

## Green Collaboration for Sustainable Living: Learning, Empowerment, and Prosperity in Sukadamai village, Cikupa District, Tangerang

Sumardi Sadi

Universitas Muhammadiyah Tangerang

**Corresponding Author:** Sumardi Sadi [sumardiumt@umt.ac.id](mailto:sumardiumt@umt.ac.id)

---

### ARTICLE INFO

*Keywords* : Green Collaboration, Sustainability, Cross-Sector Cooperation, Community Empowerment, Local Economic Development

*Received* : 20 July

*Revised* : 08 August

*Accepted*: 10 September

©2024 Sadi: This is an open-access article distributed under the terms of the [Creative Commons Atribusi 4.0 Internasional](https://creativecommons.org/licenses/by/4.0/).



### ABSTRACT

Green collaboration emphasizes cross-sector cooperation for environmental, economic, and social sustainability. This article explores the "learning, empowerment, and prosperity" principle in promoting sustainable living through various initiatives in Indonesia. The study, using a qualitative and case study approach, reveals that collaboration between government, communities, and the private sector effectively enhances awareness, skills, and local economies. It also addresses the challenges and solutions in implementing green collaboration. The 2024 UMT Real Work Lecture (KKN) in Sukadamai Village, involving 22 students under Dr. Ir. Sumardi Sadi's supervision, focused on improving local life quality through green collaboration.

---

## INTRODUCTION

Sukadamai Village in Cikupa District, Tangerang Regency, has several advantages that can be an attraction and potential for the development of the region. Here are some of the advantages possessed by Sukadamai Village:

Sukadamai Village is located near the center of Cikupa District, which is one of the strategic areas in Tangerang Regency. The proximity to major roads, such as Jalan Raya Serang, facilitates transportation and accessibility to various public facilities. As part of the growing Tangerang Regency, Sukadamai Village benefits from the economic and infrastructure development around it. The existence of development projects and the development of industrial and residential estates in this area has a positive impact on the village economy.

Sukadamai Village still has a fairly large agricultural land. The existence of this land can be used for the development of the agricultural and plantation sectors, especially in supporting local food security and improving community welfare through agricultural products. Sukadamai Village has a strong community and high social solidarity. Local wisdom, such as traditional customs and culture, is still well maintained by the population. This can be a potential in the development of culture-based tourism.

Even though it is close to the city center and industrial areas, Sukadamai Village still has a relatively beautiful and comfortable environment. The existence of green land and well-organized spatial planning provides a quiet rural atmosphere, making it suitable for living. Sukadamai Village also has good human resource potential, with a large number of productive age residents. It provides opportunities for the development of education and skills training to improve the quality of the local workforce. With these various advantages, Sukadamai Village has the potential to develop further in various sectors, both economic, social, and environmental, which will improve the welfare of the local community.

Sustainability has become an important global agenda in the face of climate change, resource scarcity, and environmental degradation. One approach to achieving sustainability is through green collaboration, which combines efforts from various sectors to strike a balance between economic growth, social justice, and environmental protection (Senge, 2008). The principle of "learning, empowerment, and prosperity" is an important pillar in creating a more sustainable community, where every member of the community has the opportunity to learn and develop, be empowered through active participation, and achieve common prosperity (Robinson & Berkes, 2010).



Figure 1. Sukadamai Village, Cikupa, Tangerang Regency

Green collaboration requires synergy between governments, communities, and the private sector to develop innovative solutions that address sustainability challenges. In Indonesia, several initiatives have shown that good collaboration can lead to a more sustainable life. However, some challenges need to be addressed, such as a lack of understanding of the importance of sustainability, limited resources, and differences in interests between stakeholders (Adams & Jeanrenaud, 2008). This article aims to explore how the principle of "learning, empowerment, and prosperity" can be applied in the context of green collaboration in Indonesia.

## IMPLEMENTATION AND METHODS

This study uses a qualitative approach with a case study method. The data was obtained through in-depth interviews with stakeholders involved in green collaborative initiatives in several regions of Indonesia, such as local governments, NGOs, and local communities. In addition, this study also uses document analysis and participatory observation to identify key factors that affect the success and challenges in the implementation of green collaboration. Data analysis is carried out using thematic analysis methods to identify the main patterns and themes that emerge from the collected data.

## RESULTS AND DISCUSSION

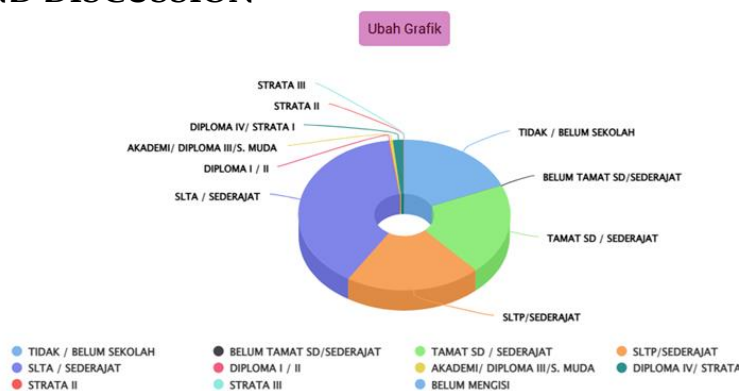


Figure 2. Statistics of Education Data in KK 2024 in Sukadamai Village, Cikupa, Tangerang

		TABEL					
No	Kelompok	Jumlah		Laki-laki		Perempuan	
		Jiwa	%	Jiwa	%	Jiwa	%
1	TIDAK / BELUM SEKOLAH	2.939	0,00%	1.552	0,00%	1.387	0,00%
3	TAMAT SD / SEDERAJAT	3.095	0,00%	1.403	0,00%	1.692	0,00%
4	SLTP/SEDERAJAT	3.252	0,00%	1.650	0,00%	1.602	0,00%
5	SLTA / SEDERAJAT	6.117	0,00%	3.501	0,00%	2.616	0,00%
6	DIPLOMA I / II	21	0,00%	9	0,00%	12	0,00%
7	AKADEMI/ DIPLOMA III/S. MUDA	83	0,00%	27	0,00%	56	0,00%
8	DIPLOMA IV/ STRATA I	246	0,00%	124	0,00%	122	0,00%
9	STRATA II	13	0,00%	11	0,00%	2	0,00%
	JUMLAH	15.766	0,00%	8.277	0,00%	7.489	0,00%
	BELUM MENGENAL	0	0,00%	0	0,00%	0	0,00%
	TOTAL	15.766	0,00%	8.277	0,00%	7.489	0,00%

Figure 3. Statistical Table of Education Data in KK 2024 in Sukadamai Village, Cikupa, Tangerang

Statistical images of education data in the 2024 Family Card (KK) in Sukadamai Village, Cikupa, Tangerang, usually we will see various indicators that reflect the level of education of the population in the village. Here are some of the elements that are usually present in education data statistics:

This data shows the number of people based on the highest level of education achieved, such as not in school, elementary school/equivalent, junior high school/equivalent, high school/equivalent, diploma, bachelor's degree, and so on. This helps to understand the distribution of education in the village. The percentage of the school-age population (7-18 years old) who are in school or not. This figure is important to find out how many children in Sukadamai Village are receiving formal education.

The percentage of the population who cannot read and write. This data is focused on the adult age group, especially those over 15 years old, to assess the success of literacy programs in villages. The number of students who are attending school at various levels of education (elementary, junior high, high school, and so on) in 2024. This gives an idea of the student population in the village. This data will show the number of children enrolled in PAUD or kindergarten. This figure is important to understand public awareness of the importance of early childhood education. This indicates the number of students who drop out of school at each level of education. This is useful for identifying educational problems faced by villagers. Information on the number of people enrolled in non-formal education, such as skills courses or other training. This shows the level of community participation in upskilling beyond formal education.

Comparison of participation rates between men and women at each level of education. This data is useful for identifying gender gaps in access to education.

The results of the study show that cross-sector collaboration involving various stakeholders can create a higher awareness of the importance of sustainability. For example, the "Waste Bank" initiative in Jakarta has successfully involved the community in waste management and recycling, which not only reduces waste but also provides economic benefits for residents (Wulandari & Setiawan, 2019). In addition, the "Energy Independent Village" program in Bali shows that local communities can be empowered by developing environmentally friendly renewable energy sources, such as biogas and solar panels (Kusumah, 2021).

**Statistik Data Pekerjaan Tahun 2024**



Graph 3. Statistics of Employment in Sukadamai Village, Cikupa District, Tangerang Regency

However, there are several challenges faced, such as lack of funding, differences in interests between stakeholders, and limited technical capacity at the community level. To address these challenges, greater efforts are needed to build capacity, raise awareness, and strengthen cooperation between sectors. In addition, stronger policy support from the government is also needed to facilitate more effective collaboration (Sachs, 2015).

The University of Muhammadiyah Tangerang (UMT) Real Work Lecture (KKN) in Sukamantri Village, Cikupa District, Tangerang Regency in 2024 with the theme Green Collaboration for Sustainable Living: Learning, Empowered, and Prosperous is a community service program carried out by students. The implementation of KKN in this village started from July 24, 2024, to August 24, 2024, attended by 22 students from various departments at UMT, for a whole month. Field Supervisor Dr. Ir. Sumardi Sadi, SPd., ST., MT. As a lecturer in Electrical Engineering and a structural official as Vice Dean 1 of the Faculty of Engineering, University of Muhammadiyah Tangerang.



Figure 4. Opening of KKN and Thanksgiving with Community Leaders  
Desa Sukadamai Kecamatan Cikupa Kabupaten Tangerang

This KKN involves several stages and focuses on various aspects of village development to local needs. Some explanations about the implementation of the 2024 UMT KKN in Sukamantri Village:

First, Planning and Coordination, namely conducting a Location Survey and Identification of Needs with the initial stage of KKN implementation starting with a location survey to understand the social, economic, educational, and health conditions of the people of Sukamantri Village. Students together with supervisors held meetings with village officials and the comm

Don't worry, you're not the only one who feels confused by the current trend. Sometimes, the world of fashion and trends can be complicated to keep up with. However, some trends are on the rise right now that can help you stay up-to-date.

One of the trends that is currently popular is the minimalist style. This trend prioritizes simplicity in the selection of clothes and accessories. Neutral colors such as white, black, and gray are dominant in this style. Simple clothing models with neat and clean cuts are the favorites of many people. Don't worry about matching colors or complicated combinations, with a minimalist style, you can look stylish easily.

In addition, the trend of "athleisure" or a combination of sportswear and casual style is very popular today. Logoded t-shirts, jogging pants, sneakers, and athletic accessories are favorite choices for everyday casual looks. You can freely combine sportswear with your everyday clothes to create a comfortable yet fashionable style.

Not only in the world of fashion, trends in the digital world and technology also have a great influence. One of them is the trend of short video content or "short video". Platforms like TikTok allow us to create and watch creative and entertaining short videos. Following and creating video trends on TikTok can be a fun way to interact with others and express yourself.

However, sometimes we also have to admit that not all trends interest or comfort us. It doesn't matter if we don't follow every trend that is trending. The most important thing is to feel confident and comfortable with what we wear or do.

So, don't feel embarrassed if you can't always keep up with current trends. It doesn't hurt to have a unique personal style and forget about everything that is trending right now. It's best to stay yourself and express it in a way that makes you feel comfortable and happy. Match the trend to your personality, and let yourself be the center of attention, not the trending trend. Unity to identify existing needs and problems. Furthermore, coordination with the Village Government, after the survey, coordination with the village head and other village officials is carried out to formulate a work program that is to the needs of the community. This work program is also adjusted to the KKN theme set by UMT.



Figure 5. Learning through game and quiz methods as well as Village Stunting Data Collection

Second, **the Implementation of the KKN Program**, namely organizing the Education and Socialization Program, where students carry out programs related to improving the quality of education, such as holding additional classes, tutoring, digital literacy training, or socialization of the importance of education. Socialization can also include health (disease prevention, nutrition, sanitation), environment (waste management, reforestation), and economy (self-employment, MSME development). Furthermore, organizing the Environmental Health and Hygiene Program, this activity includes free medicine, routine health checks, environmental cleanliness campaigns, healthy living training, and clean water sanitation training. The main focus is to increase public awareness and

practices regarding health and hygiene. Then, Local Economic Empowerment, which is an effort to improve the community's economy, KKN students can hold skills training such as handicrafts, digital marketing, household financial management, and local product development training. The goal is to encourage the people of Sukadamai Village to be more independent and creative in developing their economic potential. Lastly, Village Infrastructure Development, where students are involved in physical projects, such as the construction or repair of public facilities (village roads and playgrounds), the creation of patrol posts, and the improvement of education and health facilities.



Figure 6. Convex Glass installed at Road turns

Third, **Evaluation and Monitoring are held**, namely through Program Evaluation Every weekend or after several programs run, an evaluation is carried out to assess the effectiveness of the programs implemented. This evaluation was carried out with village officials and the community to find out the extent to which the program had a positive impact. Furthermore, students compiled daily activity reports through the web provided by LP2M FT UMT <https://kkn.umt.ac.id/> which contained achievements, obstacles, and recommendations for the sustainability of the program. This report was submitted by each student to the university and the village government as a form of accountability for the implementation of KKN.

Fourth, **Closing and Submission of Program Results**. At the end of the KKN program, on August 24, 2024, a closing ceremony was held involving all KKN participants, the village government, and the local community. This event includes presentations of the results of activities, handing over aid and physical work (such as buildings or facilities that have been made), and appreciation to the community who have participated. Furthermore, make Recommendations for Program Sustainability where students provide recommendations and submit reports in the form of digital reports to ensure that the programs that have been implemented can be sustainable and further developed by the local community.



Figure 7. Giving of Jackets, Vests, and Vandles at the 2024 KKN Recruitment Event on August 24, 2024

Fifth, **Impact and Sustainability**, namely Increasing Public Awareness Through various programs, the community is expected to gain a better understanding of the importance of education, health, hygiene, and economic skills. Furthermore, Community Empowerment where the KKN Program is expected to be able to increase the economic independence of the community through skills training and local potential development. Finally, the Improvement of Infrastructure and Public Facilities, namely the improvement of public facilities carried out during KKN to support the improvement of the quality of life of the community in Sukamantri Village.

## CONCLUSIONS AND RECOMMENDATIONS

Green collaboration is an effective strategy to achieve sustainable living, especially in developing countries such as Indonesia. The principle of "learning, empowerment, and well-being" offers a robust framework for promoting community engagement, capacity building, and improving well-being through environmentally sound practices. Despite significant challenges, collaborative initiatives involving various stakeholders have shown positive results. Greater support from governments and closer cross-sector cooperation is needed to strengthen sustainability efforts in the future. Green collaboration is an effective approach to achieving sustainable living, especially in developing countries such as Indonesia. By applying the principle of "learning, empowerment, and prosperity," the community can be actively involved in environmentally friendly development. The research shows that cross-sectoral collaboration, involving governments, communities, and the private sector, can raise awareness of the importance of sustainability, facilitate skills development, and strengthen local economies. Despite challenges such as lack of funding and divergent interests among stakeholders, the initiatives that have been implemented have shown positive results. Stronger policy support and closer cooperation between sectors will go a long way in strengthening sustainability efforts in the future.

The implementation of the 2024 UMT KKN in Sukadamai Village includes several main stages: Planning and Coordination, conducting a location survey and identifying community needs, then coordinating with the village government to formulate a work program according to local needs. Second, the implementation of the KKN Program is organizing education and socialization programs, such as additional classes, tutoring, digital literacy training, and socialization of the importance of education, as well as organizing environmental health and hygiene programs, such as free medicine, routine health checkups,

environmental cleanliness campaigns, healthy living training, and water sanitation training.

Through cross-sector collaboration involving students, village governments, and the community, the 2024 UMT KKN in Sukadamai Village has succeeded in creating a higher awareness of the importance of sustainability, improving community skills, and encouraging active participation in more sustainable village development. However, there are still several challenges such as limited resources and differences of interests between stakeholders that need to be overcome through more efforts to build capacity and strengthen cooperation.

## REFERENCES

- Adams, W. M., & Jeanrenaud, S. (2008). *\*Transition to Sustainability: Towards a Humane and Diverse World\**. Gland, Switzerland: IUCN.
- Adams, W. M., & Jeanrenaud, S. (2008). *Transition to sustainability: Towards a humane and diverse world*. Gland, Switzerland: IUCN.
- Kusumah, E. (2021). "Energi Terbarukan dan Desa Mandiri Energi di Bali." *\*Jurnal Energi Terbarukan Indonesia\**, 9(1), 45-53.
- Kusumah, E. (2021). Energi terbarukan dan desa mandiri energi di Bali. *Jurnal Energi Terbarukan Indonesia*, 9(1), 45-53.
- Robinson, J., & Berkes, F. (2010). *\*Creating Sustainable Futures: Methodologies for Community-Based Natural Resource Management\**. Vancouver, BC: UBC Press.
- Robinson, J., & Berkes, F. (2010). *Creating sustainable futures: Methodologies for community-based natural resource management*. Vancouver, BC: UBC Press.
- Sachs, J. (2015). *\*The Age of Sustainable Development\**. New York: Columbia University Press.
- Sachs, J. (2015). *The age of sustainable development*. New York: Columbia University Press.
- Senge, P. M. (2008). *\*The Necessary Revolution: How Individuals and Organizations Are Working Together to Create a Sustainable World\**. New York: Doubleday.
- Senge, P. M. (2008). *The necessary revolution: How individuals and organizations are working together to create a sustainable world*. New York: Doubleday.

Wulandari, R., & Setiawan, T. (2019). "Bank Sampah: Inisiatif Pengelolaan Sampah Berbasis Masyarakat di Jakarta." *\*Jurnal Pengelolaan Lingkungan Berkelanjutan\**, 12(3), 120-134.

Wulandari, R., & Setiawan, T. (2019). Bank sampah: Inisiatif pengelolaan sampah berbasis masyarakat di Jakarta. *Jurnal Pengelolaan Lingkungan Berkelanjutan*, 12(3), 120-134.