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### **Tenth United Nations Conference on the Standardization of Geographical Names**

New York, 31 July – 9 August 2012

Item 11(c) of the provisional agenda\*

**Toponymic data files and gazetteers:**

**Data maintenance**

### **The progress work of toponymic geo-database for preparing National Gazetteer**

Submitted by Indonesia\*\*

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\* E/CONF.101/1.

\*\* Prepared by the Secretariat of National Team for the Standardization of Geographical Names

## **Summary**

Indonesian toponymic geo-database is facing a new paradigm with the born of Act Number 4 Year 2011 regarding Geospatial Information and the transformation of National Coordination Agency for Surveys and Mapping (BAKOSURTANAL) into *Badan Informasi Geospasial* (BIG). Toponymic geo-database conducted by BAKOSURTANAL in the last stage, where collected into region and developed as seamless toponymic geo-database in order to establishing National Gazetteer. In this paper describe the current status of toponymic geo-database.

## **Background**

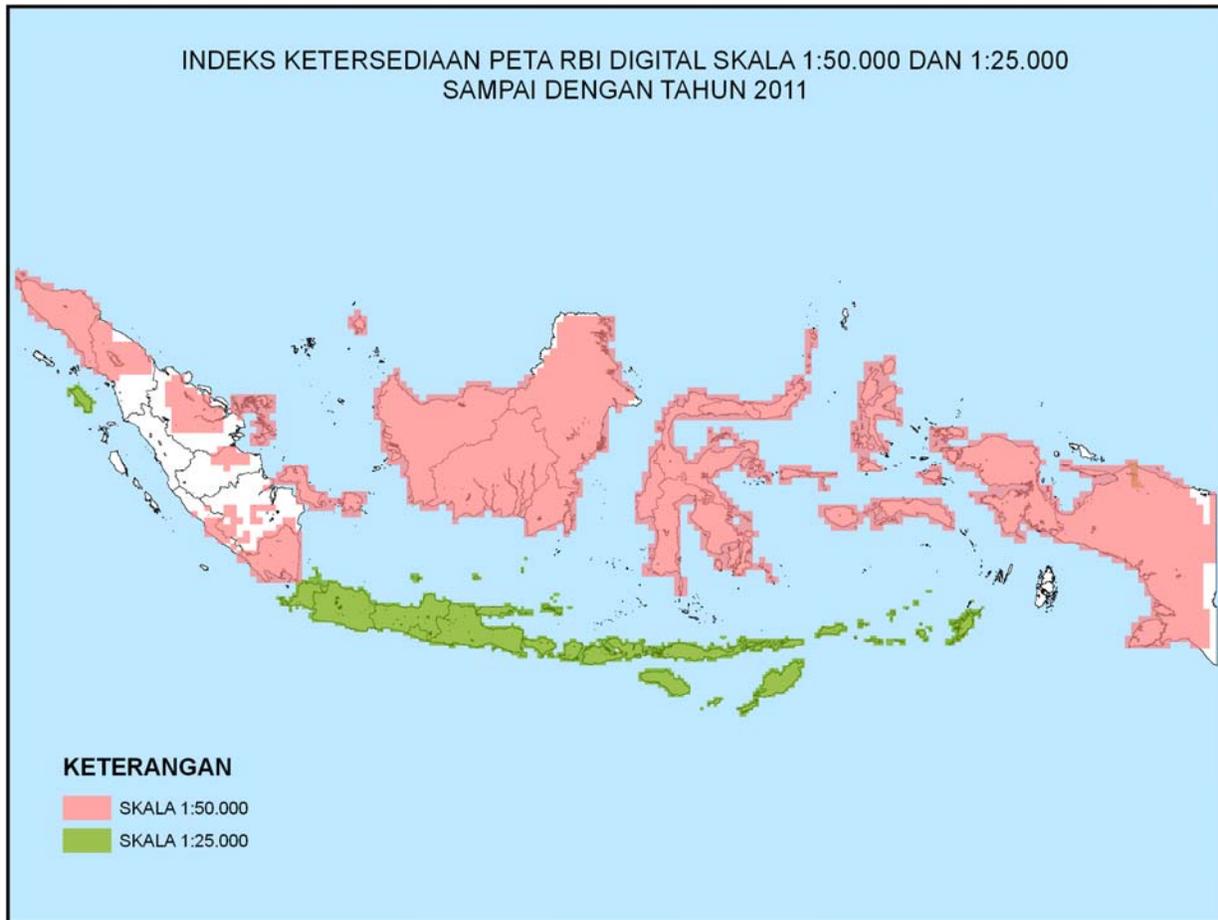
Indonesian toponymic geo-database is facing a new paradigm with the born of Act Number 4 Year 2011 regarding Geospatial Information and the transformation of National Coordination Agency for Surveys and Mapping (BAKOSURTANAL) into *Badan Informasi Geospasial* (BIG). In this Act Number 4 Year 2011 Article 12 letter d mentioned geographical names as part basic geospatial information and proceed with Article 15 which states that the name referred topographical collected using procedures for the collection of topographical names in accordance with the provisions of the legislation. This is in line with Presidential Regulation No. 112/2006 concerning the National Team for Standardization of Geographical Names in Indonesia and the Minister of Home Affairs Regulation No. 39/2008 on General Guidelines for Standardization of Topographic Names. Two aims of standardization of topographical names closely related with Act No.4/2011 are providing an accurate geospatial data and information on topographical names of the Unitary Republic of Indonesia and publishing national gazetteers to provide a common understanding on topographical names in Indonesia.

## **Providing data (status until 2011)**

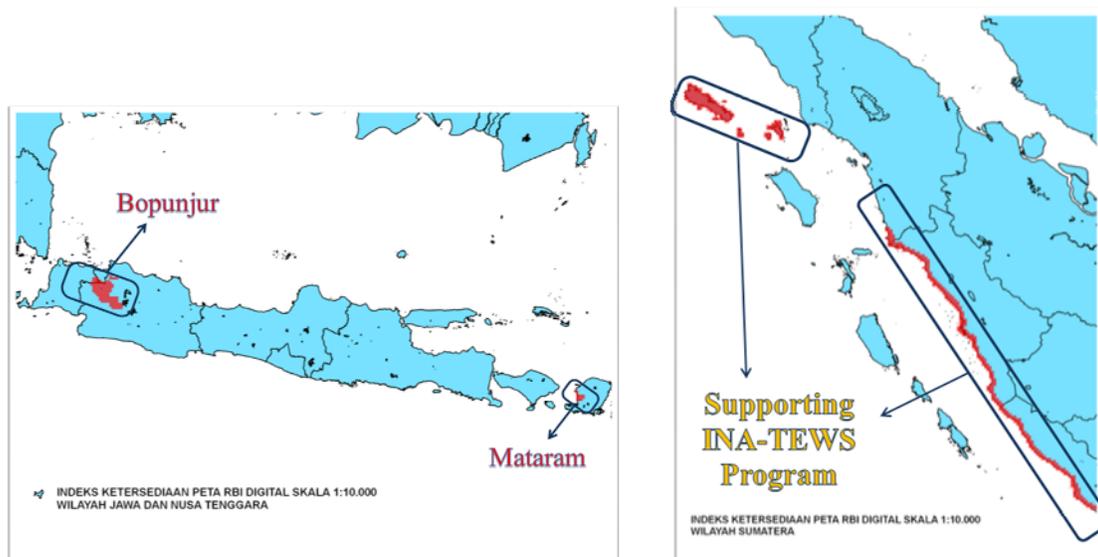
The availability of topographic map series of Indonesia at various scales such as 1:25,000-1:50,000 which compiled on seamless of toponymic geo-database (see Figure 1). But, topographic map series of Indonesia at scale 1:10,000 not yet compiled into seamless of toponymic database. Bopunjur area (Bogor, Puncak, and Cianjur), Mataram , and west coast of Sumatra Island already mapped in scale 1:10,000 (Figure 2). Those areas are already prepared in database, but not yet compiled into seamless of toponymic geo-database

## **The Development on Stage of Work**

Start in 2011, software used in processing geographical names obtained from topographic map: AutoCAD Map, ArcGIS and MS Access. Previously, automated data-processing systems using ArcInfo but now used two GIS software: AutoCAD Map (data preparation) and ArcGIS (building toponymic geo-database and geographical names seamless form). In the future work, this toponymic geo-database will be loaded into The Indonesian Geographic Names Service (IGNS).



**Figure 1. Availability Index of Topographic Base Map Scale 1:50,000 and 1:25,000 until year 2011**  
(Source: Centre for Topographic Base Mapping-BAKOSURTANAL, 2012)



**Figure 2. Availability Index of Topographic Base Map Scale 1:10,000 until year 2011**  
(Source: Centre for Topographic Base Mapping-BAKOSURTANAL, 2012)

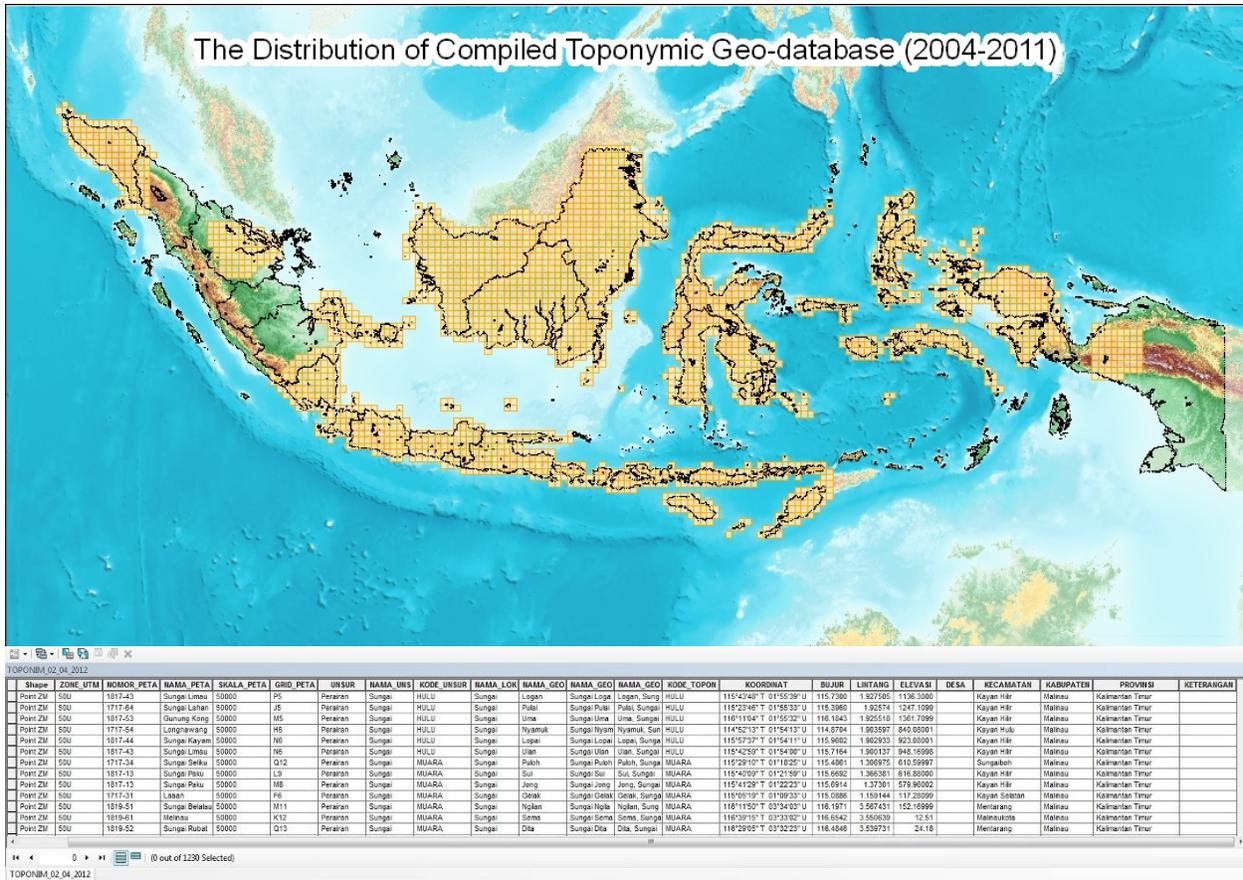
### **The current status of toponymic geo-database**

Toponymic geo-database conducted by BAKOSURTANAL in the last stage, where collected into region and developed as seamless toponymic geo-database in order to establishing National Gazetteer. The automated data-processing system of toponymic data has been presented in the Ninth United Nation Conference on the Standardization of Geographical Names (UNCSGN). In this paper describe the current status of toponymic geo-database. This geodatabase has been used on verification and validation the names of prefectures (administrative areas) in years 2009-2011. In 2012, toponymic geo-database prepared for verifying and validating the names of natural geographic feature in 8 (eight) Provinces in Indonesia.

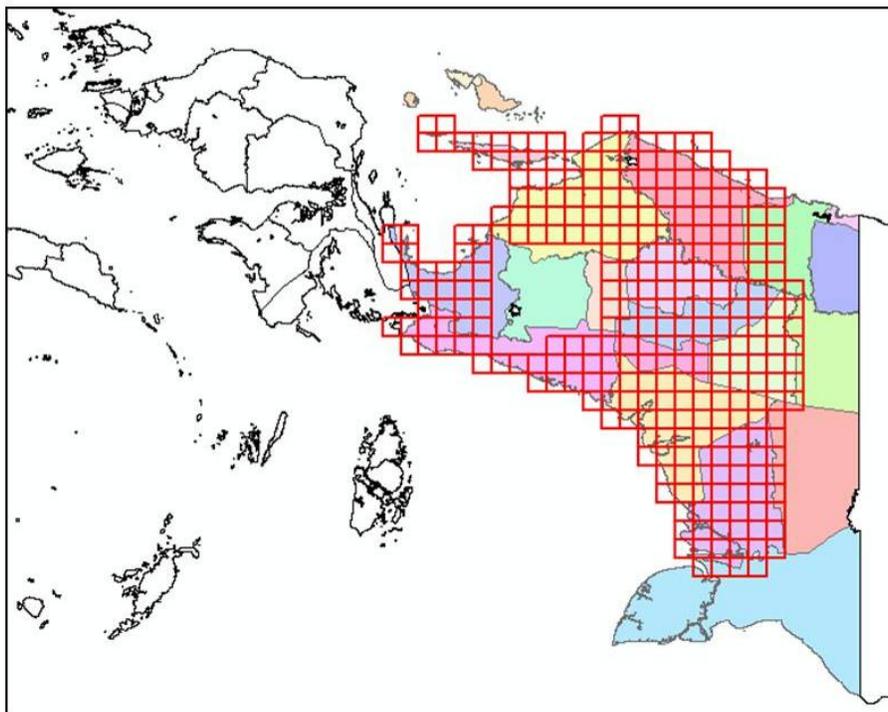
Geographical names in toponymic geo-database obtained from topographic map series of Indonesia at various scales such as 1:25,000-1:50,000. The progress work of 2004-2011 on activities of building database of geographical names almost compiled all geographical names from the maps. In order to maintenance toponymic geo-database at the end of year always compiled into toponymic geo-database (Figure 3). In 2012, the activity of building database of geographical names conducted to complete Papua region. Those data stored into shapefile format and Ms. Access format (\*.mdb), also on ORACLE centrally.

In the future work, toponymic geo-database will be processed into IGNS schema. The Indonesian Geographic Names Service is envisioned to be an authoritative source of geographic names in Indonesia. ESRI Global through ESRI Indonesia provides support for BAKOSURTANAL toward the development of an initial operating capability of IGNS. IGNS will be managed at BAKOSURTANAL as part of the Indonesian Spatial Data Infrastructure (Ina-SDI). ESRI Global proposes an initial schema for IGNS reference data as listed below.

- OBJECTID: <auto generated>
- NAMA\_GEOGRAFIS: [NAMA\_GEO2]
- JENIS: [NAMA\_UNSUR]
- STATUS: "Telah diverifikasi"
- SUMBER: "BIG, Toponim 2012"
- KETERANGAN: [NAMA\_GEO2] & " - " & " koordinat: " & [KOORDINAT] & ", unsur: " & [UNSUR] & ", index peta: " & [NAMA\_PETA] & "- " & [NOMOR\_PETA] & "- " & [GRID\_PETA] & ", skala cetak 1:" & [SKALA\_PETA] & ", terletak di desa " & [DESA] & ", kecamatan " & [KECAMATAN] & ", kabupaten " & [KABUPATEN] & ", provinsi " & [PROVINSI]
- LINTANG: [LINTANG]
- BUJUR: [BUJUR]
- KIRIBAWAH\_X: [BUJUR] - 0.3
- KIRIBAWAH\_Y: [LINTANG] - 0.3
- KANANATAS\_X: [BUJUR] + 0.3
- KANANATAS\_Y: [LINTANG] + 0.3
- PRIORITAS: 1



**Figure 3. The status of Toponymic Geo-database until 2011**



**Figure 4. Index of Work on Building Toponymic Geo-database in year 2012**

The result of toponymic geo-database, in printing needs to help user, this database prepared on its printing format in gazetteer for each scale. In this compiled database there are two map scale; 1:50,000 and 1:25,000 which can be seen in the map sheet number (on printing format).

<b>Kabupaten Badung</b>						
NAMA GEOGRAFIS	NAMA UNSUR	KOORDINAT PUSAT/MUARA	KOORDINAT HULU	ELEVASI DESA (m)	KECAMATAN	NO. PETA
Abianbase	Kampung	115 10 53 T 08 42 46 S		62	Kuta (Kel)	Kuta 1707-332
Abianbase, Kelurahan	Kelurahan	115 10 16 T 08 35 30 S		139	Abianbase (Kel)	Mengwi 1707-334
Abiansenmal, Desa	Desa	115 12 58 T 08 32 00 S		177	Abiansenmal	Abiansenmal 1707-334
Abiansenmal, Kecamatan	Kecamatan	115 13 09 T 08 31 15 S		186	Abiansenmal	Abiansenmal 1707-334
Adeng, Pangkung	Sungai	115 12 59 T 08 29 50 S	115 12 41 T 08 28 12 S	187	Punggul	Mengwi 1707-612
Adeng, Tukad	Sungai	115 07 29 T 08 36 33 S	115 07 58 T 08 35 46 S	28	Munggul	Mengwi 1707-333
Agantaka, Desa	Desa	115 14 35 T 08 34 52 S		156	Agantaka	Abiansenmal 1707-334
Alusdelagi, Jelirijing	Sungai	115 06 18 T 08 38 38 S	115 06 23 T 08 38 12 S	0	Munggul	Mengwi 1707-331
Ambungan	Kampung	115 11 48 T 08 29 34 S		156	Ayanan	Abiansenmal 1707-612
Ambungan	Kampung	115 13 12 T 08 24 47 S		451	Persipati Pungsan	Petang 1707-612
Anakan, Pangkung	Sungai	115 13 29 T 08 21 16 S	115 13 30 T 08 19 49 S	596	Persipati Sulangari	Petang 1707-614
Anakayung, Tukad	Sungai	115 13 57 T 08 25 38 S	115 15 07 T 08 21 17 S	429	Carangsari	Petang 1707-612
Angunggan	Kampung	115 13 49 T 08 27 14 S		346	Carangsari	Petang 1707-612
Angunggan Duah	Kampung	115 13 39 T 08 27 13 S		353	Carangsari	Petang 1707-612
Anyar	Kampung	115 11 26 T 08 28 36 S		254	Senbung	Mengwi 1707-612
Anyar	Kampung	115 13 16 T 08 26 50 S		372	Carangsari	Petang 1707-612
Anyar	Kampung	115 11 18 T 08 29 37 S		168	Sobangan	Mengwi 1707-612
Anyar	Kampung	115 10 19 T 08 43 49 S		49	Kuta (Kel)	Kuta 1707-332
Anyar	Kampung	115 13 09 T 08 45 40 S		31	Tanjungbenoa (Kel)	Kuta 1707-314
Anyar Kaja	Kampung	115 09 44 T 08 38 41 S		101	Kerobokan (Kel)	Kuta 1707-332
Anyar Kelud	Kampung	115 09 34 T 08 38 57 S		100	Kerobokan (Kel)	Kuta 1707-332

Kabupaten Badung, Provinsi Bali  
Pusat Pemetaan Dasar Rupabumi (PDR) - BAKOSURTANAL  
Edisi 1 @ 2012, BAKOSURTANAL

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Figure 5. Gazetteer of Badung Regency (Map Scale 1:25,000)

<b>Kabupaten Majene</b>						
NAMA GEOGRAFIS	NAMA UNSUR	KOORDINAT PUSAT/MUARA	KOORDINAT HULU	ELEVASI (m)	KECAMATAN	NO. PETA
Abaga	Kampung	118 56 49 T 03 30 38 S		92	Banggae	2012-14
Abaga, Lembang	Sungai	118 56 35 T 03 28 12 S	118 56 17 T 03 28 15 S	400	Pamboang	2012-42
Anihawe	Kampung	118 52 17 T 03 25 22 S		23	Pamboang	2012-42
Analcunryamba, Salu	Sungai	118 53 04 T 03 04 15 S	118 53 12 T 03 02 40 S	290	Mulunda	2012-44
Apoang	Kampung	118 51 36 T 03 23 58 S		26	Sendana	2012-42
Apolayang, Bottu	Gunung	118 51 45 T 03 11 24 S		516	Sendana	2012-44
Apoleang	Kampung	118 52 01 T 03 24 46 S		14	Sandana	2012-42
Apoleang, Lembang	Sungai	118 51 51 T 03 24 37 S	118 52 47 T 03 23 57 S	0	Sandana	2012-42
Arat, Salu	Sungai	119 04 25 T 03 06 42 S	119 04 56 T 03 01 31 S	246	Mulunda	2012-53
Arulele, Butt	Gunung	118 57 16 T 03 23 23 S		87	Banggae	2012-14
Assussang, Salu	Sungai	118 51 26 T 03 02 06 S	118 52 14 T 03 02 27 S	0	Mulunda	2012-44
Awo	Kampung	118 50 41 T 03 11 58 S		190	Sandana	2012-44
Awo, Butt	Gunung	118 50 56 T 03 12 27 S		344	Sandana	2012-44
Baialang, Butt	Gunung	118 58 33 T 03 31 08 S		160	Banggae	2012-14
Bobabalo	Kampung	118 54 02 T 03 30 38 S		26	Pamboang	2012-14
Bobappu, Salu	Sungai	118 52 07 T 02 56 44 S	118 53 50 T 02 57 08 S	0	Mulunda	2013-12
Babusandong	Kampung	118 52 56 T 03 02 37 S		450	Mulunda	2012-44
Balak, Butt	Gunung	118 54 18 T 03 27 03 S		467	Pamboang	2012-42
Bambanggan	Kampung	118 53 22 T 02 58 35 S		64	Mulunda	2013-12
Banga, Salu	Sungai	118 54 06 T 03 03 48 S	118 54 13 T 03 03 07 S	382	Mulunda	2012-44
Banggae, Kecamatan	Kecamatan	118 57 27 T 03 31 22 S		51	Banggae	2012-14

Kabupaten Majene, Provinsi Sulawesi Barat  
Pusat Pemetaan Dasar Rupabumi (PDR) - BAKOSURTANAL  
Edisi 1 @ 2012, BAKOSURTANAL

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Figure 6. Gazetteer of Majene Regency (Map Scale 1:50,000)

