



UN-GGIM

UNITED NATIONS
COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

ONE MAP, ONE DATA POLICY: A CHALLENGE FOR INTEGRATION



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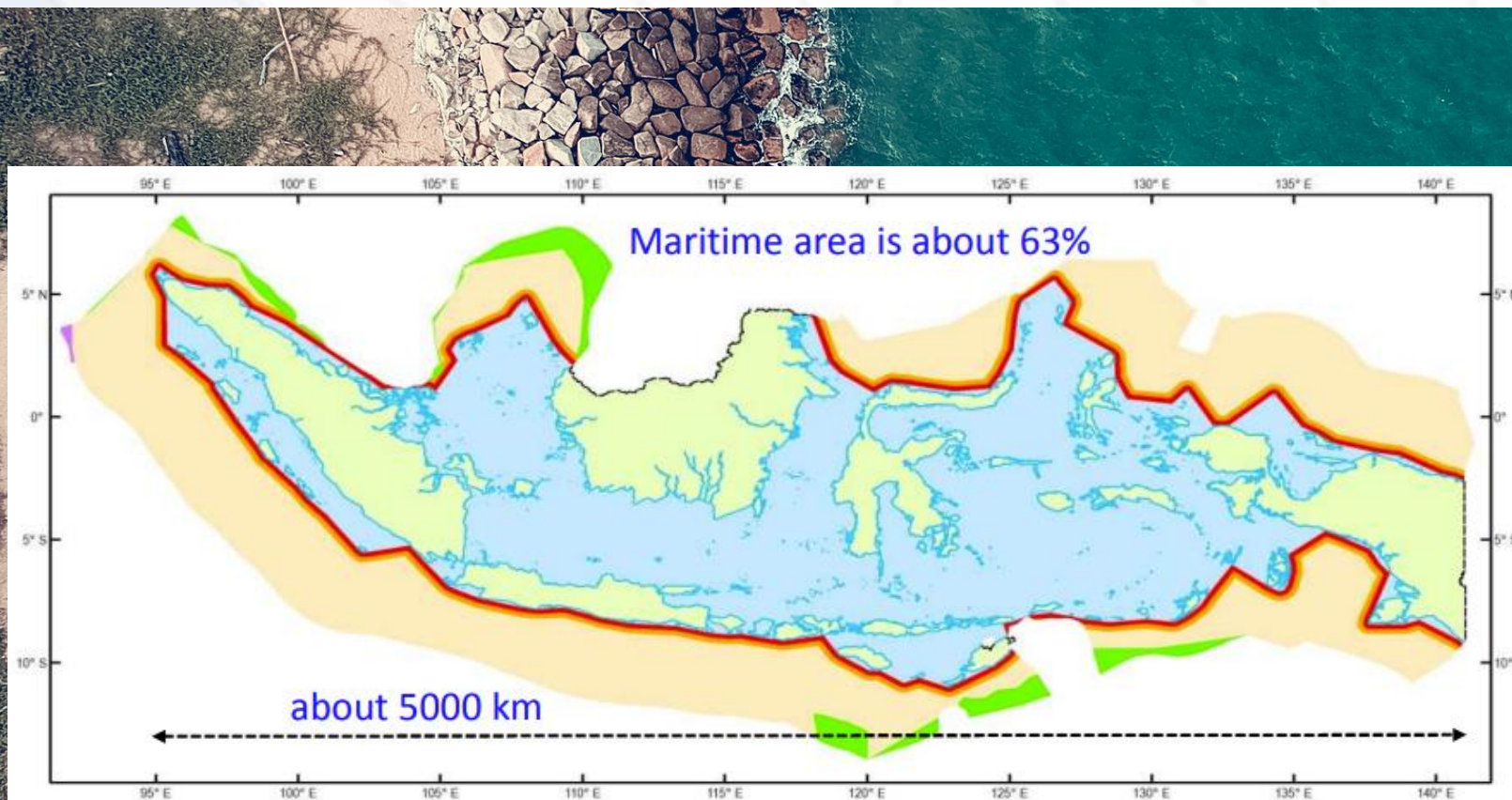
SUNTEC CONVENTION AND EXHIBITION
CENTRE, SUNTEC CITY, SINGAPORE
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BADAN INFORMASI
GEOSPASIAL



about indonesia



Indonesia has abundant LAND and MARINE natural resources

Geospatial Information is compulsory these natural resources

SOVERIGNTY ZONE		in km ²
1. Internal Waters and Island		3.092.085
2. Territorial Waters		282.583
SOVERIGN RIGHT ZONE		in km ²
1. Economic Exclusive Zone		2.936.345
2. Continental Zone		2.749.001
Continental Zone > 200 nm		4.209
Maritime Area (km ²)		3.223.137
Land Area (km ²)		1.890.739

integrate topographic map, coastal and marine area map

Act: 4/2011 and Government Ordinance : 9/2014



Topographic Map (RBI)

- cover land area only
- coastline using Mean Sea Level (MSL)
- MSL as vertical reference
- Map Scale : 1:1.000.000 to 1:1.000



Coastal area Map (LPI)

- cover coastal area (60%-70% land area and 30%-40% marine area)
- coastline using lowest tide level
- MSL as vertical reference on land area and lowest tide level as vertical reference on marine area
- Map scale : 1:250.000 to 1:10.000



Marine area Map (LLN)

- cover most of the marine area
- coastline using lowest tide level
- Lowest tide level as vertical reference
- Map Scale : 1:500.000 to 1:50.000

Act: 11/2020 and Government Ordinance : 45/2021



Topographic Map (RBI)

- cover land, coastal and marine area
- coastline using Mean Sea Level (MSL) integrated with lowest tide level
- Geoid as vertical reference
- Map Scale : 1:1.000.000 to 1:1.000



"there is only one type of basemap which is RBI (Rupabumi Indonesia)/Topographic Map . RBI integrates all element of the base map, both on land, coastal and marine

integrate the natural resource account

"The natural resource account is agreed upon in four components : land , forest, water resources, and mineral"



LAND

the physical environment consists of climate, relief, soil, water, vegetation, and objects on it as long as there is an influence on land use

FOREST

ecosystem unit in the form of a stretch of forest containing biological natural resources which are dominated by trees in their natural environment which cannot be separated from one another



WATER

all water found on, above, or below the ground surface, including in this sense surface water, ground water, rain water, and sea water on land

MINERAL

a concentration or occurrence of material that has economic value on or above the earth's crust, of a certain form, quality and quantity that has the potential to eventually be economically extracted



"forming natural resource account is sectoral, Geospatial Information Agency took initiative to integrate the 4 component of natural resources account

cadastral data collection policy in Indonesia

1

1960 - 1997

- The era in which data collection is marked by the principle of complete village by village and the use of measuring equipment that is still analog, such as theodolites and measuring tapes
- various coordinate system
- analog maps
- analog database

GOVERNMENT ORDONANCE :
10/1960

2

1960 - 1997

- The transformation of land activities has begun to be carried out towards a digital direction with the introduction of LoC, Desktop KKP, Web KKP and current KKP and continues to experience improvements and capacity building
- TM3 National coordinates system
- Computerized database

GOVERNMENT ORDONANCE :
24/1997

3

1997 - 2021

- land registration is carried out in a systematic and complete manner, the use of licensed surveyors, the use of modern equipment such as GPS RTK for measurements, drones for work maps and my land survey application.
- Systematic Mapping & Complete Villages (No Gap, No Overlap and No Dispute)
- Thematic Mapping PTPR

EXECUTIVE ORDER : 02/2018

4

2021 - 2024

- Risk-Based Physical Data Collection
- Realible & Compliteness Systematic Mapping towards Complete Indonesia 2025
- Realizing Electronic Ready Data (DSE) & Media Transfer Ready Data (DSAM) in Complete Villages in the context of electronic services
- Single Source Truth/ Valid data schema

ELECTRONIC ERA





cadastre survey and mapping acceleration

Indonesia's Target 2025: Complete Cities and Complete Villages

1. PTSL Campaign

- Public Communication Strategy
- Participatory Work Map Making Activities
 - Demarcation
- Incentive and Dissincentive

2. Implementation of fit for purpose

- basemap creation with Drone
- Identification of land parcels or binding measurements on Base Map.

3. Comprehensive Measurement & Mapping

- measurements in all fields, both registered and unregistered.
- Adjustment of all old land parcels.

4. PTSL follow-up

- omitted in complete city and village locations.
- integrate complete village data into district/city government
- positive stetsel

5. Residual settlement and quality improvement

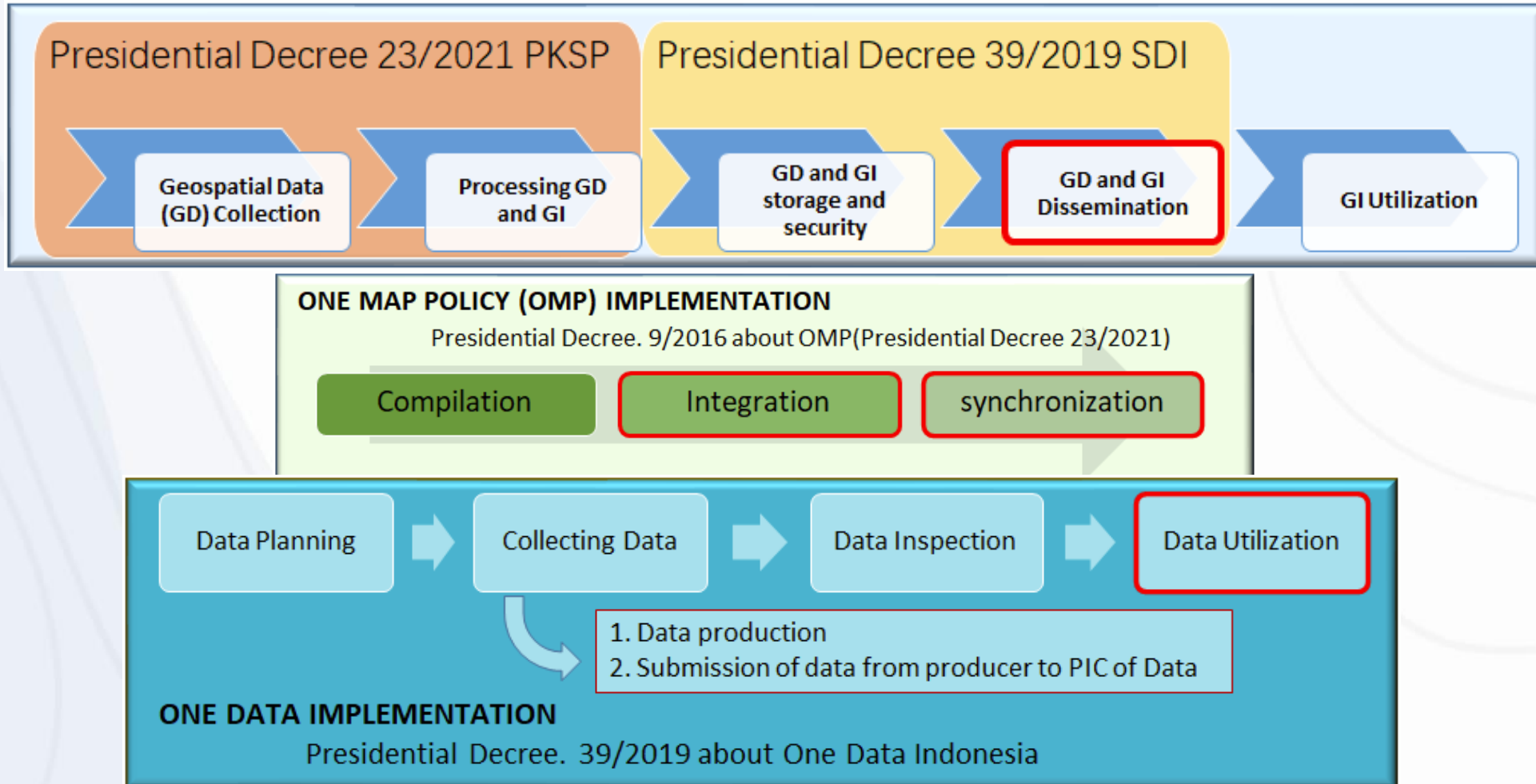
- Invalid land parcel list.



PTSL :
complete systematic land registration

spatial data management

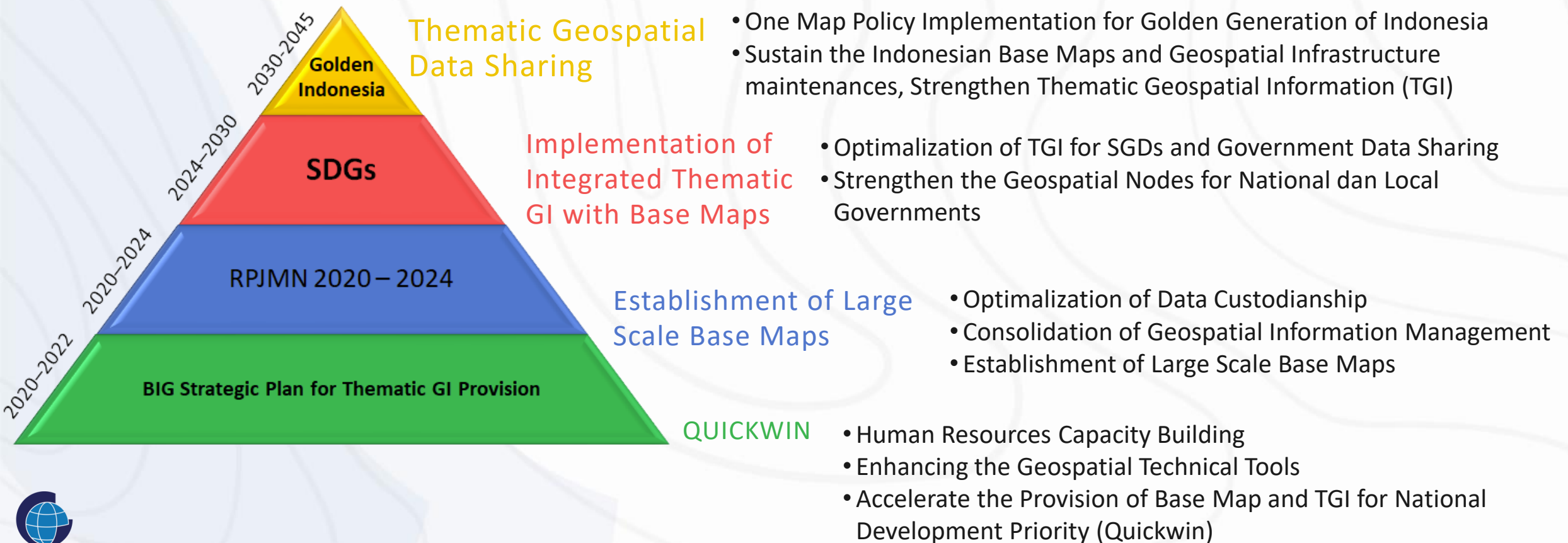
Geospatial Information (GI) Implementation
Act No. 4/2011 about Geospatial Information (GI)





geospatial information roadmap

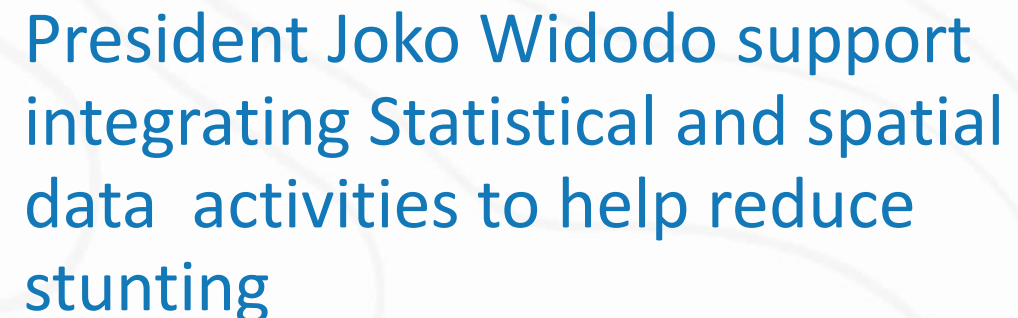
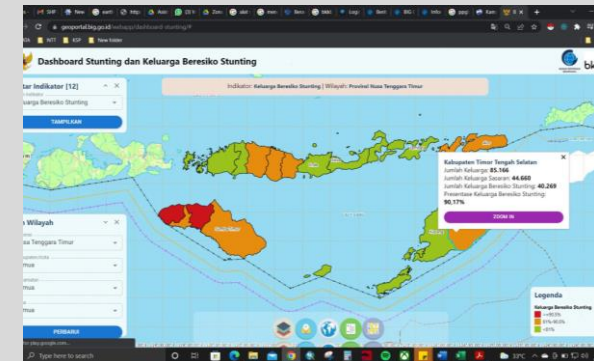
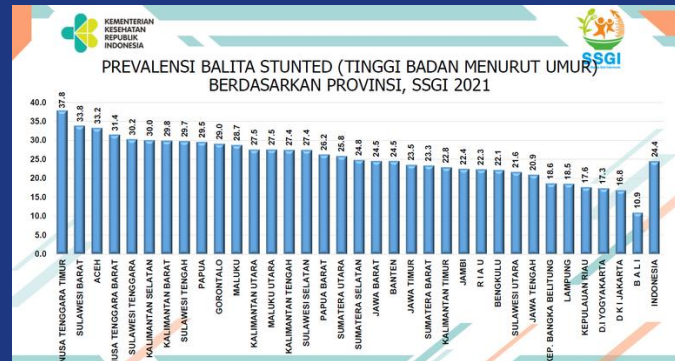
A national geospatial information roadmap 2020 – 2045 for Golden Generation of Indonesia's establishment





Stunting and family at risk of stunting prototype dashboard

Spatial Data (One Name One Address)





thank you