOAL 4.2 — Having achieved a decentralization of public investment of 40% towards the municipal level for extralegal land occupation

GOAL 4.4 — Develop of electronic and integrated processes for citizen care in the government Institutions

why Honduras needs a policy for marine geospatial information

Tourism is a strategic axis according to the country's plan that has activated and boosted the economy and it is important to provide infrastructure projects in harmony with the environment.

NEXT STEPS CONSIDERED INTEGRATING MARINE GEOSPATIAL DATA

Increase the Cartographic Database with the Marine Use

Generate the necessary inputs for public and private institutions focused on productivity.
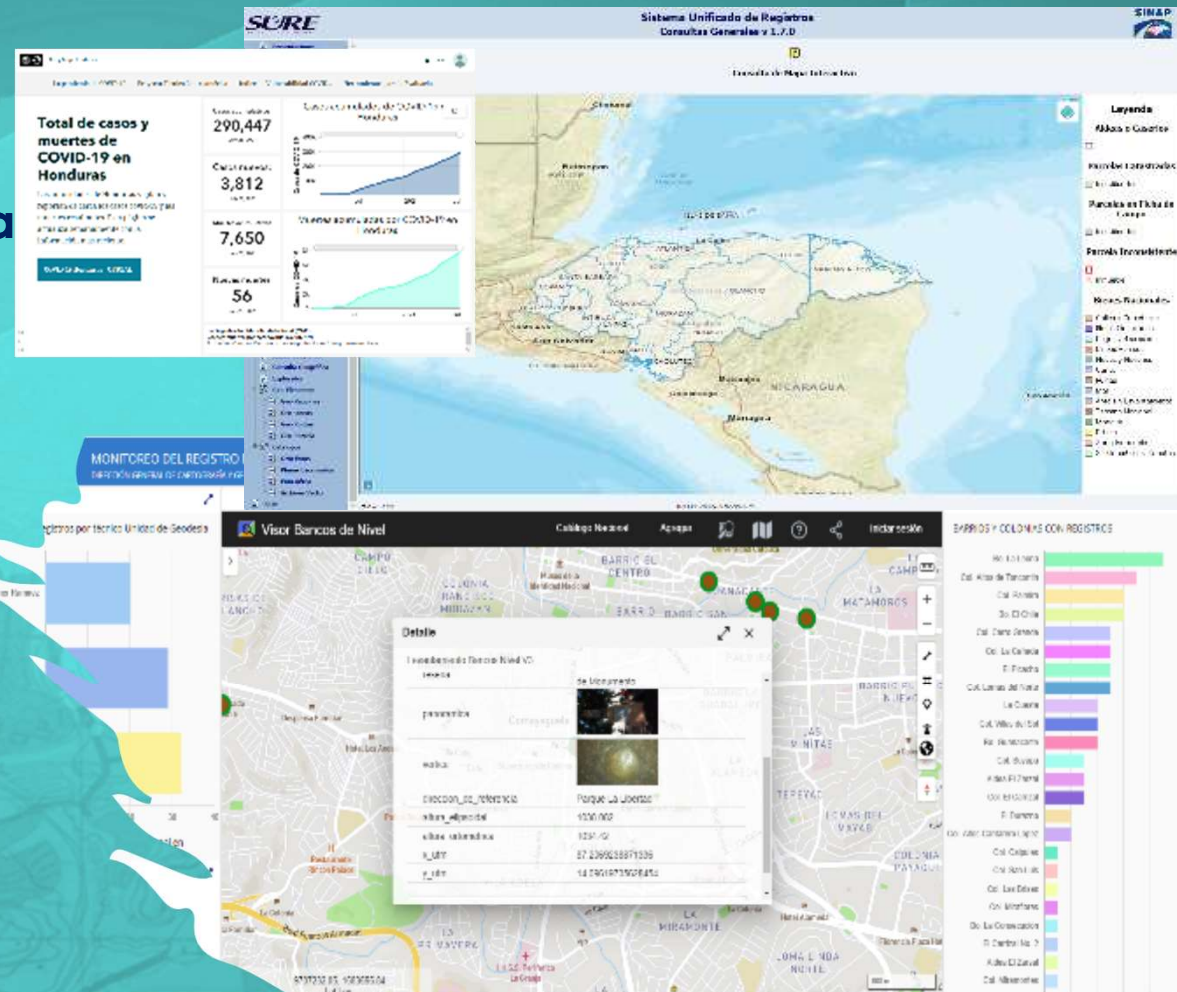
Maintain data updated over time

Have a Strategic Marine Geospatial database for analysis and new regulations

Empower the population and Institutions of the work carried out in order to comply with the SDG´s and Country National Plan

Facilitate access to data

BENEFITS OF THE DATA INTEGRATION

- Reduction of the Fiscal Deficit.
- Integrated Planning with other institutions
- Data for an easy Territory Analysis.
- A public tool for Communication and Data Access.
- Reports in time about changes in the territory
- Proper Management of the Resources
- Not duplications on Data and National Budget.
- Being part of a national and regional PLANNING
- Contribute to the Protection of the Environment, Health and Safety of the Citizens.

Links

http://www.un-ggim-americas.org/mega/

https://www.geosur.info/

https://geoportal.sinap.hn/geoportal/main

https://www.ign.hn/Geoportal/

https://www.sinap.hn/

Thank you...