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**Topic2: Environmental Creation and Conservation
Activities in Fiscal Year 2001**

Research Exchange in Vietnam

Narumi Team

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I Activities in First Period

1. The purpose

As to following study theme, the purposes are to identify the area to be studied and to collect the relating data.

- Theme:

- preliminary study on land use change with urbanization of Hanoi City
- * analysis on urban pattern and typological and morphological analysis on landscape
- * making the map of urbanization process of Hanoi City
- * analysis on typical urban pattern of each step of urbanization

2. The period of the research exchange

From April 7, 2001 to the 14th

3. Activities

1) discussions on the matters of cooperative study

- 2001/4/8 with Dr. Nguyen Cao Huan, Dr. Truong Quang Hai, Dr. Pham Quang Anh, Hanoi University of Science

Topics:

- * confirmation of study purpose
- * confirmation of study system
- * possibility of collecting data and requesting for obtainment

- 2001/4/8, with Dr. Le Hong Ke, National Institute for Urban and Rural Planning, Dr. Truong Quang Hai, Hanoi University of Science

Topics:

- * confirmation of study purpose
- * confirmation of study system

- * possibility of collecting data and requesting for obtainment
- 2001/4/13 with Dr. Nguyen Cao Hua, Dr. Truong Quang, and other 10 persons, Hanoi University of Science
- Topics
 - * exchange opinion about the case areas of study
 - * exchange opinion about the theme of study

2) Field Research

After studying the urbanization process on through map study, selecting some 15 areas and visited and observed.

- 2001/4/9, Kim Lien Area, Trung Tu Area, Phuong Mai Area, Kham Thien Area, and Giang Vo Area
- 2001/4/10, Linh Dam Area, Dinh Cong Area, Dinh Cong Area, Xom Mai Area, Ngoc Ha Area, Dai Yen Area, and Ngoc Ha Area
- 2001/4/10, Yen So Area
- 2001/4/13, Hao Nam Area

4. Result

We could understand the characteristics of typical 15 areas. After we came back to Japan, holding meetings with the members of Japanese side, we reported our findings and discussed prospective areas as case study with them.

We could get the maps of 1 to 10,000 that is important for our study, but it is prohibited to bring these maps abroad. So we asked Hanoi side to make preliminary map-making work (about map-making procedure, see appendix), and after completing the map making, we would discuss again the program of study with Hanoi side.

II Second Period

1. The purpose

- discussions on the procedure of urbanization process map making
- holding a seminar on urban environmental conservation
- observation of the prospective areas for case study

2. The period of the research exchange

From September 24, 2001 to the 30th

3. Activities

1) discussions on map making work with Prof. Dr. Nguyen Cao Huan, Hanoi University of Science on 2001/9/27.

- Topics:

- * confirming the tentative result of map making, and exchange the opinions on the improvement of map making work
- * confirm the works that will be made in each side after completing the map making

2) holding a seminar on urban environmental conservation, in Hanoi University of Science on 2001/9/25

- participants; Prof. Dr. Nguyen Cao Huan and other 10 persons

- Topics

- * Environment of Water City: Cases of Japan
- * Urbanization process of Osaka City and urban patterns
- * Water management system of Osaka City

3) Field Research

- 2001/9/25, newly developed housing area
- 2001/9/26, horticulture area and central part of Hanoi city
- 2001/9/28, old village area and French colonial area, and housing area developed by USSR
- 2001/9/29, agricultural village of suburbs of Hanoi City and central part of Hanoi city

4. Result

It was decided that to check the result of map making on the chance of seminar to be held in November, 2001 in Osaka University.

In 2002, we will operate the survey based on the analysis of the result of map making.

< APPENDIX >

Ha Noi / procedure for making urbanization process map

Proposed by NARUMI, 4 May, 2001

Soft ware: Vector Works(desirable) or Auto CAD

premise

- * objective area of analysis
 - I will send the illustration by post mail.
It is A-1 size in 1:25,000.
- * scale and size
 - We will use scale of 1:25,000 (A-1 size) when we print out it whole size.
 - We will use scale of 1:10,000 when we print out it partially for detail study.
- * way of drawing parcel is not necessary to be so strict I think. To be done approximately is OK.
- * about the image of drawing parcel of urbanization types, I will send it by post mail.
- * Followings are tentative categories that I can image. Please examine this feasibility and if there are another possibility, please change these based on your idea.

0. preparations

- * Please find out 1:25,000 topographical map made during 1960s.

1. Enlarge 1:25,000 topographical map made during 1960s. to 1:10,000 map.

Using this 1:10,000 map as “base map”, set up “layer 1” and draw following parcels of urbanization types.

- * the citadel quarter
- * 36 streets and guilds quarters
- * colonial quarters
- * planned developed area supported by USSR
 - industrial and housing developments
- * high density population quarter
 - ex. along street (urban kampung or kampong in Malay)
- * hamlets and villages (rural kampung or kampong in Malay)
- * water surface (lakes and ponds)



set up class to each parcel type

2. Using 1:10,000 topographical map made around 1984 as “base map 2”, copy “layer 1” on it and set up “layer 2”, and draw following parcels of urbanization types.

- * planned development area type 1
(buildings or housing also built by government)
 - housing area
 - other area
- * planned development area type 2
(building-lots was sold and built in private)
- * unplanned development area
ex. expansion of high density population quarter
(urban kampung or kampong in Malay)

↓

set up class to each parcel type

3. using 1:10,000 topographical map made around 1996 as “base map 3”, copy “layer 1 and 2” on it and set up “layer 3”, and draw following parcels of urbanization types.

- * planned development area type 1
(housing also built by government)
 - housing
 - others
- * planned development area type 2
(housing-lots was sold and built in private)
- * unplanned development
ex. expansion of high density population quarter
(urban kampung or kampong in Malay)

↓

set up class to each parcel type

note : make files of procedure 1, 2 and 3 each

file 1 ---- base map 1 and layer 1

file 2 ---- base map 2 and layer 1 + layer 2

file 3 ---- base map 3 and layer 1 + layer 2 + layer 3

scale of each base map is 1:10,000