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ADB-LX Corp Joint Workshop on Building National Spatial Data Infrastructure

Philippines

30 October - 4 November 2022
Seoul, South Korea



Department of Environment and Natural Resources

Primary agency responsible for the conservation, management, development and proper use of the country's environment and natural resources such as forests and grazing lands, mineral resources, and lands of the public domain.



Policies



Plans, Programs
and Standards



Monitoring and
Evaluation



Studies

Key Takeaways

1. Integrated Geospatial Information Framework to develop and strengthen national geospatial information management
2. Establishment of the relevance of geospatial information systems to data users and stakeholders to ensure sustainability
3. Legal and institutional reform and established web-based workflow has driven Korea's integrated land information system
4. Strong will and confidence of the leaders as well as identifying champions in the development and implementation of NSDI
5. Collaboration, partnership and sharing



Workshop Insights

On Session 1: National Spatial Data Infrastructure

1. Fundamental in building a strong economy
2. Establishment of a well-defined national GIS- governance structure

On Session 4: Integrated Land Information System

1. Legal framework upgrade and institutional reform
2. Problems in the land sector emanates from the duplication of data, varying views from different offices



On-going/Planned Relevant Projects

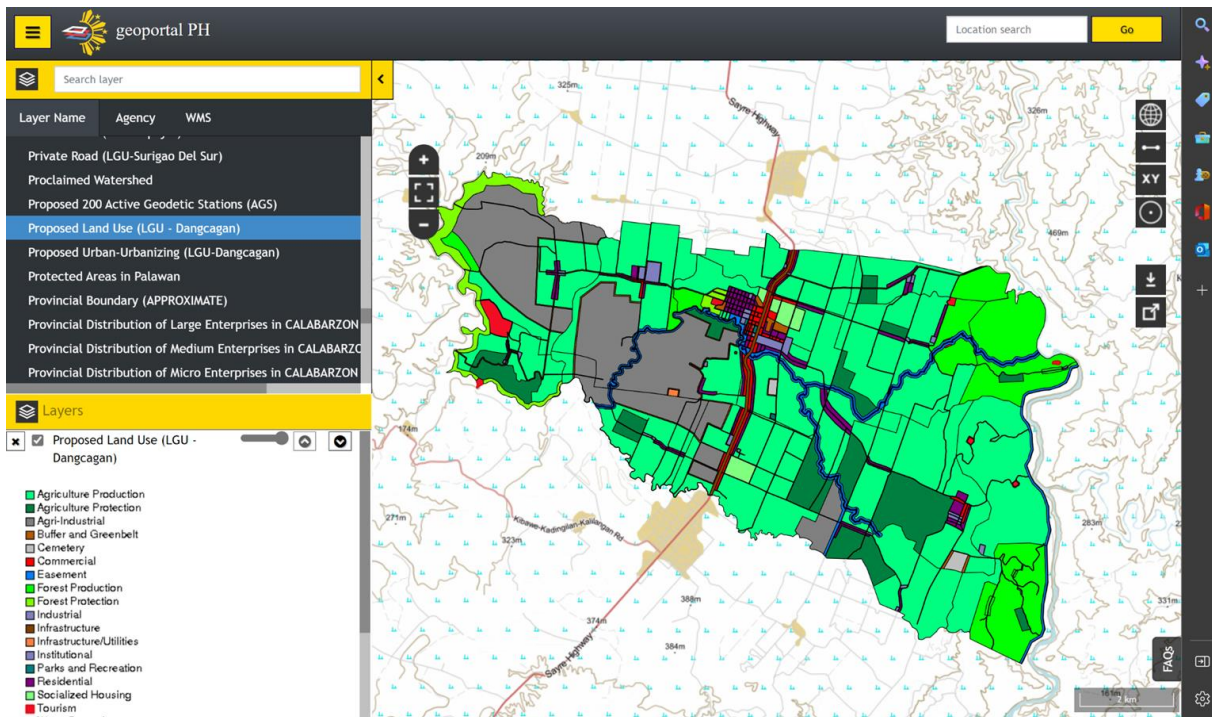
Philippine National Spatial Data Infrastructure



- To promote and coordinate the efficient development, management and utilization of geographic information
- “The Establishment of a Technical, Operational and Legal Framework for the Management of Geographic Information in the Philippines” in 1999-2001 with the assistance of the WB Information Dev’t Program
- Components (1) institutional framework, (2) technical standards, (3) fundamental datasets, and (4) clearinghouse network



Geoportal Philippines



The screenshot displays the 'Map Composer Map App' interface. The top navigation bar includes the app logo and the title 'Map Composer Map App'. The main content area shows a dialog box titled 'Upload shapefile'. The dialog contains the following text: 'Please select file to upload. Accepts compressed (.zip) shapefile.' Below this text is a 'Choose File' button, which is currently disabled and shows 'No file chosen'. Below the button is a text input field labeled '[Filename]'. Below the input field is a text label 'File projection (Please make sure to select the correct file projection)' followed by a dropdown menu showing 'WGS 84'. Below the dropdown menu is a text label 'Feature color' followed by a color selection button. At the bottom of the dialog is an 'Upload' button.

Transaction Information

Transaction Info		IIVAS		GE Name		DENR-SWD		ID		14452	
Date		09/09/2016		Data Appr							
Survey Plan		PCS		Projection		Local		PTM		PGS	
Coincine		NEGRO, ESPERANZA		Survey Plan		Block		Last Number		Area	
Place		DIJAO DEL NORTE		PCS-11-004221		2		3,694.00			
Municipality		ISLAND GARDEN CITY OF SAMAL		PCS-11-004212		3		7,697.00			
Average		SAR REDUCED		PCS-11-004212		4		7,714.00			

Working Entries

Action	Current User	User	Front	Last Entry on	Assigned To	Status
09 Sep 16 9:54 AM	Final Desk	Kristina-Aguero	<input checked="" type="checkbox"/>	09 Sep 16 9:50 AM	Records Section	Transmitted
09 Sep 16 10:09 AM	Records Section	Daniel Jose Cicado	<input checked="" type="checkbox"/>	09 Sep 16 10:38 AM	Encoding of Survey Recor.	Transmitted
09 Sep 16 1:49 PM	Encoding of Survey Records	Diana Emy	<input checked="" type="checkbox"/>	09 Sep 16 3:12 PM	Projection Unit	Transmitted
10 Sep 16 12:13 PM	Final Verification	Graza Abellanda	<input checked="" type="checkbox"/>	10 Sep 16 1:04 PM	Verification Unit	Transmitted
14 Sep 16 9:12 AM	Verification Unit	Juan Torres	<input checked="" type="checkbox"/>	14 Sep 16 10:10 PM	Cartography	Transmitted
14 Sep 16 9:30 AM	Cartography	Evelyn Puentes	<input checked="" type="checkbox"/>	16 Sep 16 9:39 AM	Final Verification	Transmitted
23 Sep 17 7:55 AM	Final Verification	Elisario Pate	<input checked="" type="checkbox"/>	23 Sep 17 7:55 AM	Recommending Approval	Transmitted
10 Sep 16 4:40 PM	Recommending Approval	Rocela Mandaya	<input checked="" type="checkbox"/>	23 Sep 17 7:55 AM	Final Approval	Transmitted

Action Create new IIVAS Unit

Remarks:

Print Pending Report **Close**

Province **DAVAO ORIENTAL** Barangay **POBLACION** Lot Number **2589**
 Municipality **SAR ISIGRO** Survey Plan **CAD 1005** Parcel ID **667776**

2590 2580
 4032 2589 Area : 537
 3630 3611

0 10m Zoom In

[illegible]

INTERNAL. This information is accessible to ABB iManagement and staff. It may be shared outside ABB with appropriate permission.

Enhanced Land Administration and Management System (eLAMS)

Covers the migration of existing LAMS Philippines to online based application and integration from the Regional and field offices databases into LAMS centralized database, and unify all processes into a single application system

Major Features:

- *Online submission*
- *Integration of all Regional DB with DENR/LMB*
- *Online application system*
- *Online payment of applications*
- *Online access of survey and PLA information*
- *DCDB cleansing*
- *Linking and sharing of DCDB to LGUs and other national government agencies*
- *Implementation of Digital Signature in LAMS IVAS and PLA*
- *Paperless IVAS*
- *Online transaction monitoring*

Establishment of National Natural Resources Spatial Database

Presidential Directive:

“Establish baseline data on the environment and the country’s natural resources through the establishment of a natural resource geospatial database, a platform for the planning and implementation of integrated strategies of the DENR.”

Content of the planned database:

- Natural resources on land, in air, inland water and sea of the country, including biodiversity, coastal and marine, forest, land, minerals and water;
- Environmental conditions of these resources;
- Inputs to the natural capital accounting program of the government;
- Boundary maps, including political, administrative and environmental as created by pertinent laws and DENR policies;
- DENR interventions in the form of approved applications, programs, projects and activities; and
- Supporting information needed for a more robust, inclusive and integrated strategies for a science-based, risk- informed, ethical and equitable stewardship of our environments

Towards the development of the Philippines NSDI

- 1. Revisit the draft Technical, Operational and Legal Framework of the Philippines**
- 2. Fast track the development of the Enhanced Land Administration and Management System (eLAMS)**
- 3. Revisit and assess existing systems in place that creates and manages NSDI-related data to see avenues of data integration**
- 4. Establish the National Natural Resources Spatial Database**
- 5. Strengthen coordination and data sharing across different national and local government offices**



MARAMING SALAMAT!
Thank you very much!

Address: Visayas Avenue, Diliman, Quezon City, Metro Manila, 1100

Website: www.denr.gov.ph

