



SUSTAINABLE
DEVELOPMENT
GOALS



HASANUDDIN
UNIVERSITY

SUSTAINABILITY

REPORT 2024

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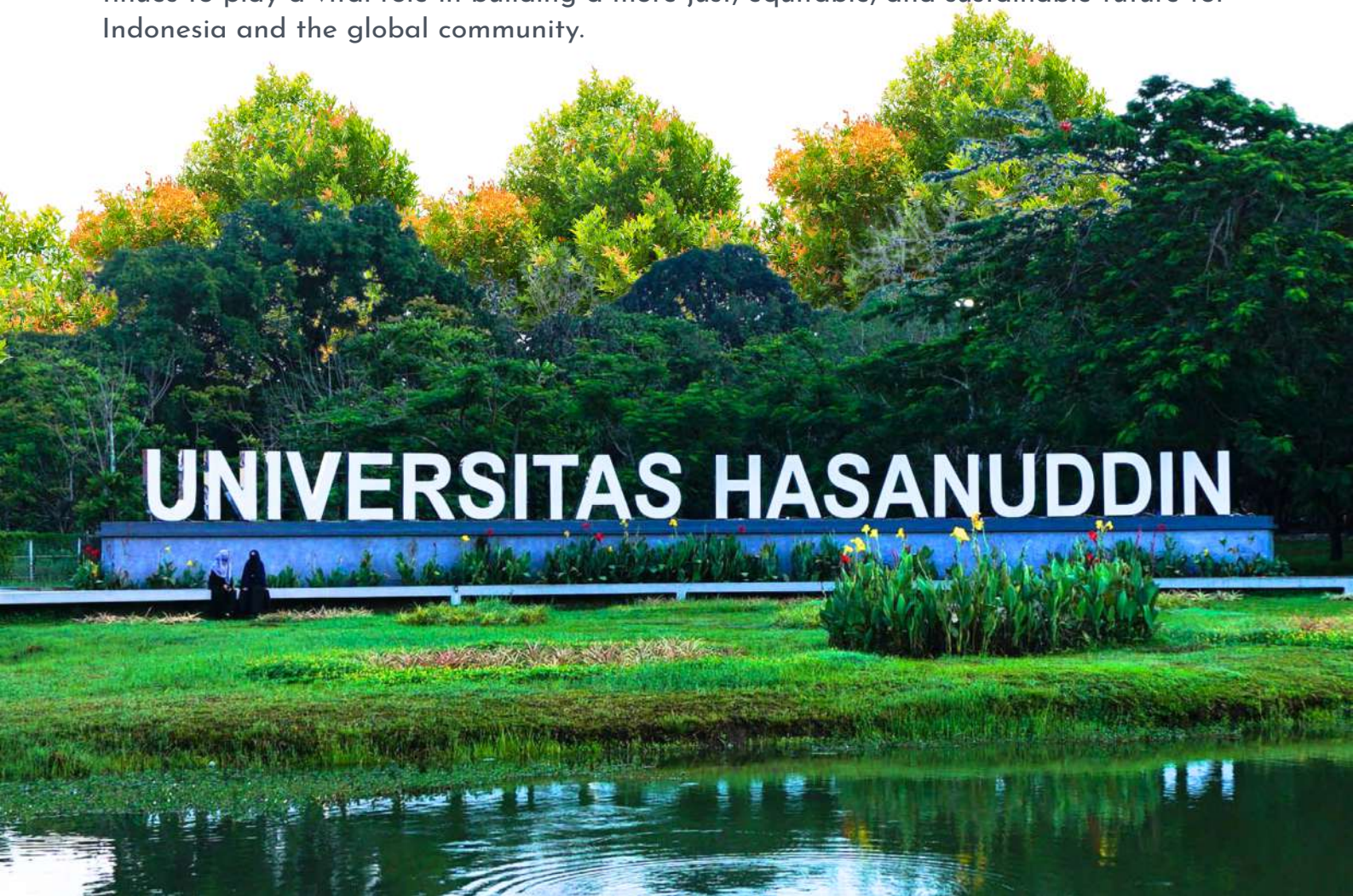


ABOUT UNHAS

Hasanuddin University (Unhas) was officially established on September 10, 1956, in Makassar, South Sulawesi, Indonesia. Since then, Unhas has grown into one of the leading public universities in Eastern Indonesia, known for its academic excellence, cultural relevance, and strong regional impact.

In line with its vision to contribute to global progress, Hasanuddin University is deeply committed to supporting the United Nations' Sustainable Development Goals (SDGs). The university integrates sustainability into its academic and research activities, as well as in its community service programs. Unhas plays a proactive role in addressing food security by supporting local farmers with agricultural innovations and post-harvest technologies, contributing directly to efforts in eradicating hunger. The university also enhances public health services through community-based medical outreach and public health research, aiming to improve health outcomes in rural and underserved areas. Environmental sustainability is also a key focus, with Unhas initiating various research projects, including the use of agricultural waste like corn cobs for water purification and an innovative approach to improving water quality and access. Furthermore, the university actively participates in climate education and environmental awareness campaigns to build resilience in the face of climate change. These efforts are strengthened through collaborative partnerships with national and international institutions, such as the National Research and Innovation Agency (BRIN), to promote evidence-based policymaking and sustainable development practices.

Through education, research, innovation, and partnerships, Hasanuddin University continues to play a vital role in building a more just, equitable, and sustainable future for Indonesia and the global community.



“

Matinulu na Temmangngi -
Hardwork and Painstaking

FOREWORD

Salamak! In Hasanuddin University, we believe that a university is not only a center of knowledge but also a driver of positive change. In a time marked by environmental degradation, social inequality, and the growing urgency of climate action, our commitment to sustainability is no longer optional—it is essential.

As one of the leading universities in eastern Indonesia, we recognize our unique responsibility to contribute solutions that are relevant, inclusive, and grounded in local realities. This year, we reaffirm our dedication to advancing sustainability across every dimension of our institution. From education and research to governance and community outreach, sustainability is not treated as a separate agenda—it is embedded into everything we do.

Our approach is anchored in the values of *Tri Dharma Perguruan Tinggi*: education, research, and community service. These pillars guide our efforts to build knowledge, generate innovation, and empower communities. Through the spirit of Humaniversity and Communiversity, we strive to ensure that the impact of our academic community extends beyond the campus—touching lives, inspiring change, and addressing real-world challenges wherever they exist.

In 2025, Hasanuddin University is deepening its collaboration with stakeholders at all levels—government institutions, industry partners, civil society organizations, and global academic networks. These partnerships are critical in our pursuit of the Sustainable Development Goals (SDGs), as they foster the collective action needed to solve complex and interconnected problems.

This Sustainability Report reflects our progress, challenges, and ongoing commitments. It is more than a record of activities—it is a statement of purpose. We aim to contribute to a more just, equitable, and resilient future for Indonesia and the world.

We invite our partners, peers, and communities to join us in this journey. Together, we can build a future that honors both people and the planet.

Prof. Dr. Ir. Jamaluddin Jompa, M.Sc
Rector of Hasanuddin University



CHAPTER 1: **UNHAS in Numbers**





4 QUALITY EDUCATION



5 GENDER EQUALITY



10 REDUCED INEQUALITIES



17 PARTNERSHIPS FOR THE GOALS



Student Population Total:

40.287

across undergraduate, postgraduate, vocational, and professional education programs.

♀ 25.231

♂ 15.056

Beyond gender equity, Hasanuddin University's commitment to academic excellence is further underscored by its remarkable student retention rate of 99.52%. This rate represents the proportion of first-year undergraduate students who continue into their second year, indicating a strong commitment to supporting students during their transition into higher education. High retention ensures inclusive and equitable quality education and promotes lifelong learning opportunities.

56.52% of students completed their study programs within the expected timeframe. This demonstrates the university's efforts to address academic and financial challenges and create a supportive learning environment.

31.88% of the students enrolled at Hasanuddin University are classified as first-generation learners. These students are the first in their families to pursue higher education, marking a significant contribution to educational access and participation across broader social groups. The representation of first-generation students signifies its role in promoting inclusive access to education, fostering upward social mobility, and contributing to the broader democratisation of higher education in Indonesia.



Inclusive and Diverse Academic Staff:

2.794

Hasanuddin University employed a total of 2,794 academic staff members, which included 1,637 civil servants, 254 permanent staff, and 419 non-permanent staff. Among these, 506 individuals hold the title of professor. To further enhance the quality of teaching and research, the university has engaged 484 foreign academic staff members from countries such as the United Kingdom, the Netherlands, Saudi Arabia, Turkey, Australia, Japan, Malaysia, Thailand, and Vietnam.

The inclusion of foreign academic staff from diverse nations has enriched the university's global perspective and fostered international collaboration in teaching and research initiatives. In terms of gender distribution, the academic staff at Hasanuddin University exhibits a slight imbalance, with 57% female and 43% male representation. This information underscores the university's progress towards gender equality in academia, as women constitute the majority of the academic staff





4 QUALITY EDUCATION

5 GENDER EQUALITY

10 REDUCED INEQUALITIES

17 PARTNERSHIPS FOR THE GOALS



CHAPTER 2 :

Teaching Facilities and Infrastructure





10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



14 LIFE BELOW WATER



17 PARTNERSHIPS FOR THE GOALS



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE





Advancing Sustainable Community Empowerment through Rural Development “Bina Desa” Programs

Bina Desa or Village Development is a program aimed at empowering rural communities through direct engagement, education, and sustainable development initiatives. In Hasanuddin University, this program serves as a means for students and academics to actively contribute to community development by applying their knowledge and skills to real-life challenges faced by local communities.

This initiative reflects Hasanuddin University’s broader commitment to advancing the Sustainable Development Goals (SDGs) through community-based programs, research, and partnerships that promote inclusive and sustainable development across various sectors.

Promoting Awareness of Oral and Dental Health

at the Elementary School of Bontomaero 2, Maccini Baji, and Gowa Regency

in 2024, the Faculty of Dentistry conducted educational activities at the Elementary School of Bontomaero 2, Maccini Baji, and Gowa Regency, with a focus on dental and oral health maintenance. The program included communal toothbrushing activity and topical application of fluoride to 200 elementary school students. This initiative aimed to raise awareness of oral and dental health from an early age and was oriented towards achieving sustainable preventive dentistry.

Conducting counseling to prevent sexual violence in children

Village, Cenrana, Maros Regency

The Faculty of Law at Hasanuddin University conducted legal counseling on the prevention of sexual violence against children as a vulnerable group in Temmapadaue Village, Marusu District, Maros Regency. The community attendees included approximately 50 individuals from youth groups, village officials, and the Family Welfare and Empowerment Group of Temmapadduae Village as well as the general community.

Encouraging local capacity and entrepreneurship in the diversification of mushroom products

Temmapaduae village, Marusu, Maros regency

The Forestry Engineering Study Program of the Faculty of Forestry, Hasanuddin University held a community service activity with the theme 'Mushroom Product Diversification'. This initiative aimed to facilitate knowledge transfer and instruct the Kappang Village community in processing oyster mushrooms into various high-quality products with significant market value. The Forestry Engineering Study Program supported the Creative Rimba Group in producing diverse mushroom-based products, including meatballs, nuggets, and chips, all composed entirely of mushrooms without the inclusion of meat or other additives.

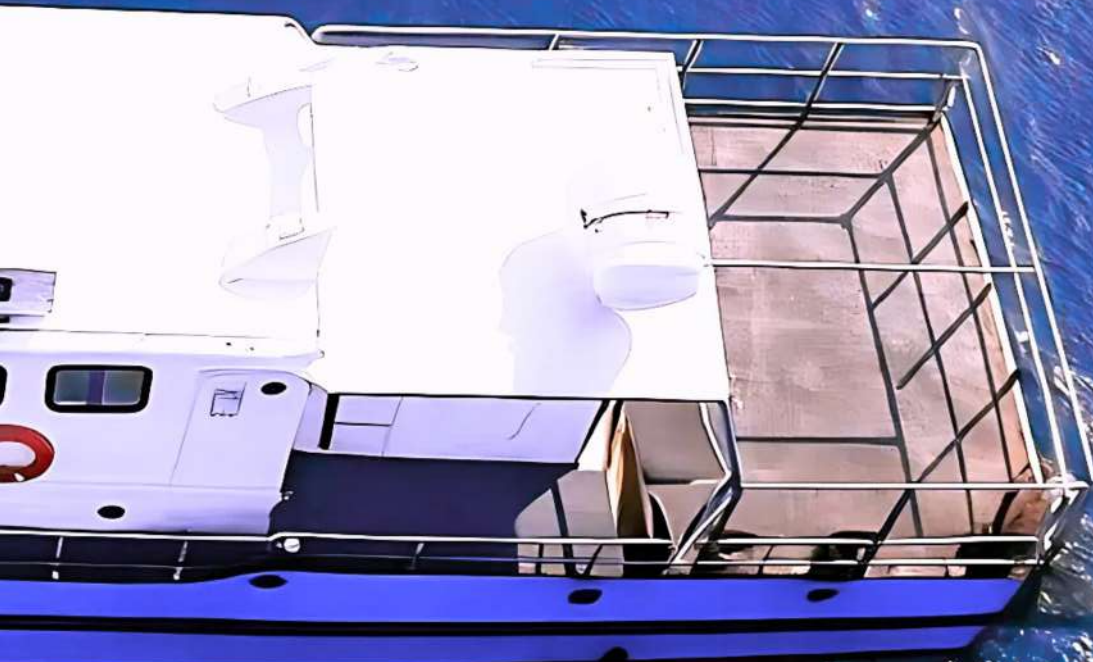




Unhas Explorer Vessel Supports the Development of Indonesia's Marine Research Sector

The Unhas Explorer is one of Hasanuddin University's strategic innovations, introduced to support the activities of its Thematic Research Group (TRG), particularly in the field of marine studies. This mobile research facility is designed to address the challenges of exploring and sustainably utilizing marine resources. Its presence reflects Unhas's strong commitment to advancing the role of academia in research, education, and community service, especially for coastal and maritime communities.

Equipped with modern technology and marine research instruments, the Unhas Explorer enables more effective monitoring of aquatic ecosystems. The vessel also supports the



development of ocean data-based innovations, which are crucial for coastal zone management, marine biodiversity conservation, and mitigating the impacts of climate change on Indonesia's waters.

More than just a research platform, the Unhas Explorer serves as a symbol of collaboration between academia, government, and local communities in driving marine transformation in Indonesia. By facilitating cross-sectoral research and connecting scientific knowledge with the real needs of coastal populations, the vessel acts as a catalyst for inclusive, sustainable, and locally-driven maritime development



Unhas Unveils Inclusive Park

Hasanuddin University officially inaugurated the *Jalinan Jiwa* (JJ) Inclusive Park as a tangible expression of its commitment to inclusivity and care for individuals with disabilities. The inauguration coincided with the one-year anniversary of the establishment of the Unhas Disability Center and took place at the JJ Inclusive Park on Thursday, June 26.

The presence of this park not only provides a disability-friendly space for interaction, but also stands as a symbol of solidarity and social awareness growing within the campus community. The inauguration of JJ Park drew significant attention from both the academic community and the general public, highlighting the importance of inclusive public spaces that embrace diversity.

With the opening of JJ Park, Hasanuddin University reaffirms its role as a leading institution in promoting awareness and concrete action on disability-related issues. The park represents a strong starting point in building an equitable higher education ecosystem—one where every individual has equal opportunities to grow and thrive.

This initiative reflects core values of humanity, diversity, and respect for human rights, while strengthening Unhas' position as a pioneer of inclusivity within the national higher education landscape.





Unhas and West Sulawesi Join Forces: New Hope for Balabalakang's Sea Turtles

This research initiative, titled the "Establishment of Salissingan Island Marine Protected Area through Local Community Engagements in Coral Reef and Seagrass Ecosystems Management for Marine Turtles Conservation," began in February 2021 and concluded on February 29, 2024.

The project successfully utilized a grant from Mubadala Petroleum through the Mohamed bin Zayed Foundation Ltd (MBZ), with additional support from the West Sulawesi provincial government. Its main objective was to rehabilitate marine ecosystems—particularly coral reefs and seagrass beds—as vital habitats for various species of sea turtles in the Balabalakang Islands.

The Faculty of Marine Science and Fisheries carried out the official handover of the Sea Turtle Habitat Conservation Sustainability Program in the Balabalakang Islands, West Sulawesi. The initiative was formally transferred from the FIKP's Marine Plastic Research Group (MPRG) to the West Sulawesi Provincial Office of Marine Affairs and Fisheries.



Expanding Sustainable Education Access Through the Establishment of Unhas Campus in Jakarta

As part of Hasanuddin University's ongoing commitment to supporting sustainable development—particularly in the social pillar through improved access to education—Unhas has officially held a soft launching for the opening of Unhas Campus in Jakarta. This strategic initiative marks a concrete step in expanding access to inclusive and equitable higher education services.

The establishment of Unhas Campus in Jakarta not only responds to the growing interest in postgraduate education but also brings educational services closer to communities and alumni in Jakarta and surrounding areas. Unhas recognizes the importance of accessible, high-quality education as part of its contribution to the Sustainable Development Goals (SDGs), particularly Goal 4: Quality Education.

Through this initiative, Hasanuddin University strengthens its commitment to expanding equitable, affordable access to higher education, transcending

geographical boundaries so more individuals can pursue academic opportunities. Leveraging its alumni and stakeholder networks in Jakarta, Unhas fosters a collaborative, adaptive, and sustainable educational ecosystem that supports long-term academic and professional growth.

This move also opens pathways for capacity and skill development, especially for prospective postgraduate students who previously faced challenges due to distance or limited access. It is part of Unhas' broader strategy to promote equitable education distribution and interregional connectivity, while contributing to the development of quality human resources at the national level. With the presence of the PSDKU in Jakarta, Unhas aims to deliver sustainable impacts to the wider community and reinforce its role as a responsive, future ready institution.



Commemorating International Women's Day, Unhas Hosts Seminar on Inclusivity and Gender Equality



Hasanuddin University, through its Research and Development Center for Population and Gender Studies, in collaboration with the Australian Consulate General in Makassar, the Australia Alumni Association of South Sulawesi, and the Organization for Women in Science for the Developing World - Indonesia National Chapter, held a seminar titled "Women's Roles in Business and Inclusivity."

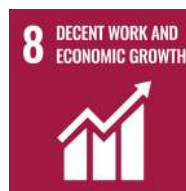
Unhas recognizes the growing need to raise awareness about the importance of inclusivity and gender equality across all levels of society. In today's evolving world, diversity and inclusivity are increasingly seen as key drivers in building sustainable businesses and fostering a just and equitable society.

Collaboration Agreement Between Unhas and the Organization for Women in Science for the Developing World (OWSD)



Hasanuddin University and the Organization for Women in Science for the Developing World (OWSD) - Indonesia National Chapter have officially agreed to establish a partnership. This agreement was formalized through the signing of a Memorandum of Understanding (MoU). This collaboration is expected to not only strengthen the university's Tri Dharma (three pillars of higher education: education, research, and community service) but also contribute significantly to the advancement of science and the empowerment of women in STEM fields across Indonesia.

OWSD is the first international forum that brings together leading women scientists from both developing and developed countries, with the goal of strengthening their roles in the development process and increasing their representation in scientific and technological leadership. OWSD provides research training, career development, and networking opportunities for women scientists in developing countries at various stages of their careers.





Dengue Alert: Unhas Conducts Fogging Efforts

As a precautionary measure against the potential outbreak of Dengue Fever, Hasanuddin University, through the Sub Directorate of Occupational Health, Safety, and Welfare under the Directorate of Human Resources, performed fogging (insecticide spraying) at the Unhas Faculty Housing Complex in Tamalanrea. This proactive step was taken to reduce the risk of disease transmission caused by the growing mosquito population, particularly in response to the threat of Dengue Fever. The health and well-being of students, staff, and the campus community remain a top priority for Unhas. This initiative is also expected to raise awareness about the importance of disease prevention and maintaining a clean, healthy environment.



Unhas FKM Students Provide Sanitation Education to the Community of Pangkep

Students from the Faculty of Public Health at conducted a Total Community-Based Sanitation education activity in Balleangin Village, Pangkep Regency. This activity is part of community service efforts aimed at improving environmental health quality through a participatory approach. During the event, the students presented material on the five pillars of Total Community-Based Sanitation, which include stopping open defecation, handwashing with soap, managing household drinking water and food, managing household waste, and managing household liquid waste.

In addition to explaining the basic concepts of the five pillars of STBM, the students also provided further education on the importance of having safe septic tanks and proper household wastewater drainage systems. This understanding is crucial for the community to adopt clean and healthy living habits and prevent environmental pollution. With this knowledge, the community is expected to be able to make behavioural changes that support the creation of a clean, healthy, and sustainable environment.

As part of the educational activities, a demonstration of the construction of a simple wastewater management system was also conducted at the Balleangin Village Office. This demonstration aimed to provide the community with a practical and applicable understanding of how to build and manage domestic wastewater treatment facilities at an affordable cost.





CHAPTER 3 :

Institution to Support

SDGs



Department of International Relations at Unhas and JICA Initiate Academic Collaboration

The Department of International Relations, Faculty of Social and Political Sciences welcomed representatives from the Japan International Cooperation Agency (JICA) Indonesia Office to discuss potential educational partnerships. The visit, led by Naomi Jimbo (Senior Representative), Tetsuya Kuwata (Project Formulation Adviser), and Nazalia Kurnia Dewi (Program Officer), focused on enhancing academic quality and expanding international cooperation. Key points included agreements on student and lecturer mobility programs, aimed at fostering academic exchange between Unhas and partner institutions in Japan. JICA also expressed support for the *Merdeka Belajar Kampus Merdeka* (MBKM) program, including plans to involve practitioners in teaching at the department. Additionally, both parties agreed to hold a cultural exhibition to promote mutual understanding and cross-cultural exchange between Indonesia and Japan.

INTERNATIONAL PARTNERSHIPS As of July 2024



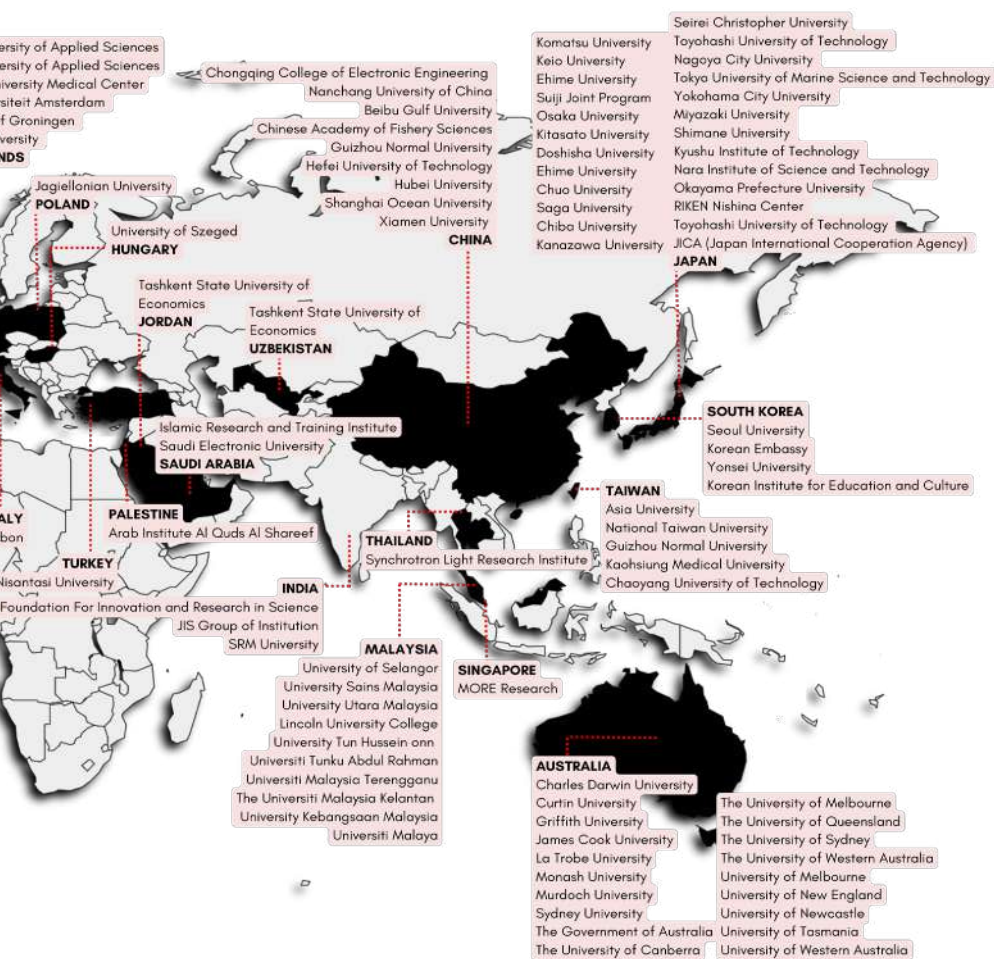
IN TOTAL 171 PARTNERS
FROM 25 COUNTRIES



JICA-CBEST Collaboration with Unhas Faculty of Engineering Officially Concludes

The long-term collaboration between JICA and the Faculty of Engineering at Hasanuddin University, known as C-BEST (Capacity Building in Engineering, Science, and Technology), has officially come to a close. Initiated in 2015, the partnership was marked by a final courtesy call to reflect on the project's achievements over five years and to discuss future cooperation opportunities. Dean of the Faculty of Engineering, Prof. Dr. Ir. Muhammad Arsyad, M.T., highlighted key outcomes such as international conferences, Innovation Week, and joint research initiatives. JICA's support was instrumental in strengthening the faculty's research and academic capacity in engineering and technology. Despite the formal conclusion of the program, the Faculty expressed interest in continuing collaboration—particularly in the development of a Science Techno Park (STP) initiative. C-BEST activities included research grants, national and international seminars, scholarships for graduate and doctoral programs, and training on managing the Center of Technology (COT).

PARTNERSHIPS



Unhas Explores Fish Hatchery Potential in Technical Seminar

The Natural Resources Research and Development Center of The Unhas Research and Community Service Institute held a technical seminar on fish hatcheries in collaboration with the Makassar City Fisheries and Agriculture Office. The event aimed to explore hatchery management as a strategy to improve food security and community welfare in the fisheries sector. The event emphasized that efficient hatchery management can significantly contribute to food resilience.

Moreover, the seminar highlighted the strategic role of Unhas-local government collaboration in supporting sustainable aquaculture. The seminar also covered key technical aspects—from species selection and water management to new breeding technologies—while stressing the need for training fish farmers to maximize hatchery benefits.

Unhas and PT Vale Discuss Sustainable Marine Spatial Planning

The Natural Resources Research and Development Center of The Unhas Research and Community Service Institute held a coordination meeting with PT Vale Indonesia to develop a framework for sustainable marine spatial planning. The collaboration, which began in September and will run through December, aims to guide responsible use of marine resources.

The discussion covered mapping of marine use zones, environmental impacts, and local community involvement. PT Vale also reaffirmed its commitment to adopting eco-friendly technologies in its marine operations.





Unhas Sparks Transformative Dialogue on Gender Equality and Diversity in Indonesia

The Center for Population and Gender Studies, in partnership with The Research and Community Service Institute of Hasanuddin University, hosted a book launch and discussion for “Gender Equality and Diversity in Indonesia: Identifying Progress and Challenges.”

The event, held at the The Research and Community Service Institute of Hasanuddin University Hall, brought together academics and practitioners to reflect on key achievements and ongoing obstacles in promoting gender equality and embracing diversity in Indonesia. Prof. Dr. Muh. Nasrum Massi, Head of The Institute for Research and Community Services of Unhas, opened the discussion by stressing the importance of universities in addressing social challenges and supporting inclusive development. The book and event served as a timely reminder of the need for collaborative efforts in making gender equality a central part of sustainable growth.



Unhas and BRIN Discuss Strengthening National Science and Technology Data Surveys

Research Centers for Population & Gender and Development Policy of The Unhas Research and Community Service Institute, held a strategic discussion with the National Research and Innovation Agency on strengthening baseline data surveys for science and technology development in Indonesia. Attended by researchers, lecturers, and BRIN representatives, the session focused on refining survey methodologies, improving data accuracy, and promoting evidence-based policymaking in science and technology sectors.

Dr. Irma Andriani, the Head of the Population and Gender Research Center, emphasized the importance of valid, comprehensive data for effective policy design. She expressed hope that the discussion would contribute meaningfully to national efforts in advancing science and technology through better data systems.



Unhas Drives Innovation and Collaboration at National Disaster Risk

The Research and Community Service Institute of Hasanuddin University took part in a collaborative webinar entitled "Reflections and Resolutions for Disaster Risk Reduction." The event served as a space to evaluate past disaster responses and plan future strategies. Indonesia, which is geographically vulnerable to various disaster threats such as earthquakes, tsunamis, and hydrometeorological disasters due to climate change, requires strategic steps and strong collaboration.

The importance of research-based innovation and cross-institutional collaboration in strengthening disas-

ter mitigation efforts. The webinar, involving institutions like ITS, UNS, BNPB, and UNDIP, highlighted shared insights on tackling natural disasters and climate-related risks. Unhas's active role reflects its ongoing commitment to community resilience and sustainable development. This webinar is expected to be a concrete step in building a more resilient Indonesian society to face the challenges of future disasters.



From Policy to Practice: Unhas Leads Multi-Level Disaster Risk Discussions

The Research and Community Service Institute of Hasanuddin University took part in a collaborative webinar titled “Reflections and Resolutions for Disaster Risk Reduction” on December 31, 2024. The event served as a space to evaluate past disaster responses and plan future strategies. Ilham Alimuddin, Ph.D., Head of the Disaster Research Center at Unhas, stressed the importance of research-based innovation and cross-institutional collaboration in strengthening disaster mitigation efforts.

The webinar, involving institutions like ITS, UNS, BNPB, and UNDIP, highlighted shared insights on tackling natural disasters and climate-related risks. Unhas’s active role reflects its ongoing

commitment to community resilience and sustainable development.

In parallel, the Disaster Study Center of The Research and Community Service Institute of Hasanuddin University also held a focused group discussion on recent floods in South Sulawesi. The discussion involved experts, government officials, and NGOs in evaluating the causes and consequences of urban flooding in Makassar. This initiative aimed to generate practical solutions and reinforce collaborative disaster management efforts at the local level.



Breathing New Life into Water Hyacinths through Crafts

In celebration of the 68th Anniversary of Hasanuddin University, the Directorate of Innovation and Intellectual Property presented an impressive exhibition of handcrafted products made from water hyacinth - an aquatic plant often regarded as a nuisance. This creative initiative exemplifies how waste can be transformed into high-value items, thereby supporting sustainable development practices.

Water hyacinth, typically known for its disruptive impact on aquatic ecosystems, was creatively reimaged into both functional and artistic crafts.

To enhance the skills of local artisans, Unhas welcomed Mr. Sumino, a lecturer and crafts expert from Institut Seni Indonesia (ISI) Yogyakarta. He conducted a six-day intensive workshop which engaged alums, students, and startups based at Unhas.





12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER





Unhas Empowers Cocoa Farmers in Enrekang and Wajo to Support SDGs through Improved Harvest Practices

Hasanuddin University continues to play an active role in supporting sustainable development through various collaborative programs. One such initiative is the Technology Transfer and Post-Harvest Assistance for Cocoa Farmers, conducted in the cocoa-rich regions of Enrekang and Wajo in South Sulawesi.

Under the leadership of Professor Abu Bakar Tawali, the program seeks to improve farmers' knowledge and skills in various essential areas, including identifying ripe cocoa pods, mastering harvesting techniques, and sorting fruits and beans. Additionally, the program covers fermentation and drying methods, all of which are crucial for enhancing the quality and market value of cocoa beans.

As part of this innovative approach, the team has introduced a fermentation starter to expedite the fermentation process and ensure consistent quality.

The fermented and dried cocoa beans can undergo further processing to yield various intermediate products, including cocoa nibs, cocoa liquor, cocoa butter, and cocoa powder. These products can ultimately be transformed into finished chocolate items, ready for consumer enjoyment.

The activities were conducted in:

Taulo Village, Alla District, Enrekang Regency, involving 31 farmers from three farmer groups.

Tobatang Village, Pammana District, Wajo Regency, involving 32 farmers from nine farmer groups.

The program receives support from the Provincial Office of Food Crops, Horticulture, and Plantations, in conjunction with local agricultural departments. Furthermore, six students from the Faculty of Agriculture at Unhas engaged in field activities as part of the Merdeka Belajar Kampus Merdeka (MBKM) initiative, which reinforces the university's dedication to community empowerment and hands-on learning.



Conducts Workshop on Innovative Solutions for Improving Drinking Water Quality

Hasanuddin University held a workshop on healthy drinking water innovation, organized by the Directorate of Innovation and Intellectual Property. The event focused on developing safe, sustainable solutions to improve access to clean drinking water.

Inaugurated by Dr. Asmi Citra Malina, the workshop highlighted the importance of collaboration between academic institutions and industry partners. Expert speakers shared insights on water quality, health standards, and technological advancements in water purification.

This initiative reflects the university's ongoing commitment to promoting public health, encouraging innovation, and strengthening cross-sector collaboration to address pressing environmental and social challenges.



Develop Advanced Drone Technology for Agricultural Revolution Preparing to convene an important

Hasanuddin University is preparing to convene an important meeting to sign a cooperation agreement with PT. Inomar, focusing on the advancement of drone innovation in the agricultural sector. This collaboration aims to design and implement drone technology that will enhance the efficiency and productivity of agriculture in Indonesia through land monitoring, precision fertilization, and environmentally friendly crop surveillance. Beyond technological advancements, the partnership is committed to strengthening human resource capacity through joint research, training programs, and the development of sustainable technologies.

The signing of the agreement attended by notable figures, all parties involved have demonstrated a strong commitment to advancing sustainable and competitive agricultural technology. This collaboration is expected to foster innovative solutions that will enhance agrarian productivity and contribute to national food security.



Unhas Student Innovation: Transforming Corn Cob Waste into an Effective Water Purification Solution

Students from Hasanuddin University have developed an innovative water filtration solution by utilizing corn cob waste, aiming to reduce water pollution in the Minum Dormitory, located in Makassar's Mamajang District. Corn cobs, which are often discarded or burned by local farmers, are repurposed in this initiative as a natural and effective adsorbent material for improving water quality.

This student-led project demonstrates a sustainable approach to addressing environmental and public health challenges through the creative use of agricultural by-products. Beyond its technical

innovation, the initiative empowers the local community by increasing access to cleaner water using low-cost, locally sourced materials.

The head of the dormitory expressed appreciation for the initiative and highlighted its potential to be adopted more broadly as a practical solution for everyday water needs.





Unhas Strengthens Global Education Access Through Endowment & Unhas Presidential Scholarship

Hasanuddin University demonstrates its commitment to expanding global education outreach through the UNHAS LEADS Scholarship. This partial scholarship program is specifically designed for prospective students from developing countries. Through this scheme, international students receive full exemption from development fees and a tuition fee reduction. Launched in 2024, the program welcomed 21 students from various developing nations who are now part of Unhas' international academic community.

In addition to the LEADS Scholarship, Unhas also offers the UNHAS PRESIDENTIAL Scholarship, which focuses on the Master and Doctor by Research programs. These research-based programs require students to participate in orientation sessions, attend regular

academic seminars, conduct and present their theses, and publish scientific articles in Scopus- or WoS-indexed journals and proceedings.

The program aims to foster high-impact research, support innovation, enhance academic and professional career development, and promote collaboration with leading researchers and institutions at both national and international levels. In its inaugural year, eight students were awarded this prestigious educational support.

4 QUALITY EDUCATION



10 REDUCED INEQUALITIES



17 PARTNERSHIPS FOR THE GOALS



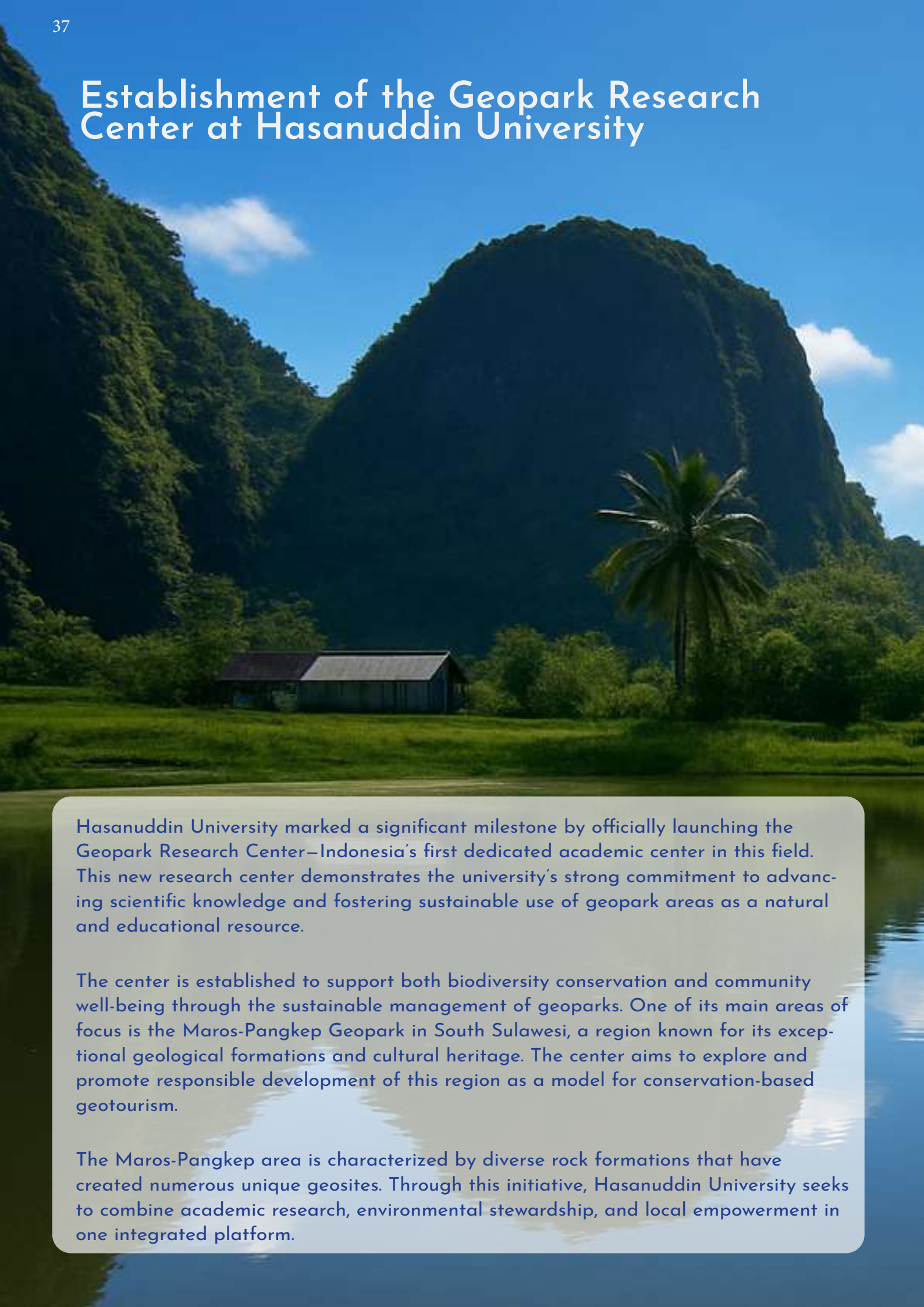
Strengthening Interdisciplinary Research through the Establishment of Thematic Research Groups at Hasanuddin University

To enhance the quality, relevance, and impact of academic research, Hasanuddin University has initiated the establishment of Thematic Research Groups (TRGs). These groups are envisioned as interdisciplinary platforms that bring together researchers from diverse academic backgrounds to collaboratively address complex societal and environmental challenges. By focusing on strategic themes—ranging from climate change, marine and coastal ecosystems, food and health security, to social resilience and governance—TRGs aim to produce knowledge that is not only academically rigorous but also directly contributes to the achievement of the Sustainable Development Goals (SDGs). This initiative reflects the university's commitment to fostering a research culture that is collaborative, innovative, and solution-oriented.

To ensure the sustainability and institutional development of each TRG, the university provides dedicated seed funding and internal research grants. These resources are intended to support the formation, planning, and early-stage implementation of research agendas, while also encouraging long-term collaboration and capacity building among members. Through this support, Hasanuddin University seeks to strengthen the internal ecosystem of research, improve coordination among faculties and research centers, and promote impactful outputs that benefit both local communities and broader global discourses on sustainability.



Establishment of the Geopark Research Center at Hasanuddin University



Hasanuddin University marked a significant milestone by officially launching the Geopark Research Center—Indonesia’s first dedicated academic center in this field. This new research center demonstrates the university’s strong commitment to advancing scientific knowledge and fostering sustainable use of geopark areas as a natural and educational resource.

The center is established to support both biodiversity conservation and community well-being through the sustainable management of geoparks. One of its main areas of focus is the Maros-Pangkep Geopark in South Sulawesi, a region known for its exceptional geological formations and cultural heritage. The center aims to explore and promote responsible development of this region as a model for conservation-based geotourism.

The Maros-Pangkep area is characterized by diverse rock formations that have created numerous unique geosites. Through this initiative, Hasanuddin University seeks to combine academic research, environmental stewardship, and local empowerment in one integrated platform.



4 QUALITY EDUCATION

8 DECENT WORK AND ECONOMIC GROWTH

11 SUSTAINABLE CITIES AND COMMUNITIES

15 LIFE ON LAND



Empowering Rural Women through Smart Agriculture and Renewable Energy Innovation

The Society of Renewable Energy (SRE) of Hasanuddin University launched and delivered training on automated irrigation and solar-powered aeroponic systems for 25 women farmers in Sokkolia Village, Gowa. This program was named AQUA4DESA, supported by CV Surya Muda Mandiri and funded by Telkom Indonesia. This initiative equips local farmers to adopt smart and sustainable technologies.

Under the mentorship, the AQUA4DESA project introduced an IoT-based rainwater capture system that controls sprinkler irrigation for oyster mushroom cultivation. The system not only maintains optimal humidity and temperature but also sends real-time notifications via smartphone. Additionally, integration with 800-hole solar-powered aeroponic units supports diversified crop production with a 3-4 month harvest cycle.

Local leaders, including the Head of Village Consultative Board, praised the initiative and urged continuous engagement to ensure effective adoption of these technologies. The SRE team concluded the program by handover of standard operational procedures and on-site demonstrations, with implementation running through mid-February 2024. The goal is to accelerate income growth, improve efficiency, and strengthen women farmers' entrepreneurial capacity.



Innovative Waste Management through Student-Led Plastic Recycling

Hasanuddin University students participating in the Community Service Program launched a creative economy development project in Bontotiro Village, Rumbia District, Jeneponto Regency. During a work program seminar, the students introduced one of their key innovations: producing paving blocks made from recycled plastic waste.

This initiative emerged from the growing issue of unmanaged plastic waste in the village. Prior to the project, the students conducted field surveys and environmental assessments, which revealed that plastic waste disposal practices in the area were lacking. In response, the team designed a program that offers both an environmentally friendly and economically viable solution through the production of paving blocks using recycled plastic.

By applying appropriate technology and a carefully controlled production process, the students successfully created durable, high-quality paving blocks that meet construction standards. Beyond providing a functional building material, the project also serves as a model for innovative waste reuse. It empowers the local community to see waste not as a burden, but as a valuable resource for sustainable development and local enterprise.





Enhancing Energy Literacy among High School Students

The Community Engagement Team of Hasanuddin University organized an energy security awareness program for high school students in Biringkanaya District. The activity took place at Senior High School 22 Pajjaiyang, Makassar, and was attended by over 150 students along with the school principal, and subject teachers.

The program received a positive response from both the school leadership and students. The school principal emphasized that energy issues are fundamental to national development and that early education on these matters is essential. The event included a dialogic lecture, followed by assessments to gauge student understanding.



Advancing Green Technology and Sustainability through International Scientific Exchange

Hasanuddin University held the 3rd International Conference on Environment and Sustainable Development under the theme "The Green Technology Framework on Environmental Science and Policy." The event brought together invited speakers and participants from multiple countries to explore the role of green technology in addressing environmental challenges and supporting sustainable development.

The conference served as a timely response to growing environmental concerns and the urgent need for innovative solutions. A total of 262 participants attended the conference, with 244 papers submitted and 218 selected for presentation across eight key themes: Green Agriculture, Biodiversity and Natural Resources, Biotechnology, Health Sciences, Green Engineering, Renewable Energy, Environmental Risk Assessment, and Social Sciences and Humanities. The conference successfully provided opportunities for researchers and students to engage in meaningful discussions, share their findings, and explore new partnerships in advancing environmentally conscious science and innovation.





Community Outreach on Stunting Prevention and Nutrition Synergy in Maros

Doctoral students from the Faculty of Public Health of Hasanuddin University carried out a community engagement program focused on stunting prevention through education and nutrition synergy. The activities took place at the Baju Bodoa Community Health Center in Maros Baru District, targeting pregnant women and toddlers. Held over two days in early November 2024, the program involved 69 toddlers and 4 pregnant women, receiving a warm and positive response from the local community.

To further support nutritional well-being, the team also distributed multivitamins to toddlers and protein milk to pregnant women. These supplements aimed to strengthen immunity, support healthy child growth, and improve maternal health during pregnancy.

Promoting Healthy Aging through Community Health Literacy

A community engagement initiative by the Faculty of Nursing of Hasanuddin University was successfully held in Tamalanrea Jaya, Makassar, focusing on health behavior change among elderly individuals with hypertension. The program emphasized the importance of incorporating regular physical exercise into the daily routines of older adults to help manage blood pressure levels. Through interactive sessions and health education materials, participants were guided on how simple lifestyle changes could contribute to better health outcomes.

The activity, attended by 21 elderly participants along with local health cadres and staff, aimed to improve health literacy related to physical activity and risk factor avoidance for hypertension management.



Supporting Tourism Development in Bissoloro Village through Student Engagement

Hasanuddin University carried out a community service initiative in Bissoloro Village, Gowa Regency, focusing on tourism development through social media training and rebranding of local commodities. The activity highlighted the untapped tourism and social forestry potential in the area, which is strategically located and supported by relevant government agencies. By introducing digital promotion techniques, the program aimed to bridge the gap between community-based tourism potential and broader public awareness.

In addition to training sessions, the event featured expert-led discussions on content creation and tourism site management. The program concluded with optimism for future collaboration between the university and the village, with the shared hope that local tourism in Bissoloro can reach wider audiences. This initiative reflects the university's commitment to strengthening community capacity and encouraging innovation in sustainable rural development.



Report Title

Hasanuddin University Sustainability Report 2025

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