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ECONOMIC AND SOCIAL COUNCIL

Seventeenth United Nations Regional Cartographic Conference for Asia and the Pacific Bangkok, 18-22 September 2006 Item 7 of the provisional agenda*

INVITED PAPERS

DATA DEVELOPMENT IN BRUNEI DARUSSALAM

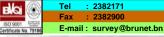
Submitted by Survey Department, Brunei Darussalam **

* E/CONF.97/1

^{**} Prepared by Mr. Hj Hohd Jamil bin Hj Mohd Ali and Mr. Hj Jali bin Hj Nudin, Survey Department, Brunei Darussalam.



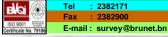
Data Development in Brunei Darussalam



Presented by :

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Introduction

Activites in Survey Department

Data Development Progress

Conclusion



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Introduction

- Brunei Darussalam is located 443 km north of equator with a total area of 5,765 sq. km
- The country has made an astounding leap to prosperity over the last quarter of a century
 - Visitors to Brunei are able to see numerous on-going infrastructure projects.
 - Despite the economic downturn in 1998, the Survey Department was able to progress significantly.





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Survey Department



- Survey Department is the national geospatial mapping agency and the custodian for all mapping data
- The Department published maps, plans, aerial photographs, digital plans, data, cadastral plans, topgraphical maps and Photomaps for the use of other government ministries, departments, private and genera publics
- Survey Department is the first and only Government Agency certified by ISO 9001since 1998



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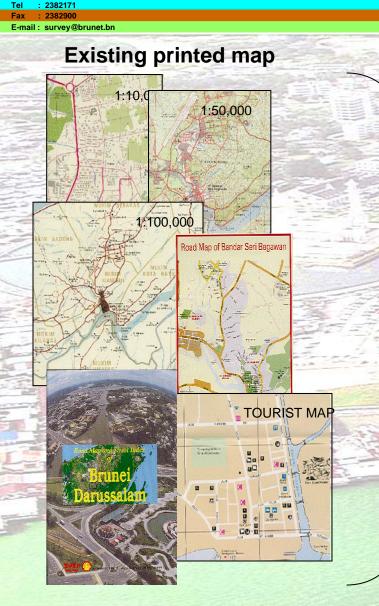
Activities in Survey Department



Cartographic Activities

Automated

Cartography





- Expedite the process in preparing a more efficient customized maps used for project planning.
- Produce separate layers which enable only specific information to be retrieved from the digital map database.
- Currently, the functionality of graphical database is limited to basic map printing, pan and zoom navigation, identifying information about a polygon feature or line.



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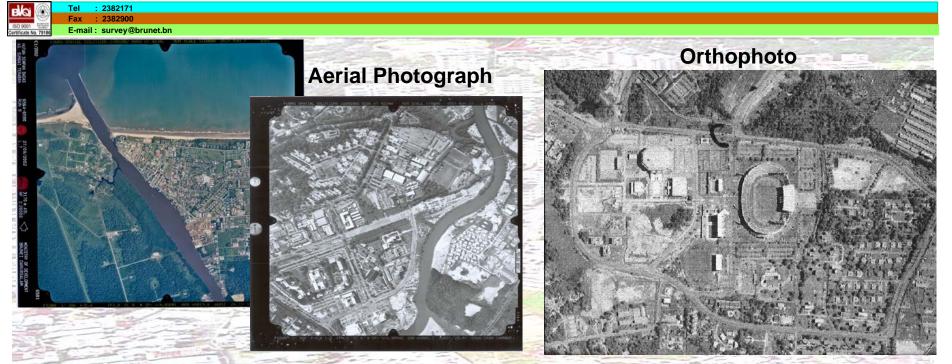
Digitizing Activities



- Most maps and plans are converted into digital form and stores into graphical database for use of Land Information System
- All existing maps and plans are being digitized using Arc Info both on pc and w/s.
 - Digitized maps and plans :-
 - Cadastral (1:2,500)
 - Topographical (1:1,000, 1:10,000 and 1: 50,000)
 - Geological maps (1:63,360)
 - Comprehensive Development Plan (1:10,000)
 - National Development Plan (1:100,000)
 - Utilities plan (various scale)
 - Topographical plan (1:2,500)



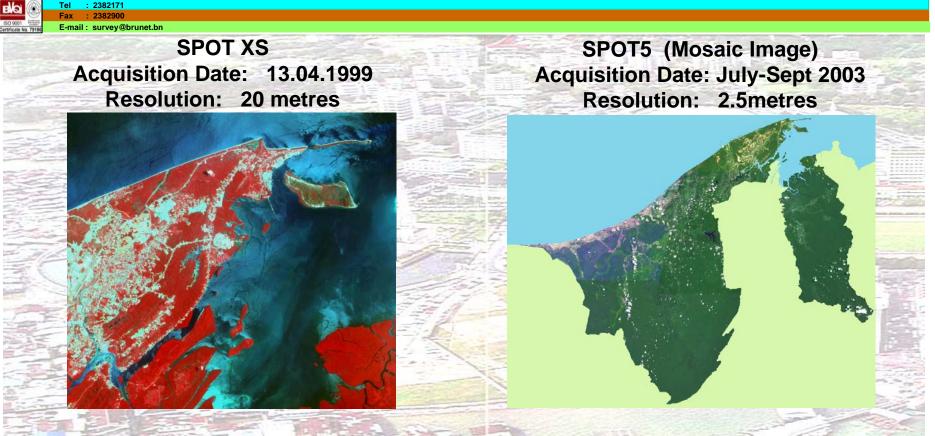
Photogrammetric Activities



- Photogrammetric activities mainly producing base topographic map
- In the past, most of the work are using analogue system
- Penciled photogrammetric plots were produced from stereo aerial photographs
- Late 1991, a project 1:10,000 digital mapping were first started
- Now, Digital Video Photogrammetry was used to produce orthophoto





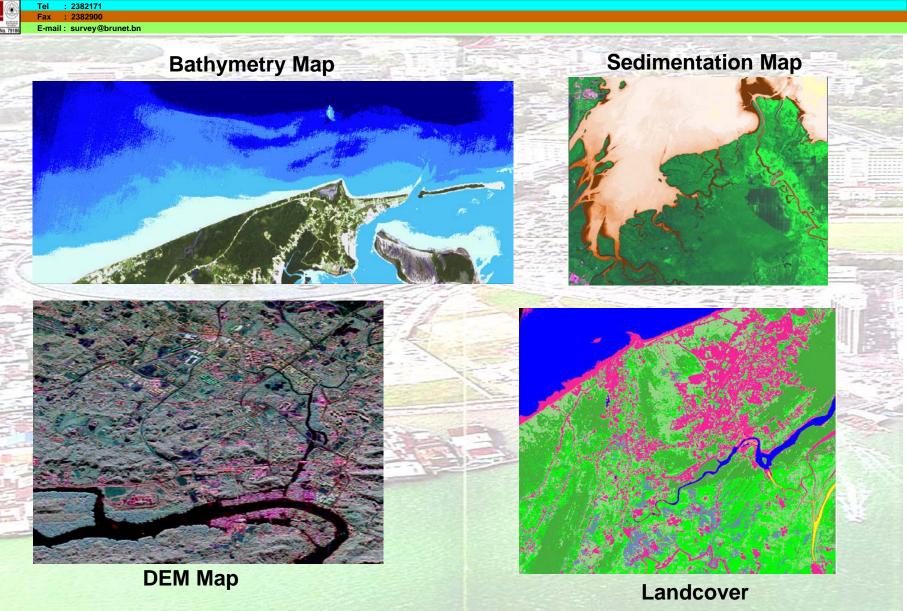


Used of SPOT images to derive Land cover maps and to monitor changes in land use.

Updating 1:50,000 map using remote sensing technology for the whole of Brunei



Remote Sensing Activities





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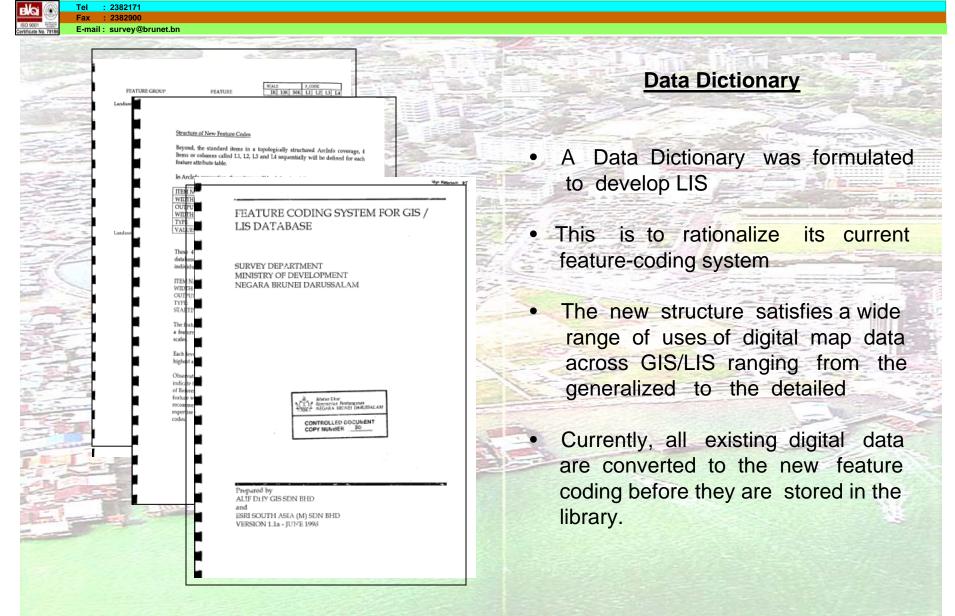
Remote Sensing Activities



QUICKBIRD Acquisition Date: 17.01.2005 Resolution: 0.6 metres



GIS Activities





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Other Activities

House Numbering system

The ministry of Development has taken positive step to establish a systematic and orderly house numbering scheme that would serve the whole country.

Adopting the house numbering concept that aims to form a uniform and methodical numbering system.

An information database related to the house numbering project is now compiled and kept in Survey Department.

Geographical names

A National committee on Geographical names.

Collecting geographical names, adopting rules for naming and investigating any proposed alteration of a place name.

Publishing approved name in the National Geographical Names Gazetteer



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Other Activities

Field To Finish

Pilot project has been proofed successful and currently the Department is purchasing the software

Bar Coding

Implementation of the system to monitor the flow of Geomatic informations from the Geodetic Information Center.

Hydrography

Two (2) tide gauges were installed and one(1) will be this year. Activities currently is Data acquisition and compilation of Tidal data from other Agencies.

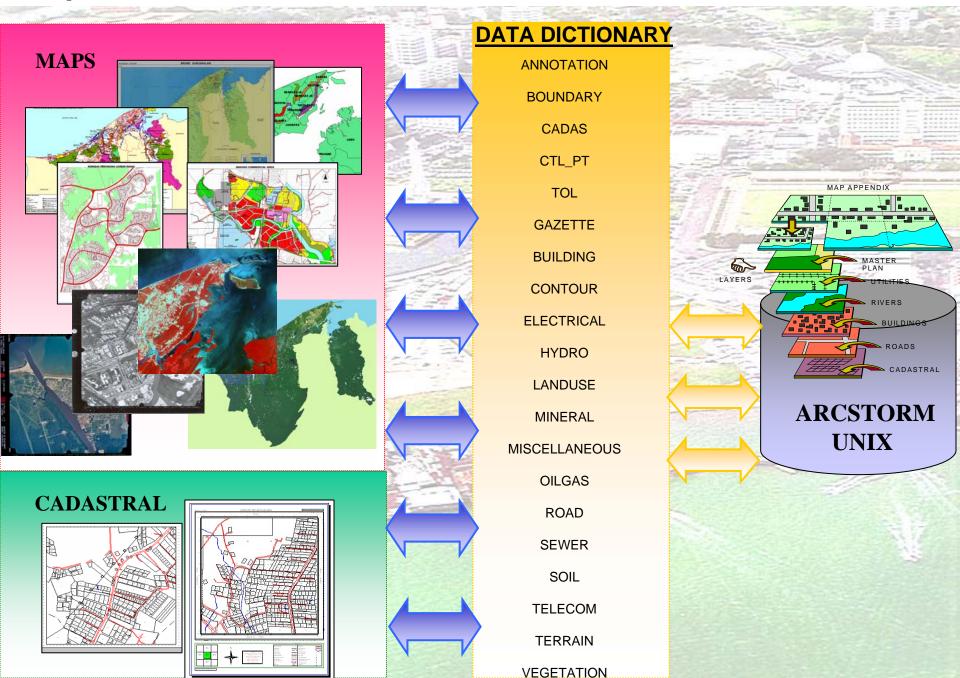
Plan submission

All submission from Private surveyors which relate to cadastral, topographical survey and mapping has to be in Digital Form.

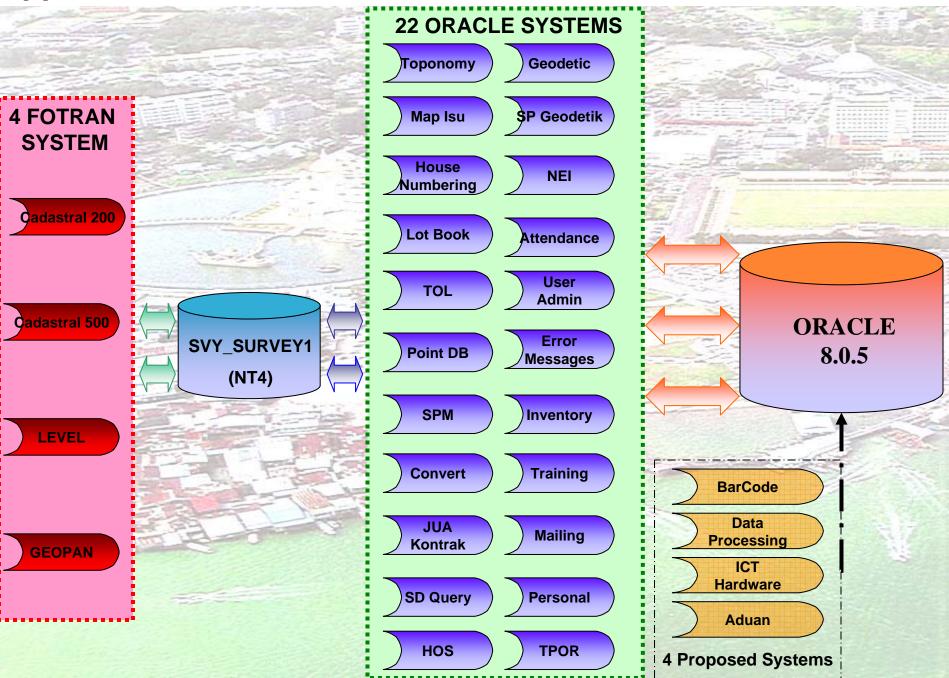


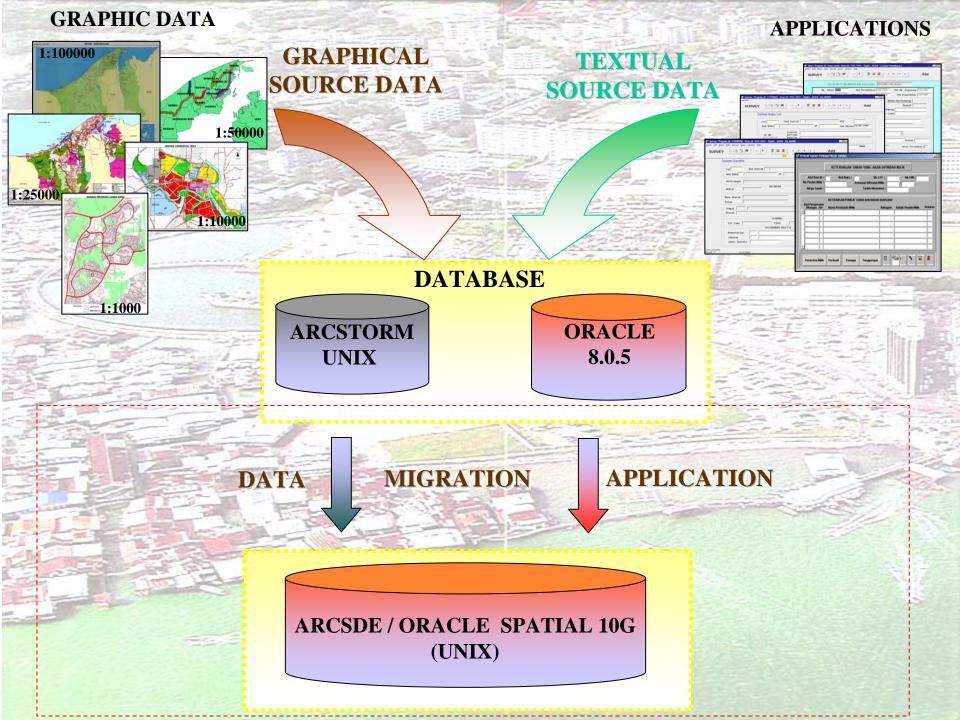
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	Data Development Progress

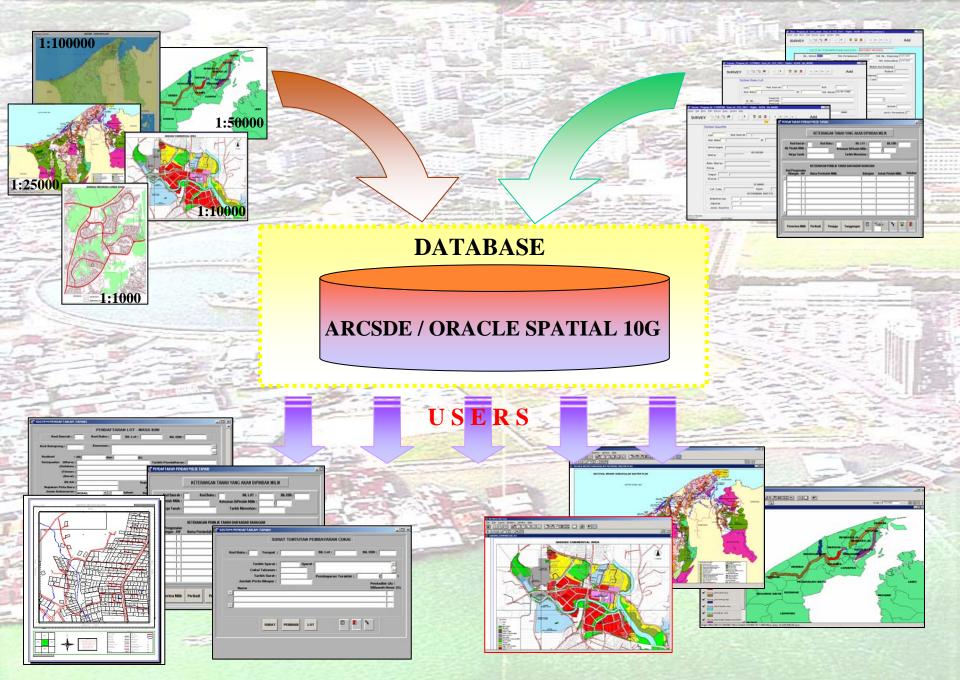
Graphic Data



Applications







ARCGIS / INTEGRAPH / AUTODESK / MAPINFO



Conclusions

