

CADASTRAL BASE MAPPING ACTIVITY IN INDONESIA

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Introduction

- o Land Registration and Land Titling **MUST** be plotted on Base Map (avoid land disputes, conflicts, cases).
- o Existing Base Map with suitable scale for cadastral, since 1960 only < **10 %** of total area of Indonesia (1,900,000 sqkm)
- o Limited budget for mapping
- o 2006 → Director General of Survey and Mapping within National Land Agency established to accelerate mapping process
- o BPN targeted in **18 years** all Land Parcels are registered and titled
- o So, Base Map **MUST** be finished **less 18 years**.

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Statistical

1. Land Utilization

Total Area Sq Km	Forest Sq Km	Estates Sq Km	Housing Sq Km	Cultivated area Sq Km	Area Mapped Sq Km
1,900,000	960,000	600,000	100,000	200,000	95,000

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2. Population Density

	Sumatra	Jawa	Sulawesi	Kalimantan	Irian	Bali, NTB, NTT	Maluku	Total
Area (sqkm)	446,687	129,307	193,847	507,412	424,501	71,296	87,310	1,860,360
Housing (sqkm)	19,088	17,703	5,612	8,291	5,818	2,882	N/A	59,393
Population	45,814,915	130,720,374	15,852,695	12,196,938	2,428,111	11,825,766	2,242,885	221,081,684
Pop.Dens/ Km2	2400	7384	2825	1471	417	4103	N/A	3722
Person = m2	417	135	354	680	2400	244	N/A	270

SCENARIO

1. Cover all areas with **Satellite Imagery**
2. **Most Populated** (Jawa, Bali, NTB, NTT= 0.2 mill sqkm) with high resolution image (**0.6 m res**)
3. **Others** (Sumatra, Kalimantan, Sulawesi, Irian=1.7 mill sqkm) with medium resolution (**2.5 m**)
4. **Aerial Photograph (0.1 m)** for “urban housing area”, city, central villages
5. 1,2,3 (raw images) within 3-5 years
6. Mapping process within 4-15 years

	Map Scale	Utilisation	Area sqkm	Method
A	1:1,000	Housing	<i>100,000</i>	Aerial Photo
B	1:2,500	Rural	200,000	High Res. Image
C	1:10,000	Plantation	1,700,000	Medium Resolution Image

A is spread/scattered at 70,000 locations in B & C

Conclusions

- Mapping budget → allocated for raw imagery
- 2006-2007 → coverage of areas +/- 30 %
- Un/Semi-controlled mosaic → 2008-2011 (administrative purposes)
- When DEM available by 2010, all effort and resources at all Land Offices (33 provinces, 450 region) will be utilized to produce ORI → 2020/25

Thank You

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