

SOLID WASTE SEPARATION IN RESIDENTIAL HOUSEHOLD AND RECYCLING WASTE

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1. INTRODUCTION

- Da Nang is the third largest city in Vietnam. In 2018, Da Nang was recognized as the Green City of Vietnam**
- To be worthy with the title "City of Life", Da Nang is constantly trying to and making its efforts to develop simultaneously economy, society and protect the environment.**
- The amount of solid waste is increasing, putting great pressure on Khanh Son landfill and the issue of solid waste management is becoming more and more important**

2. OBJECTIVES

- Raise awareness of people in waste separation and recycling of waste.
- Reduce costs, time for solid waste treatment.
- Understand and apply the 3R model (Reduce, Reuse, Recycle).

3. CONTENTS OF IMPLEMENTATION

3.1. Survey

Survey of people's opinions on living habits and waste disposal

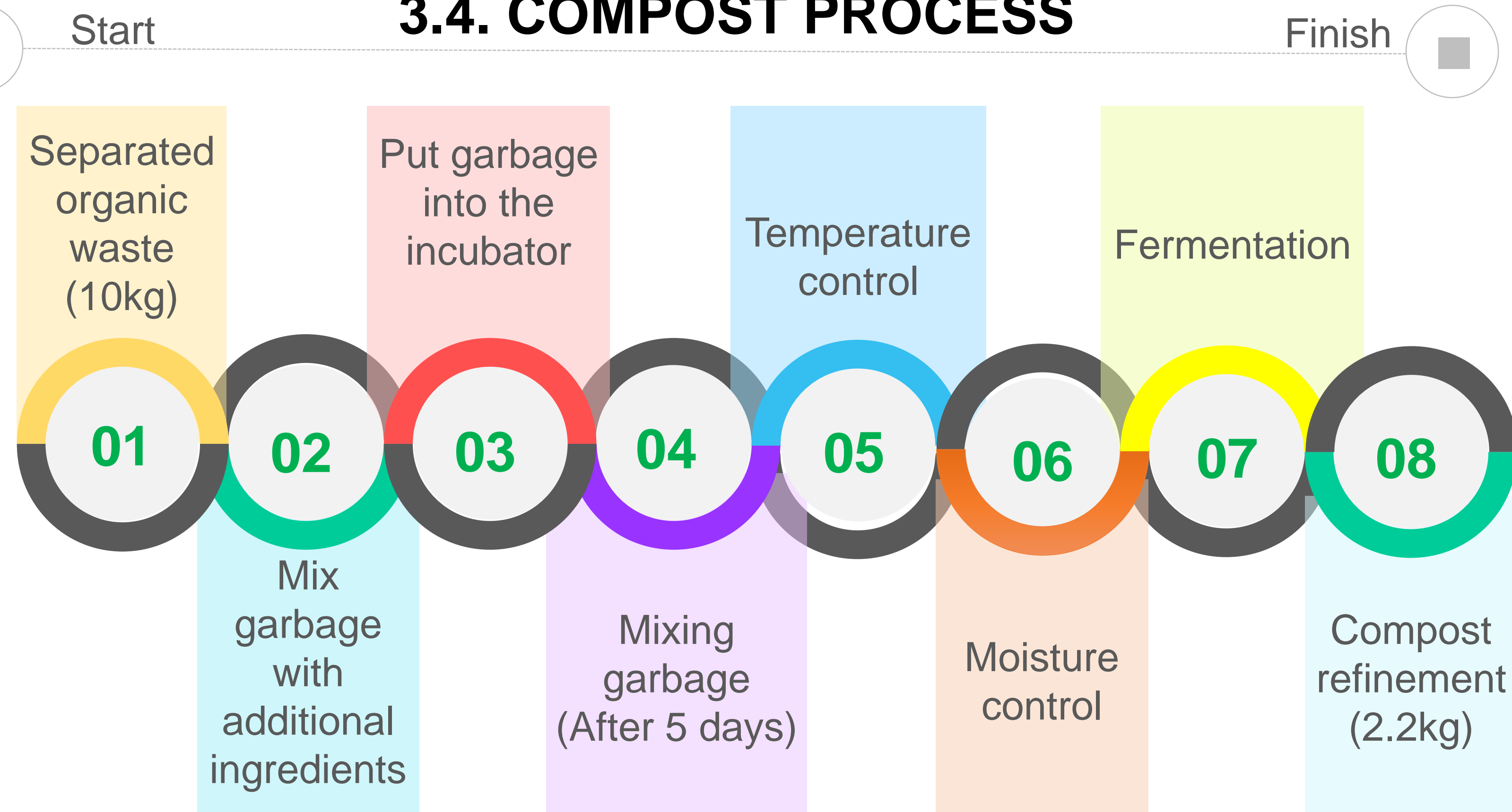
3.2. Classify

Piloting the waste classification model at 50 households in Lien Chieu district

3.3. Composting

Community gardening and composting as Social practices toward sustainable city

3.4. COMPOST PROCESS



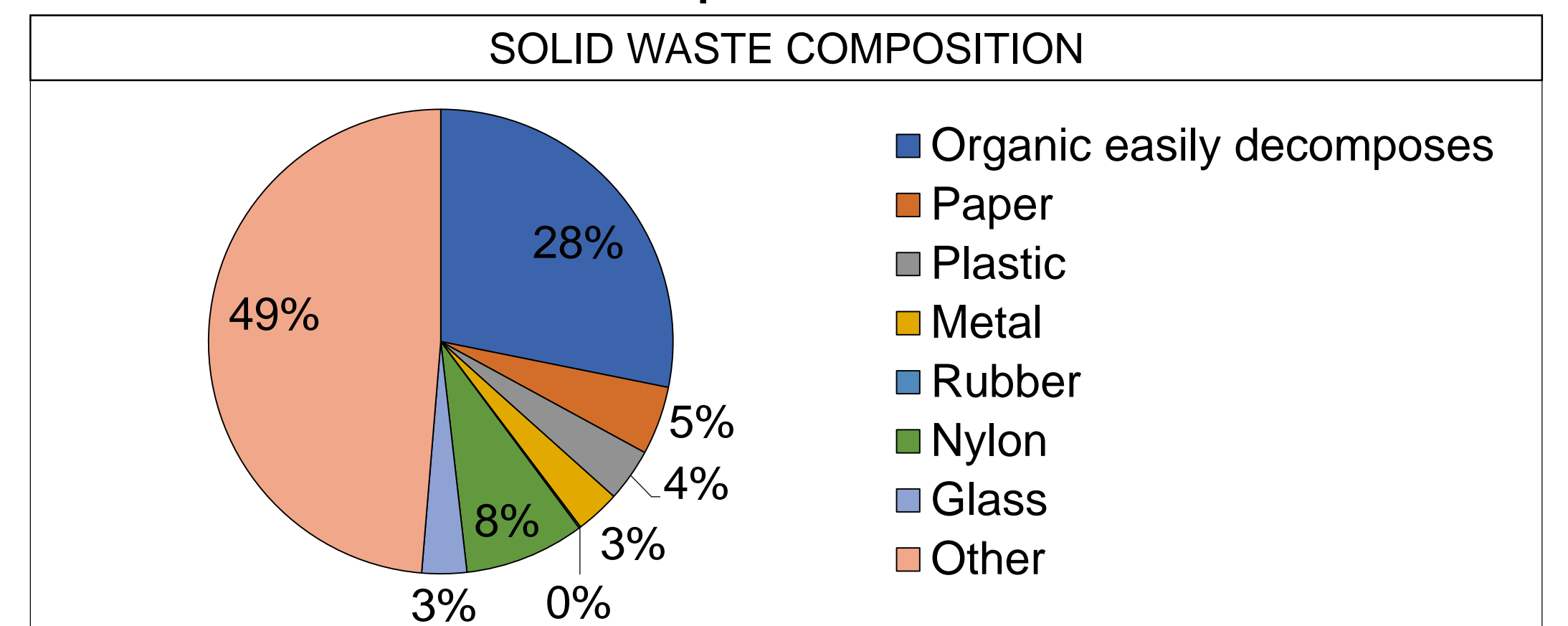
5. CONCLUSIONS

5.1 People who are surveyed and instructed to separate waste have high awareness in environmental protection.

5.2 It is necessary to have programs and policies on waste separation at households in a synchronous manner.

4. RESULTS

4.1 100% of trained households understand and know how to separate waste, and apply 3R model in practice. Reduce 51% the amount of waste dumping at Khanh Son landfill including 28% of organic waste and 23% of recyclable waste → Reduce waste disposal costs.



4.2 Benefits from waste separation: organic waste is composted for gardening.



4.3 Economic benefits from reducing waste disposal costs and recycled products.

In Lien Chieu district, economic benefits from recycling waste is calculated more than 37,000,000 VND per day.

No.	Solid wastes	Weight (kg)	Price (VND/kg)	Money (VND)
1	Paper	2,329	2,500	5,822,000
2	Plastic	1,803	4,000	7,212,000
3	Metal	1,611	10,000	16,110,000
4	Rubber	62	-	-
5	Nylon	4,084	2,000	8,168,000
6	Glass	1,525	-	-
Total		11,414		37,312,000

4.4 Raising the awareness of the community in waste separation as well as environmental protection.

RESULTS OF SURVEY ON THE BENEFITS OF WASTE SEPARATION

REDUCE THE AMOUNT OF WASTE DISPOSAL IN LANDFILLS

POSITIVE IMPACT TO AWARENESS IN RESOURCES SAVING

POSITIVE IMPACT ON THE THE ENVIRONMENT

ECONOMIC BENEFITS

THE EDUCATION OF CHILDREN

People have a high awareness of the benefits of waste separation at home. They mention that the separation will benefit the environment, economy and positively influence their children's education.