

PROFICIENT Community Service

Education Election Household Waste Based on Environment and Family in Situsari Village, Cileungsi, Bogor Regency, West Java

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ABSTRACT

Keyword: Waste Sorting,
Family Education,
Environment

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This Community Service Activity (PKM) titled “Education on Household Waste Sorting Based on Environment and Family” was carried out in Situsari Village, Cileungsi, Bogor Regency. The objective is to increase community awareness about the importance of sorting household waste and positioning the family as the main agent of environmentally friendly behavioral change. The activity used participatory methods through education and discussion sessions such as types of household waste based on their classifications. The results showed increased understanding and active participation of residents in waste sorting and the circular economy potential. The family-based approach proved more effective in building sustainable habits in household waste sorting and management.

I. INTRODUCTION

Household waste management is a serious issue in Indonesia. Based on data from the Ministry of Environment and Forestry, Indonesia produces more than 34 million tons of waste per year, with 57% of it coming from households [1]. The high contribution of waste from the household sector is a major challenge if it is not accompanied by the right handling strategy and active participation from the community. The lack of environmental education and the unavailability of adequate waste sorting facilities are the main causes of waste accumulation in Final Disposal Sites (TPA), soil and water pollution, and increased risk of public health problems.

Situsari Village, which is a semi-urban area in Cileungsi District, Bogor Regency, also experiences this problem. Although this area continues to develop in terms of infrastructure and population, public awareness in sorting and managing waste is still relatively low. The lack of separate trash bins at home or in public facilities, as well as the absence of a community-based waste management system, exacerbates the problem. waste management conditions in this area. The impact is an increase in the volume of mixed waste that is difficult to manage effectively.

The family as the smallest social unit has a vital role in creating a culture of sorting waste from home. The role of parents is very important in providing examples and educating children to understand the importance of sorting waste, as well as its impact on environmental sustainability. Family-based environmental education has been proven effective in forming pro-environmental behavior consistently and sustainably [2]. The application of simple habits such as separating organic and inorganic waste, reusing used containers, to utilizing organic waste into compost or maggot feed is a form of real contribution from households in protecting the environment[3][4]. The knowledge and attitudes of housewives are closely related to the practice of sorting and managing household waste sustainably. The importance of sorting waste after receiving household-based education, thus strengthening the role of women as the main drivers of waste management in the family.[5]

Therefore, the Community Service (PKM) activity conducted by lecturers and students of Perbanas Institute was designed as an educational and applicative effort to increase awareness and skills of the Situsari Village community in managing household waste. This activity combines theoretical and practical approaches, including waste classification education, and interactive sessions. It is hoped that through this program the community can form an independent community-based waste sorting system that is not only beneficial for environmental cleanliness, but also provides economic impact through the concept of a circular economy.

II. IMPLEMENTATION METHOD

Activity This implemented in a way look at advance between Lecturers and Students / i Perbanas Institute with Community Parties in Situsari Village Cileungsi Bogor Regency with topic “Education Election Household Waste Based on Environment and Family”.

Place and Program Implementation

1. Place of implementation of the training program

The place for implementing this community service is in Desa Siteari, Jl. Swadarma Kp. Karet RT 004/001, Cileungsi, Bogor Regency, West Java

2. Time of Program Implementation

The activities held on Friday, June 20²⁰²⁵ at 02.30 – 04.30 PM

Table 1. Rundown Activities

Time	Activities
10.00 – 11.00	Preparation & Departure from Perbanas Jakarta
11.01 - 12.00	Arrival at Sitisari Village Office & Welcome Session
12.01 – 13.00	Break (Ishoma)
13.01 – 13.30	Preparation at Village Hall Office
13.31 – 14.00	Participants attend and fill in the Attendance List. Welcoming the Participants & Pre-Test.
14.01 – 14.10	Opening of the event by MC
14.11 – 14.25	Welcome from DP2M Perbanas Welcome from Head of Sitisari Village ICE BREAKING
14.26 – 15.00	Education Sorting Household Waste Based on Environment and Family
15.01 -15.45	Practice Processing Waste Organic with Maggot media
15.46 – 15.55	Question and Answer session
15.56 – 16.00	Giving present participants who asked questions
16.01 – 16.15	Closing and Group Photo
16.16 – 16.30	Giving Souvenirs to All over Participant

C. DISCUSSION

The Community Services which was implemented in Sitisari Village with amount participant as many as 34 people, the majority of whom were men by 82% and the rest are women by 18% (Figure 1). The material in module education more emphasized the importance of role family in sorting rubbish House stairs. Education done through approach participatory and visual, where participants invited recognize rubbish through picture, practice sorting in a way directly, and discussion group small. The material presented covers types trash, reason Why need sorting, how to sorting at home, as well as potential economy from results recycle repeat. Most of participant Not yet understand difference between rubbish organic, inorganic, and B3, as well as Not yet Once do sorting rubbish regularly at home.

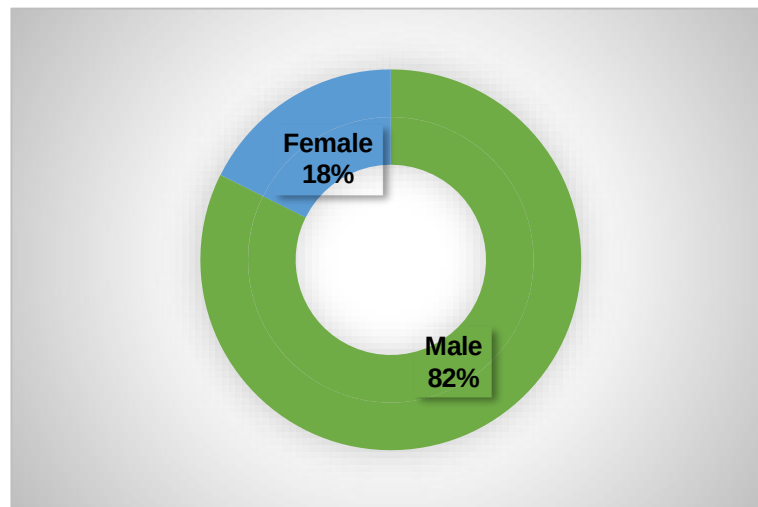


Figure 1. Training Participants
 Source: Result of Questionnaire (2025)

However, after session Exposure material, participants own better understanding in. The participants capable explain types waste, benefits sorting, and steps sorting rubbish in a way independent. Enthusiasm inhabitant seen during session practice and ask answer. As for the results data questionnaire participant training only 47 % of those who have done it regularly Sorter rubbish at home like shown in Figure 2 below This:

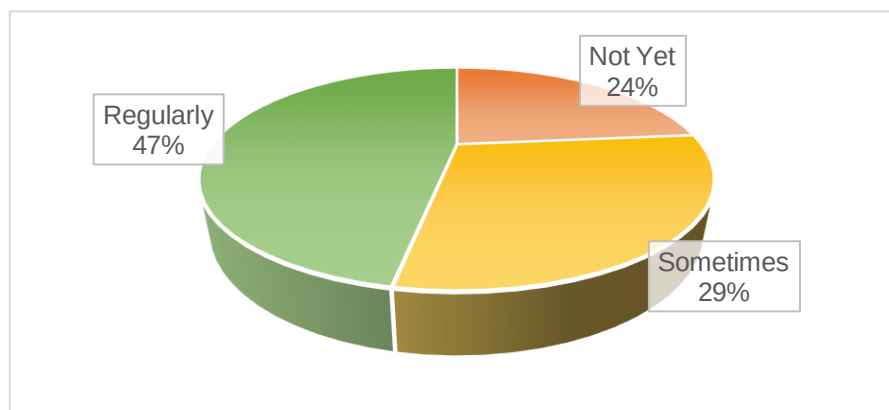


Figure 2. Sorting Rubbish Frequently at home
 Source: Result of Questionnaire (2025)

Whereas the remaining 29% and 24% are participant training that sometimes only and even Not yet do sorting rubbish regularly at his house. After accept education from the PKM Team, several participants convey his interest for activate waste bank group family as act carry on activities. This is show that approach educational, applicable and fun more effective in to form awareness as well as push change behavior environment. The module also explains engagement strategies family, such as provide place rubbish sorted, attaching color labels, and involving children in activity sorting rubbish as part from education character. As for the data that

Challenges found in activity This among others the lack of facility supporters in the environment inhabitant as shown in Figure 3, namely by 53% of participants No own tool or appropriate container. While 21 % is influenced by inadequate knowledge adequate. So that PKM team provides solution like utilise receptacle used as place trash and work the same with neighbor or RT in collection rubbish separated. This is strengthened idea that collaboration environment is very important in support behavior friendly environment.

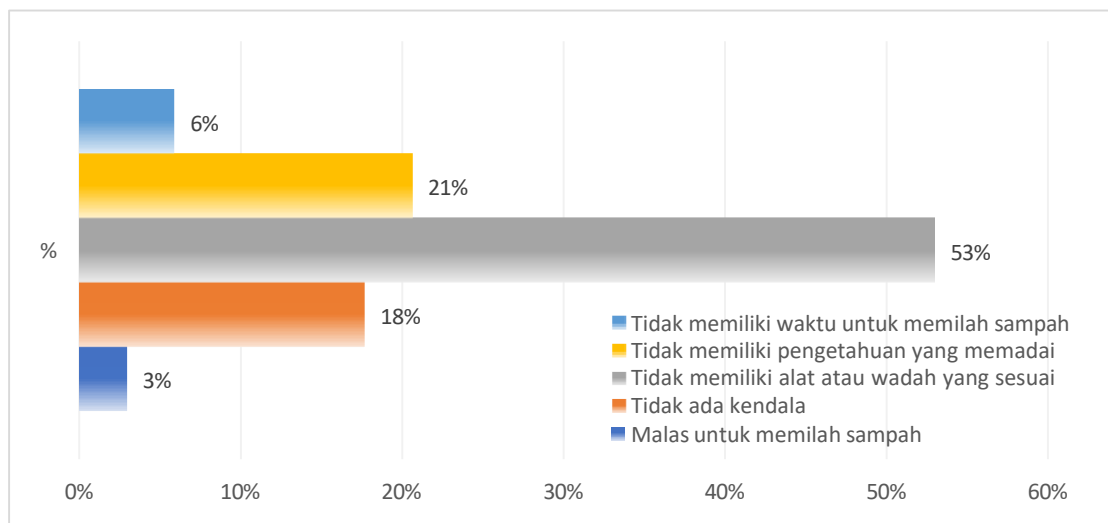


Figure 3. The Obstacles of sorting waste at home
 Source: Result of Questionnaire (2025)

Overall, this PKM activity capable increase awareness and understanding inhabitant about importance sorting rubbish House ladder. Compiled learning modules with approach practical and participatory proven effective in convey message educational and encouraging change behavior. Activities This expected become beginning from movement collective residents of Sitisari Village in create a clean, healthy and sustainable environment through action small start from home. The success of the implementation of PKM opens up opportunities for the development of further programs in the form of intensive mentoring in the environment House ladder citizens. This approach through waste sorting education not only answers waste classification, but is also able to create a clean and healthy environment.



Figure 4. Training Materials



Figure 5. The Speakers from Perbanas Institute



Figure 6. Presenting Module by Lecturer Pratiwi



Figure 7. Greeting Speech by Mr. M. Dahlan as Head of Situsari Village



Figure 8. Reward for Participants who asked questions



Figure 9. Photo Session for All Participants of Training



Figure 10. The Speakers with Village Cadre



Figure 11. The Participants of Training in Situsari Village

D. CONCLUSION

The Community Services in Situsari Village have a positive impact on increasing residents understanding of the importance of sorting household waste. Through participatory education methods and direct practices such as processing organic waste with maggots, participants become more aware of the types of waste and how to manage it sustainably. The role of the family has proven effective as an agent of environmental behavior change at the household level.

Although there are still obstacles such as the lack of facilities and a separate waste transportation system, the enthusiasm of residents to implement the habit of sorting waste shows that change can start from simple actions at home. This activity is expected to be an example for other communities in forming a culture of caring for the environment and family-based waste management.

LIST OF PARTICIPANTS

Figure 12. Participants List

**DAFTAR ABSENSI KEGIATAN PKM
PERBANAS INSTITUTE DAN DESA SITUSARI
JUMAT, 20 JUNI 2025**

KELOMPOK : 1 (satu)

JUDUL : Edukasi Pemilahan Sampah Rumah tangga Berbasis Lingkungan dan Keluarga

NO	NAMA LENGKAP	DOSEN / MAHASISWA	NIDN / NIM	PRODI	PARAF
1	Dwi Atmodjo wp	Dosen	0317116501	Tek. Informatika	Dwi
2	Pratiwi	Dosen	0319077001	Sain Data	Pratiwi
3	Lucia Sri Istiyowati	Dosen	0309047301	Sist Informatika	Lucia
4	Argiananda R.F.	Mahasiswa	2312000120	S1 Manajemen	Argiananda
5	Auliya Azzahra	Mahasiswa	2312000049	S1 Manajemen	
6	Danendra Farrel P.	Mahasiswa	2312000068	S1 Manajemen	Danendra
7	Erfan Marbani P.	Mahasiswa	2312000026		
8					
9					
10					

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