



Malaysia - Country Report

EPPM Program P3W5 : Workshop/training for Metadata Encoder and Data Managers

Kuala Lumpur

17 – 19 January 2011





APPLICATION

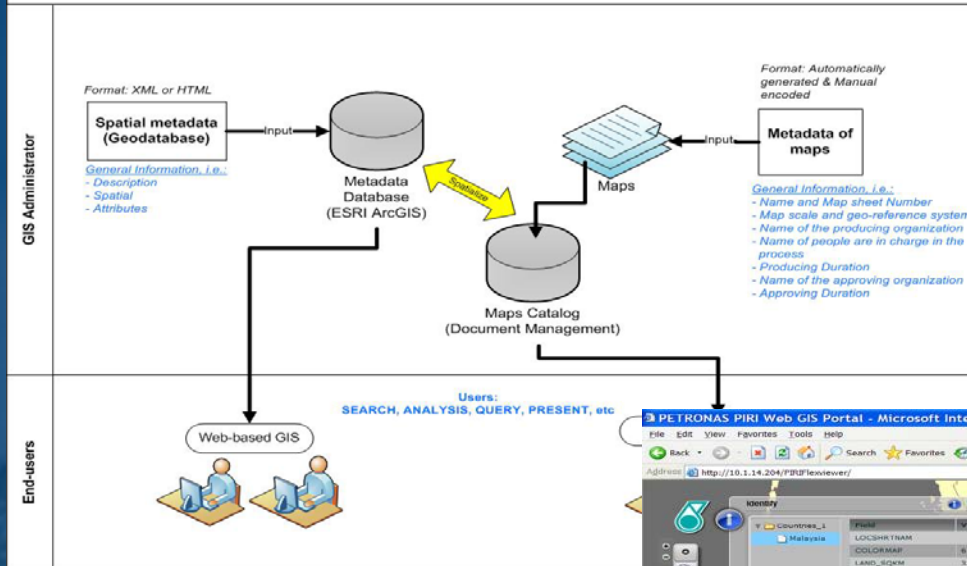
Experience of using the new Metadata system and how it is applied?

- As reference for PETRONAS Metadata system development for Petro-Technical data and reports.
- Current metadata is stored in individual system/databases:
 - EDMS system for Technical reports
 - GIS system for Geospatial and map information
 - FINDER system for Wells header information,
 - SEISDB and PROSOURCE systems for Seismic raw and interpreted data
 - E-SEARCH for physical data information such as tapes, conventional cores and hardcopy documents.
- Elements & Sub-elements were referred/applied to in the development of PETRONAS Metadata project framework. The project is in progress.



APPLICATION: GEOSPATIAL METADATA

PETRONAS Spatial/GIS Metadata Architecture ver. 1.0



The screenshot shows the **PETRONAS PIRI Web GIS Portal** in a Microsoft Internet Explorer browser. The main interface displays a map of Malaysia with several metadata pop-up windows.

Metadata Viewer (Left Panel):

Field	Value
LOCKRTEAM	S
COLORMAP	S
LAND_RQEM	328150
img_internal_url	ARCLEAFC.DRAW.S150
LOCKRNAME	
ISSUERTNAME	Malaysia
FIPS_CNTRY	MY
SHAPE_Length	40.766763
GAL_CNTRY	MY
ISO_3DIGIT	MY
LONG_NAME	Malaysia
OBJECTID	192
RCR0007	34801284

Metadata Details (Right Panel):

Keywords: REQUIRED: Common-use word or phrase used to describe the subject of the data set.

Description: REQUIRED: A brief narrative summary of the data set.

Purpose: REQUIRED: A summary of the intentions with which the data set was developed.

Horizontal coordinate system: Designated coordinate system name: GCS_WGS_1984 (Details)

Vertical coordinate system: In decimal degrees: North: 100.000000, East: 105.000000, South: 85.000117, West: -90.000000. In projected or local coordinates: Left: 100.000000, Right: 100.000000, Top: 82.304117, Bottom: -90.000000.

ESRI geoprocessing history: 1. Create Feature Class, 2. Append, 3. FeatureClassToFeatureClass_1

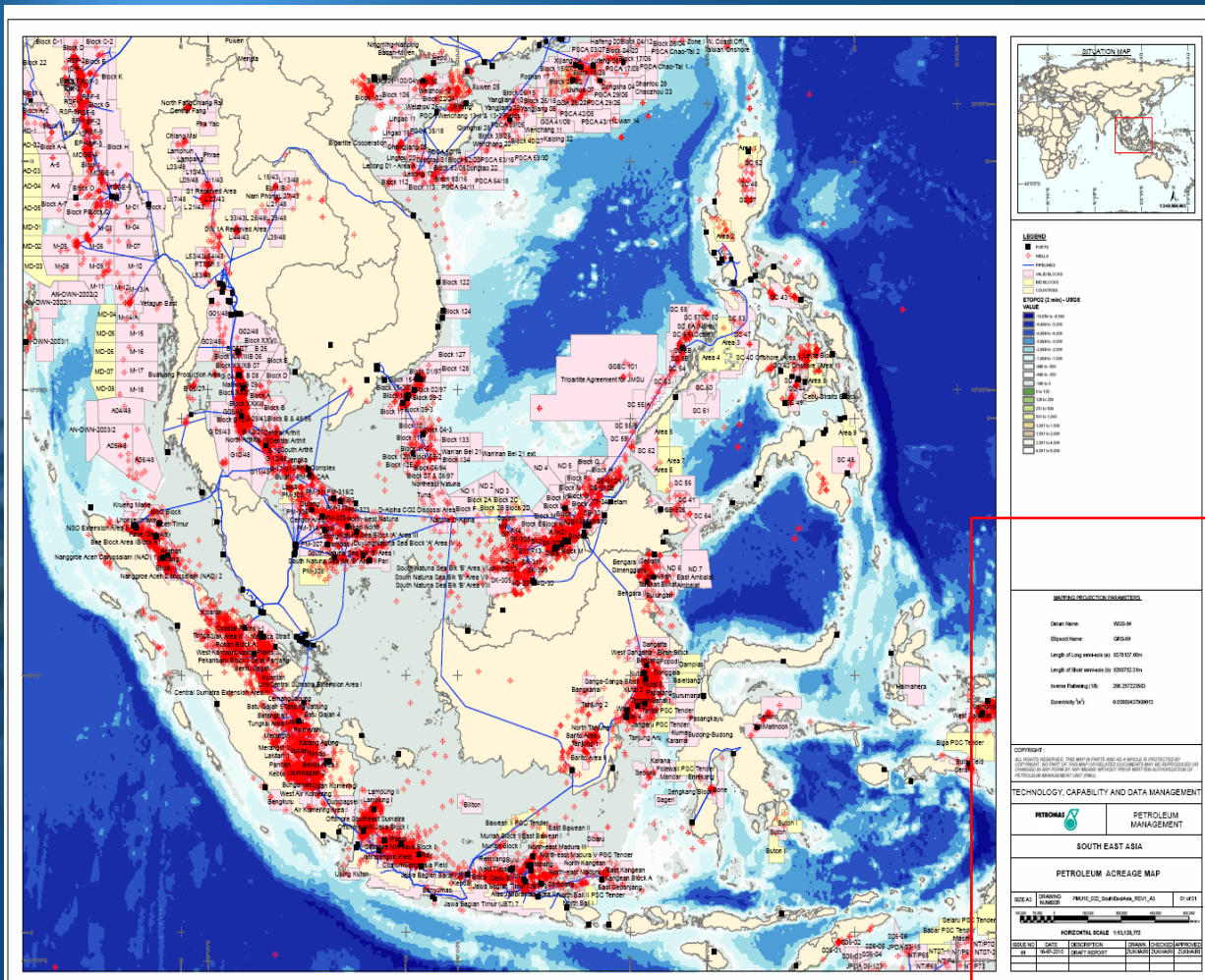
Vector data information: SRS description: CULTURAL_COUNTRY_ESRI, SRS description

Details for CULTURAL_COUNTRY_ESRI: Type of object: Feature Class, Number of records: 250. Attributes: OBJECTID, FIPS_CNTRY, GMI_CNTRY, ISO_3DIGIT, CNTRY_NAME, LONG_NAME, SOURCEID, POP_CNTRY, CURR_TYPS, CURR_CODE, LANDLOCKED, SQEM, SQMI, COLOR_MAP, SHAPE, SHAPE_AREA, SHAPE_LEN.



APPLICATION: GEOSPATIAL METADATA

Metadata for Maps



MAPPING PROJECTION PARAMETERS

Datum Name: WGS-84
 Ellipsoid Name: GRS-80
 Length of Long semi-axis (a): 6378137.00m
 Length of Short semi-axis (b): 6356752.31m
 Inverse Flattening (1/f): 298.257223563
 Eccentricity ²(e²): 0.00669437999013

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TECHNOLOGY, CAPABILITY AND DATA MANAGEMENT



SOUTH EAST ASIA

PETROLEUM ACREAGE MAP

SIZE A3	DRAWING NUMBER	PMU10_022_SouthEastAsia_REV1_A3	01 of 01
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HORIZONTAL SCALE 1:13,128,772

ISSUE NO	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	16-07-2010	DRAFT REPORT	ZUKHAIRI	ZUKHAIRI	ZUKHAIRI



APPLICATION : TECHNICAL DATA


METADATA

Finalized Metadata for Well Logs

Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)
Well Name	Y	Display Type	N	UWI	Y
Log Description or Type	Y	Suite No	Y		
Run No	Y	Scanned QC Remarks	Y		
Plot Scale	Y	Owner QC Remarks	N		
Logging Date	Y	Archival Location	Y		
Top Logged Interval	Y	Image File Name	Y (*Change Transmittal)		
Bottom Log Interval	Y	MediField	Y		
Logged Unit	Y	PressStaffId	N		
Remark for Duplicate	Y	Media Type	Y		
Barcode No	Y	Scanned Date	N		
Operator	Y	Plot Length Cm	N		
Country	Y	Plot Width Cm	N		
Field Name	Y	Image File Size MB	Y		
Logging Contractor	Y				


METADATA

Finalize Metadata for Technical Reports

Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)
Well Platform Name	Y	Author	Y	UDRS Load	N
Title	Y	Company	Y	Box No	Y
Volume No.	Y	Field	Y	Path	Y
Report Date	Y	CD No	Y	A4BW/A4Col	N
Remarks for Duplicate	Y	Structure Type	N	A3BW/A3Col	N
File Name	Y	UWI	Y	A1BW/A1Col	N
Pages	Y	Scannist	N	A0BW	N
Remarks	Y	Scanning Co	N	BigMap Merge	N
Image File Size MB	Y	Scanned Date	N	Classification	N
Acquisition No	N	Final Backup	N	Old Path	N
Reference No	Y (*Change to Transmittal No.)	Final Session	N	SED Report Type	Y
Old File Name	N	Working Backup	N		
Country	Y	Working Session	N		
Report Type	N	Report Owner	Y		



APPLICATION: TECHNICAL DATA

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METADATA

Finalized Metadata for Maps

Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)
Country	Y	Map Projection	Y	Date Owner	Y
Well Name	Y	Report Enclosure Ref	Y		
Field Name	Y	Media No	Y		
Block Name	Y	Scanned date	N		
Title	Y	Plot Length Cm	N		
Plot Scale	Y	Plot Width Cm	N		
Operator	Y	Image Size MB	Y		
Year Published	Y	Archival Location	Y		
Author	Y	Remarks	Y		
Remark for Duplicate	Y	Media Type	Y (*change to media format)		
File Name	Y	PrssStaffId	N		
Source Application	N	UDRS Load	N		
Source File Name	N	Path	Y		

eSearch™
Delivering Information with Confidence

METADATA

Compulsory Metadata for Seismics

Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)	Metadata	Mandatory (Y/N)
Country	Y	Remarks for Duplicate	Y	New Archival Location	Y
Line Name	Y	Image File Name	Y	Remarks	Y
Fsp1	Y	Polarity	Y	Operator	Y
Lsp1	Y	Fsp4	N	Survey Code	Y
Fsp2	N	Lsp4	N	Survey Contractor	Y
Lsp2	N	Fsp5	N	Survey Year	Y
Fsp3	N	Lsp5	N	UDRS Load	Y
Lsp3	N	Media No	Y	Path	Y
Processing Type	Y	Plot Length Cm	N	Date Owner	Y
Processing Year	Y	Plot Length Cm	N	Old Path	N
Prospect Field Name	Y	Scanning Date	N		
HorScaleTrCm	Y	Image File Size Byte	Y		
VerScaleCmSec	Y	Old Archival Location	N		
Processing Contractor	Y				

Additional – FODP, LCDP,
F inline (3D), L inline (3D), F
crossline, L crossline



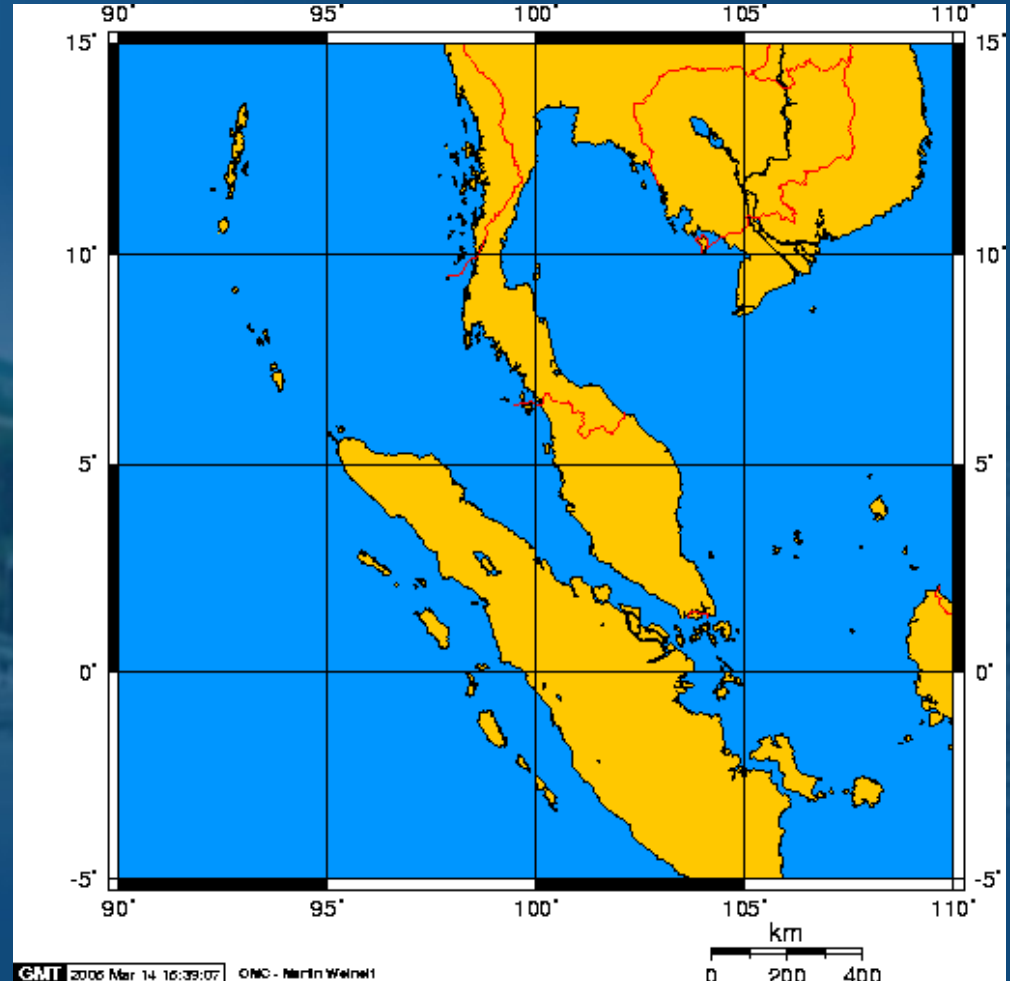
WAY FORWARD

Straits of Melaka area are chosen as pilot implementation for metadata sharing for Malaysia.

The Straits of Melaka is a narrow, 805 km (500 mile) stretch of water between the Malay Peninsula (Peninsular Malaysia) and the Indonesian island of Sumatra. It is named after the Malacca Sultanate that ruled over the archipelago between 1414 to 1511.

Types of data available : Seismic, logs, maps and technical reports

Data Preparation for uploading to CCOP GIMS Metadata system.





TERIMA KASIH



PARTICIPATION & EXPERIENCE

Malaysian participation to the CCOP-EPPM Metadata project

- Metadata standards & requirement analysis for the CCOP Natural Gas Database in Shanghai - April 2009.
- P3W3: Metadata system users training & workshop in Pattaya, in March 2010
- P3W4: Geo-Information Metadata System training in Shanghai in July 2010
- EPPM Country Managers Meeting in Bangkok November 2010



PARTICIPATION & EXPERIENCE

Knowledge captured/lessons learnt and application

- Learnt what Metadata is,
 - how it is being applied
 - the components of metadata elements, sub-elements
 - the international standards pertaining to the information kept in Metadata system.
- Learnt from China Geological Survey (CGS) and other member countries of their Metadata system and how it has been used for information sharing.
- Shared the information learnt about metadata and the system developed by CCOP to the other community especially in Data Management fraternity.
- Review the existing metadata information which are kept in individual systems which covers :
 - Technical documents
 - Wells header information
 - Seismic information
 - Physical data information(tapes, cores and documents)