Universitas Warmadewa Sustainable Development Goals



Annual Report 2025/2026

Introduction : Rector's Opening Remarks Universitas Warmadewa SDGs Annual Report



It is with great pride and gratitude that I present the Sustainable Development Goals (SDGs) Annual Report of Warmadewa University. As an institution committed to academic excellence and societal impact, Warmadewa University continues to strengthen its role in addressing global challenges through education, research, and community engagement. Our guiding principle, “Guna Widya Sewaka Nagara”, reflects our dedication to advancing knowledge in service of society.

We are honored that Warmadewa University has been officially recognized in the Times Higher Education (THE) Impact Rankings 2025, a global benchmark that evaluates universities’ contributions to the United Nations Sustainable Development Goals (SDGs). This recognition places our university among institutions worldwide that are actively creating measurable impact toward a more sustainable and equitable future.

Our participation in the THE Impact Rankings reflects Warmadewa University's firm commitment to the SDGs, integrated across our teaching, research, and community service. We view sustainability as a shared responsibility; through innovative research, inclusive education, and strategic partnerships, we strive to address both local and global challenges.

This report outlines our progress, key initiatives, and future commitments as we continue to serve as a catalyst for sustainable development. Moving forward, we remain dedicated to enhancing our performance and expanding international collaborations to drive transformative impact.

I would like to express my sincere gratitude to our faculty, students, partners, and the wider community for the dedication that has made these achievements possible. Together, let us continue to build a sustainable future for generations to come.

Prof. Dr. Ir. I Gde Suranaya Pandit, M.P.
Rector, Universitas Warmadewa

Universitas Warmadewa: Committed to a Sustainable Future through Sapta Bayu

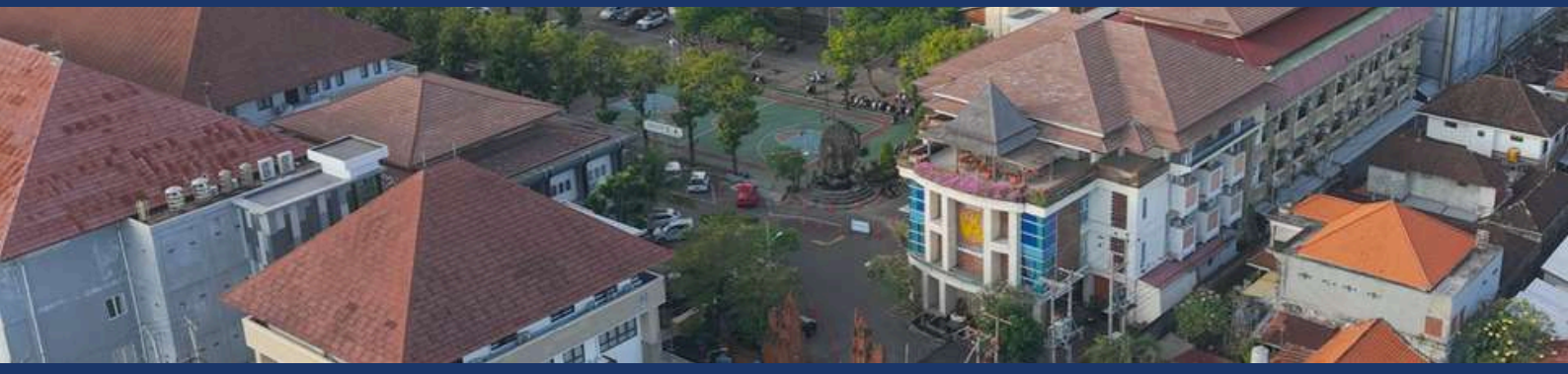


At Universitas Warmadewa, sustainability is deeply woven into the fabric of our identity, driven by the Sapta Bayu—the seven spirits of Sri Kesari Warmadewa. As a forward-thinking institution, we are committed to embedding the Sustainable Development Goals (SDGs) into every facet of our academic life, ensuring that our efforts in education, research, and community service yield a meaningful and lasting impact.

Through coordinated initiatives, we champion a wide array of SDG-driven projects, guided by the spirit of integrity and leadership. Our research and innovations are designed to tackle critical global challenges, such as climate change and public health, solidifying our pledge to foster sustainable, real-world solutions that reflect our commitment to excellence.

We believe that true progress stems from partnership and the spirit of collaboration. Universitas Warmadewa actively engages with government bodies, industry leaders, and local communities to drive initiatives that champion social equity and environmental stewardship. By adopting sustainable campus practices, we demonstrate our unwavering dedication to a greener future, rooted in the values of loyalty and social responsibility.

Furthermore, we are dedicated to cultivating future leaders who possess a global mindset while remaining grounded in their heritage. By integrating sustainability into our curriculum, we empower students to become catalysts for positive change. Guided by the SDGs and the spirit of creativity, Universitas Warmadewa continues to pave the way toward a future where knowledge and innovation create progress that leaves no one behind.



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About Universitas Warmadewa:

Universitas Warmadewa was established to provide accessible, high-quality education to the community. Its origins trace back to a Korpri regional meeting on November 12, 1983, at the Bali Governor's Office, where the vision for a Korpri-affiliated university was first proposed.

Following intensive preparations involving Korpri, Kopertis Region VIII, local academics, and government practitioners, the university was founded under the name "Universitas Warmadewa"—a title bestowed by the Governor of Bali to honor the historic Warmadewa Dynasty. Prof. dr. I G. A. G. Puthra was appointed as the first Rector on August 15, 1984. The institution officially commenced its academic journey with its inaugural lecture on September 17, 1984, a date now celebrated annually as the university's anniversary.

Over the decades, the university has remained steadfast in its commitment to excellence and its founding mission. Operating under the auspices of the Yayasan Kesejahteraan Korpri Propinsi Bali, the foundation underwent a significant transition in 2025; per the Minister of Law and Human Rights Decree No. AHU-0001817.AH.01.05.2025, it was officially renamed the Yayasan Shri Kesari Warmadewa. Today, Universitas Warmadewa continues to evolve, upholding its legacy while adapting to the demands of modern higher education.

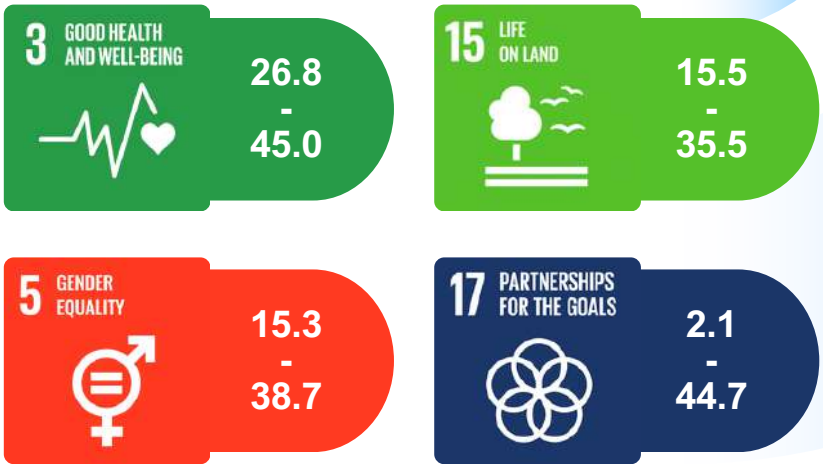
University in Number

Our 9 Best SDGs



Source : THE DataPoints

Our 4 Best Score by Rank SDGs



Source : THE DataPoints





Building pathways to household economic resilience

Strengthening household enterprises, financial literacy and market access through community engagement.

Building household enterprise capacity

In Baturiti, Warmadewa supported 20 household entrepreneurs with product quality, business records and social-media marketing skills. Training ran from June to August 2026.

Focus Area:

- Products & packaging
- Basic financial records
- Digital market visibility

Financial inclusion and consumer protection

The 2026 community-service register also documents programmes on financial inclusion, microenterprise support and consumer protection. Household poverty outcomes still require evaluation.



Turning learning into practice

After Baturiti mentoring, 14 of 20 entrepreneurs were using business social-media accounts and 16 had started simple bookkeeping with spreadsheets or POS tools.



20 — **Entrepreneurs**
Baturiti programme

70% — **Business accounts**
14 of 20 participants

80% — **Started bookkeeping**
16 of 20 participants

Practical routes to resilience

Local production, better records and digital visibility can help families strengthen the foundations of their enterprises.





Growing stronger local food systems

Home gardens, better food skills and community-led nutrition education.

PUSPA AMAN: food security from home

Warmadewa partnered with the PKK group in Desa Lebih to support household gardens, crop cultivation, food processing and digital harvest records.

Focus Area:

- Community gardens
- Food-processing skills
- Maternal & child nutrition

Supporting nutrition in the first 1,000 days

Health academics equipped Posyandu Buana Santhi cadres with knowledge of pregnancy, infant feeding, local nutrition and hygiene to help prevent stunting.



From seedlings to value-added products

The PUSPA AMAN programme reported 20 Cavendish banana and 70 California papaya seedlings. Mentoring also covered banana processing and product packaging.



15 — **PKK Participants**
May 2026 socialisation

90 — **Fruit Seedlings**
20 banana + 70 papaya

1,000 — **First Days of Life**
Nutrition education focus

Community-centred food security

Food access is approached through household production, nutrition awareness and women-led local coordination.



Innovation and prevention at community level

Supporting frontline care and health literacy through practical teaching.

Virtual reality for emergency preparedness

At Batubulan II auxiliary health centre, Warmadewa introduced immersive VR-based cardiopulmonary resuscitation training to strengthen emergency decision-making and clinical practice.

Focus Area:

- Practice-based learning
- HPV vaccine literacy
- Community prevention

Students as peer health educators

A school-oriented programme worked with student councils to communicate evidence-based messages about HPV vaccination and cervical-cancer prevention.



Hands-on simulation and follow-up

Virtual clinical scenarios offered opportunities to rehearse resuscitation steps. The HPV outreach focused on knowledge and peer communication rather than documented vaccine uptake.



VR — **Resuscitation**
Simulation approach

3 — **High Schools**
HPV outreach reported

2 — **Focus Areas**
Workforce + prevention

Prevention + service capacity

The two programmes connect healthcare workforce learning with community prevention and youth engagement.



Digital classrooms and learning across borders

Equipping learners and educators for collaborative, technology-supported education.

BINGGO: real-time learning with AI feedback

At SMKS Wira Harapan, Warmadewa developed and implemented BINGGO, a web-based game-learning platform combining group problem-solving, live interaction and AI explanations.

Focus Area:

- Collaborative AI learning
- Teacher digital capacity
- International language outreach

Teacher capability and student participation

Teacher training supported use of the digital platform. Warmadewa reported post-program gains in student AI use, collaboration and engagement indicators.



Language education in Dili

An additional community-service initiative provided Indonesian-language learning at Ensino Secundario Sao Pedro in Timor-Leste, supporting cross-border education and exchange.



4.3 **Student AI-use score**
up from 3.0

4.6 **Engagement score**
up from 3.3

2026 **Classroom pilot**
implemented in July

Technology as a learning partner

The BINGGO model encourages reasoning and peer discussion, with AI used for explanations rather than simply supplying answers.



More opportunities to lead and thrive

Supporting women's agency in community organisations and small enterprises.

Leadership opportunities for young women

At STT Swakarya, Abiansemal, a participatory training programme explored women's leadership, shared decision-making and inclusive youth-organisation governance.

Focus Area:

- Inclusive youth leadership
- Financial decision-making
- Safe digital transactions

Women entrepreneurs in coastal tourism

An international community programme in Sanur delivered digital financial-literacy mentoring for women entrepreneurs, in collaboration with Waseda University.



Learning outcomes in youth leadership

The STT Swakarya programme involved 50 members. Average assessment scores rose from 75.94 before the workshop to 86.79 afterward.



50 **STT members**
participated in training

+10.85 **Assessment points**
75.94 to 86.79

2026 **Sanur outreach**
women-led microbusinesses

Participation before representation

Knowledge and agency are important first steps; stronger evidence is needed to establish sustained changes in women's leadership roles.



Protecting water through knowledge and community action

Promoting groundwater stewardship and fair, locally managed access.

Groundwater awareness in Sanur

In Dusun Tegal Asah, Sanur Kaja, Warmadewa supported conversations on groundwater conservation, sustainable water use and the vulnerability of coastal settlements.

Focus Area:

- Groundwater conservation
- Fair community access
- Participatory governance

Banyu Werdhi: participatory water governance

In Pergung, Jembrana, Warmadewa assisted a citizen-managed water group with dialogue on access, record-keeping, source protection and conflict prevention.



Using local evidence for action

A survey of 51 Tegal Asah residents found 45 people still used groundwater for at least part of their household water needs, underscoring the importance of stewardship.



51 — **Residents surveyed**
Tegal Asah baseline

88.2% — **Using groundwater**
45 of 51 surveyed

~80 — **Households served**
Banyu Werdhi group

Community management matters

Local groups can combine customary knowledge, transparent records and public dialogue to better manage shared water resources.



Putting solar power to work in local communities

Small-scale renewable energy applications supporting public and cultural infrastructure.

Solar-powered smart security in Gelgel

Warmadewa and the local temple community applied solar-powered IP CCTV, including photovoltaic panels, battery storage and monitoring equipment where grid power access was limited.

Focus Area:

- Solar-powered security
- Off-grid temple lighting
- Solar sensing infrastructure

Temple lighting in Banjar Jematang

The university's SDGs Center documents a 2024 community initiative for four solar street-light units to improve temple illumination in Denpasar.



Renewable energy for monitoring systems

A separate 2026 IoT river-monitoring system at Tukad Mati incorporated solar panels to power a water-level recorder, alongside sensors and digital reporting.



2026 — **Solar CCTV**
Gelgel temple area

4 — **Solar lamps**
Jematang, 2024

IoT — **Solar-enabled**
River-monitoring equipment

Clean-energy applications

These examples demonstrate targeted solar uses, not verified university-wide renewable generation or community energy-access coverage.



Helping local businesses adapt and grow

Digital entrepreneurship and farming diversification as pathways to inclusive local development.

Digital promotion and QRIS in Darmasaba

Warmadewa KKN-PMM teams coached local businesses on social-media content and cashless payment adoption. Four named enterprises included eateries, cafés and a bakery.

Focus Area:

- Digital business promotion
- Payment literacy
- Farming diversification

New options for Subak Pakel II farmers

Community service supported chilli diversification, sustainable cultivation, post-harvest skills and farm business records in a Denpasar subak.



Building skills, not making income claims

The Subak Pakel II partner association includes approximately 120 farmers across around 64 hectares. Its programme reported stronger knowledge after mentoring.



4 — **Local enterprises**
named in Darmasaba

~120 — **Subak members**
partner association size

QRIS — **Cashless skills**
Darmasaba coaching

Improving small-business

The work connects practical business skills, digital visibility and diversified farming opportunities. Sustained income changes need later measurement.



From digital prototypes to public-service innovation

Applied sensing and digital services to support community and public infrastructure.

IoT water-level monitoring at Tukad Mati

Working with Badung's public-works office, Warmadewa developed a water-level monitoring installation with sensors, a data logger, solar power and a web dashboard.

Focus Area:

- Real-time infrastructure data
- Automated warning systems
- Digital public services

Reports, cameras and early warning

The platform provides real-time readings, CCTV views, downloadable daily - monthly data, plus Telegram notifications when caution thresholds are reached.



Digital transformation of village services

Community-service project assisted digital transformation of village public services, connecting e-government knowledge with smart-village needs.



1 **IoT river system**
Tukad Mati installation

3 **Report periods**
daily / weekly / monthly

2 **Govt partners**
public works + ICT office

Partnership-driven infrastructure

Engineering expertise and public-sector collaboration turn sensing, connectivity and digital records into useful decision-support tools.



Designing more inclusive pathways to participation

Assistive technology, accessible rehabilitation information and inclusive community services.

Adaptive walkers for children with disabilities

Warmadewa worked with YPK Bali to document production standards and prepare a service catalogue for adaptive mobility walkers, including fitting, maintenance and safety checks.

Focus Area:

- Assistive mobility
- Accessible service information
- Inclusive digital systems

Two options for different mobility needs

The 2026 catalogue distinguishes basic walkers and walkers with supportive padding. Documentation and an estimated production cost can assist planning for continuing rehabilitation services.



Accessible task management at YPK Bali

A separate 2026 community-service record describes support for a work-assignment management system for children with special needs at YPK Bali, connecting technology with inclusive participation.



2 — **Walker packages**
with / without padding

Rp1.6m — **Cost estimate**
per walker; provisional

1 — **YPK Bali partner**
assistive-technology service

Designing beyond a single product

Accessibility also depends on caregiver guidance, therapist supervision, clear service procedures and tools suited to individual needs.



Preserving living heritage through participatory design

Community-led architectural conservation and better information for historic places.

GIS mapping protects Dili's Portuguese Village

Warmadewa and Universidade da Paz worked with local communities on a Historic Urban Landscape approach, producing participatory GIS information for cultural-heritage planning in Dili.

Focus Area:

- Participatory GIS maps
- Traditional architecture
- Community-led conservation

Balinese sacred architecture in Klungkung

A second 2026 project helped the stewards of Pura Paibon Pande Capung plan and design a traditional bale pesandekan, supporting Balinese architectural continuity.



Documenting change in historic districts

An initial Dili assessment noted modern alterations to around 40% of buildings in the study area. The mapping covers more than 15 hectares and supports conservation guidance.



>15 ha — **GIS study area**
Portuguese Village, Dili

~40% — **Buildings altered**
initial Dili observation

2 — **Heritage settings**
Dili + Klungkung

Community knowledge

Heritage preservation integrates local people, construction knowledge, land-use information and design guidelines—not only physical monuments.



From discarded materials to valuable resources

Reducing waste at source and demonstrating practical local circular-economy solutions.

Banana-corm waste becomes food ingredients

In Desa Batuan, Warmadewa and the local PKK group practised extracting, processing and packaging banana-corm material that is often discarded after customary use.

Focus Area:

- Zero-waste food innovation
- Source-based waste sorting
- Community recycling

Appropriate technology for food processing

The training introduced two processing devices—a colloid mill and a vacuum fryer—along with hygiene practices, product diversification and digital marketing.



Stronger waste segregation in Bali villages

Warmadewa's environmental KKN teams assisted source sorting, composters, TPS3R and community waste-bank systems.



2 — **Processing devices**
colloid mill + vacuum fryer

8 — **Villages / wards**
April 2026 KKN areas

3R — **Waste approach**
reduce / reuse / recycle

Households Circular systems

Local partnerships can connect product innovation, separated waste streams, composting and recycling with everyday community practices.



Strengthening local readiness for weather-related hazards

Digital flood monitoring and community preparedness relevant to climate resilience.

Real-time flood awareness at Tukad Mati

Warmadewa and Badung Public Works deployed an IoT-based automatic water-level recorder to monitor a flood-prone urban river and share data with local authorities.

Focus Area:

- Real-time hazard monitoring
- Community preparedness
- Vegetation and land use

Early-warning information, not just sensors

The AWLR uses continuous readings, a digital dashboard, four status categories and Telegram notices to help users identify rising water levels and prepare a response.



Learning to assess slope and land-use risks

A 2026 community-service describes training for a Gunung Abang disaster-response group on changing land use, vegetation and landslide risk in Kintamani.



1 **AWLR system**
Tukad Mati, Kuta

4 **Warning levels**
safe to danger

2 **Hazard themes**
flood + landslide

Local preparedness

Combine hazard information, technical skills and community participation; broader climate resilience depends on implementation and sustained monitoring.



Helping young coastal stewards restore mangroves

Applied rehabilitation methods and coastal waste programmes to protect marine ecosystems.

Protected seedlings in Serangan's mangroves

With local youth in Banjar Dukuh, Warmadewa developed a nursery and protective rumpon structures to shield newly planted mangrove seedlings from waste, sediment and biofouling.

Focus Area:

- Mangrove seedling protection
- Coastal waste prevention
- Youth-led rehabilitation

Early follow-up shows encouraging survival

In a field check about 50 days after planting, mangrove seedlings with protection had 90% survival. Understanding of seedling protection also increased after training.



Reducing pollution before it reaches the sea

A separate environmental KKN partnership with national authorities promoted source separation and coastal clean-ups, including community engagement near Jimbaran Beach.



90% — **Seedling survival**
protected; ~50-day check

100% — **Post-training score**
protection knowledge

8 — **KKN locations**
waste programme, 2026

Community-based ecosystem

Mangrove rehabilitation and upstream waste management complement one another when monitoring and maintenance continue beyond a single activity.



Protecting habitats through smarter landscape design

Tree planting, lower-impact lighting and regenerative agriculture for biodiversity.

Conserving Taro's firefly habitat

Warmadewa mapped artificial light at night around the Firefly Conservation House in Taro to guide better lighting orientation, shielding and timing near sensitive habitat.

Focus Area:

- Firefly-friendly lighting
- Habitat-based ecotourism
- Revegetation and soil care

Four zones for nature-sensitive planning

The conservation masterplan distinguishes core conservation, buffer, regenerative farming and education–ecotourism zones to balance ecological protection and community use.



Trees and soil for resilient landscapes

The 2026 PkM register also includes tree planting in Belantih, Kintamani. Related Taro fieldwork established soil baselines on four demonstration plots for regenerative farming.



4 **Habitat zones**
Taro masterplan

4 **Farm plots**
soil baseline sites

3 **Light heights**
0 m / 1 m / 2 m

Needs measurement

Long-term ecological benefits need evidence on habitat quality, tree survival, soil improvements and biodiversity—not simply activities or design outputs.



Building transparent institutions close to communities

Practical anti-corruption education and wider access to legal guidance in villages.

Youth-led integrity in customary villages

With Sekehe Teruna Yowana Mekar in Banjar Dualang, Warmadewa discussed transparency, budget responsibility and conflict-of-interest prevention through Balinese customary values.

Focus Area:

- Customary youth leadership
- Accessible legal information
- Transparent local governance

Improving early access to legal information

In Desa Apuan, the law faculty supported awareness-building and planning for a village Pos Bantuan Hukum (Posbankum), including initial legal guidance and referral pathways.



From awareness to accountable practice

The integrity programme addressed an approximately 50-member youth organisation. Workshops used realistic cases and collective discussion to connect ethics with daily governance.



~50 **Youth members**
Yowana Mekar organisation

1 **Village initiative**
Posbankum, Apuan

2 **Core programmes**
integrity + legal access

Institutions strengthen with trust

The programmes promote informed civic participation, transparent local decisions and legal pathways that are easier for residents to understand.



Connecting universities, government and communities

Shared projects extend applied knowledge across disciplines, institutions and villages.

University–ministry collaboration on waste

Warmadewa partnered with Indonesia's environmental authorities for KKN environmental action. A January 2026 cohort was assigned to neighbourhood-scale waste sorting and education in South Denpasar.

Focus Area:

- University–government action
- Cross-campus collaboration
- Village partnerships

A national university partnership with UGM

In June 2026, Warmadewa and Universitas Gadjah Mada collaborated on national KKN-PMM activities in Bebandem and Sibetan, combining student involvement and village partners.



Partnerships are built around real delivery

The South Denpasar environmental KKN launch documented 88 students allocated across 95 banjar, six urban wards and four villages, with an intended field period of around six weeks.



88 — **KKN students**
South Denpasar launch

95 — **Banjar**
planned outreach territory

2 — **Universities**
Warmadewa + UGM

Shared expertise & responsibility

University, government and community can link with local implementation; sustainability depends on continued coordination and measurable outcomes.

Universitas Warmadewa support the Sustainable Development Goals

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