# Solid waste management in a rural district of Danang city
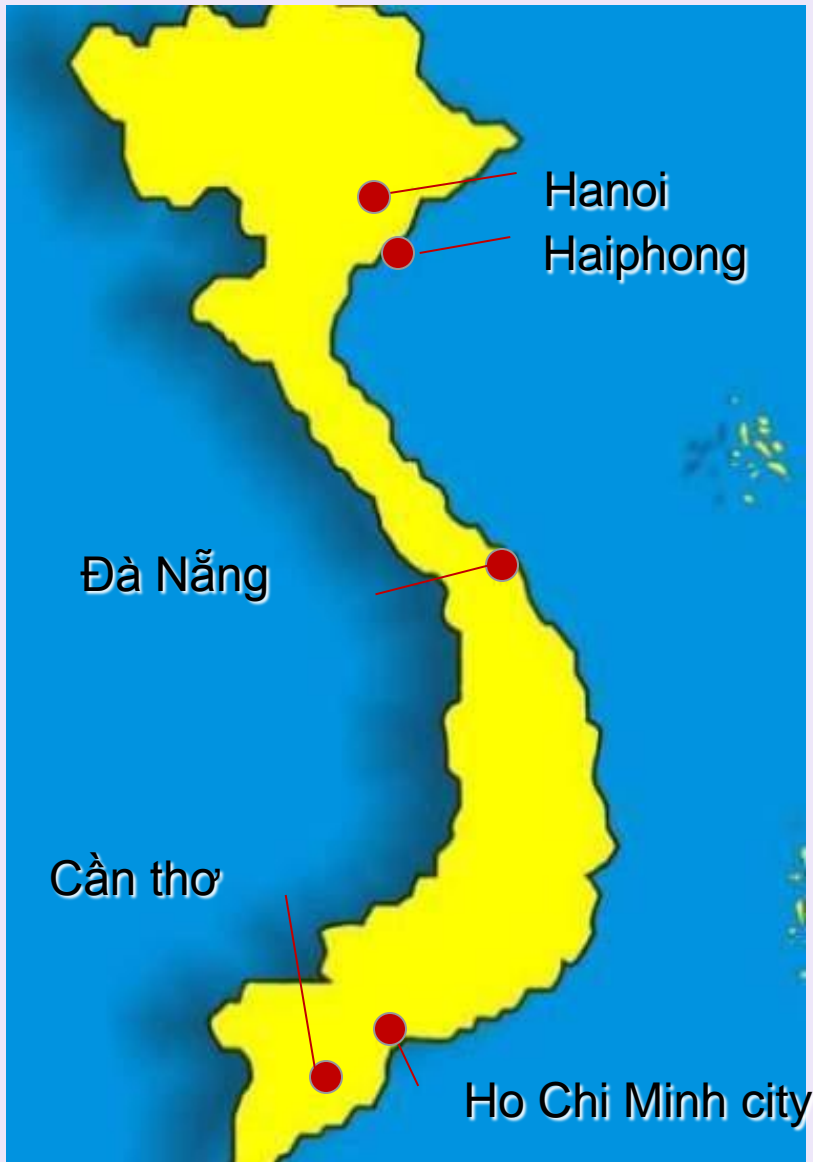
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Danang city, Vietnam

2/2014

**Content:**

1. Introduction of Danang city, Hoa Vang district

2. Current waste management situation

3. Result of waste management

4. Measures for waste management

# 1. INTRODUCTION OF DANANG



**CENTRE OF VIETNAM**

⑩ **ONE OF 5 BIGGEST CITIES OF VIETNAM**

⑩ **AREA: 1,256.53 km2 , 8 DISTRICTS**

⑩ **POPULATION: 950,000;**

**ADVANTAGES OF DANANG GEOGRAPHY:**

⑩ **Core city of key economic zone in Central Vietnam**

⑩ **Important hub of domestic, international transportation and terminal point to the sea of the West-East economic corridor**

⑩ **Centre of culture, sports, training, science and technology of Central Vietnam**

# Eco-city project of Danang city

**Main objectives**
- City environmental standards by 2020.
- Capable of protecting the environment, health and safety and preservation of the natural landscape

**Some environmental criteria**
- Air Quality Index is less than 100
- 25% of wastewater reuse
- Recycling, re-use 50% of waste
- 100% of households using clean water

# 1. INTRODUCTION OF DANANG


On Han Bridge


Danang bay


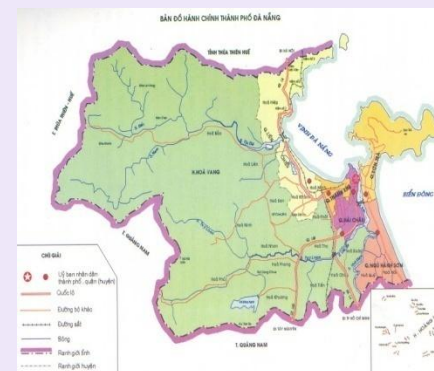Han Bridge

# 1. INTRODUCTION OF HOAVANG



**Area: 736,91km² (57,17% of city area)**
**Population: 120.698 (12,81%)**
**Density: 170 người/km²**
**No of Communes: 11**

# 2. CURRENT SITUATION OF WASTE MANAGEMENT

• **Volume of solid waste: 45-50 ton/day (domestic waste: 95 – 98%).**

• **Waste collection: 23-25 ton/day.**

• **Collection rate: 45-50%**

• **Implementation unit: URENCO of Hoa Vang district**

| No | Type of waste | Rate (%) |
|----|---------------|----------|
| 1 | Organic | 27,55 |
| 2 | Plastics | 10,91 |
| 3 | Paper | 8,16 |
| 4 | Textiles | 8,67 |
| 5 | Grass, wood, bamboo | 12,20 |
| 6 | Others | 32,51 |

## Methods of waste collection

1          2          3



**Waste bin**     **Waste collection tricycle**     **Waste site**

**Waste truck**

**Landfill**

# 3. RESULT OF WASTE MANAGEMENT

## Achievements:

- Collect around 50% of waste

- Increase the awareness of residents on environmental protection

- Create jobs for residents

## Weakness:

- 3R have not applied yet

- Private sectors have not participated on waste collection

# 4. MEASURES OF WASTE MANAGEMENT

**Reasons:**

**- Lack of facilities (waste bin, truck, market for waste,..) for 3R**

**- Lack of suitable policies for waste management**

**- Lack of suitable methods** ?

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**Measures:**

**- Socialization on waste collection and implementation of 3 R**

**- Study on methods of waste collection**

**- Study on making fertilizer from organic waste**

# *Thank you for your attention!*