

NEW CONTRIBUTIONS OF THE THESIS

Name of the thesis: “*Urban road network management in urban centers in the southwestern coastal provinces of the Mekong river delta to adapt to climate change*”

PhD student: Ho Van Dang Course year: 2015

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Science instructor: 1. Assoc. Prof. Dr. Vu Thi Vinh

2. Dr. Nguyen Thanh Nghi

Training institution: Hanoi Architectural University.

New contributions of the thesis:

Firstly, identify the impact factors of climate change on the urban road network of urban centers in the southwestern coastal provinces of the Mekong Delta, including 4 factors:

- Terrain-natural condition factor.
- Socio-economic factor
- Climate change factors of the region
- Coordination of stakeholders

Secondly, develop criteria to manage the urban road network of urban centers in the southwestern coastal provinces of the Mekong Delta adapting to climate change, including 5 criteria:

- *Criterion 1.* Having a long-term transport planning strategy to adapt to climate change.
- *Criterion 2.* Consistent with the natural terrain conditions and climate change characteristics of the area
- *Criterion 3.* Consistent with local socio-economic conditions.
- *Criterion 4.* Consistent with the characteristics and resilience of urban infrastructure
- *Criterion 5.* Consistent with the mechanisms and responsibilities of the stakeholders.

Thirdly, propose a zoning map of urban areas to provide solutions to manage the urban road network of urban centers in the southwestern coastal provinces of the Mekong river delta to adapt to climate change

From the natural conditions, the current status of the road network, the impact of climate change on the two cities, propose solutions to partition into 3 zones to have solutions to manage the road network to adapt to climate change. including specific zones:

- Zone 1: Areas near the sea and areas close to the sea
- Zone vực 2: Central urban area (old urban area)
- Zone vực 3: Peripheral and boundary areas (offshore area)

Fourthly, propose solutions to organize the management system of urban road networks of urban centers in the southwestern coastal provinces of the Mekong river delta to adapt to climate change, including:

Decentralize the management of urban road networks in the southwest coastal provinces to adapt to climate change to clearly assign tasks in the management of road networks, with specific functions of each unit to coordinate integrated and well managed urban road network

Improve the function and organization of the Urban Management Division of Cities in the Southwest Coastal Provinces to adapt to Climate Change.

Fifthly, propose to supplement regulations on policies and mechanisms in the management of urban road networks in the southwestern coastal provinces of the Mekong Delta to adapt to climate change: prioritize the development of public transport system and supplement the policy of attracting investment capital.

PhD Student

Science instructor 1

Science instructor 2

Assoc. Prof. Dr. Vu Thi Vinh

Dr. Nguyen Thanh Nghi