



# PLANNING CLIMATE AND DISASTER RESILIENT IN HO CHI MINH CITY

Yokohama, July 2015





# City introduction

2,095 km<sup>2</sup>

7.955 million inhabitants

Forest: 37,000 ha

24 districts

Waterway: 795.5 km

GDP growth: 9.6%

60% area < 2 m sea level

GDP/capita: 5,131 USD

Tropical city

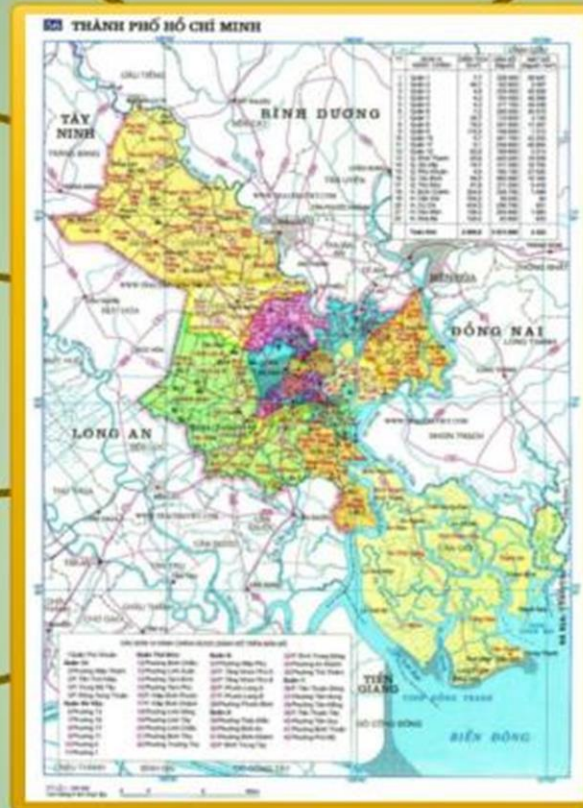
Agriculture: 1%

Top 10 cities most  
vulnerable to  
climate change

Service 59.6%

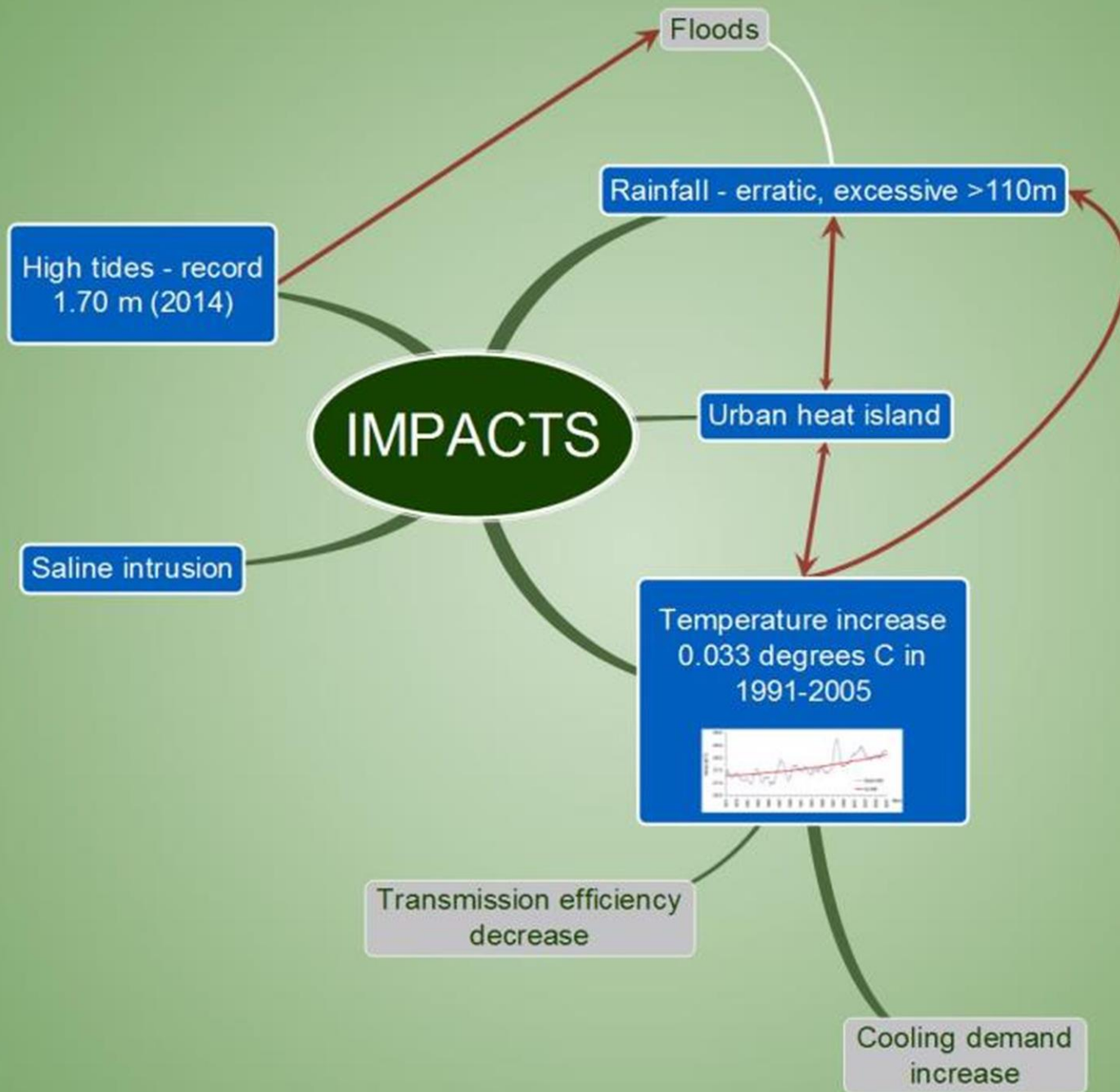
GDP: 852,523 billion VND

Industry & Construction: 39.4%





# Climate change impacts on HCMC

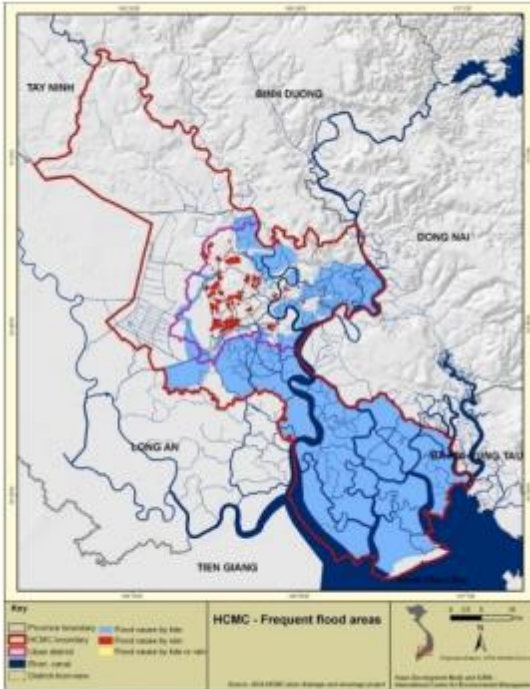






# Urban flooding in HCMC

Map 2.1: Areas frequently flooded in HCMC



**Areas frequently flooded  
in HCMC  
(ICEM, 2009)**

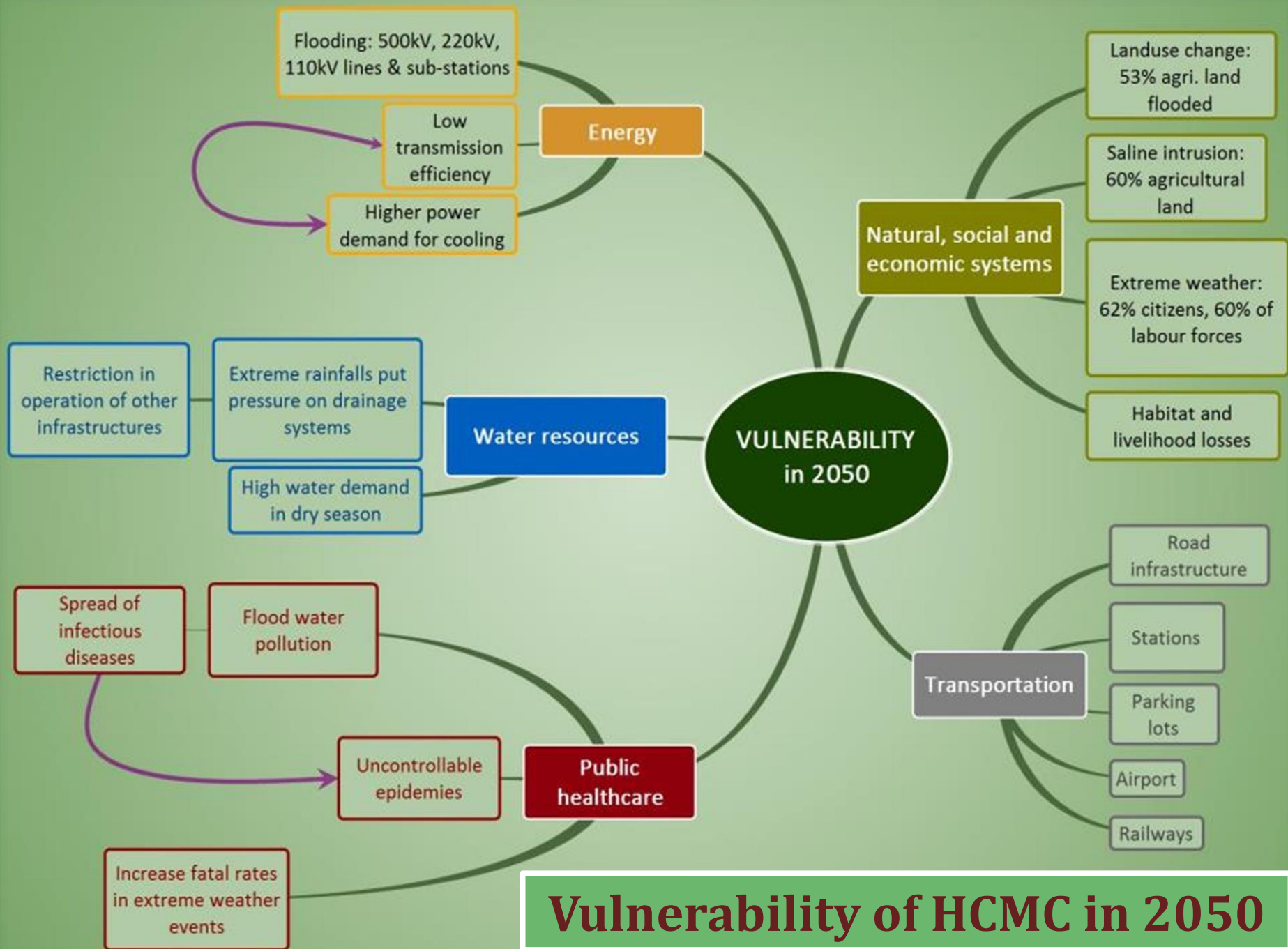
Map 2.2: Predicted extent of regular flooding in 2050 under the high emission scenario



**Predicted extent of regular  
flooding in 2050 under the  
high emission scenario  
(ICEM, 2009)**









# + Actions and Results in CCAP 2013-2015

## HCMC PEOPLE'S COMMITTEE

### CLIMATE CHANGE STEERING BOARD (est. 2009)

**HEAD OF THE STEERING BOARD**  
(Chairman of HCMC People's Committee)

**DEPUTY HEAD**

(Director of Department of  
Agriculture and Rural  
Development)

**STANDING DEPUTY HEAD**

(Director of Department of Natural  
Resources and Environment)

**DEPUTY HEAD**

(Vice Director of Department  
of Planning and Investment)

#### MEMBERS OF THE STEERING BOARD – Director/Vice Director of

- |   |                                    |
|---|------------------------------------|
| - Department of Science and Technology        | - Department of Finance            |
| - Department of Culture, Sports               | - Department of Construction       |
| - Department of Information and Communication | - Department of Health             |
| - Department of Education                     | - Department of Industry and Trade |
| - Department of Planning and Architecture     | - Department of Transportation     |
| - HCMC Institute for Development Studies      | - Department of Tourism            |
| - Agency of Irrigation and Storm prevention   | - City Commander                   |
| - Saigon Giai Phong News                      | - HCMC Police                      |
| - Steering Center for Flood Control           |                                    |

Climate change Steering Board  
Organisational Structure



# + Actions and Results in CCAP 2013-2015



## **Urban Planning:**

Increase urban greenery area



## **Energy:**

- Solar power;
- Promote biogas tanks;
- Improve public lighting



## **Transport:**

- CNG buses;
- Metro;
- Bus Rapid Transit.



## **Healthcare:**

Improve public healthcare system.



# + Actions and Results in CCAP 2013-2015



## Water resources:

- Cooperation with Rotterdam City;
- Reduce leakage rate;
- Enhance fresh water supply.

## Waste:

- Pilot source separation;
- Promote recycling;
- Promote plastic bags reduction.

## Agriculture:

- Promote hi-tech agriculture;
- Improve coastal protection forest;
- Promote 'new agriculture' model.



# + Lessons learned and cooperation needs

## Lessons learned

- **Technical and management:** lack of reliable database; insufficient synchronisation and stakeholders coordination → Obstacles for comprehensive and detailed technical assessments.
- **Human resource:** Lack of high quality administrative staff and technical experts → **Better stakeholders cooperation** would solve personnel shortage and give more positive results.
- **Finance:** Inadequate state budget and insufficient fundraising capacity → **Socialisation** approach should be better adopted for efficient funding mobilisation.
- **International cooperation:** important for knowledge sharing and better funding mobilisation.



# + Lessons learned and cooperation needs

## Cooperation needs

- **Database development:**
  - A synchronised and reliable database;
  - Comprehensive data updating and sharing mechanism.
- **Human resource** improvement.
- **Technical and financial** assistance for concrete projects.



**+ THANK YOU FOR YOUR ATTENTION.**