

CENTER OF EXCELLENCE FOR SUSTAINABLE URBAN REGENERATION

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The project entitled “Center of Excellence for Sustainable Urban Regeneration” was selected in 2003 as one of the 21st Century COE projects supported by the Government of Japan. The key purpose of the 21st Century COE Program of all-Japan academia is to establish the “Center of Excellence” with a provision of science, engineering and social sciences disciplines from finely selected universities. Financial support is granted to approximately 5% of the Japanese universities possessing doctoral course, specialist groups, research centers and the center itself. The University of Tokyo (graduate school of engineering: departments of urban engineering, architecture and civil engineering) has achieved the knowledge and technologies of the sustainable development and regeneration of urban cities. Consequently, by applying the acquired knowledge and technology and aiming at establishment of the action plan for Asian metropolises in the second half of the century, the 21COE program was proposed and adopted in 2003. Ohgaki serves as this 21COE leader and 16 professionals are appointed to be responsible for achievement. In the coming 5 years, the research fund is intensively arranged. The International Center of Urban Safety Engineering (ICUS) of the Institute of Industrial Science, University of Tokyo, will take part in establishing research center for urban regeneration as a strong core body.

Figure 1 shows the program objective and activities, and research plans. The project aims at establishment of the knowledge system regarding the solutions of various problems in Asian mega-cities and urban regeneration based on the engineering knowledge and foundation related to residential space, social infrastructures and urban space formation. Regarding the objective, stock management, environmental management and urban information management sub-groups are organized to intensively set up the knowledge system in which co-development among the architecture, urban engineering and civil engineering departments is performed.

Stock management aims to implement the security and persistency planning of the stocks related to residence, urban city and social infrastructure as well as renovation and regeneration of the historical and social properties of urban spaces. ICUS is thought to play a major role having the responsibility in establishment of the stock management and aim toward the COE formation from all-campus viewpoints. Environmental management aims toward the systematic methodology corresponding to the water environmental impact and risk viewpoints. Urban information management directs to the formation of planning, management and

information system of the huge metropolitan spaces, which is exploited by 21st century human and social activities. As a result of unifying knowledge basis, the action plan decision will be applied to Asian metropolises as project target in 5 years later (see Figure 2). After the completion of the project, the urban regeneration center will be established in the University of Tokyo.

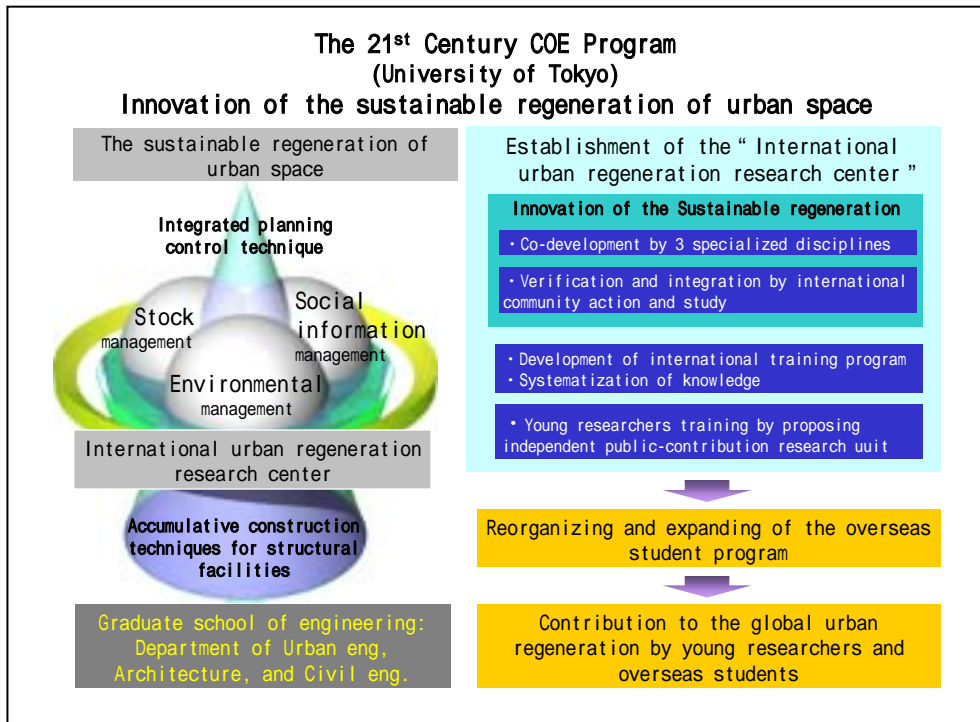


Fig. 1: 21COE program: objective and goal

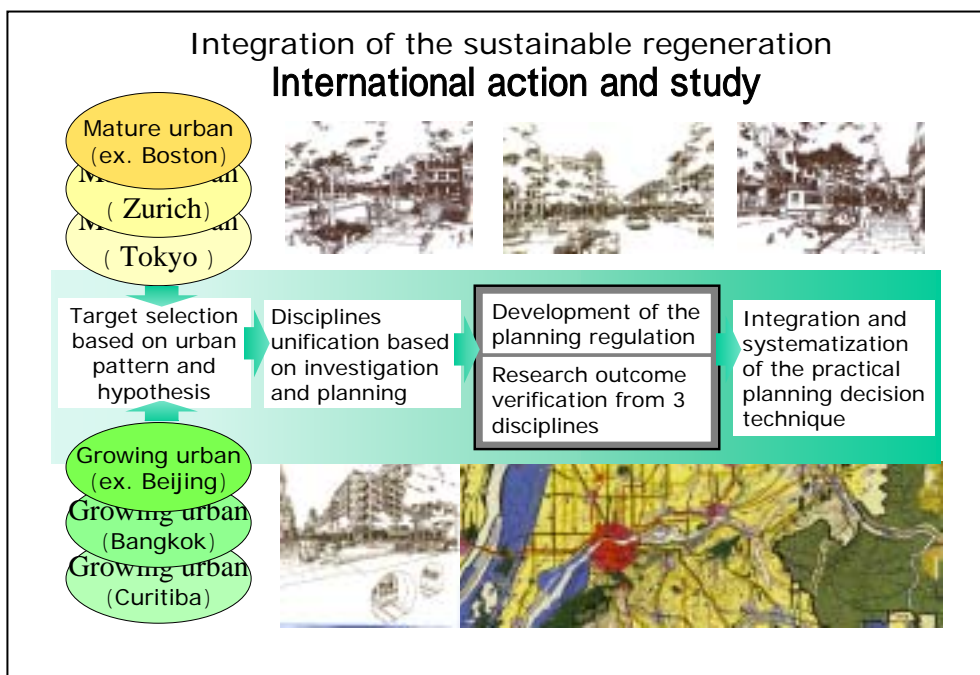


Fig. 2: International action study toward Asian growing urbanisation