

**Working Group 4
(Cadastre and Land Management)**

Final Report

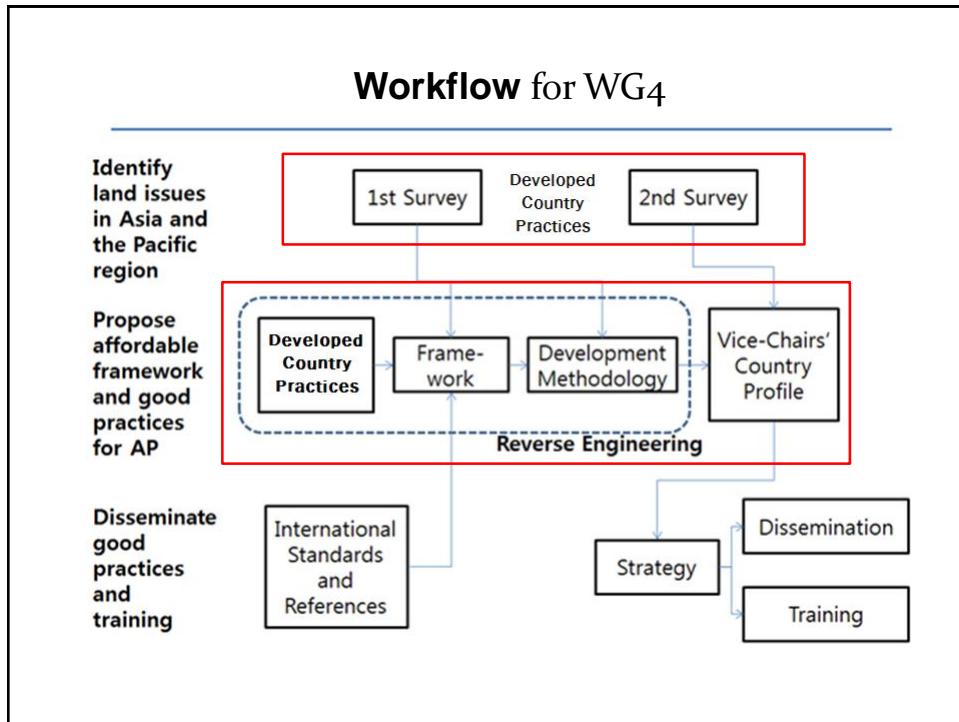
November, 2018
Deqing, China

Chair
Prof. BG Lee, Republic of Korea

Vice Chairs
Brunei Darussalam, China, Fiji, Kyrgyzstan, Malaysia,
Mongolia, Singapore, Viet Nam,

WG4 Plans from 2015~2018

No	Activities/Steps	period	Targeted goals
1	Identify land issues in Asia and the Pacific region <ul style="list-style-type: none"> • Conduct the 1st and 2nd questionnaires; • Investigate status of land management situation in cultural, social, administrative and technical environments at different levels; • Analyses results of the responses using matrix analysis between demands (needs) and supply (capability). 	2015-2017	<ul style="list-style-type: none"> • 1st survey analyses draft in the middle of 2016; 2nd final report for land issues in the end of 2017.
2	Propose affordable framework and good practices for Asia and the Pacific region <ul style="list-style-type: none"> • Identify the concepts and goals of land administration and management for AP region; • Review and analyse the land administration efforts experienced in developed and developing countries; • Share the results of reviews and get feedback on the distributed documents; • Propose affordable framework and country profile considering existing standard model and approach for land administration and management by working with international organisations. 	2016-2018	<ul style="list-style-type: none"> • 1st draft in the end of 2016; 2nd draft in the end of 2017; final report in the middle of 2018. • Affordable framework and country profile will be finalised by the middle of 2018 through cooperation effort among chair and vice-chairs' countries.
3	Disseminate good practices and enhancing training and capacity development <ul style="list-style-type: none"> • Propose the strategies for geospatial-enable land management, capacity building, and cost-effective implementations; • Disseminate the affordable framework and good practices to get comments on and revise its; • Make a liaison with UN-GGIM Expert Group on Land Administration and Management; • Hold regional workshop, training and seminars. 	2016-2018	<ul style="list-style-type: none"> • regional workshop in conjunction with UN-GGIM-AP Plenary meeting contributed by Malaysia Vice-Chair of WG4 • 2 or 3 training or seminars co-organised with international organisations (UN-Habitat/GLTN, UNESCAP, ISO/TC211 and etc.) or liaison group (UN-GGIM).



Questionnaire I

A. Country Information

1)Country 2)Name 3)Institution 4)Position 5)Contact 6)E-mail address

B. General Status of Nation

- Please describe the total population and the population rates for urban and rural areas.
 - Total population :
 - Urban population ratio :
 - Rural population ratio
- What is the total area of nation and the ratio for each category of land respectively?
 - Total area of nation
 - Farm land
 - Forest land
 - Building site
 - Undeveloped land and etc.

C. Land Related Law System

D. Land Investigation and Registration

E. Utilization of Land Information

F. Land Management Information System

Questionnaire II

I. Country Type

System and Foundation

- Human Factor
- Condition of Infrastructure

II. Requirement Level

- National Policy
- Cadastral, Topographic and Estate Information

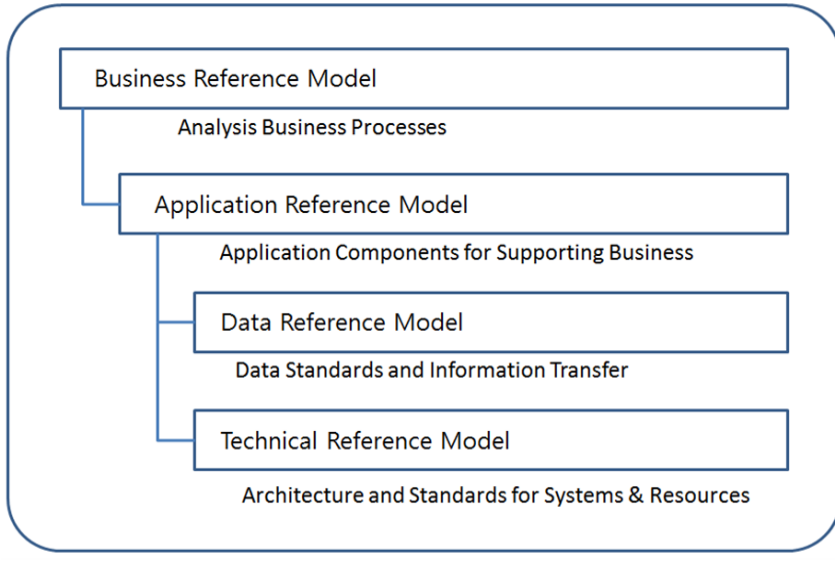
III. Current Status of Construction

- Construction of GIS data
- Current Status of Construction of Land Management System

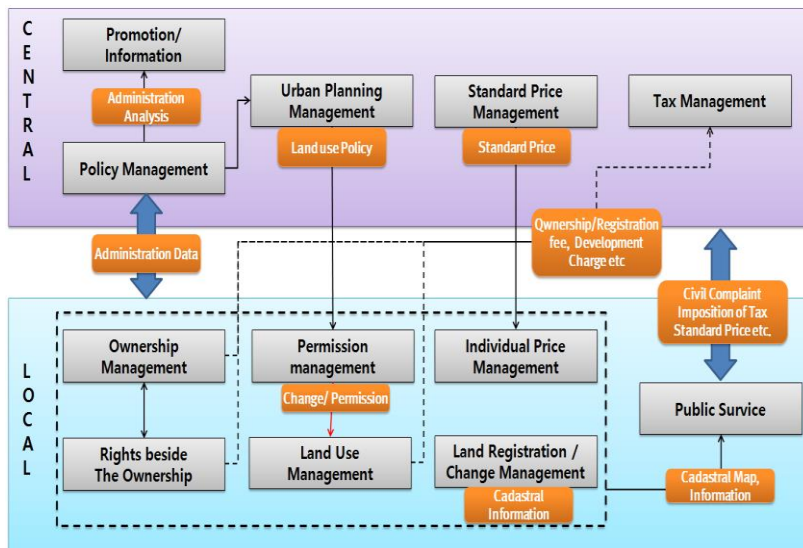
The 1st and 2nd surveys Results

- In most of the countries, basic legislation and law system for land information have been formed.
- Many countries want the land information related to country's basic plan either be revised or complemented.
- With some exceptions, the investigated result showed that most countries did not have any significant problem regarding system connection, mutual data exchange etc. among various public institutions.
- Many countries point out the incompleteness of data related to land information.
- The countries perceive the need to improve the functions of their existing land management systems.
- The investigated countries remark that various administrative services are necessary for land info and want the land info to cover the whole region of the country.

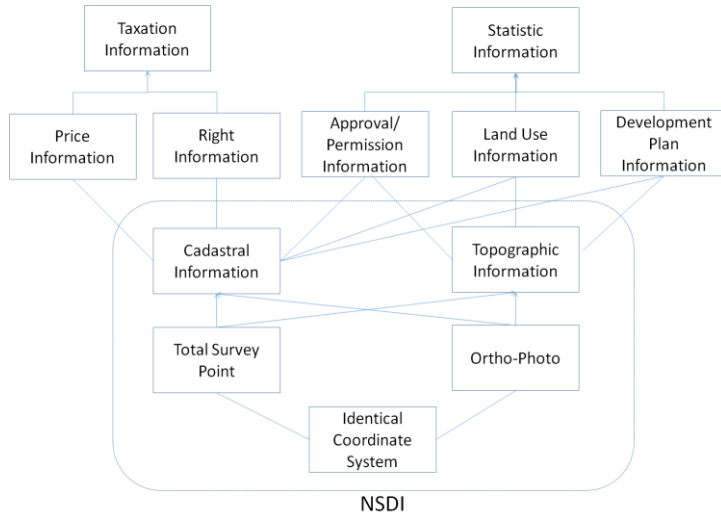
A Conceptual Model for Cadastral and Land Management based on Korea Cadastral and Land Information



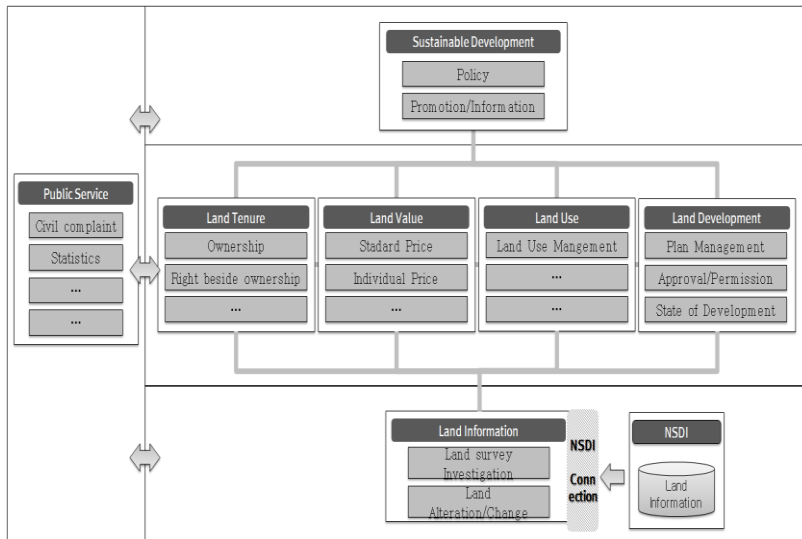
Features of business reference model for land information



Features of application reference model for land information

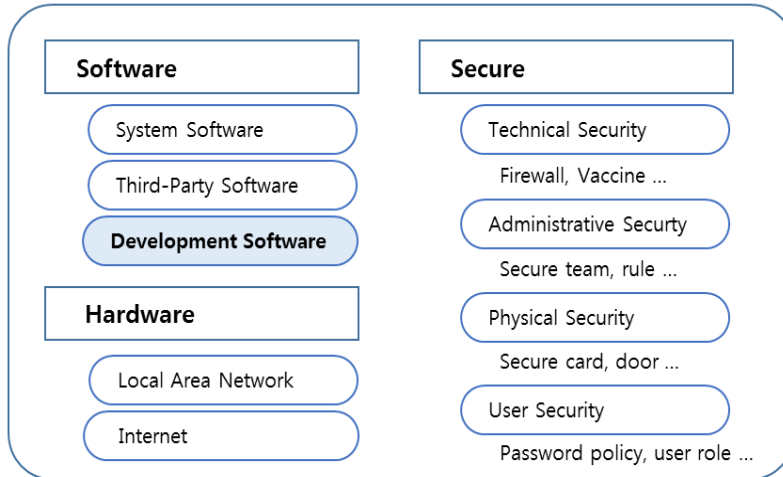


Features of data reference model for land information



Feature of technical reference model for land information

Technical Reference Model



Fit-For-Purpose and STDM Workshop

was held in 17 October 2016, Kuala Lumpur - Malaysia

**Event Organizers - Department of Surveying and Mapping Malaysia (JUPEM)
United Nations Global Geospatial Information Management for Asia and the Pacific (UN-GGIM-AP)**

To National Cadastre and Land Administration Representative,

JUPEM and UN-GGIM-AP jointly hosted a half (1/2) day workshop on Fit-For-Purpose and Social Tenure Domain Model (STDM) on 17 October 2016 in conjunction with the UN-GGIM-AP Plenary meeting, at the Park Royal in Kuala Lumpur, Malaysia.

This workshop was implemented to help the participants better understand and design a fit-for-purpose approach to building sustainable land administration system.

Topics were as follows for Fit-For-Purpose and STDM.

Fit-For-Purpose concept
 Components of the Fit-For-Purpose
 The concept of "Continuum of Continuums"
 Demo on STDM covered:
 Preparation of textual data in MS Excel
 Importing textual data into STDM
 Managing entity data
 Defining hierarchy of administrative units
 Importing parcel data into LIMS (i.e. shapefile, DXF, GPS points):
 Creating parcels by digitizing from other spatial data sources
 Defining tenure relationship between party and spatial unit
 Querying existing tenure relationships
 Designing map-based report templates
 Generating reports using custom templates
 Recap of report design module

Summary

- 1. WG4 conducted 1st and 2nd surveys to investigate the cultural, social, administrative and technical environments of the countries in the Asia and Pacific region. From the questionnaires, we tried to find the land information system related to cadastre in the region.**
- 2. WG4 analyzed Korea's land info system construction case and proposed a standard reference model for land information. The standard reference model is consisted of business reference model, application reference model, data reference model and the technical reference model.**
- 3. We disseminate the model that can help a land information system for developing countries through internet.**
- 4. The regional workshop on Fit-For-Purpose and Social Tenure Domain Model (STDM) contributed by Malaysia Vice-Chair of WG4 was held in conjunction with UN-GGIM-AP Plenary meeting on 17 October 2016 to disseminate good practices and enhance training and capacity development .**

Thank you