Research and Community Services Policies on SDGs at Universitas Diponegoro

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Abstract. The vision of Diponegoro University is to become an excellent research university. So that many university policies lead to achieving this vision, both in developing human resources, procuring laboratory facilities and providing research funds for lecturers. With the development of sustainability issues internationally through the Sustainable Development Goals, Diponegoro University provides special policies for research and community services related to the SDGs. The policy is to encourage lecturers and students to submit research proposals with the theme of SDGs. As for community service, in the last few years the main theme of Community Service Learning (KKN) activities for students who are accompanied by lecturers is SDGs. Considering that Diponegoro University is a comprehensive university consisting of various faculties and study programs, currently most of the research is related to the 17 goals of the SDGs. Likewise, the students had no difficulty in developing SDGs-themed programs in the villages where KKN activities were held.

1 Introduction

Diponegoro University (Undip) is a university with the status of a university with a legal entity (PTNBH), is an autonomous university that has full authority in determining the direction of its policies [1, 2]. As a university with a vision of becoming an excellent research university, many policies support the achievement of the vision target [3]. Undip has a basic scientific pattern of Coastal Region Eco-development [4], not only because this university is located in the city of Semarang on the north coast of Java with various problems [5], but also considering that Indonesia is an archipelagic country so it must have strong maritime and marine-related capabilities/capacities. The problem of coastal areas is very prominent throughout Indonesia which requires special attention to overcome them [6].

To achieve its vision, Undip implements the research development policies, among others, in developing human resources, providing internal research funds. Another policy is the procurement of various laboratory equipment needed for research, as well as special incentives for outstanding lecturers related to research. The results of various policies that have been taken in recent years can be seen from the increase in scientific publications [7] and Intellectual Property Rights (IPR). The increase in publications, for example, seems very

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significant, especially indexed publications. See Figure 1. Likewise with IPR, in 2018 and 2019 Undip was the university with the most patents in Indonesia and received an award from the Ministry of Law and Human Rights

With an increased understanding of the importance of sustainability which is summarized in the 17 goals of the Sustainable Development Goals, universities have an important role in achieving these targets [8]. Even special education is needed for educational institutions regarding the SDGs [9]. In this regard, Diponegoro University has developed policies through the establishment of an SDG center which began with the establishment of Unity (Undip Initiatives for Sustainability) [10]. Currently Undip SDG Center has many activities, especially in designing programs and activities as well as preparing various documents related to the SDGs, including encouraging the improvement of sustainability research, which is currently a concern at the international level [11]. Environmental management in general, including waste, water, transportation, energy [12, 13] is also a concern of this center. These aspects are closely related to a sustainable campus [14]. Overall, this is in line with Undip's policy to create a comfortable, safe, and sustainable campus, both for students, lecturers, and other employees [15]

2 Research and Community Service at Undip

All universities in Indonesia must implement the Three Pillars of Higher Education (*Tri Dharma Perguruan Tinggi*), namely Education, Research, and Community Service. These three activities must be carried out by all lecturers. Diponegoro University also encourages all its lecturers to carry out these three activities as well as possible, and there is an assessment system through the performance of lecturers every semester.

Research activities receive special attention because they are closely related to Undip's vision. Various policies were carried out to improve performance to achieve the target of research indicators [16]. Some of these policies include 1) Improvement of Human Resources; 2) Procurement of Research Facilities; and 3) Provision of Research Funds. Increasing human resource capacity is very important for achieving research targets, such as increasing international publications, intellectual property rights, prototypes, and so on [17]. This is done through various training run by the Undip Research and Community Service Institute (RCSI), as well as by other institutions, as well as providing scholarships to young lecturers to complete doctoral education both in Indonesia and abroad. The procurement of laboratory facilities is carried out to provide the equipment needed to Undip. All study programs propose through their respective faculties, various equipment needed by their lecturers for research. Especially for this equipment, it is also allowed to propose laboratory equipment for education. As for research funds, Undip provides funds for all lecturers at Undip, both at the faculty level, and at the university through a selection carried out by RCSI. Lecturers can also still get research funds from funding sources outside Undip, for example from the central government through relevant ministries, local governments, private sector, and foreign research funds.

Community service activities are generally carried out for the application of research results in the community. This activity can be carried out by a group of lecturers, as well as through the regular or thematic Community Service Learning (KKN) program [18]. In this KKN activity, students go directly to the community accompanied by a supervisor, usually in certain villages that need help with ideas through activities as needed. The funds needed for this community service activity are provided by Undip, the central government through the relevant ministries, as well as funds from the private sector through the CSR program.

Fig. 1. Numbers of international publications from Universitas Diponegoro in international journal and proceedings in the last 10 years.

3 Research and Community Service on SDGs

Sustainable Development Goals (SDGs) with 17 targets are very comprehensive and cover all aspects of life. It is related to poverty, health, education, sanitation, energy, economy, industry, settlements, climate change, marine and land ecosystems, and so on. The SDGs target, which is a continuation of the Millennium Development Goals (MDGs) [19, 20], must be achieved in 2030, less than ten years from now. The international community through the governments of their respective countries has committed to participate in trying to achieve these targets. All institutions must support government commitments, including higher education institutions.

Undip's commitment to participate in achieving the SDGs targets is very high. This can be seen through the establishment of Unity and developing into an SDG Center with an organizational structure under the rector. It consists of experts from various faculties who are experienced in their respective fields. This institution has the task of providing input to universities in developing policies through programs and activities related to efforts to achieve the SDGs targets. Besides that, it also compiles various documents and annual SDGs Report (Annual SDGs Report), which can be accessed at sustainability@live.undip.ac.id

Undip which has 11 faculties and 2 schools, namely the Faculties of Medicine, Public Health, Psychology, Fisheries and Marine, Animal Husbandry and Agriculture, Science and Mathematics, Engineering, Law, Economics and Business, Social and Political Sciences, Humanities, and Vocational Schools and the Graduate School, reflecting the diversity of scientific fields that cover almost all aspects of the SDGs.

Most of the research activities carried out by lecturers and students so far have been related to the SDGs, although this is not stated in writing. The research activities of the lecturers are always related to their field of knowledge, which can be confirmed to be related at least to one of the 17 goals of the SDGs. This reflects that so far Undip through research activities of lecturers has led to the implementation of achieving the SDGs targets. The same thing also happened to community service activities that were in line with research activities.

Community service by lecturers from various faculties and schools is generally in their field of science. So that at least, it can be ascertained that it is related to one of the 17 goals.

However, Undip feels the need to pay special attention to increasing research and community service activities related to the SDGs, in addition to the establishment of the SDG Center. Some of these policies are: 1) Encouraging lecturers to apply for research and community service funds from Undip, specifically referring to the 17 goals of the SDGs; 2) In the future, efforts will be made to allocate research funds and special services for the SDGs; 3) Regular seminars/webinars/workshops related to SDGs are held; 4) Community Service Learning (KKN) program with the theme of SDGs; 5) Collaboration with domestic and foreign partners for research and community service activities with the theme of SDGs; 6) Development of scientific journals related to SDGs (Journal of Sustainability Perspectives, <https://ejournal2.undip.ac.id/index.php/jsp>). Through these various policies, it is expected to improve research and community service performances, especially related to achieving the 17 goals of the SDGs.

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