

Aksi Pengembara (Pemuda Penggagas Pembaruan) Umsida Students to Help Manage Used Cooking Oil in Klurak Village Rw 07

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Abstract

Humans have a variety of activities that support the increasing amount of waste in the community environment. One of the household wastes produced is waste oil or what is often referred to as used cooking oil. Waste oil can be categorized as used cooking oil when it changes color to blackish brown. Discolored waste oil is no longer suitable for consumption. Some people with limited information about used cooking oil processing, tend to throw it away and result in environmental pollution. There are also many people who do not care about the impact of littering used waste. This dedication through Action Nomads is carried out to educate the people of Klurak Village RW 07 in raising awareness about the impact of waste used waste disposal and how to improve skills in managing used cooking oil. As for empowering youth who will later continue the Nomad Action in caring for the environment from the dangers of waste cooking oil in the surrounding environment. The method used in this study is by outreach to the community about the use value of used cooking oil waste which can produce a useful and valuable product. As youths, the servant collaborated with youth youth organizations in Klurak Rw 07 Village to campaign for a movement to reduce the use of used cooking oil. The result of implementing this activity is increasing knowledge about the impact of waste used cooking oil and using this used cooking oil to be used as a material that is ready for reuse.

Keywords: Cooking Oil, Youth, Aksi Pengembara

INTRODUCTION

Sidoarjo is part of East Java Province with abundant resources. In 2020, it has been recorded and confirmed that the population of Sidoarjo Regency is 2,282,215 people with a total workforce of 1.19 million people (Yuniarti & Imaningsih, 2022). Population growth is very influential in increasing household waste. Household waste has long been one of the problems in the community. One of them is used cooking oil waste which some people still do not understand about environmentally friendly disposal or management procedures.

Cooking oil is one of the many main human needs that function as an ingredient in the processing of foodstuffs. Cooking oil is used as a frying medium among the public, this makes cooking oil seem very important and the number of uses is increasing from year to year. Cooking

oil comes from animal fat and plant growth. This fat will be purified and liquid at room temperature, usually cooking oil is used to fry and process food. Frying oil or often referred to as used cooking oil can also be referred to as waste oil produced from the former use of samin oil, vegetable oil, corn oil or other oils that have previously been used for frying. In general, this oil is one of the waste used for household needs.

Used cooking oil can be reprocessed through a filtering system, this system will change the color of the oil until it returns clear like new cooking oil. However, the content in this filtered oil is still damaged so it is not good for the health of the body. To overcome the problem of used cooking oil, various efforts need to be made to maintain health and the surrounding environment. Reuse of used cooking oil waste is a consideration that can be used as an alternative in reducing environmental pollution.

The population of Indonesia always increases from year to year. This affects people's productivity and opportunities to get a job. Population is a basic aspect of national development, especially in developing countries such as Indonesia. The abundant population causes more and more human resources who are ready to contribute to bringing renewal to their respective environments.

One of the human resources in Indonesia is youth. Youth are a brave generation, love their homeland and have positive goals in their life development. Youth must be able to maintain the authenticity of local traditions and wisdom as the identity of the nation. Therefore, the role of youth is very necessary in the development and development of ideas to solve problems that exist in a region.

Used cooking oil can be reprocessed through a filtering system, this system will change the color of the oil until it returns clear like new cooking oil. Used cooking oil from household waste and industrial products can be converted into more useful things such as soap (Damayanti, Supriyatin, & Supriyatin, 2020; Ginting et al., 2020; Haqq, 2019), candles (Sundoro, Kusuma, & Auwalani, 2020), air fresheners (Dwitiyanti & Suharmanto, 2020) and alternative fuels (Prasetyo, 2018; Ardhanay & Lamsiyah, 2018).

To realize the role of youth, the service members formulated a nomadic action (youth initiator of renewal) that moves directly, especially in Sidoarjo Regency with the first target, namely Klurak Village, Rw 07, Candi District. Aksi Pengnomad (Youth Initiator of Renewal) is an action by a group of students of Muhammadiyah Sidoarjo University which aims to help the surrounding community. Where Umsida students become pioneers or movers who will later cooperate with institutions, organizations, one of which is Klurak Village, Rw 07, Candi District. This activity also involves local youth to manage time efficiency and wider reach during the activity. The basis of the formation of this action is to mobilize youth who are ready to collaborate with various elements of society.

Pengabdian took the idea of cooking oil processing to increase the role of youth and mobilize youth collaboration with Klurak Village, Rw 07, Candi District and local residents. Used cooking oil is oil obtained from the rest of the frying process that has been used repeatedly. Cooking oil is composed of fatty acids. Where the fatty acids that are heated repeatedly will change color and the content becomes increasingly saturated. The content is not good for consumption by the public because it can affect the health of organs in the body. In addition to affecting health, it will also affect processed products in terms of color and taste. To reduce the use of used cooking oil, in this action the service will mobilize the residents of Klurak Village, Rw 07, Candi District to jointly carry out the ideas and ideas of the Pengembara action.

METHOD

The method used in this service is by socializing between residents' homes by conveying some of the impacts of used cooking oil and how used cooking oil can be reused. Pengabdi also held a *sharing session* related to graphic design of the cadets of Klurak RW 07 Village to mobilize this action through digital posters. The observations made are by seeing firsthand how the condition of the village that we make as a place of service. Klurak RW 07 Village meets the criteria in accordance with the community service activities carried out. In addition, the service also conducted an interview which was held on June 10, 2023 with the head of RW 07 Klurak Village to confirm the service activities we carried out. The service observes the response of the community during the service. Pengabdi also collaborates with youth leaders who are active in RW 07 Klurak Village.

The steps in aksi pengembara activities is:

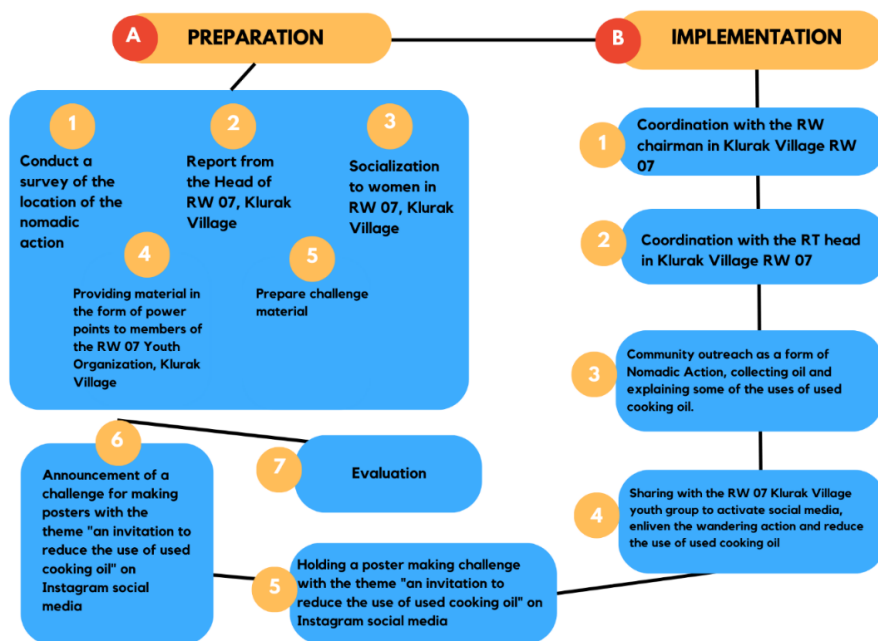


Figure 1. Aksi Pengembara Activities

Table 1. Pengembara Action Activity (Youth Initiators of Renewal)

Activities	Time
Coordination with the head of RW in Klurak Village RW 07	Monday 05 June 2023 09.00-11.00
Coordination with the head of RT in Klurak Village RW 07	Friday 09 June 2023 19.00-20.30

Activities	Time
Counseling residents as a form of Wandering Action, collecting oil and explaining some of the uses of used cooking oil.	Friday - Sunday June 30-July 2, 2023
Sharing with RW 07 cadets in Klurak Village to activate social media, enliven the actions of travelers and reduce the use of used cooking oil	Sunday 09 July 2023 18.30-20.00
Held a poster making challenge with the theme "invitation to reduce the use of used cooking oil" on Instagram social media	Monday 10 July 2023 07.00-19.00
Announcement of a poster making challenge with the theme "invitation to reduce the use of used cooking oil" on Instagram social media	Selasa 11 Juli 2023 08.00

Activity Evaluation Phase

The evaluation stage of this activity where students gave some understanding about the use of used cooking oil collection and how to manage used cooking oil so that it can be used into something that can be developed for businesses from the village.

RESULTS AND DISCUSSION

This community service activity was carried out by Klurak Village RW 07 Sidoarjo. Activities are carried out for several days. The implementation of community service is carried out by students of the University of Muhammadiyah Sidoarjo, Communication Science study program who get assignments from lecturers of CSR (*Corporate Social Responsibility*) and *Cyber Public Relations* courses. This activity started from a survey activity that aimed to determine the right solution to determine the right solution in Klurak Village in overcoming used cooking oil waste.

Based on research conducted by (Rochmaniah & Jariyah, 2018) entitled "Diffusion of Innovation of the Stepping Village Program in Kenongo Village, Tulangan District, Sidoarjo Regency" explained that there are 5 types of types of innovation adopters, as for the types of innovation adopters, namely *innovators*, *early adopters*, *early majority* and *late majority*. In this community service, service is a typical adopter of innovator innovation, *what is meant by innovator in this case is an individual who really likes change and dares to try even though he previously did not know much about the programs in Klurak Village*.

The briefing on the use of used cooking oil waste is an effort to increase public awareness of the dangers of used cooking oil waste, quoted from an interview with the Chairman of Rt 32 in Klurak Village who said that the people of Klurak Village themselves still do not know about how used cooking oil can be used as one of the useful objects and not wasted. Therefore, counseling on used cooking oil collection is very useful to be carried out in this klurak village.

The youth movement has great potential to create positive changes related to reducing used cooking oil use. With the right commitment, cooperation, and initiative, they can become agents of change that contribute to a healthier environment. As a student of communication science at the same time as a youth, the service needs to realize the role of the youth movement which is very important in reducing the use of used cooking oil through the Wandering Action which was sparked as the main idea in this activity. Here are some steps Action Nomads can take to achieve that goal:



Figure 2. Coordination and interviews with RT in Klurak Village

Pengabdi conveyed the aims and objectives to the Chairman of RW 07 for the smooth running of community service. Pengabdi delivered an introduction to the importance of Aksi Pengnomad (Youth Initiator of Renewal) which will later move to reduce the use of used cooking oil in Klurak Village RW 07. This coordination was carried out on Monday, June 5, 2023 at the residence of the chairman of RW 07 Klurak Village. At this stage, the head of RW 07 also directs the service to coordinate with the head of RT 31, 32, 33, 34. This coordination is intended as a follow-up coordination so that the movement in the Pengembara Action is faster, more precise, and on target.

The service carried out further coordination with the head of the RT in Klurak Village RW 07. This stage was carried out with assistance from the chairman of RW 07 accompanied by an official letter of duty. This is done to attract public sympathy to believe and be interested in the existence of the Pengembara Action where we serve from the Umsida Communication Science study program as a pioneer in collaboration with various elements of society in Klurak Village, especially RW 07. At this stage, the service received a positive response from the heads of RT 31, 32, 33, and 34. Because most residents have begun to care about environmental health, so this Pengembara Action is considered quite helpful and pioneers community concern for the surrounding environment. As an added value in RW 07 Klurak Village, it was also found that there were young people who were active and had a high desire to improve creative ideas. So that service is easier to achieve goals and good collaboration.



Figure 3. Citizen Counseling as a form of Wandering Action

House-to-house counseling for residents of Klurak Rw 07 village was given to increase residents' understanding of the impact of used cooking oil on health and the environment. By increasing the level of knowledge, it is expected to change the behavior of residents in used cooking oil waste management. At this stage, the devotee explains what are the dangers of using used cooking oil continuously. Devotees encourage creativity and innovation in reducing the use of used cooking oil. They can hold contests, fundraisers, or art events that focus on environmental issues and encourage people to actively participate.

Most people admit to having used used used cooking oil repeatedly when processing foodstuffs.

- Pengabdian responded by delivering environmentally friendly alternatives as a substitute for used cooking oil, such as the use of vegetable oil, olive oil, or linseed oil which are healthier and have a lower environmental impact.
- Recycling used cooking oil, at this stage the community can work with hospitals, restaurants, or waste management organizations to collect used cooking oil and process it into products such as biodiesel.
- Through Aksi Pengnomad, it is hoped that it can encourage creativity and innovation in reducing the use of used cooking oil. They can hold contests, fundraisers, or art events that focus on environmental issues and encourage people to actively participate.



Figure 4. Conducted a *sharing session* with RW 07 cadets in Klurak Village

Conducted a *sharing session* with RW 07 cadets in Klurak Village to activate social media, enliven the actions of travelers and reduce the use of used cooking oil. Community service focuses on youth actions that will have an impact that suits their generation. One of them is

through graphic design. Youth is very synonymous with freedom of expression, one of which is voicing an activity through graphic design. Youth free expression through graphic design is a positive implementation of creativity that can be found among young people. Graphic design itself is a form of visual art in which we can find the use of elements such as writing, images and interesting colors to convey a message. Freedom of expression allows youth to explore their creativity without restrictions. They can create unique, innovative, and refreshing designs that reflect their identity and outlook. With this freedom, devotees hone the creativity of RW 07 cadet reef members of Klurak Village through *sharing design classes* which will later be practiced in the *challenges* that have been prepared.

Through creative media like this, devotees hope that the message to reduce the use of used cooking oil can also arrive and be easily understood by the surrounding community. The more unique and creative the media for disseminating messages, the faster and more effective the receipt of messages from these media. Especially in the *digital* era like today, almost all youth depend on social media. Therefore, enliven the action of travelers to reduce the use of used cooking oil, service is mobilized through Instagram social media.



Figure 5. Posters that have been made by cadets related to used cooking oil

When holding a poster making challenge with the theme "invitation to reduce the use of used cooking oil" on Instagram social media. The devotees paid attention to the message on the poster delivered by the youth cadets of RW 07 Klurak Village. At this stage, the youth of RW 07 cadets

of Klurak Village posted their poster work on their respective Instagram social media. After the *sharing session*, there were 5 posters produced by members of RW 07 Klurak Village.



Figure 6. Used cooking oil collection by residents of RW 07 Klurak Village

In the period since the socialization took place precisely on June 30, 2023 to July 10, 2023, the people of RW 07 Klurak Village have been moved to collect used cooking oil little by little and reduce the intensity of used cooking oil when processing foodstuffs. The community collects used cooking oil in used bottles of beverage packaging that have been cleaned so that the content in used cooking oil does not mix with other foreign ingredients.

The service conducted a survey back to residents' homes to check the extent of the progress of used cooking oil collection in each resident's house. In a period of approximately 10 days, there have been no residents who have managed to collect 1 liter of used cooking oil. But residents have started collecting used cooking oil. Of the total residents of RW 07 Klurak Village, there are 10 houses that have collected used cooking oil.

Community service activities in RW 07 Klurak Village succeeded in changing community behavior related to used cooking oil processing. This result is in accordance with community service activities carried out by (Iskak et al., 2021) in a journal entitled "Increasing Public Awareness of the Importance of Vaccination at Masjid Al – Ikhlas, West Jakarta", namely the community becomes enthusiastic and trusts the safety of the *Covid-19* vaccine. These two activities have in common in the form of intense socialization, which is carried out continuously so as to produce a positive response and have an impact on changing community behavior.

CONCLUSIONS

The conclusion that can be drawn from the implementation of community service activities in RW 07 Klurak Village, the actions of nomads can be carried out well supported by an active and cooperative community. There is a very good cooperation between RW 07 and RT administrators and the community. And the actions of nomads can pioneer the empowerment of community members to achieve common goals through cooperation and collaboration. Through this activity, community service can increase public awareness regarding the dangers of used cooking oil for the environment. This Pengembara Action is also one of the actions that can be done long-term

if it is developed properly. The action of the Pengembara became the initial milestone of the youth of Klurak Village cadets, especially Rw 07. The youth cadets of RW 07 Klurak Village have also become more sensitive to changes and technological advances in the field of design to facilitate communication in the youth era. This can be seen from the sustainability of digital poster production produced by RW 07 cadets in Klurak Village. The service succeeded in attracting the interest of RW 07 cadet youth in the field of graphic design. It is hoped that the youth cadets of Klurak Village Rw 07 can continue this action gradually.

Changes in a healthier lifestyle and more care for the environment will create changes for the better for society and its environment. A sense of mutual care for each other must continue to be cultivated in order to create an intelligent and healthy society. Especially for those who live in urban areas, so as not to dispose of used cooking oil waste carelessly and cause pollution to the environment.

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