
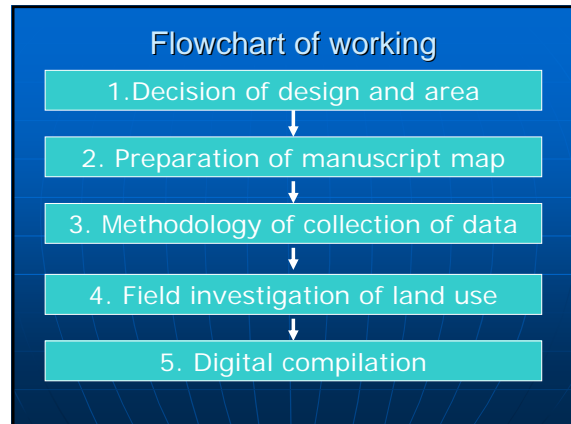


Land use map

Usage of topographic data



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Survey Department
16, July, 2004

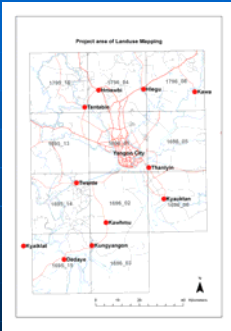


1. Decision of design and area

- 1) Land use area
- 2) Yangon metropolitan area

1) Land use area

- Yangon metropolitan area
- Totally 11 sheets
- Map scale at 1:50,000



Number of classification

Same classification of topographic map

1. Natural features:
 - River, lake, ponds
 - Forest, swamp, bush
 - Mangrove, grass, open area
2. Vegetations:
 - Paddy field, crop, plantation
3. Other resources:
 - Green zone (park, cemetery)
4. Human activity zone
 - Public buildings, private houses
 - Under developing area

Number of classification

22 categories were decided.

Color and patterning of each items (see sample prints)

■ 1 Residential area 1	■ 10 Play yard
■ 2 Residential area 2	■ 11 Green space
■ 3 Business area	■ 12 Water surface
■ 4 Commercial area	■ 13 Cultivated land
■ 5 Industrial area	■ 14 Cattle farm
■ 6 Education/ Culture	■ 15 Plantation
■ 7 Health/ welfare	■ 16 Dense forest
■ 8 Transportation	■ 17 Sparse forest
■ 9 Under developing	■ 18 Scattered trees
	■ 19 Grass land
	■ 20 Mangrove
	■ 21 Swamp
	■ 22 Open area

2. Preparation of manuscript map



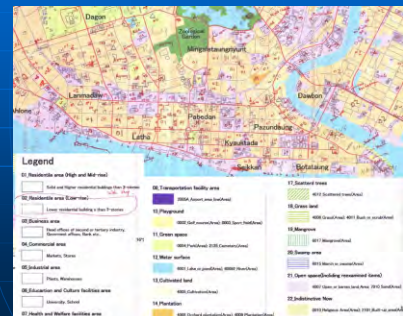
3. Methodology of collection of data

- 1) Existing data
 - Topographic data
 - Aerial photos
 - Orthophoto images
 - Result of field identification
 - Other information
- 2) Field investigation
 - Un-clarified items (No.1-9)
- 3) Using software
 - Arcview8.3

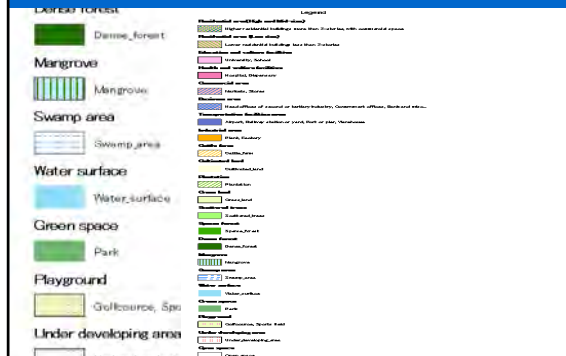
4. Field investigation of land use

- Investigation sign
- 01 Residential area (High)
- 02 Residential area (Low)
- 03 Business area
- 04 Commercial area
- 05 Industrial area
- 06 Education and culture facility area
- 07 Health and welfare facility area
- 08 Transportation facility area
- 09 Under-developing area

Investigated manuscript maps



Sample pattern for land use map



5. Digital compilation

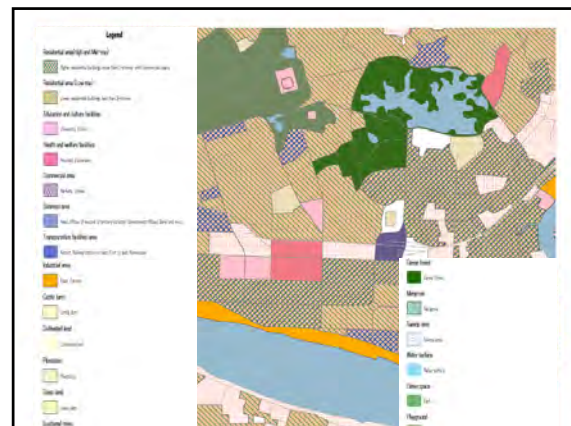
- All investigated categories were compiled as polygon data with feature code.
- Unit of delineate or expression size are decided more than 100m X 100m.
- Digital compilation
Same way of topographic map compilation

Consideration from land use data

- The statistical amount which had been obtained from the land use data.
 1. Total area of each category:
 2. Proportion of each land use division:
 3. Situation of land use for township of Yangon city:
 4. Ratio of industrial and distribution zone:

The list of Sum

Texture	Count of polygon	Sum km2	Rate(%)
Residential_area_High_rise	31	874.54	7.04%
Residential_area_Low_rise	1981	687.41	5.53%
Education_and_Culture_facilities	145	638.26	5.14%
Health_and_Welfare_facilities_ar	15	98.67	0.79%
Commercial_area	32	143.75	1.16%
Business_area	47	390.84	3.15%
Transportation_facilities_area	16	166.79	1.34%
Industrial_area	65	655.24	5.28%
Cattle_farm	8	2.39	0.02%
Cultivated_land	887	5,386.07	43.37%
Plantation	622	234.59	1.89%
Grass_land	567	226.93	1.83%



Thank you very much

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