"GazMIS 2.0:

Solution For Management Of State Land Reserves In Sabah"

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Sabah, Malaysia







SABAH: Land mass: 73,620 Sq Km.

Population: 3.61 million (year 2013)

The Sabah Lands & Surveys Department

A State Government Department responsible for:

- **✓** Cadastral Survey
- **✓** Land Alienation
- **✓** Land Dealings
- **✓** Land Developments
- **✓** Land Valuation
- **✓** Large Scale Mapping
- **✓** Geospatial Development
- **✓** Gazettement Of Land
- **✓** Collection of Land Revenue
- ✓ Mining licenses & permits

Vision

"To provide Excellent Delivery Service."

Mission

To provide excellent services through modern management of land and survey matters with the use of latest technology and the employment of human resources who are progressive, dynamic and of high integrity and advocating balanced and environmental friendly land development, that brings maximum land revenue.

Facts & Figures: (31 Aug 2015)

District Land Offices = 25

Divisional Survey Offices = 8

District Survey Offices = 11

Total Land Area = 73,620km²

Numbers of islands = 394

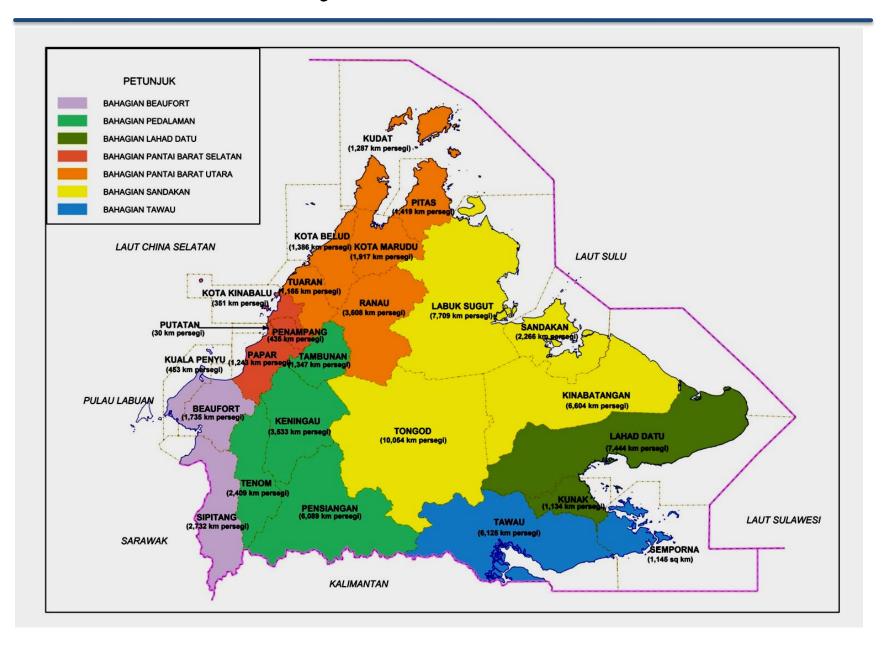
Land under Reserves = 52%

Alienated Land = 31.4%

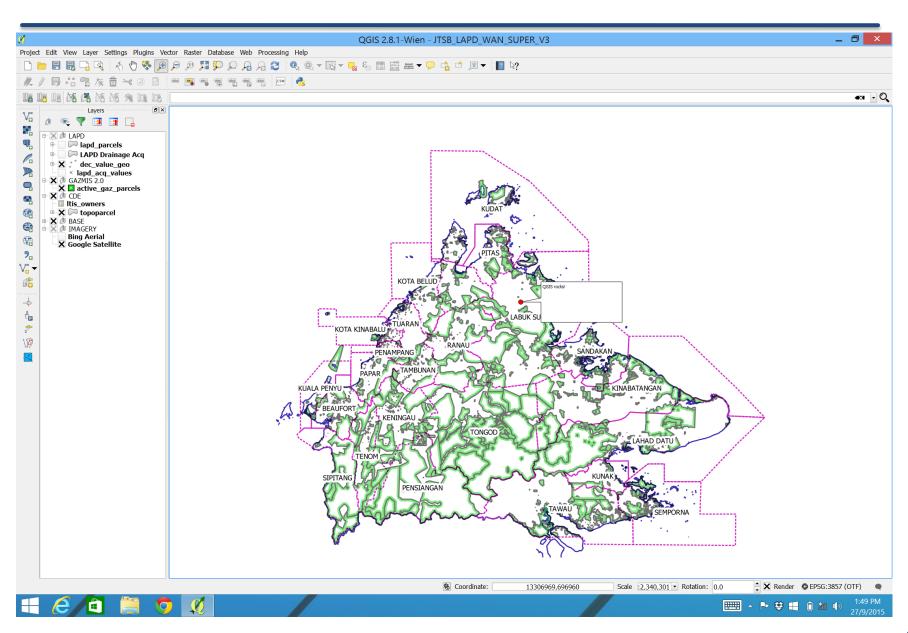
Numbers of Land Titles = 378,992



Land & Survey Administration Structure



SAABH LAND DISTRIBUTION



Reserved Lands In Sabah

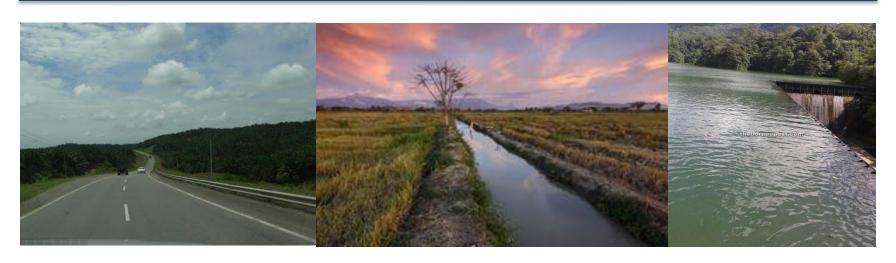


Biodiversity Protection & Conservation – Forest, Wildlife, Parks



Natives Usage - Kampungs, Grazing Grounds, Burial Grounds

Reserved Lands In Sabah

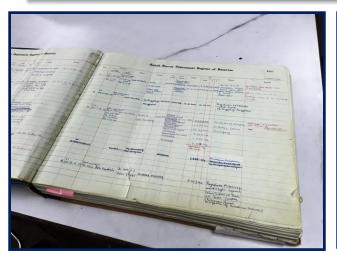


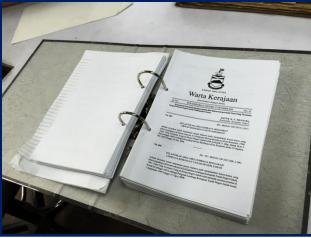
Public Infrastructures – Roads, Irrigations, Dams, Reservoirs



Public Buildings & Spaces – Government offices, Sport facilities, Open spaces

Pre-GazMis Recording & Processing Methods



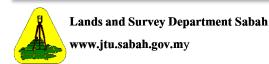












Pre-GazMis 2.0: Challenges

- Deterioration and lost of registers / records
- Uncertainty of status & boundaries
- Difficulties in accessing records
- Difficulties in generating reports & Statistics
- Delay in preparation of gazettes
- In-correct administration & management decisions

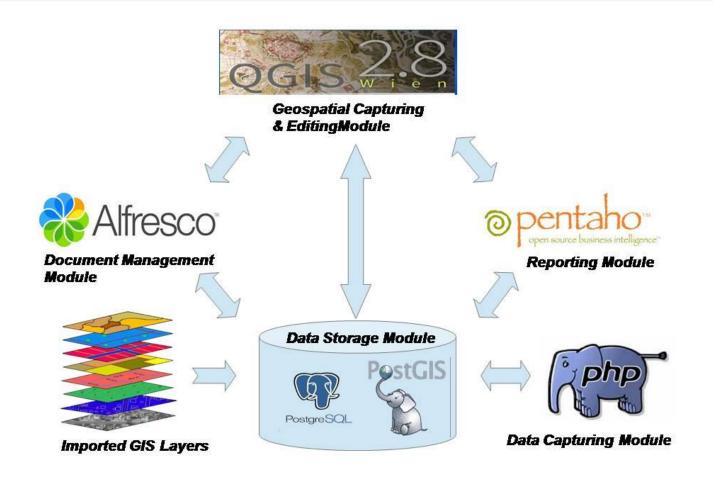
GazMis 2.0: The Project (2014)

- ✓ To capture gazette notification information which are presently in the form of hard copy "Register of Reserves" and "Gazette Plans Register" into a database
- ✓ To create a web based reporting interface for searching and printing of gazette notifications
- ✓ To link captured database textual information to scanned gazette documents
- ✓ To link captured database textual information to parcels in the Digital Cadastral Database (DCDB)
- ✓ To study possible integration with Land Acquisition System (LAPD).

Open Source Software Used GazMis 2.0

- ✓ Postgis 2.1 open source spatial database extender for the PostgreSQL Database Management System
- ✓ PHP widely-used open source general-purpose scripting language
- ✓ Alfresco DMS open source document management system
- ✓ Pentaho Reporting Open Source reporting tools
- ✓ QGIS 2.8.1 Wien Open Source Geographic Information System

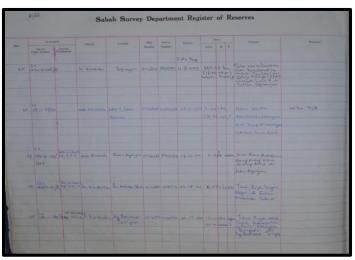
Open Source Software In GazMis 2.0

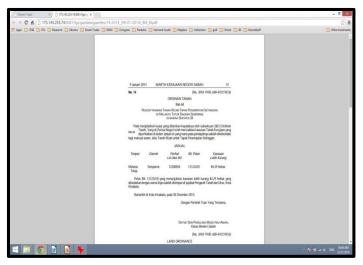


Scanning of Gazette Registers and Notifications





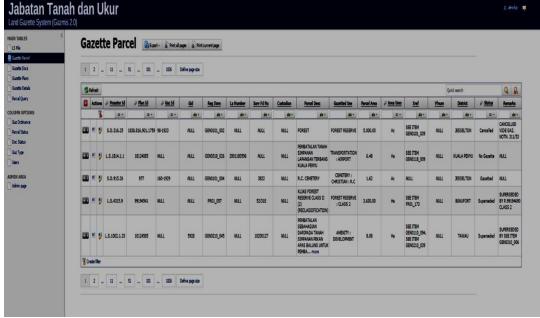




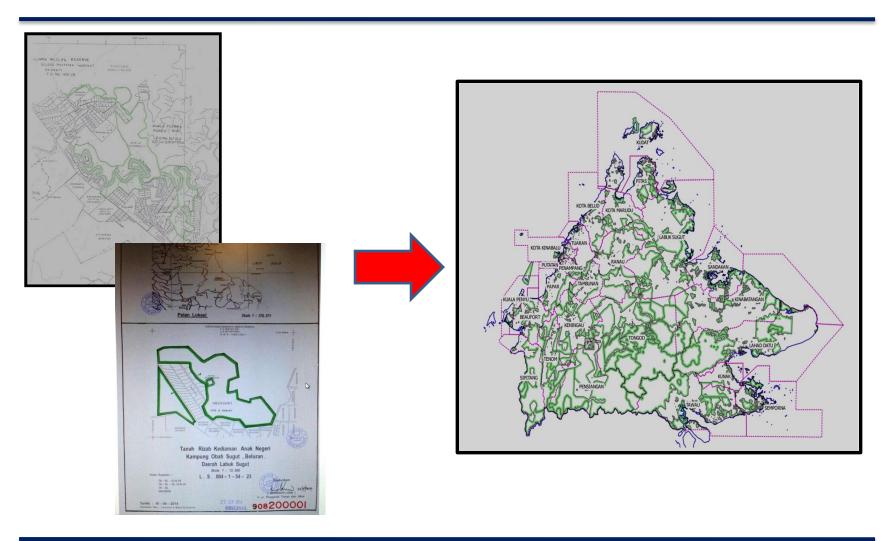
Textual Data Entry



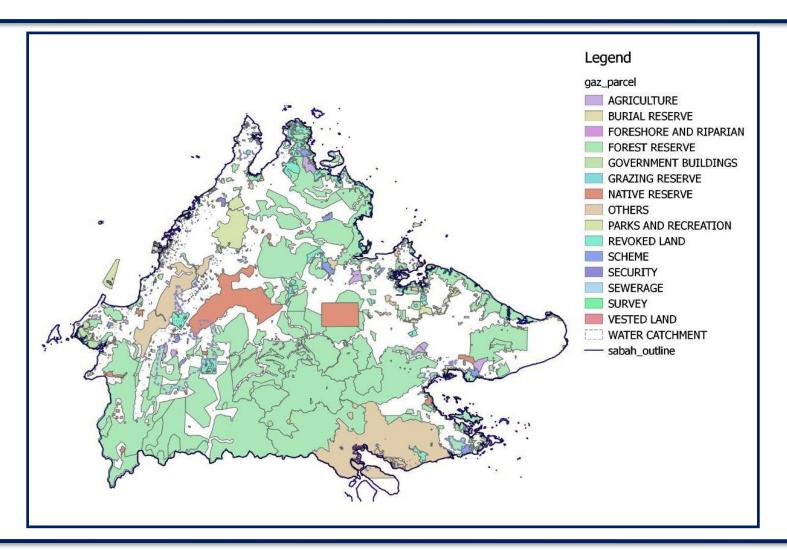


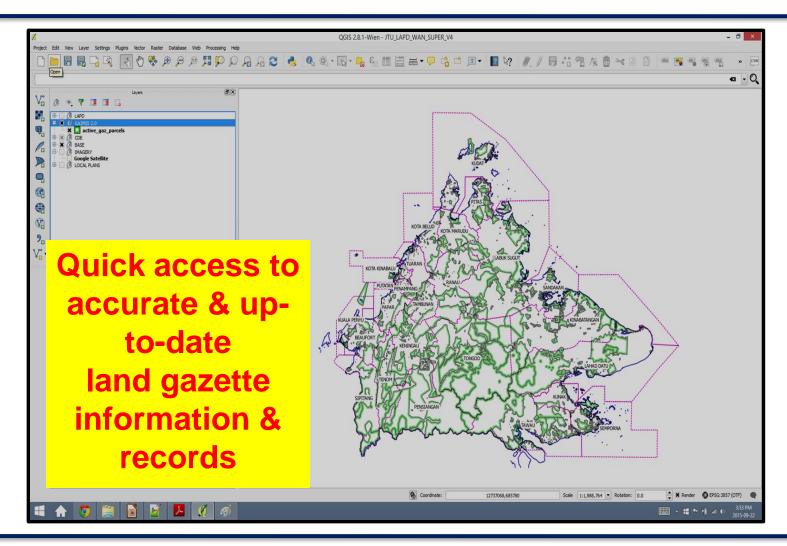


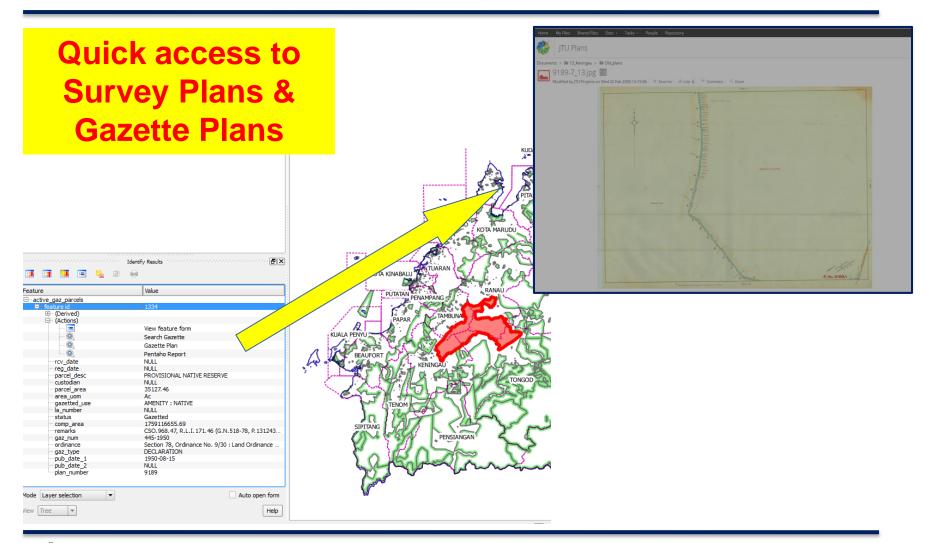
Graphical Data Capturing



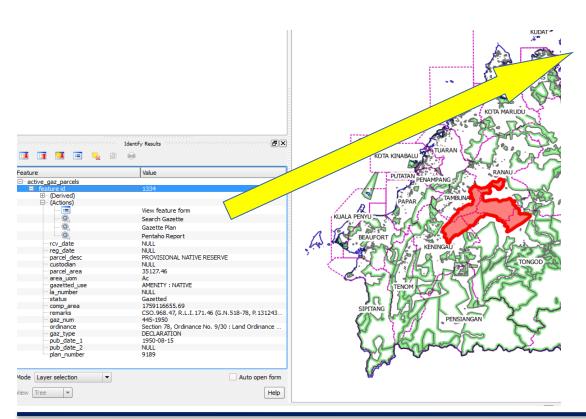
Distribution Of Reserved Lands in Sabah



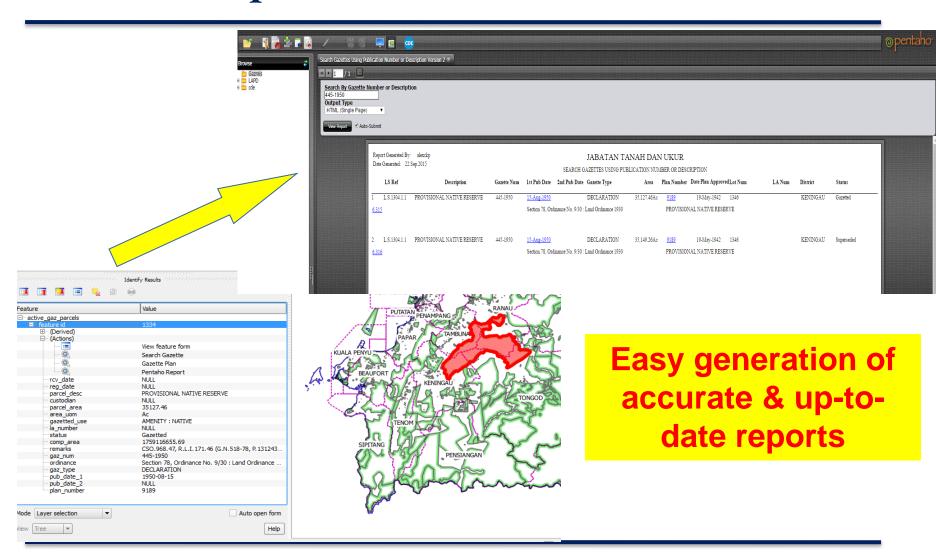




Quick access to Gazette Notifications









Lands and Survey Department Sabah www.jtu.sabah.gov.my

More benefits...

- ✓ Digital registers and records
- ✓ Scanned Gazettes and Plans are online and easily accessible (Web-Based)
- ✓ Digital Workflow for Gazette System being implemented
- ✓ Eliminate redundant work processes
- ✓ Enable better and accurate decision-makings.
- ✓ Improved administration & management of Reserved Lands

Way Forward

- ☐ Improving the accuracy of Reserve Boundaries
- ☐ Fully digital workflow (Application Gazette)
- □ Connection to other Government agencies.

Conclusion

- ☐ State Land Reserved covered more then 52% of Sabah Land area.
- □ Accessibility to Manual information and records of State Land Reserves is slow and not up to date.
- □ GazMis 2.0 is designed to provide users with rapid and ready access to gazette information pertaining to reserved lands.
- ☐ The project involved the conversion of hard copied land gazette records into digital formats and creating a database that enable easy accessibility of the records.
- □ GazMis 2.0 has contributes towards better administration and management of State Land Reserves development outcomes

Thank You