



PROPOSING A NEW PARADIGM OF SUSTAINABLE DEVELOPMENT IN INDONESIA THROUGH INDONESIAN LAND STRATEGIC PROGRAMS

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GUIDELINE

INTRODUCTION

OBJECTIVES

METHODOLOGY

CONCLUSION AND RECOMMENDATION



INTRODUCTION

1. Indonesia has many potencies to manage all of its abundant natural resources which include land, water and air.
2. Managing all natural resources needs knowledge and ability as well so that those can result in welfare for people

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BRIEF STATISTIC DATA OF INDONESIA

1. **Recently has 34 provinces, the newest province is Kalimantan Utara (2014), has 413 districts and 98 cities;**
2. **About 65% districts and cities located in coastal areas;**
3. **The number of population based on survey is 237.641 million (National Statistic Bureau, 2011)**

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A BRIEF STATISTIC DATA OF INDONESIA (CONT)



Population in million (year in 2010)

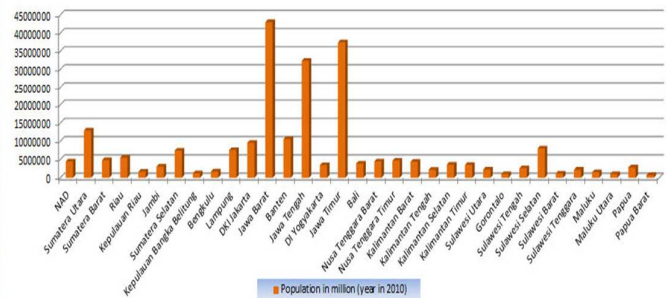


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THE OBJECTIVES OF PAPER

Explaining The Correlation of sustainable development with the National Land Administration Services (NLAS)

Managing the land rights

Supporting information about land use (food security, housing, climate change, deforestation)

To make access reform easier

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THE CONCEPT OF SUSTAINABLE DEVELOPMENT



GENERAL

- a concept for combining environment, economy and society in order to develop the area of nations AND means integrating the decision-making process across your organization, so that every decision is made with an eye to the greatest long-term benefits

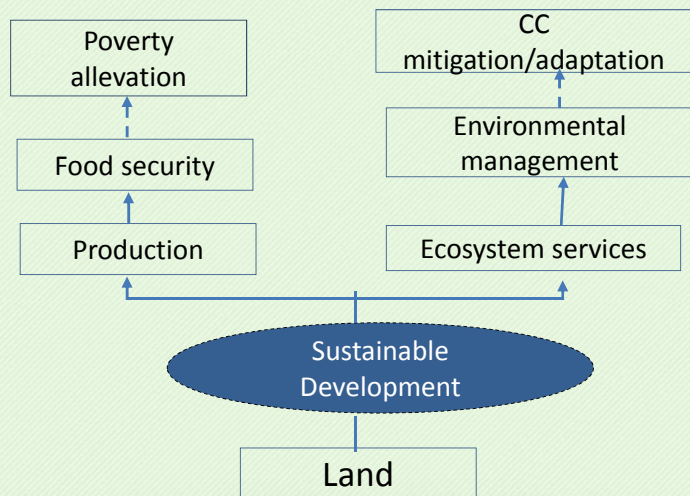
LAND ADMINISTRATION

- the sustainable concept also can be used for controlling the land administrative policy from the policy maker and to be managed well to avoid the negative impact for the people.

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THE CONCEPT OF SUSTAINABLE DEVELOPMENT (CONT)



Sustainable Development Parts
 (www.susdev.gov.hk, 2008)

Sustainable Land management
 Source: Shrestha, 2008: 27

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NLAS AS A SYSTEM TO PROPOSE A NEW PARADIGM OF SUSTAINABLE DEVELOPMENT



Accelerating Land Registration and Access Reform

Building The Single Map

Supporting system for Land Dispute and Land conflict resolution

Supporting data for land use (food security, housing, deforestation, climate change)

Developing Geo ICT System

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I. ACCELERATING LAND REGISTRATION

Assets
Legalization
and Access
Reform

- Land certification for poor people, fishermen, trans migrant's lands, and small enterprises.
- Access Reform for Low Income People, small farmer

Land
Mobile
Services

- TO REACH THE UNREACH



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II. BUILDING THE SINGLE MAP FOR LAND OWNERSHIP AND LAND USE GUIDANCE



a global base map (GBM) system

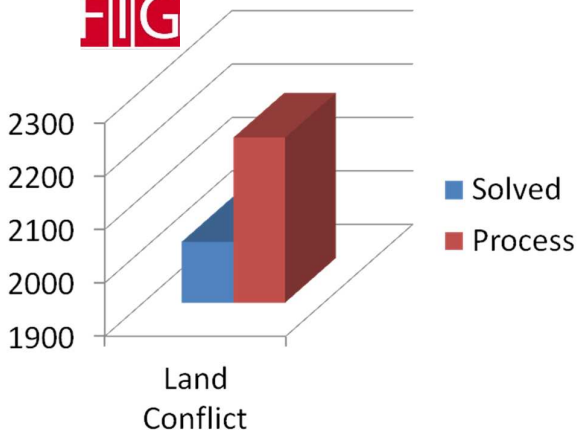
geospatial database and services

Land Use Information and Guidance



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III. SUPPORTING SYSTEM FOR LAND DISPUTE AND LAND CONFLICT RESOLUTION

1. identify land problems type and typology (base on map)

2. defining completion criteria

3. standardization procedure (dispute and conflict can be solved)

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IV. SUPPORTING DATA FOR LAND USE ANALYSES

FACTORS CAUSE LAND USE CHANGE

Rapid economic, industrial, trade and environmental

Increasing of population needs more land for settlement and food

Low enforcement of spatial planning regulations

Those are the common factors cause significant land use change

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IV. SUPPORTING DATA FOR LAND USE ANALYSES (CONT)

Controlling and Monitoring

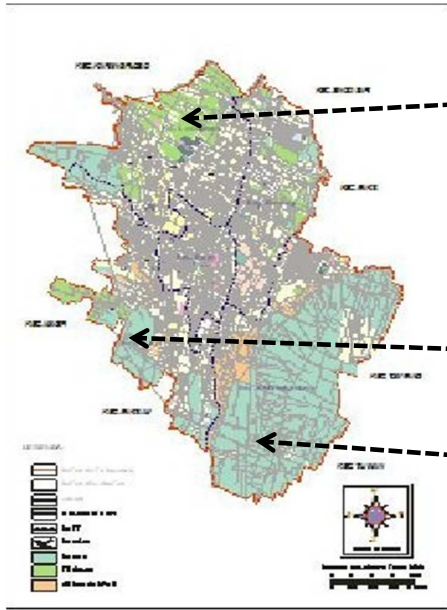
Ascertain a legal status of land

To help small farmers to get Mortgage from the Banks and they can support their production

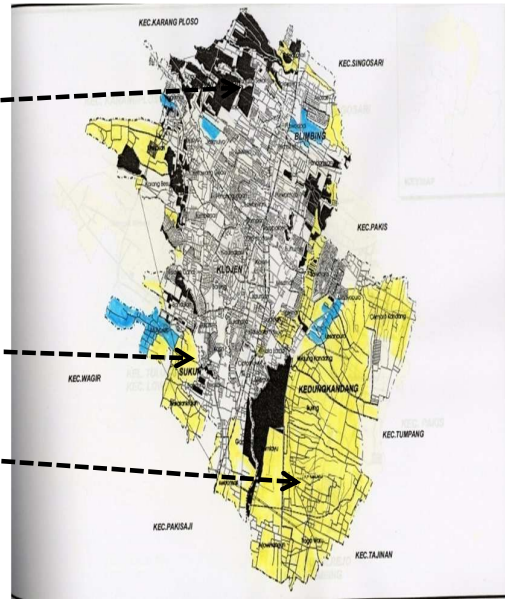
To control the land use change

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- Declining Food Security in Some Cities in Indonesia (for instance)



Farmland Existing Map
 Legend: Green colour (Paddy land and dry farm land)



Housing Development Plan Map 2004-2014
 Legend:
 Black colour: 1st priority for housing development
 Yellow colour: 2nd priority for housing development
 Blue colour: 3rd priority for housing development

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 Source: Local Government of Malang City, 2008



V. DEVELOPING LAND ICT SYSTEM

Web-based Geo Land Office Computerization

Land Data Center

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CONCLUSION

| PAST PARADIGM | PRESENT AND FUTURE PARADIGM |
|---|--|
| 1. NLAS only use for land registration | 1. Land use control |
| 2. After get land rights people sell their land to the big investor (industries, real estate)~~~~~ changing environment | 2. Land dispute and conflict resolution |
| | 3. Supporting data for land use change (<i>food security, housing, deforestation, climate change</i>) |
| | 4. Developing geo-ICT System |
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