



SDG 6

CLEAN WATER AND SANITATION





157

PUBLICATION



0.75

CITATION IMPACT



675

CITATION COUNT

RESEARCH IN NUMBER (2019-2023)

CIKAHURIPAN: UNPAD'S CLEAN WATER INITIATIVE FOR HEALTH AND SUSTAINABILITY

Providing free drinking water on campus is an important initiative that supports student health, reduces plastic waste from single-use bottles, and promotes environmental sustainability. Universitas Padjadjaran implements SDG 6 through various initiatives and programs aimed at improving access and management of water resources and sanitation. In 2023, 16 CikaHuripan facilities were built in 14 locations, such as nine faculties and five supporting facilities, including the Unpad Central Library, commonly known as Grha Kandaga. At this location, CikaHuripan facilities are located inside and outside the building.

Clean water is a right that must be accessed by everyone. The CikaHuripan Program of Universitas Padjadjaran provides free drinking water as an initial step to address sanitation and clean water problems on campus, supporting sustainable development goals six related to access to clean water and safe sanitation for all. Gender education can help prevent and reduce incidents of this violence by building a culture of mutual respect.



14

LOCATION
OF WATER STATIONS



ANDROID-BASED E. COLI DETECTOR BY UNPAD STUDENTS GETS GOVERNMENT SUPPORT TO REALIZE SAFE SANITATION

The innovation of a smartphone-based *Escherichia coli* (E. coli) bacteria detector created by a team of students from the Faculty of Medicine, Universitas Padjadjaran, has been noticed by the Ministry of National Development Planning/Bappenas of the Republic of Indonesia. They received a special invitation to the Discussion on Innovation in Safe Drinking Water and Sanitation. The smartphone-based E. coli bacteria detector created by the FK team is easy, cheap, fast, and can be used repeatedly.

Normally, detecting E. coli takes 1 to 2 days using bacterial culture or PCR, which takes 20 minutes but can only be used once; this tool can be used many times because it is Android and Infrared-based, and it has a very fast detection time of under 5 seconds.

This innovation by students from the Faculty of Medicine received appreciation from the invited guests in the discussion. Several institutions, such as Bappenas, the Ministry of Health, AMPL, and UNICEF, want to support the development of this tool. Head of the Food Health Sub-Directorate Tutut Indra Wahyuni, SKM, M. Kes said that this detector tool, if mass-produced, would be useful in disease prevention. Meanwhile, the Director of Housing and Settlement Areas of Bappenas, Tri Dewi Virgiyanti, said that this tool has the potential to benefit many parties, such as hotels, restaurants, tourists, and street vendors. This tool will be a practical solution to ensure the safety of food consumption at various levels of society.



UNPAD INVITE STUDENTS TO CARE ABOUT WATER CONSERVATION

The KKNM Team of Universitas Padjadjaran in Tarumajaya Village, Kertasari, Bandung Regency, held a socialisation about caring for water and the environment at SDN Lembangsari, Tarumajaya Village, on July 27, 2023. Accompanied by Prof. Ida Widianingsih S.IP., M.A., Ph.D. as a field supervisor, this socialisation is one of a series of KKN-PPM activities with the topic "Community Involvement Program: Participatory Mapping of Water Resources". This activity was held to increase awareness among elementary school students about maintaining water quality by protecting the environment. In addition to socialisation, the team also conducted participatory mapping regarding water resources, water quality, land ownership, and so on as geographical information for Tarumajaya Village. Currently, the team is still collecting information and will develop it after data processing.





COMMUNITY OUTREACH : SUKAMULYA VILLAGE, HEALTHY VILLAGE OF SANITATION, CLEAN WATER AND NUTRITION

Sukamulya Village in Bandung Regency needs to improve its sanitation facilities to support public health and improve quality of life. Adequate access to sanitation is essential to prevent disease, reduce stunting rates, and create a clean and healthy environment. Sanitation improvement efforts in Sukamulya Village can also support the overall welfare of the community and contribute to sustainable development in the region.

Universitas Padjadjaran collaborates with Sukamulya Village in Bandung Regency to implement the MBKM program “Healthy Village Sanitation, Clean Water, and Nutrition”. This program includes the provision of sanitation facilities, clean water, and improving nutrition through socialisation and education activities for the community. It is hoped that this

program can create positive changes not only in terms of health, such as reducing stunting rates, but also have social impacts, environmental health, and improving community welfare. In addition, this program has the potential to become one of the drivers of the economy in the West Java region.

This program consists of several programs such as building hydroponic horticultural plant land, building fish ponds, improving public facilities for residents, and building drilled wells as a source of clean water for fish ponds. The construction of the well was based on the fact that the water quality in Sukamulya Village, especially in the river, had been polluted by industrial waste. The entire construction was funded by the Matching Fund-Kedaireka grant.

