

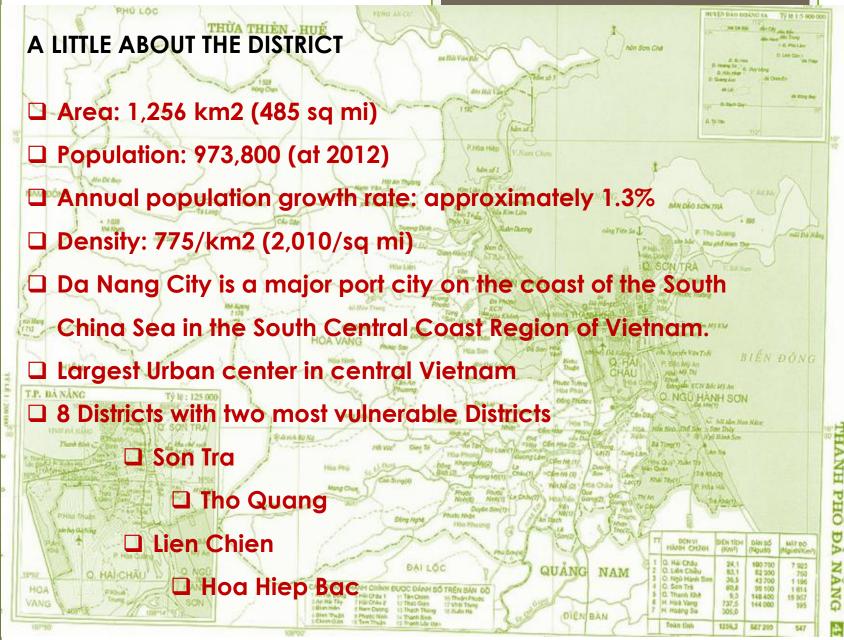
GROUP MEMBERS

- ♦ IFEOMA UKONZE (NIGERIA)
- PIYAPONG JANMAIMOOL (THAILAND)
- ILUMINADO JR. DE CASTRO QUINTO (PHILIPPINES)

WHAT DO WE WANT TO DO?

- CITY PROFILE
- VULNERABILITY ASSESSMENT
- ADAPTATION ASSESSMENT
- MITIGATION ASSESSMENT
- LOCAL CLIMATE CHANGE ACTION PLAN

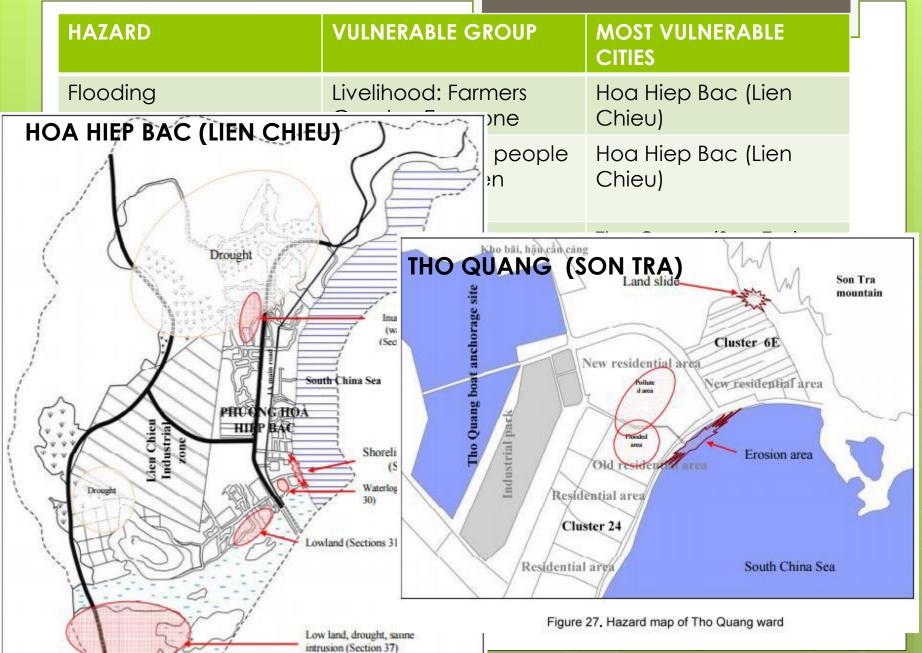
CITY PROFILE



CITY PROFILE



VULNERBILITY ASSESSMENT



GHG EMISSION BY SECTOR

GHG Emission SECTOR	Weakness	Assets
Transportation (45%)	Major emitter of green house gases (Motorcycles)	Bus Rapid Transit
Energy Use Industrial (21%) Residential (13%)	Insufficient in Energy consumption	Renewable Energy (Hydro power 16%)
Other sector(13%)	Inefficient System	Nil



ADAPTATION ACTIONS

12 PROPOSED ADAPTATION ACTIONS

CLIMACT ASSESSED ACTIONS

SELECTED ACTIONS

1. Early warning systems

- 2. Capacity building for the fishermen
- 3. Relocation of vulnerable people (Co-tu)

4. Design standards for Poor houses

- 5. Emergency medical services
- 6. Water storage and conservation facilities and flood walls
- 7. Dikes along the flood prone area

8. Waste Management system

- 9. Drainage system
- 10. Construction of evacuation centers
- 11. Community based disaster awareness measures
- 12. Zoning ordinances to protect farmlands and creating open spaces

1. Community based disaster awareness measures

2. Early warning systems

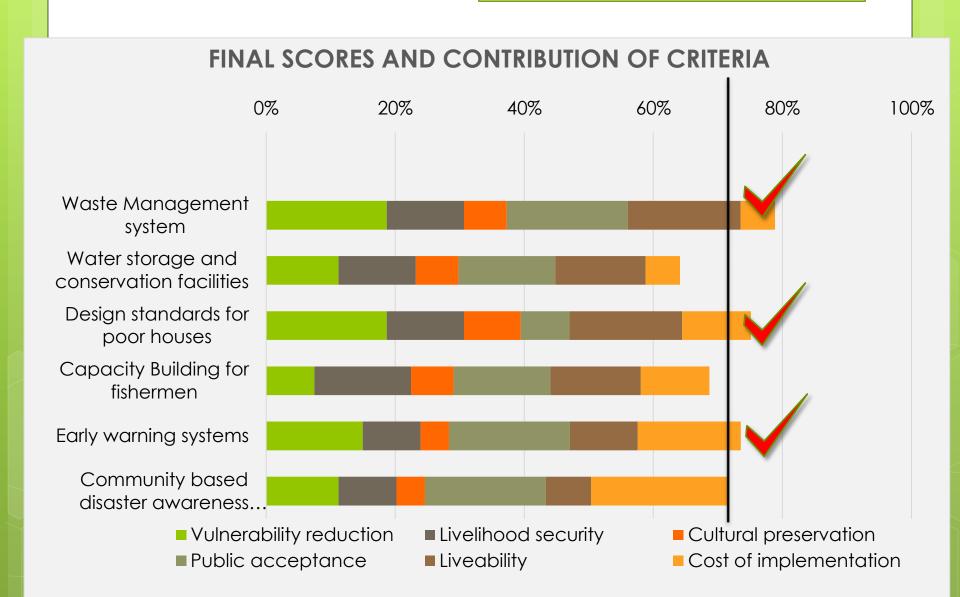
- 3. Capacity building for fishermen
- 4. Design standards for poor houses
- 5. Water storage and conservation facilities
- 6. Waste management system

Waste management system

2. Design standards for poor houses

3. Early warning systems/Community based awareness measures

ADAPTATION ACTIONS



A VIEW OF THE ADAPTATION PLAN







MITIGATION ACTIONS

12 PROPOSED MITIGATION ACTIONS

CLIMACT ASSESSED ACTIONS

SELECTED ACTIONS

1.Bus Rapid Transit

- 2. Hydro power
- 3. Solar power

4. Methane recovery

- 5. Bicycle Infrastructure eg. Bicycle lanes and theme park
- 6. Bicycle Theme Park

7. Developing Biking and Environmental Awareness

- 8. Intelligent lighting system for part-night operation, trimming and remote monitoring
- 9. Building Regulations for new buildings
- 10. Provision of efficient water system eg. Fixing leak
- 11. Environmental Education in Schools
- 12. Light rail transit system

1.Methane recovery

- 2.Environmental education in Schools
- 3.Bicycle infrastructure e.g. bicycle lanes and theme park
- 4.Developing biking and environmental awareness
- 5.Intelligent lighting system for partnight operation, trimming and remote monitoring
- **6.Bus Rapid Transit**

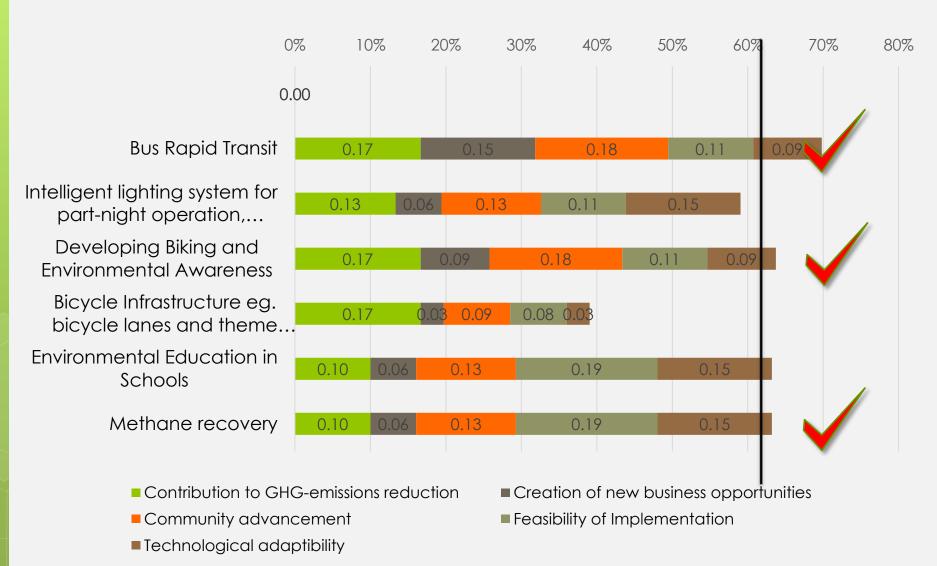
1. Bus Rapid Transit

2. Developing biking awareness and bicycle infrastructure

3. Methane recovery

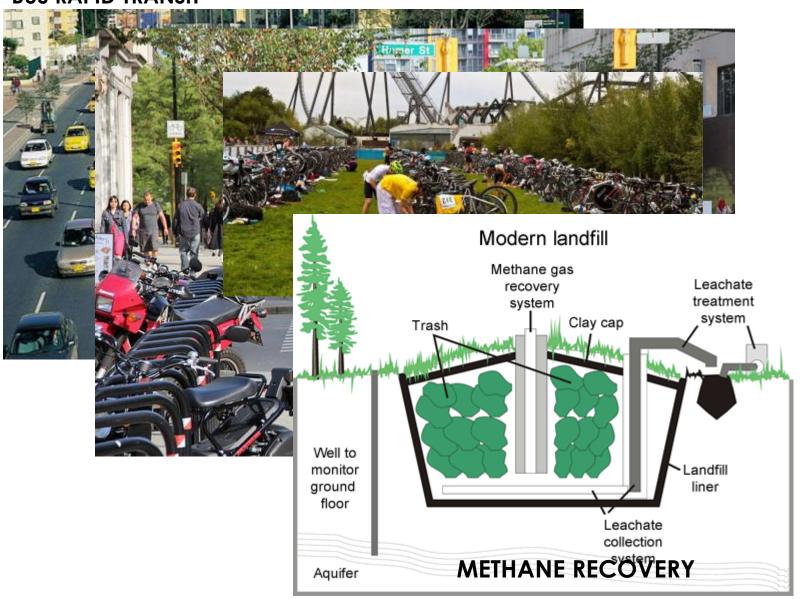
MITIGATION ACTIONS

FINAL SCORES AND CONTRIBUTION OF CRITERIA



A VIEW OF THE MITIGATION PLAN

BUS RAPID TRANSIT





INTEGRATION OF ADAPTATION AND MITIGATION ACTIONS

Adaptation measures

- 1. Waste water management system
- 2. Design standards for poor houses
- 3. Early warning systems/community based awareness measures



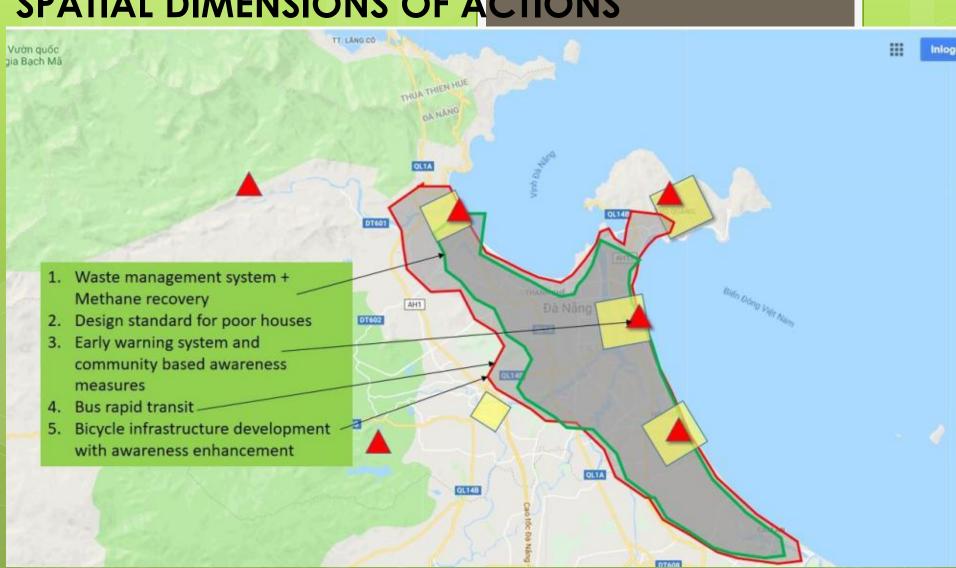
Mitigation measures

- 1. Bus rapid transit
- 2. Developing biking awareness and bicycle infrastructure
- 3. Methane recovery

- 1. Waste management systems / Methane recovery
- 2. Design standards for poor houses
- 3. Bicycle infrastructure development with awareness enhancement
- 4. Bus rapid transit
- Early warning systems/community based awareness measures

CLIMATE CHANGE ACTION PLAN

SPATIAL DIMENSIONS OF ACTIONS



TIMEFRAME FOR THE IMPLEMENTATION

									1															
Actions		ye	ar 1			yea	ar 2			yea	ar 3			yea	r 4			yea	ar 5			yea	ır 6	
Actions	1/q	2/q	3/q	4/q	1/q	2/q	3/q	4/q	1/q	2/q	3/q	4/q	1/q	2/q	3/q	4/q	1/q	2/q	3/q	4/q	1/q	2/q	3/q	4/q
Waste management syste	m																							
Design standard for poor																								
houses																								
Early warning system and																								
community based awaren	ess																							
measures																								
Bus rapid transit 2																								
Bicycle infrastructure																								
development with																								
awareness enhancement																								

Methods

Baseline data gathering	
Development of strategy	
Development of action plan	
Approvals	
Implementation	
Monitoring and Revision	

FINANCIAL RESOURCES FOR THE IMPLEMENTATION OF ACTIONS

Actions			Fina	ncial	Sco	urce	s (1=	10%	%)						
Actions	1	2	3	4	5	6	7	8	9	10					
Waste management system															
Design standard for poor houses															
Early warning system and community based															
awareness measures															
Bus rapid transit 2															
Bicycle infrastructure development with awareness															
enhancement															

Financial Sources

Local	
Public-Private Partnership	
National	
International	

STAKEHOLDERS AND POSSIBLE PARTNERSHIPS

Actions	Stakeholders (Degree of Involvement)											
Actions	1	2	3	4	5	6	7	8	9	10		
Waste management system												
Design standard for poor houses												
Early warning system and community based												
awareness measures												
Bus rapid transit 2												
Bicycle infrastructure development with awareness												
enhancement												

Stakeholders

National Government	
Local Government	
Business Sector	
Communities	
International Community	



Thank you for listening

Questions??

