



The Team

CIRCLYST

For Circular Economy Indonesia

Habib M. Akbar

Universitas Diponegoro, Indonesia

Ridho R. Wiguna

Universitas Diponegoro, Indonesia

Shunya Y. Veicinlun

Universitas Diponegoro, Indonesia

Bayu A. Pratama

Universitas Diponegoro, Indonesia

Elinna P. Handayani

Universitas Diponegoro, Indonesia

Sigit P. Jatmiko

Universitas Diponegoro, Indonesia

Circular Innovation Overview

PROBLEM

- The ability of waste management is not balanced with waste production.
- 62% of UNDIP students almost never sort their waste. A total of 865 kg of litter per day is poorly sorted.

COMMITMENT

- UNDIP is committed to encourage staff and students to make extensive efforts to recycle waste to support SDG 12, Responsible Consumption and Production.
- Several programs have been carried out regularly to recycle the waste generated from campus activities. One of the programs is Dipo Waste Bank (DWB).

SOLUTION

- Contribute more on waste management by sorting the waste, especially plastics. The sorted plastic can be reproduced to be recycled things as a new product or as a raw material for other products.
- Sustainable management waste (plastic) with a **Circular Economy** concept.
- The main pinch found in the circular economy is 5R, namely **Reduce, Reuse, Recycle, Recovery and Repair**
- **Recycled Products: Merchandise UNDIP**



Project Goals

1. Processing and utilizing plastic waste into a commodity that has a selling value to create a new economic chain.
2. Applying the concept of Circular Economy to encourage environmentally friendly economic growth and reduce the environmental burden from pollution.
3. Supporting the achievement of the Sustainable Development Goals

Results



*The products above are the result of processing plastic waste

Impact

Environmental Impacts

1. Reducing the environmental burden from pollution (marine pollution, land pollution, air pollution, microplastics)
2. Environmental dan energy conservation
3. It helps protect ecosystems, wildlife, and human health
4. Reducing waste and pollution levels

Social and Economic Impacts

1. The growing awareness of UNDIP students and the community to sort their waste
2. Raise awareness of sustainability and circular economy to change UNDIP students and community behavior
3. Changing the current people's mindset of plastic packaging is not as waste, but as a commodity that has the potential to be developed into more useful goods to create a new economic chain.




Micro Grant

Overview of what we have achieved with the micro grant

Conducting sustainable waste management through a Circular Economy approach (Reduce, Reuse, Recycle, Recovery and Repair) that produces products with selling value to create a new economic chain. The resulting products are UNDIP merchandise that can be used as souvenirs in various UNDIP activities.

Lessons Learnt



Excellent planning is needed in processing and utilizing plastic waste into a commodity that has selling value, starting from the materials and tools used, as well as the characteristics of the plastic waste itself. Recognizing and understanding the characteristics of plastic waste used as the main material for making this product is very important for the success of this project.

Circular Economy is a collaborative effort, therefore the role and function of each stakeholder in the waste chain must be involved in every stage of waste management, namely the government, business / industry, academia and the community at every stage of waste management, ranging from limiting generation, recycling, reuse, to handling efforts which include sorting, collection, transportation, processing and final processing

Next Steps

1

Analyze and evaluate products that have been produced

2

Replacing product molding tools with denser materials

3

Product Development

4

Maintain and improve product quality

5

Conducting massive product promotion through various UNDIP activities and social media