

Ministry of Justice
The secretary State of Land And Property
The Directorate GERAL of Land And Property

PRESENTATION
COUNTRY REPORT OF TIMOR LESTE

ASIA PACIFIC
GEOSPATIAL FORUM

Paulino da Cruz

Senior Professional Geospatial Information.

For 12th Plenary UN-GGIM-AP, Bali 6-10 November 2023

CONTENT

1. *Country Profile*
2. *Legal Framework and policy overview*
3. *Major Activities among institution Governmental*
4. *Current activities and Future Project*
5. *GI to Society Benefit*
6. *Conclusion*

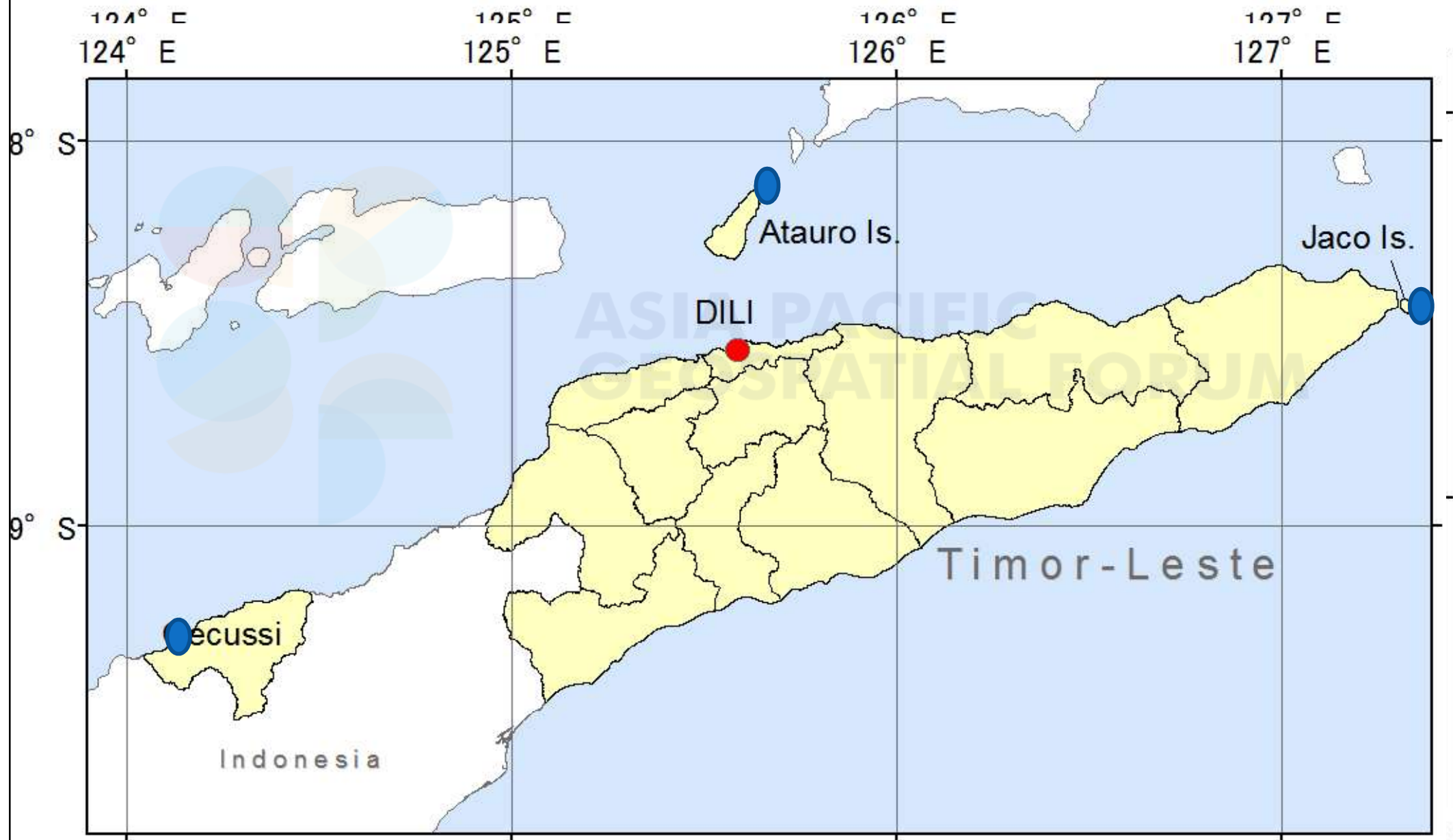
MAPA ADMINISTRATIVO TIMOR LESTE



Country Size : 15 000 Km²

Total :

- Municipality : 14
- Sub District : 68
- Village : 456
- Island : - Oecussi
- Atauru
- Jaco



Outline

- Size: 15,000 sq. km
- Population : 1.300 million
- Capital city: Dili
- Economy: Agriculture (Coffee, sandalwood), Offshore oil and gas
- 14 Districts, 68 Sub-districts and 456 Sucos (Villages)

History

- 1611-1975: Portuguese Administration 450 years
- 1975: Indonesian Administration 24 years
- 1999: Referendum on independence
- 2002: Independence (20 May)
- 2009: twenty one years from independence

Legal framework and Policy Overview

- DGTP/DNIG currently is taking responsibility according to the Minister of Justice ordinance No. 10 / 2019, authorizing to draft or conceptualizing the National Geospatial Data Infrastructure (NGDI) with the following objectives:
- Set the standards of GIS mapping in Timor-Leste including the establishment of a base map.
- Coordinate GIS activities by convening regular meetings.
- Centralize metadata and feature catalogues of GIS data from all Government Institutions, and
- Facilitate exchange of spatial data among Government bodies.
- Establish of committee for Geospatial Information
- Sharing Geospatial information from related government institutions

DGTP, Ministry of Justice

- Cadastral surveys for determination of location and size of parcels for development and use.

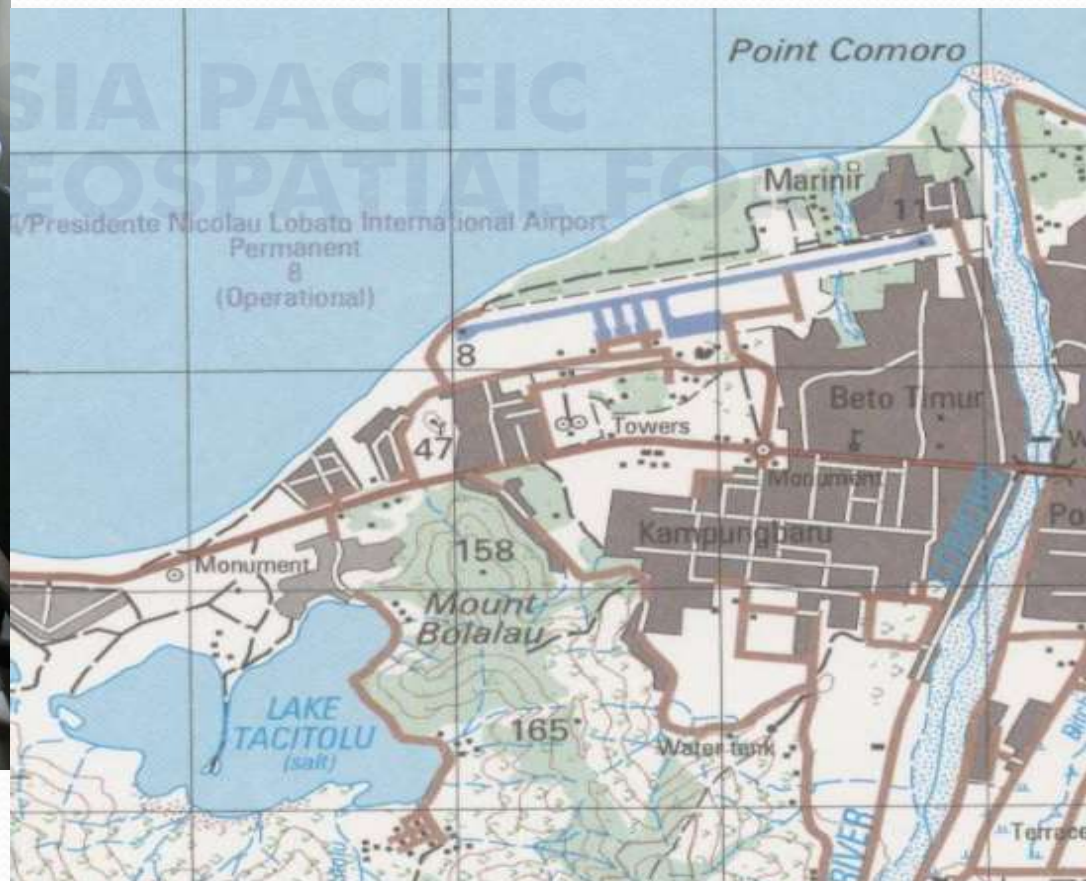


DGTP, Ministry of Justice

Maintain framework Geospatial dataset



1. Topographic Map scale : 1 : 50.000

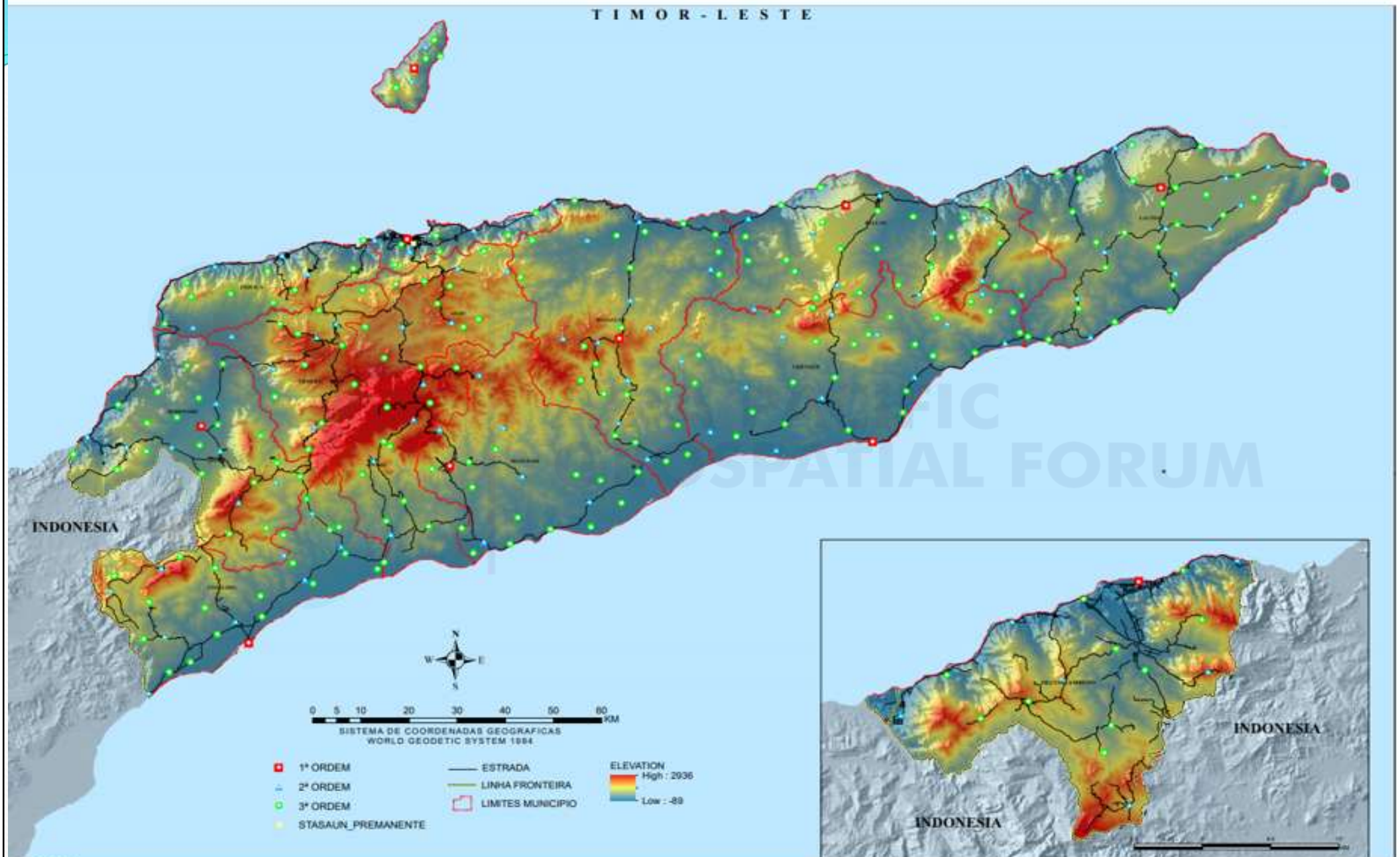


2. Aerial Photograph scale 1: 1000 (2014)



Cadastral map

3. Geodetic networks



3. Geodetic networks



DGTP, Ministry of Justice

➤ Contribution GI to relevant Ministry

➤ Ministry of State Administration

- Providing thematic maps for Election
- Ministry of Agriculture Conducting surveying for establishment of National park and Protection area

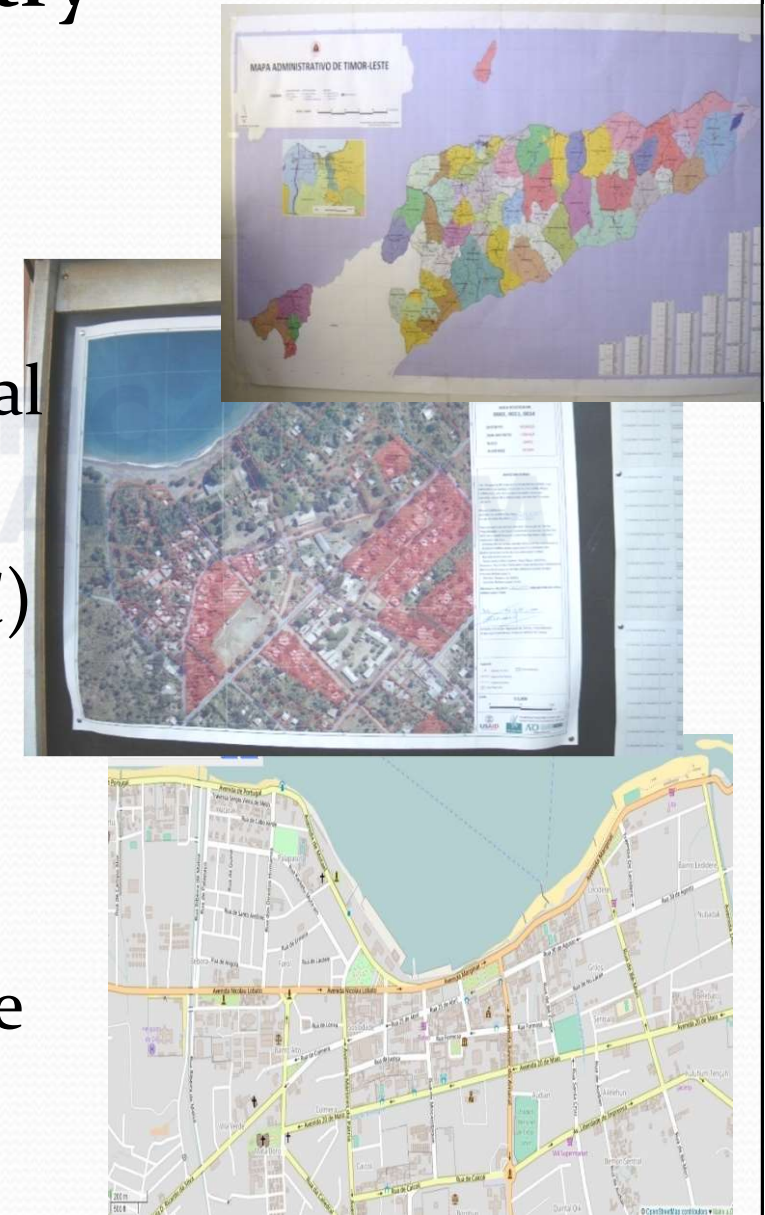
➤ The National Cadastral System (SNC)

- Establish land registration system
- Legal and technical (cadastral base map)

➤ Boundary Demarcation survey

- Joint border survey with Indonesian side

➤ Toponymy surveying :

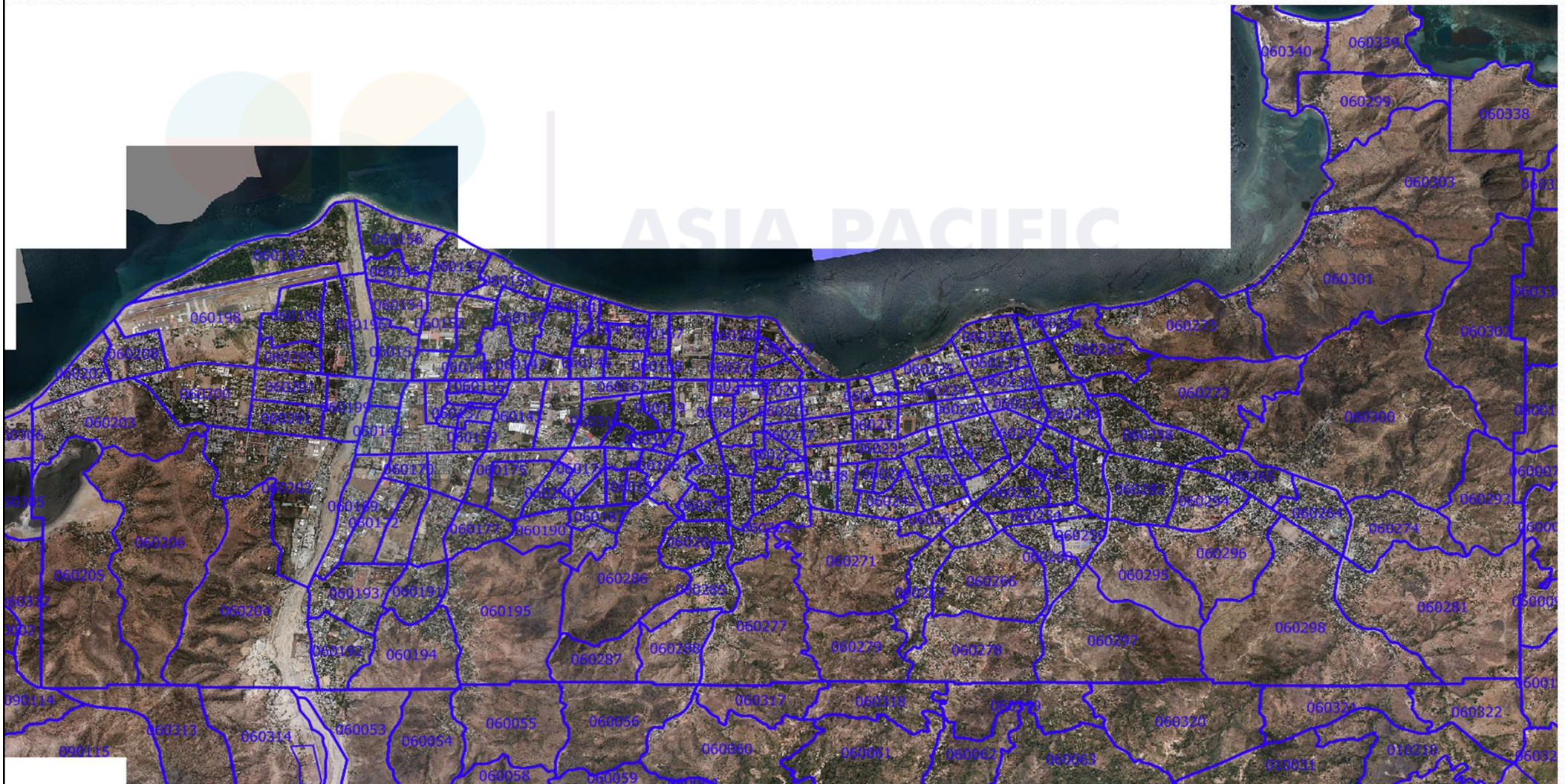


DGTP, Ministry of Justice

- GI Dataset

- Topographic map 1:50,000
- Topographic map for Dili City 1:2,000
- USAID Project: *Strengthening Property Rights in Timor-Leste* (SPRTL) managed by the company Tetra Tech ARD (ITA NIA RAI)
- Portugal (GMN- ARM APPRIZE) : National Geodetic framework, and Survey to Stablish National Cadastral System, (2014-2020.)

- Portugal (GMN- ARM APPRIZE) : National Geodetic framework, Survey to Stablsh National Cadastral System, 2014-2020.



CONTRIBUTION GI TO INVESTMENT



• **Collaboration with government institution and private sector**

Many government institutions and private sector create maps not based on accurate information. Also, each stakeholder issue a map not based on an accurate data standard.

Therefore, DGTP/DNIG currently is taking responsibility according to the Minister of Justice ordinance No. 10 / 2019, authorizing to draft or conceptualizing the National Geospatial Data Infrastructure (NGDI) with the following objectives:

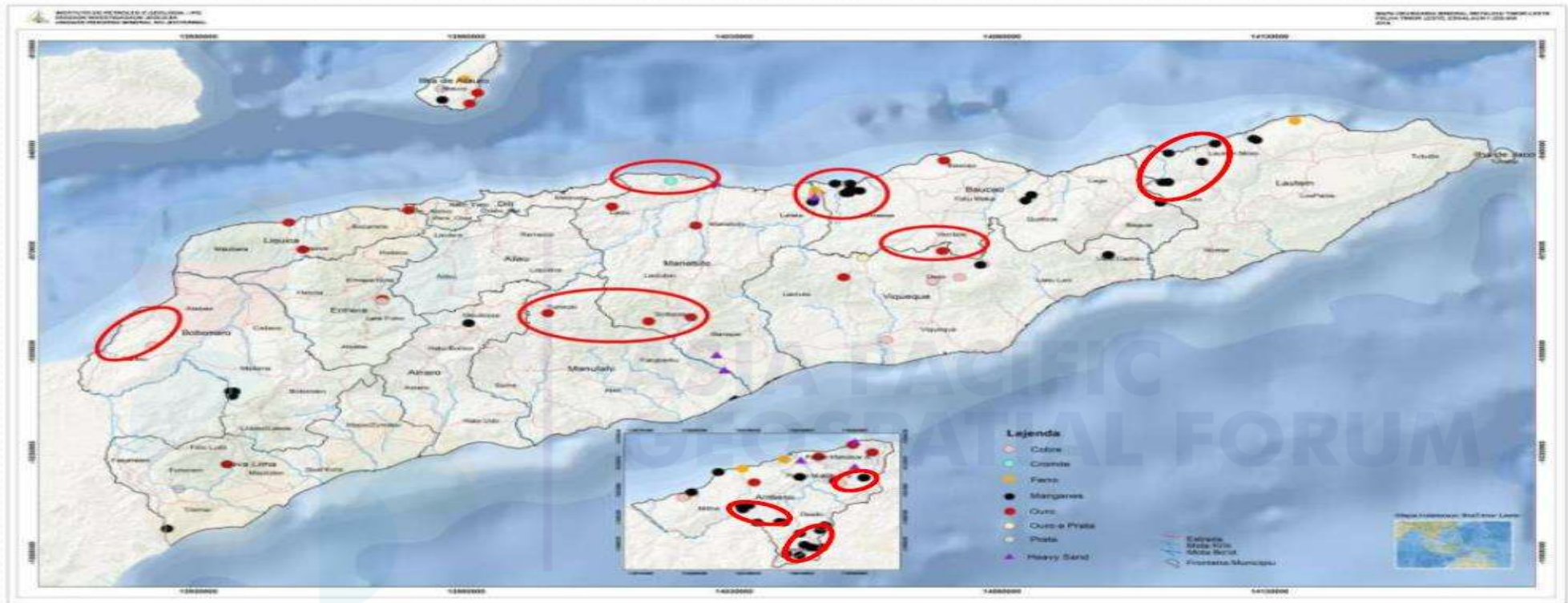
- Set the standards of GIS mapping in Timor-Leste including the establishment of a base map.
- Coordinate GIS activities by convening regular meetings.
- Centralize metadata and feature catalogues of GIS data from all Government Institutions, and
- Facilitate exchange of spatial data among Government bodies.
- Establish of committee for Geospatial Information

Ministry of Territorial Planning

- Establish Eighth Cors Station Cover country



The Institute of Petroleum and Geology (IPG); the institution has been identifying potential area of petroleum that show in the map below.



- Timor Gap , Mapping on “Timor Supaly base Project
- Ministry of Natural Resources , Conducting Mapping and Survey for LNG project at Beasu Area

Ministry of Agriculture Survey on stabilisht

National Park and Protection area



The Ministry of Public Work; the Street and bridge Division

- The division has been prepared maps for national street, rural street and bridge for Timor-Leste and also by municipality. They had established unique code for National Street and rural street and also for bridge. The division on going recruit new staff to update spatial information and other related activity. The division had support equipment and training from JICA, UNDP, and ILO.
- Survey equipment and software;
- ArcGIS 10.2
- QGIS 2.18
- GPS Garmin
- Transcend (video record)
- Smart phone

The Ministry of Planning and Territory; the National Director Geospatial Data

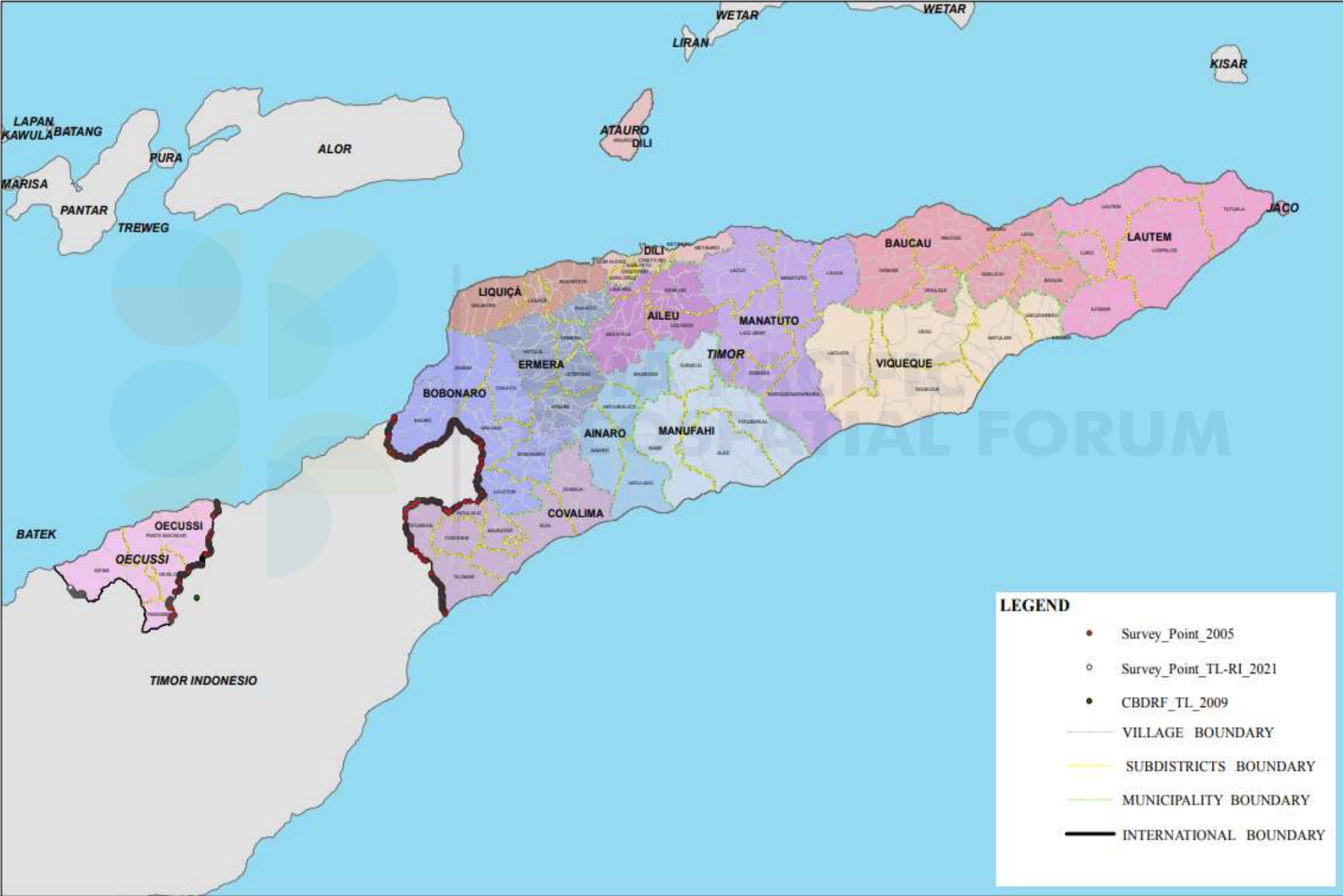
(NDGD) have been prepared contour map covered all Timor-Leste, they had prepared geospatial data with;

- LiDAR,
- DTM,
- CORS.
- Drone



ASIA PACIFIC
GEOSPATIAL FORUM

MAP JOIN SURVEY BOUDARY TL- RI



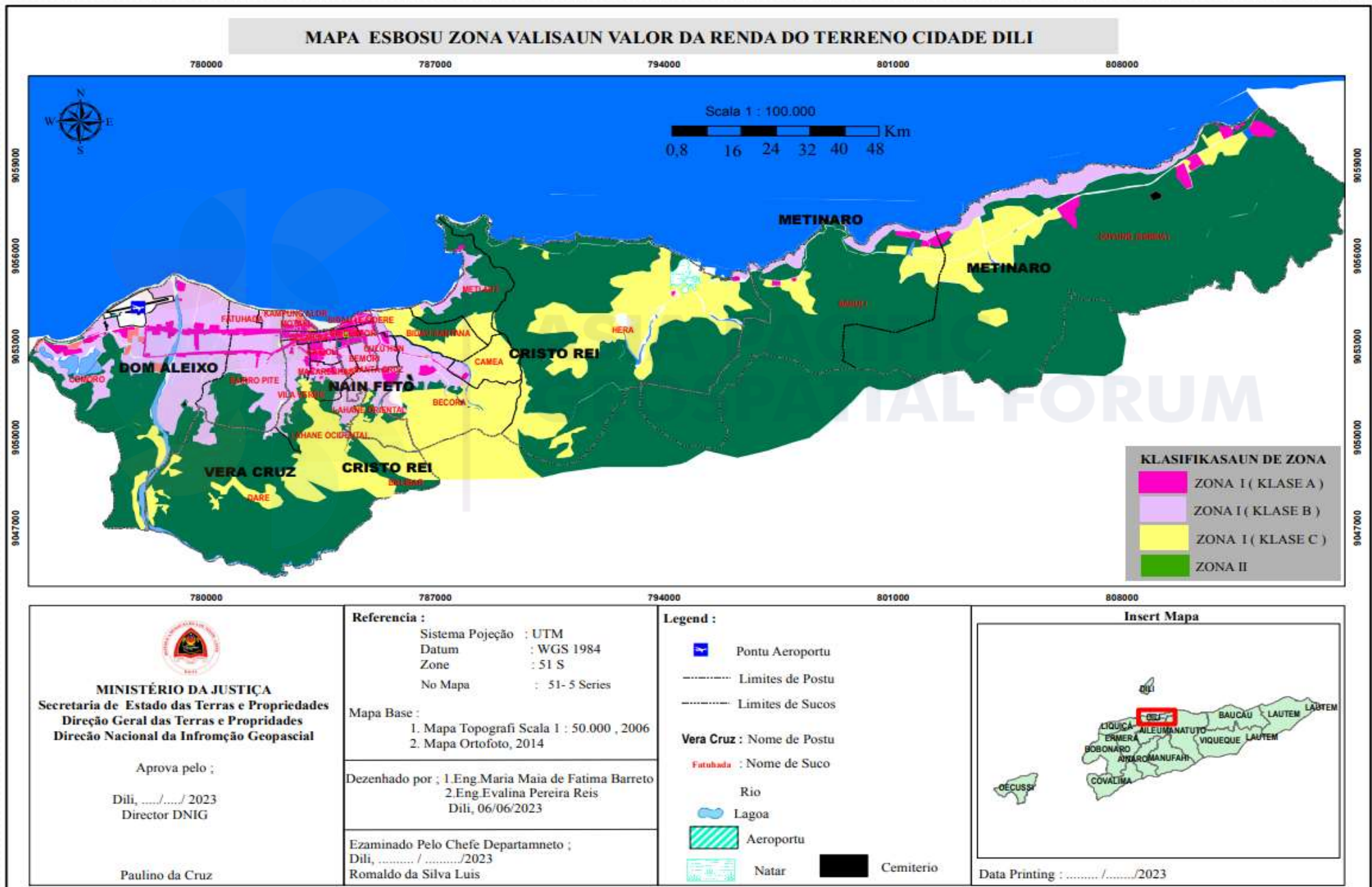
BORDER DEMARCATION

- Clear national border demarcation between Timor-Leste and Indonesia for
 - Maintaining security
 - Facilitate the movement of people and goods
 - Effective natural resources management
- Continuing joint efforts are
 - Resolve contested sections
 - Border marker installation, survey and maintainance
 - 1:25,000 mapping in the border area

Current activities

- The National Directorate Geospatial Information on going conducting the survey
- Maintenance Geodetic points in those Municipalities; Covalima, Ermera, Manufahi, Liquisa and RAEOA Oecusse
- Stablisht Standarst Operation Procedure (SOP) mapping and Geospatial Information dataset
- On going procces to establihs land value zone map for Dili Municipality
- Survey admiminstrative boundary in Aileu Municipality
- On going procces survey Toponymy in Manatuto Municipality

LAND VALUATION ZONE



Future Project

- Future project to be consideration and looking for technical assistance on various area such as :
 - a) Capacity building
 - b).Establishing of National Vertical Datum
 - b) Conducting Leveling surveying
 - C) Surveying to Establishing Administrative boundary Maps
 - d). Establish the rules for management of Control Point
 - e) Survey on updating topographic map 1:25.000

GI to Society Benefit

- www.mj.gov.tl

- DGTP

- Portal-Geo Spacial

- Ponto Ref.Geodegia TL

- Geodetic Infrastructure
- Administration boundary map
- Protection area
- Draige map

ASIA PACIFIC
GEOSPATIAL FORUM

Conclusions

- Efforts have been made, but national capacity is still low.
- Priorities are
 - Sufficient technical capacity development in the future
 - Establishing the Geospatial Information Committ
 - Thanks to all the members UN-GGIM AP and International communities
- Expect the better future than today



THANK YOU

ASIA PACIFIC
GEOSPATIAL FORUM