



# OCEAN PLASTIC WASTE REDUCTION PROJECT IN DONG HOI CITY

Current Status and Solutions



# QUESTION

---

In 2021, the Ocean Plastic Waste Reduction project conducted "Current Research plastic waste situation in some cities in Vietnam" including Dong City Hoi.

## **Survey scope: Dong Hoi City**

**Survey subjects:** - Current

status of solid waste management (emission, collection, treatment, etc.)

- Source of solid waste: Household waste, restaurants, hotels, markets, offices, school, school, public places.
- Waste components.
- Number of samples: Households (99); Hotels (4), markets (12), agencies (3)...

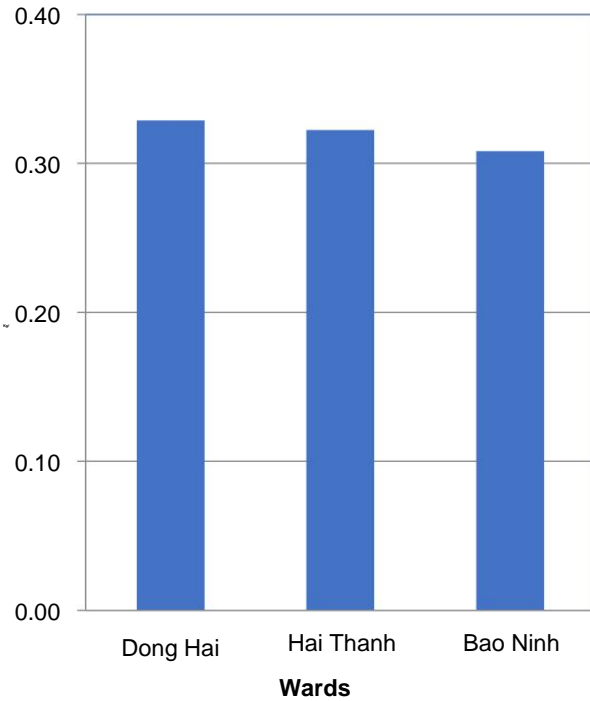


# RESEARCH RESULTS

# SURVEY RESULTS

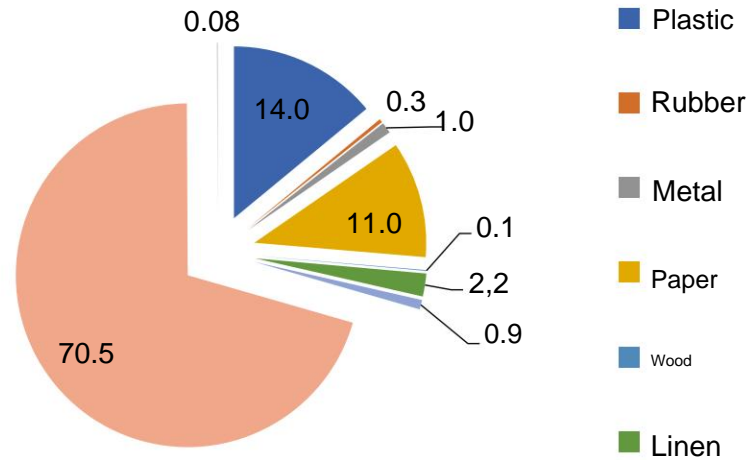
## 1. HOUSEHOLD

Average amount of household waste generated in wards/communes



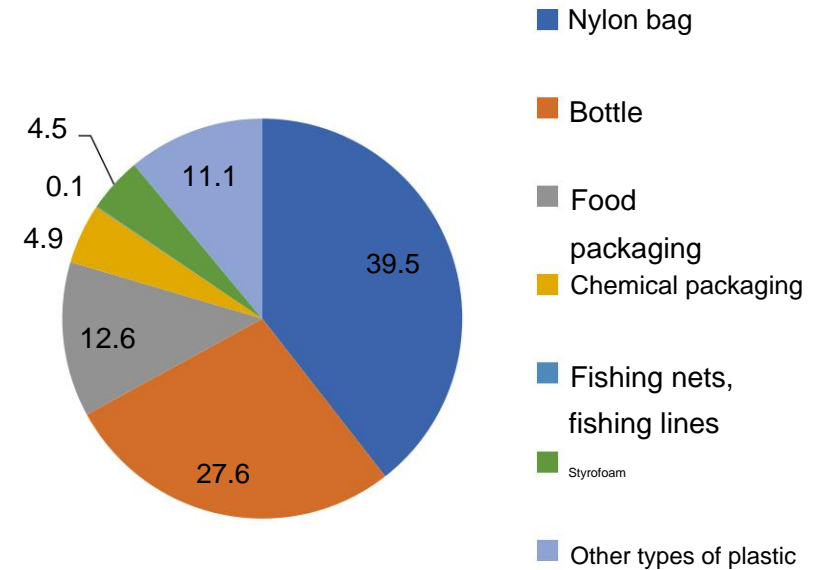
0.31-0.33 kg/person/day

Average proportion of waste generated from households



70.5% organic waste  
14% plastic waste

The average proportion of ingredients type of plastic in household waste

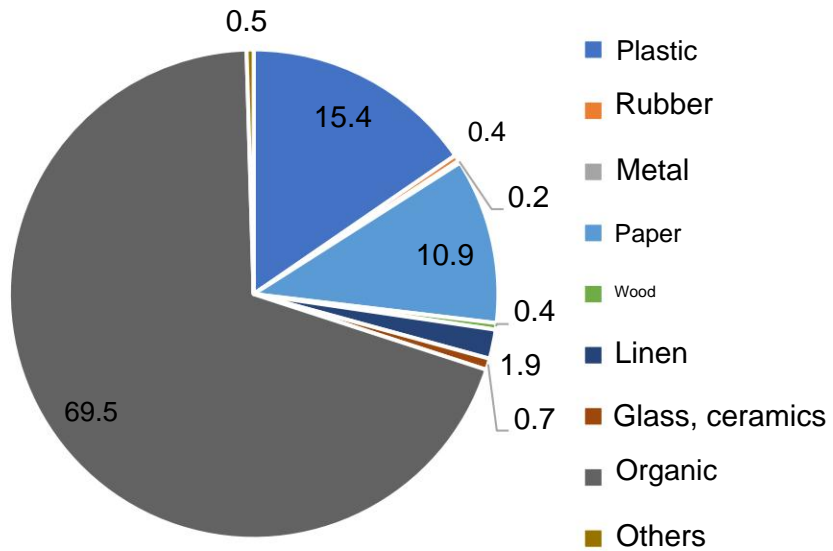


39.5% nylon; 27.6% bottles  
12.6% packaging and 11.1% other plastic

# SURVEY RESULTS

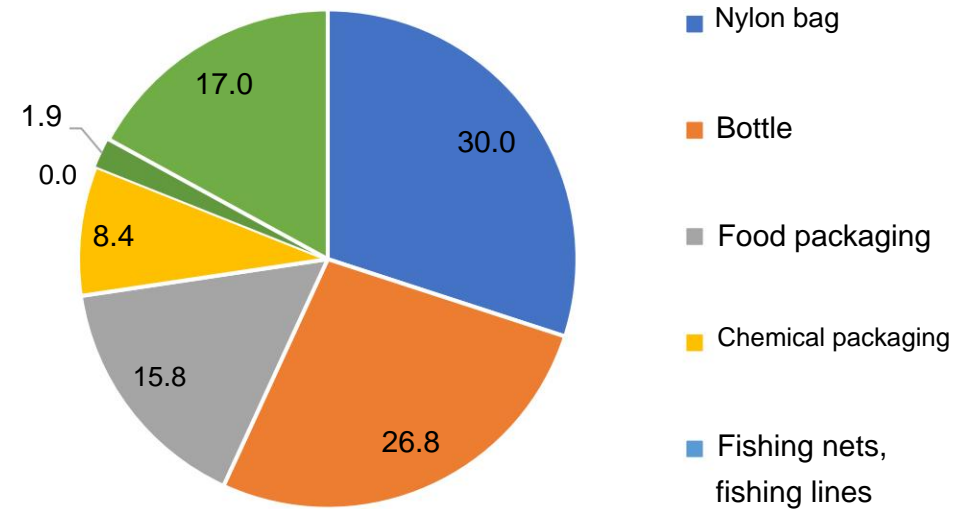
## 2. HOTEL

### Average composition ratio of waste types at the hotel



69.5% organic  
15.4% plastic  
10.9% paper

### Average proportion of plastic types in hotel waste

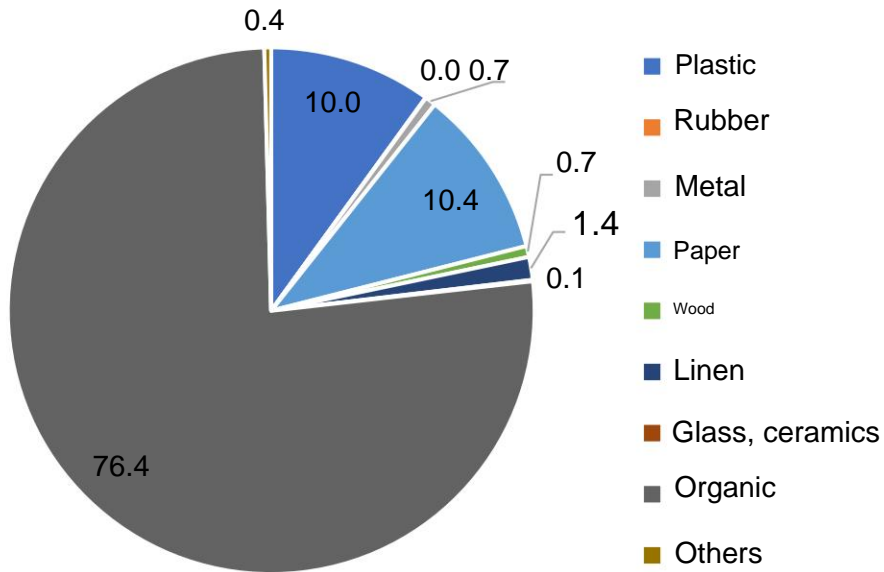


30% plastic  
bags 26.8%  
bottles 17% foam; 15.8% of food packaging

# SURVEY RESULTS

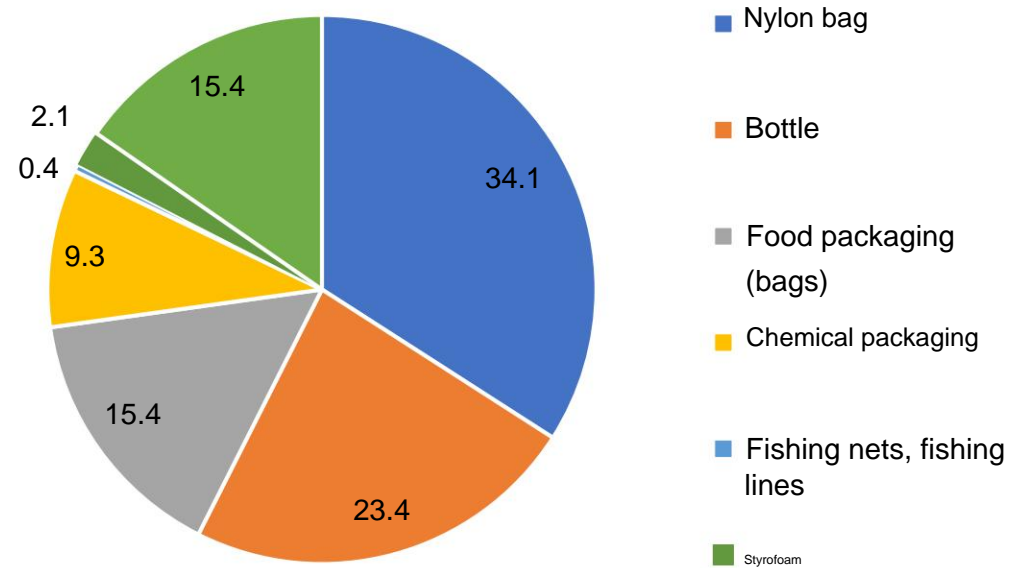
## 3. RESTAURANT

### Average composition ratio of waste types at the restaurant



76.4% organic  
10% plastic  
10.4% paper

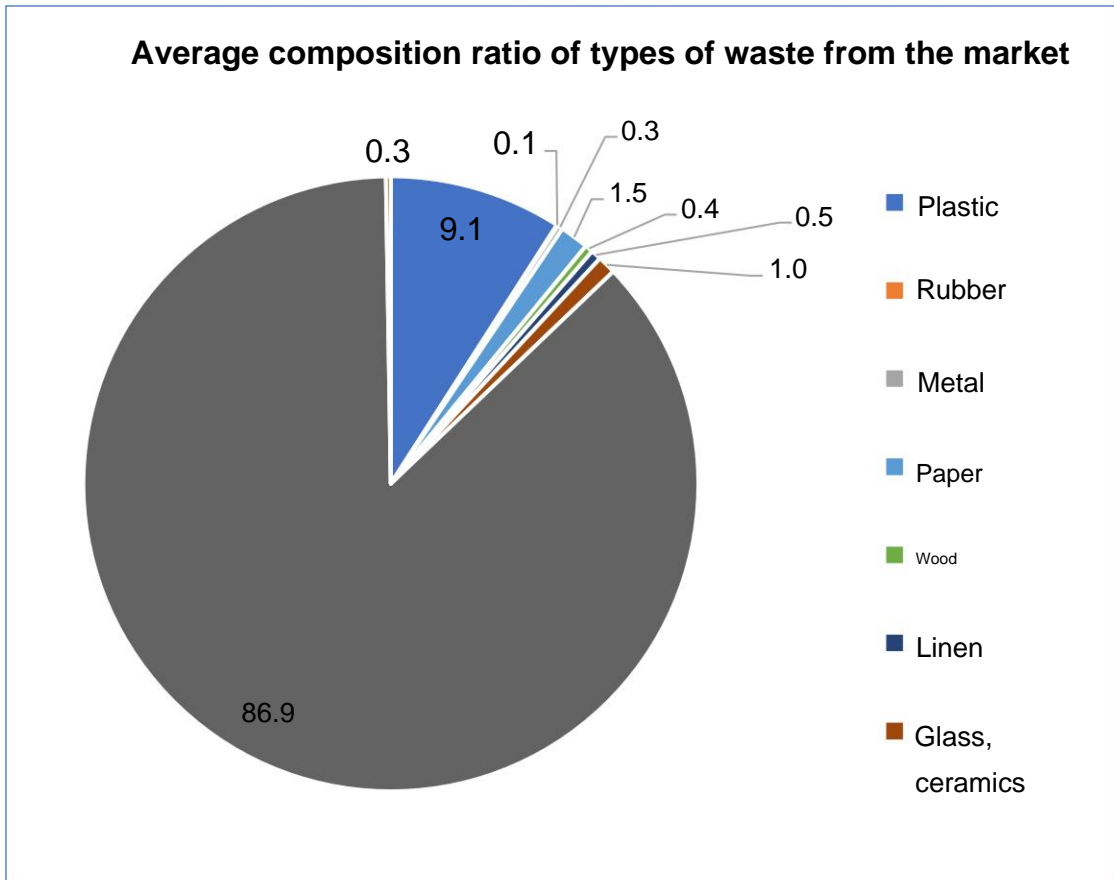
### Average proportion of plastic types in restaurant waste



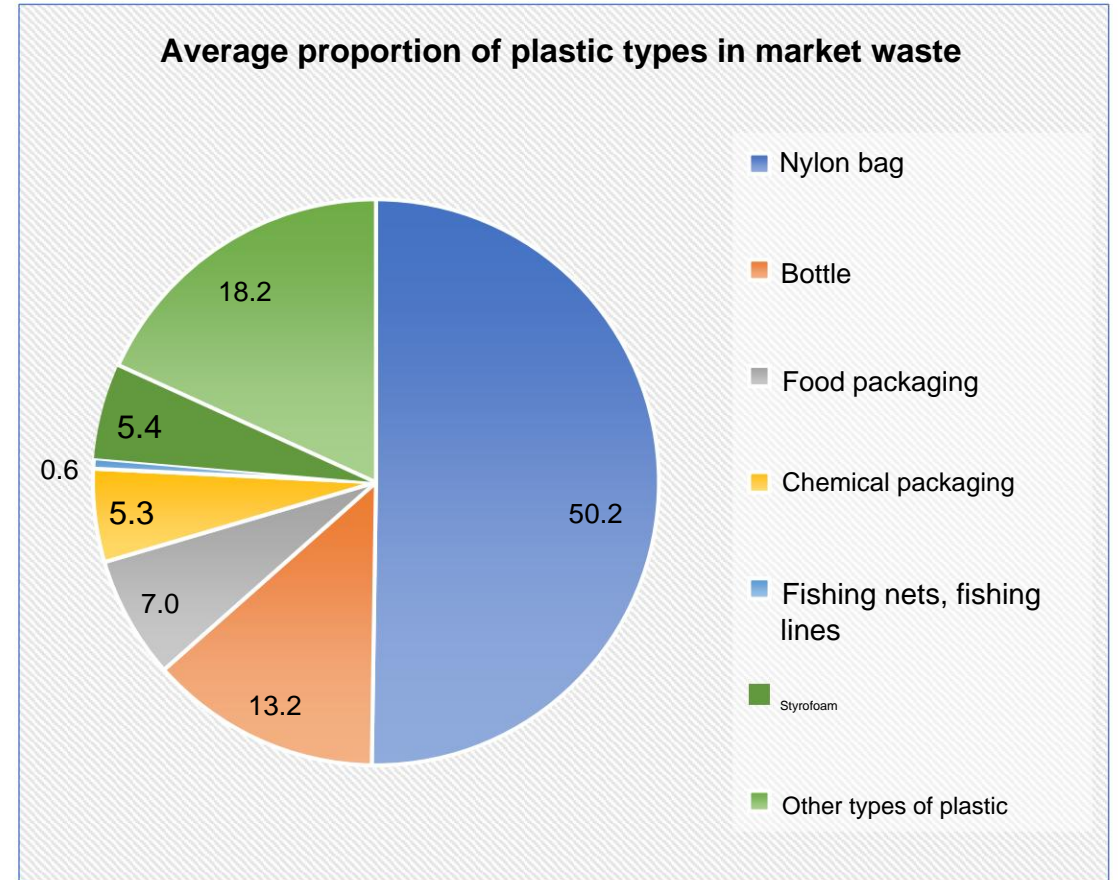
34% plastic  
bags, 23.4%  
bottles, 15.4% Styrofoam; 15.4% of food packaging

# SURVEY RESULTS

## 4. MARKET



86.9% organic  
9.1% plastic



50.2% plastic  
bags,  
18.2% foam, 13.2% bottles; 7% food packaging

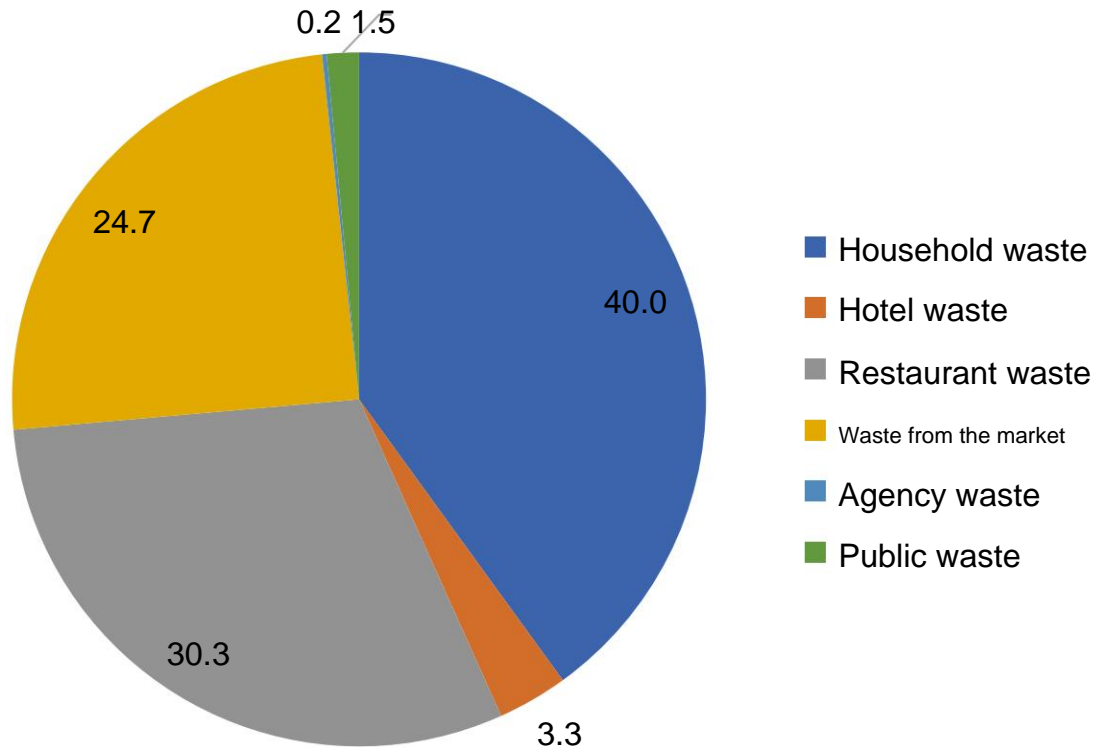
# SURVEY RESULTS – SYNTHESIS

TT	Type of waste	Volume of waste (kg/day)	Ratio (%)	Volume of plastic waste (kg/day)	Ratio (%)
first	Family	40,183.2	40.0	5,541.2	47.3
2	Hotel	3,284	3.3	505.9	4.3
3	Restaurant	30,450	30.3	3,039.1	25.9
4	Market	24,800	24.7	2,250.2	19.2
5	Organ	210	0.2	10.5	0.1
6	Public location	1,500	1.5	375.0	3.2
7	<b>Total</b>	<b>100,427.3</b>		<b>11,721.9</b>	

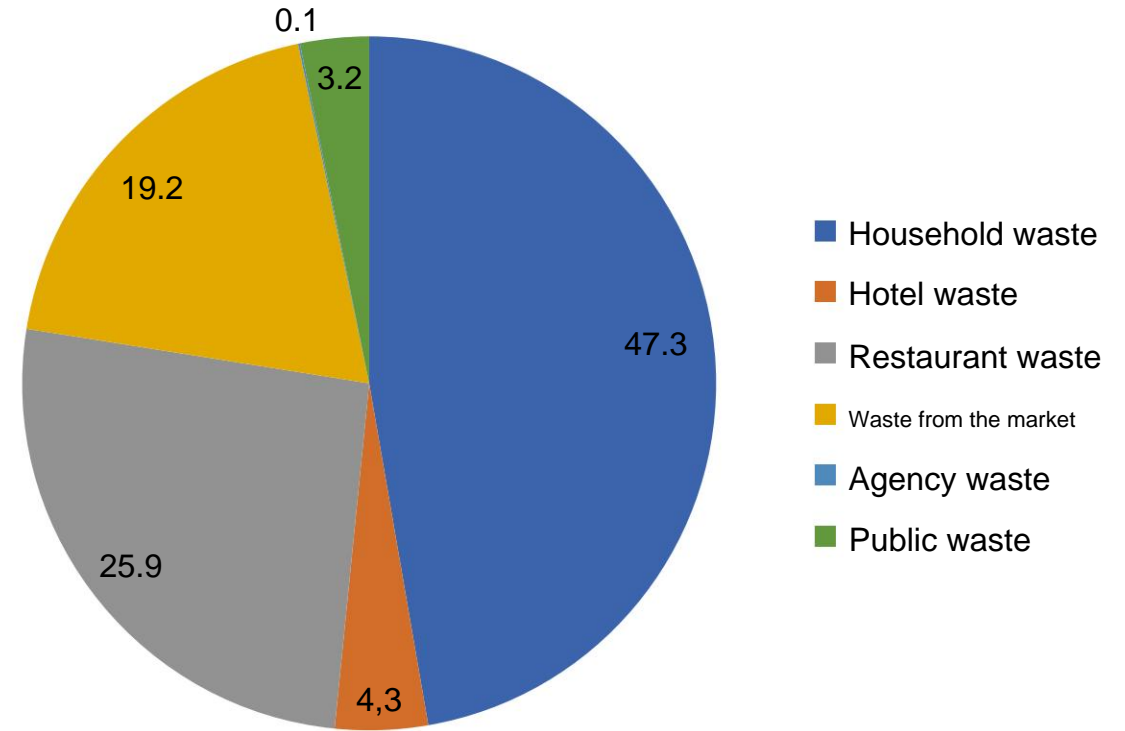


# SURVEY RESULTS – SYNTHESIS

## Percentage of waste components by source in Dong Hoi City

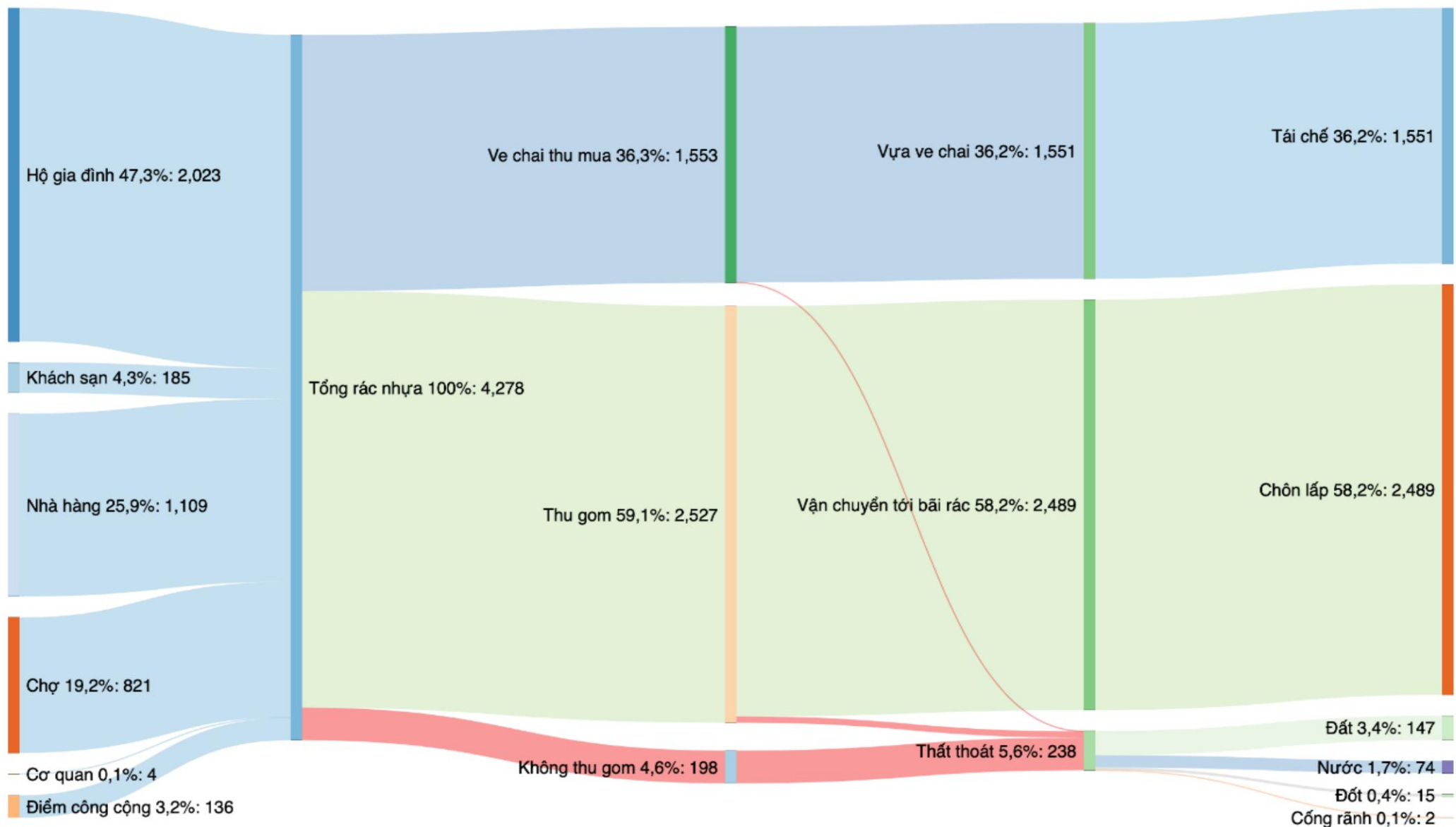


## Percentage of plastic waste by source in Dong Hoi City



The waste collection rate in Dong Hoi City in 2019 was 95.5%.  
The goal is to **have a collection rate of over 98.5% by 2025.**

# PLASTIC WASTE FLOW DIAGRAM IN DONG HOI



# RISK OF LOSS OF PLASTIC WASTE FROM SOURCES

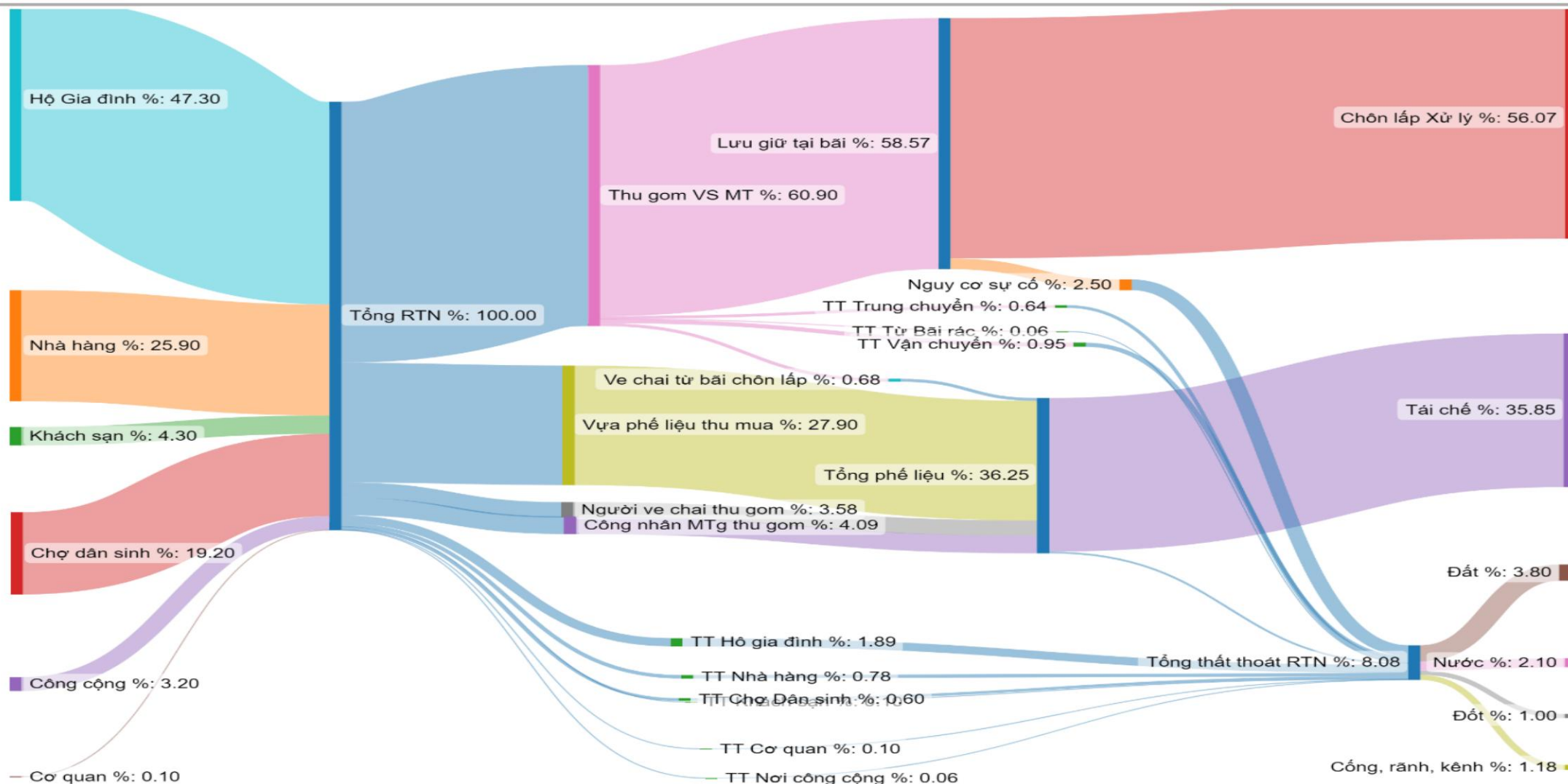
TT	Emission source	Risk of substance loss	Risk of waste loss
		solid waste (%)	plastic (%)
1	Household	4	1.89
2	Hotels	first	0.04
3	Restaurants	3	0.78
4	Public areas	2	0.06
5	People's market	3	0.58
6	Agencies	2	0.01
	<b>total</b>		<b>3.36</b>

# FACTORS THAT INCREASE THE RISK OF RTN LOSS

- Residents along rivers and seas still have the habit of littering directly into the lips field (water source).
  - There are restaurants and food services near rivers and seas, increasing possibilities RTN loss potential.
  - Dong Hoi Market is a large market and close to the river and has market activities + boats bringing seafood to shore.
- **Experts estimate the risk of RTN emissions in Dong Hoi City to be 8.08%.**



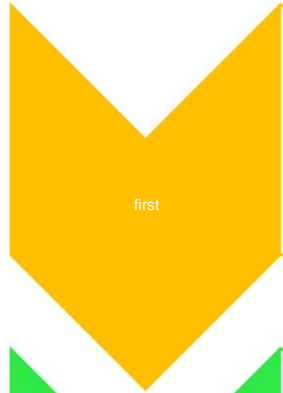
# RISK OF LOSS OF PLASTIC WASTE IN DONG HOI CITY



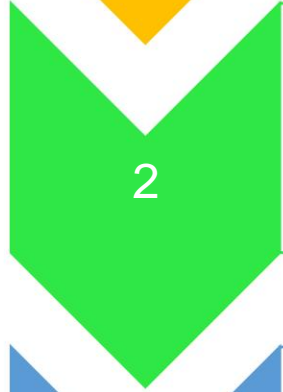
**Estimated risk of RTN emissions in Dong Hoi city is 8.08%.**



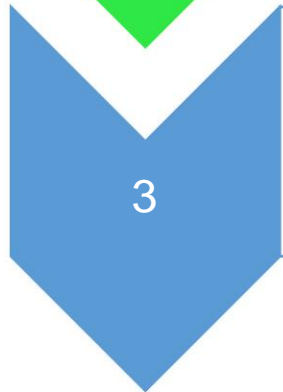
# CONCLUDE



- Generating the most plastic waste from sources: households (47.3%), restaurants (25.9%) and markets (19.2%).



- The highest proportion of waste is plastic bags in households and markets
- The rate of plastic waste in bottles and other plastic materials (packaging, styrofoam) is high for restaurants, hotels, and service sources



- In Dong Hoi area, there are still many spontaneous garbage collection points or residual garbage in estuaries and coastal areas.



# REDUCE SOLUTION GROUP MINIMIZE PLASTIC WASTE



# SOLUTION GROUP FOR MINIMIZING PLASTIC WASTE AT DONG HOI CITY



- Communicate, raise awareness and reduce the use of single-use plastic, increase the reuse and recycling of plastic in the community, households, businesses and markets



- Pilot models related to reducing single-use plastic, increasing plastic reuse, and reducing emissions into the environment



- Eliminate waste hot spots, provide solutions to address waste loss into nature and prevent re-pollution

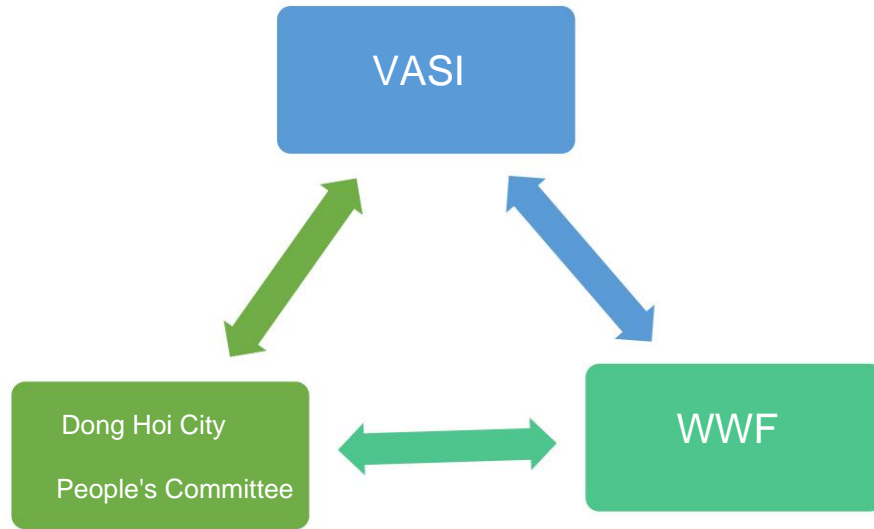


- Promote pilot waste classification models, improve waste collection and treatment while enhancing waste circulation.





# COORDINATE AND IMPLEMENT PROJECT ACTIVITIES

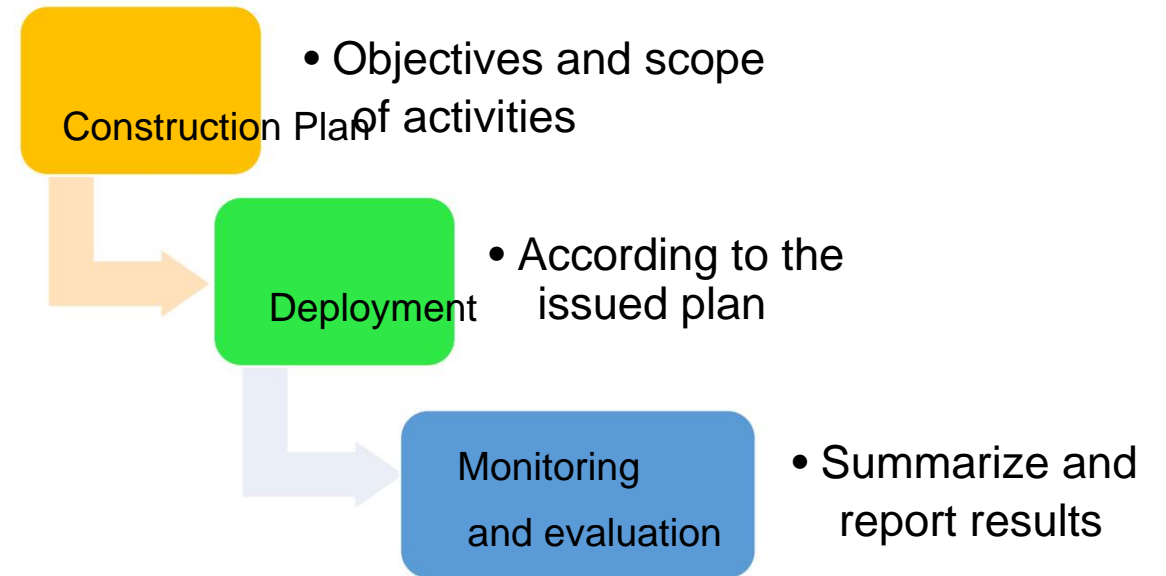


Department of Natural Resources and Environment (focal point/coordinator)

- Department of Natural Resources and Environment is the focal point for assigning, coordinating, monitoring and evaluating activities...

Specialized departments, remote wards, unions • Specialized departments/

departments and unions coordinate implementation



- Objectives and scope

Construction Plan of activities

- According to the issued plan

Deployment

Monitoring and evaluation

- Summarize and report results

**THANK YOU!**

