

PENGELOLAAN DATA SPASIAL MENGGUNAKAN QUANTUM GIS

Samarinda, 6 November 2023

ZIYADATUL ROFITA

Pusat Pengelolaan dan Penyebarluasan Informasi Geospasial
Badan Informasi Geospasial

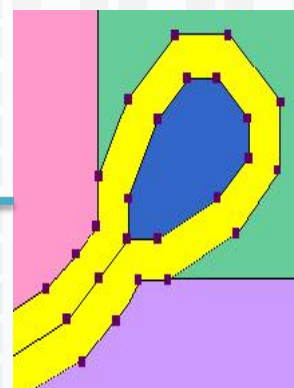
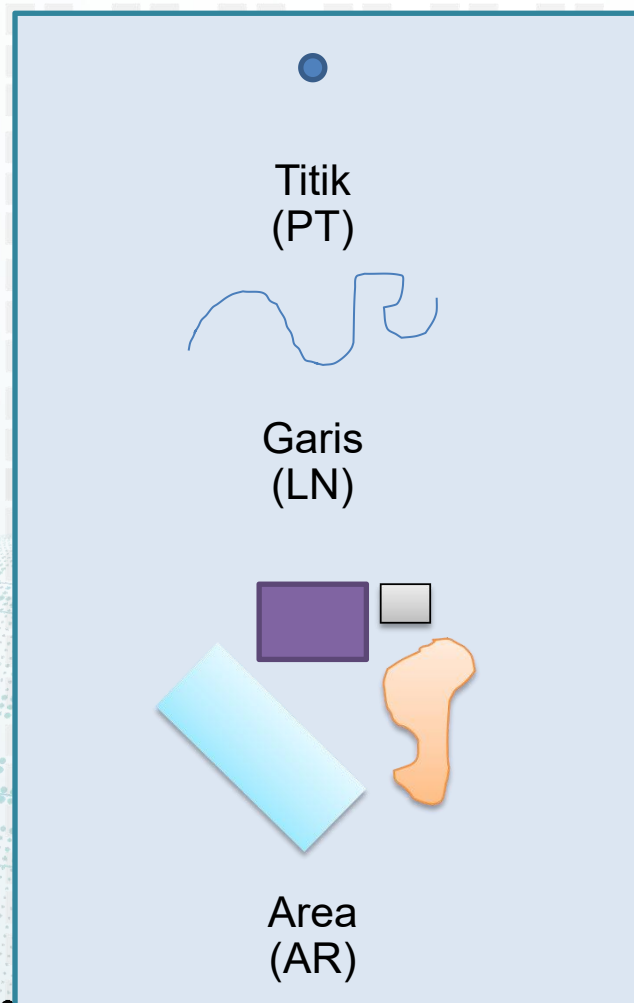
Spasial?

Spesial?

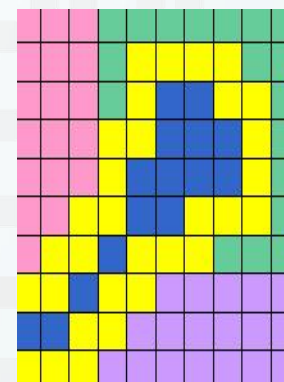
Pasial?



Tipe Data Spasial



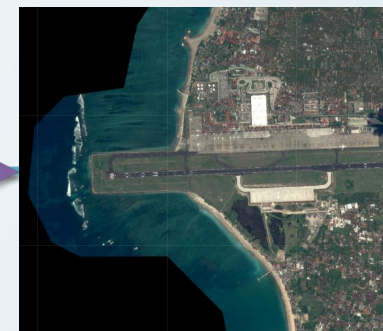
Vektor



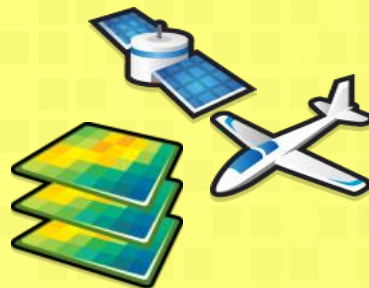
Raster



Proses Digitasi



Sumber Data Spasial



Citra Satelit, Foto Udara
DEM

1	X	Y	Z1
2	0.0625629	28.2793	794.075
3	9.66522	40.437	2728.57
4	29.2505	23.9937	1432.29
5	27.5246	44.7982	2323.63
6	42.242	37.3302	3086.22
7	8.7054	42.9472	2920.24
8	35.5252	25.6767	1922.33
9	25.2997	0.749229	232.594
10	4.57025	28.2226	352.949
11	7.36564	8.29493	323.059
12	49.4263	22.2846	2939.56
13	5.95426	0.233467	35.5065

Statistik/ Tabular



Peta Kertas



Survei
Lapangan

Sistem Referensi Koordinat



Geografis

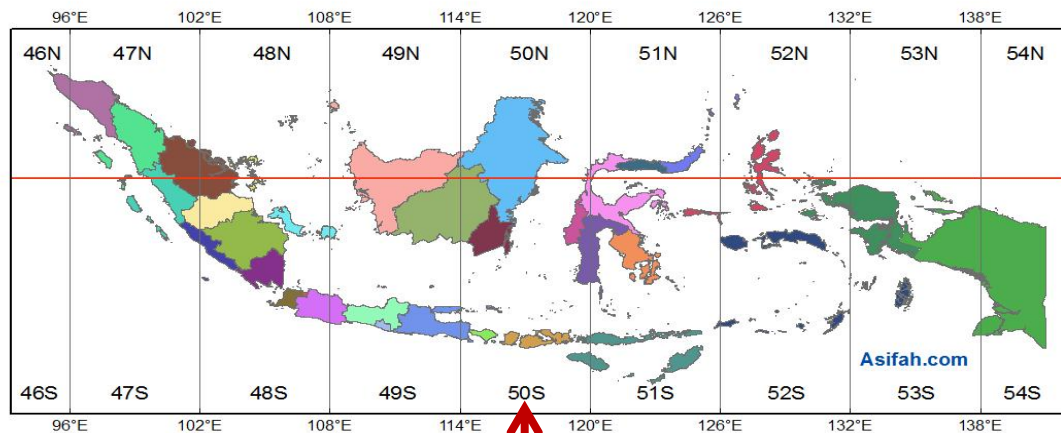
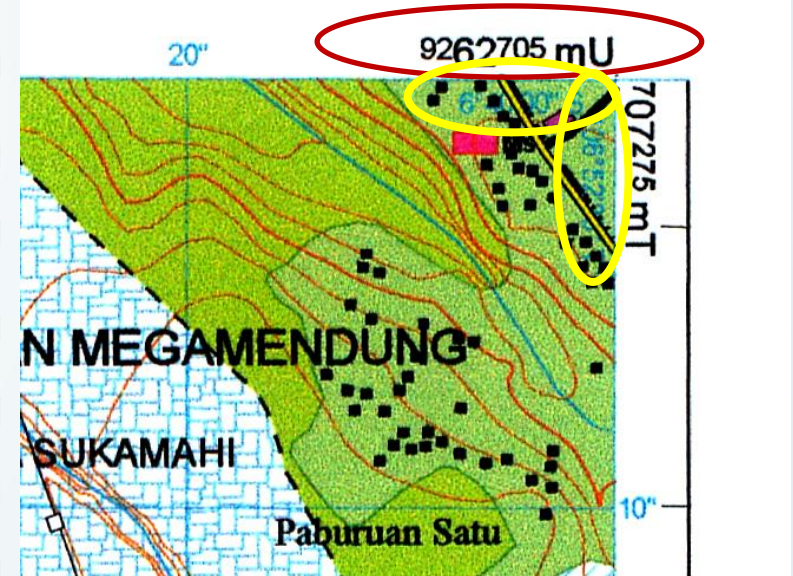
Posisi obyek di permukaan bumi diukur dengan derajat lintang dan bujur (X,Y) Indonesia menggunakan WGS 84

Contoh:

110° 4' 53" BT dan 4° 30' 35" LS

1 menit = 1/60 derajat

1 detik = 1/3600 derajat



Universal Transverse Mercator (UTM)

dibagi menurut zone dengan satuan meter
Indonesia berada di zona 46 - 54
Samarinda ada di Zona 50S

Praktik Pengelolaan Data Spasial

- ❖ Pengenalan software Quantum GIS
- ❖ Menambahkan layer vektor dan raster
- ❖ Pengaturan sistem koordinat
- ❖ Identifikasi data
- ❖ Simbologi dan labelling
- ❖ Menambahkan basemap
- ❖ Digitasi

Tools Menampilkan Basemap

SERVICES

<https://geoservices.big.go.id/raster>

MENU PLUGINS

- ❖ QuickMapServices
- ❖ HCMGIS

BROWSER PANELS - XYZ TILES

- ❖ RUPABUMI INDONESIA (RBI)

https://geoservices.big.go.id/rbi/rest/services/BASEMAP/Rupabumi_Indonesia/MapServer/tile/{z}/{y}/{x}

- ❖ ESRI IMAGERY

https://server.arcgisonline.com/arcgis/rest/services/World_Imagery/MapServer/tile/{z}/{y}/{x}



#1 Peta
Data
Nusantara

BerAKHLAK
BerAKHLAK
BerAKHLAK



TERIMA KASIH

**#bangga
melayani
bangsa**



www.big.go.id



badan informasi geospasial



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Pengolahan Data Tabular/ Statistik

- A. Mengubah data tabular/ statistik menjadi data spasial
Syarat: Data excel disimpan dalam format CSV (.Comma Delimited)
- B. Integrasi data spasial dengan data tabular/ statistik
Syarat: Masing-masing data memiliki atribut unik (sebagai kode referensi) untuk memudahkan proses integrasi

Checklist Panels dan Toolbars pada QGIS

Panels	<input checked="" type="checkbox"/> Web Toolbar
<input type="checkbox"/> Advanced Digitizing Panel	
<input type="checkbox"/> Browser (2) Panel	
<input checked="" type="checkbox"/> Browser Panel	
<input type="checkbox"/> Debugging/Development Tools Panel	
<input type="checkbox"/> GPS Information Panel	
<input type="checkbox"/> Layer Order Panel	
<input type="checkbox"/> Layer Styling Panel	
<input checked="" type="checkbox"/> Layers Panel	
<input type="checkbox"/> Log Messages Panel	
<input type="checkbox"/> Overview Panel	
<input checked="" type="checkbox"/> Processing Toolbox Panel	
<input type="checkbox"/> Results Viewer Panel	
 Search QMS Panel	
<input type="checkbox"/> Spatial Bookmark Manager Panel	
<input type="checkbox"/> Statistics Panel	
<input type="checkbox"/> Temporal Controller Panel	
<input type="checkbox"/> Tile Scale Panel	
<input type="checkbox"/> Undo/Redo Panel	

Toolbars
<input checked="" type="checkbox"/> Advanced Digitizing Toolbar
<input type="checkbox"/> Annotations Toolbar
<input checked="" type="checkbox"/> Attributes Toolbar
<input checked="" type="checkbox"/> Data Source Manager Toolbar
<input type="checkbox"/> Database Toolbar
<input checked="" type="checkbox"/> Digitizing Toolbar
<input checked="" type="checkbox"/> Help Toolbar
<input checked="" type="checkbox"/> Label Toolbar
<input checked="" type="checkbox"/> Manage Layers Toolbar
<input checked="" type="checkbox"/> Map Navigation Toolbar
<input type="checkbox"/> Mesh Digitizing Toolbar
<input checked="" type="checkbox"/> Plugins Toolbar
<input type="checkbox"/> Project Toolbar
<input type="checkbox"/> Raster Toolbar
<input checked="" type="checkbox"/> Selection Toolbar
<input type="checkbox"/> Shape Digitizing Toolbar
<input type="checkbox"/> Snapping Toolbar
<input type="checkbox"/> Vector Toolbar