

DISSERTATION ABSTRACT

Dissertation title: URBAN RAIL-BASED DEVELOPMENT IN HO CHI MINH CITY

Major: Regional and Urban Planning – Code: 62.58.01.05

Full name of doctoral student: Vu Viet Anh – Course: 2012

Supervisor: Assoc.Prof.Dr.Arch Dam Thu Trang

Institution: University of Architecture Ho Chi Minh City

1. SHORT DESCRIPTION OF STUDY

The dissertation includes 4 chapters, utilizing research methodologies: collecting data through archival data collection; inventory; observation; site survey; mapping, case studies then processing data via series of logical methods e.g. morphological analysis; historical analysis; logical analysis; synthesis, systematic; statistic, comparison, assessment; modelling; multi-criteria assessment; aiming to following goals:

- Propose a pattern of rail-based development in accordance to the context of Ho Chi Minh City (RBD pattern)
- Develop an assessing method for identifying characteristics and potential of urban rail-based development (RBD method)
- Suggest solutions for rail-based development in HCMC (RBD solutions)

2. NEW FINDINGS OF THE DISSERTATION

- Proposed a rail-based development pattern based on two approaches: place structure and urban morphology (form and status), expressed through five general principles: density, diversity, connectivity, community and identity.
- Developed a score-based assessing method for identifying characteristics and potential of urban rail-based development, including three criteria systems: space character, development potential, market readiness
- Suggested series of solutions for rail-based development in HCM city, classifying into 3 main sets: legal framework (RBD design and planning standards, new types of planning projects rail-line structure planning, rail station area planning, typical urban design for rail line, etc.), promoting policy (incentives, value capture, housing and rail, assessing-based policies),

spatial design and action plan solutions for Ho Chi Minh City (applied to space along the railway line; station area; stations; RBD projects)

3. SIGNIFICATION AND FEASIBLE APPLICATION OF FINDINGS

- Contribute to clarify the nature of rail-based development; thereby suggesting an appropriate approach in the context of Ho Chi Minh City;
- Set up the criteria to apply the RBD model in the specific context of area in Ho Chi Minh City and other similar urban areas.
- The RBD method will be the basis to choose the appropriate actions for rail-based development in Ho Chi Minh City
- Specify design guidelines for HCMC rail-based development
- Establish basis for practical developments around the railway in HCMC

Supervisor

Doctoral student

Assoc.Prof.Dr.Arch Dam Thu Trang

Vu Viet Anh

Approval of the Institution

Rector