SDG REPORT 2025

SUSTAINABLE DEVELOPMENT GOALS

People . Innovation . Sustainability . Global Partnership



LOCAL WISDOM
GLOBAL IMPACT

FOR A SUSTAINABLE TOMORROW

RUTS SDGs
RAJAMANGALA UNIVERSITY OF TECHNOLOGY SRIVIJAYA



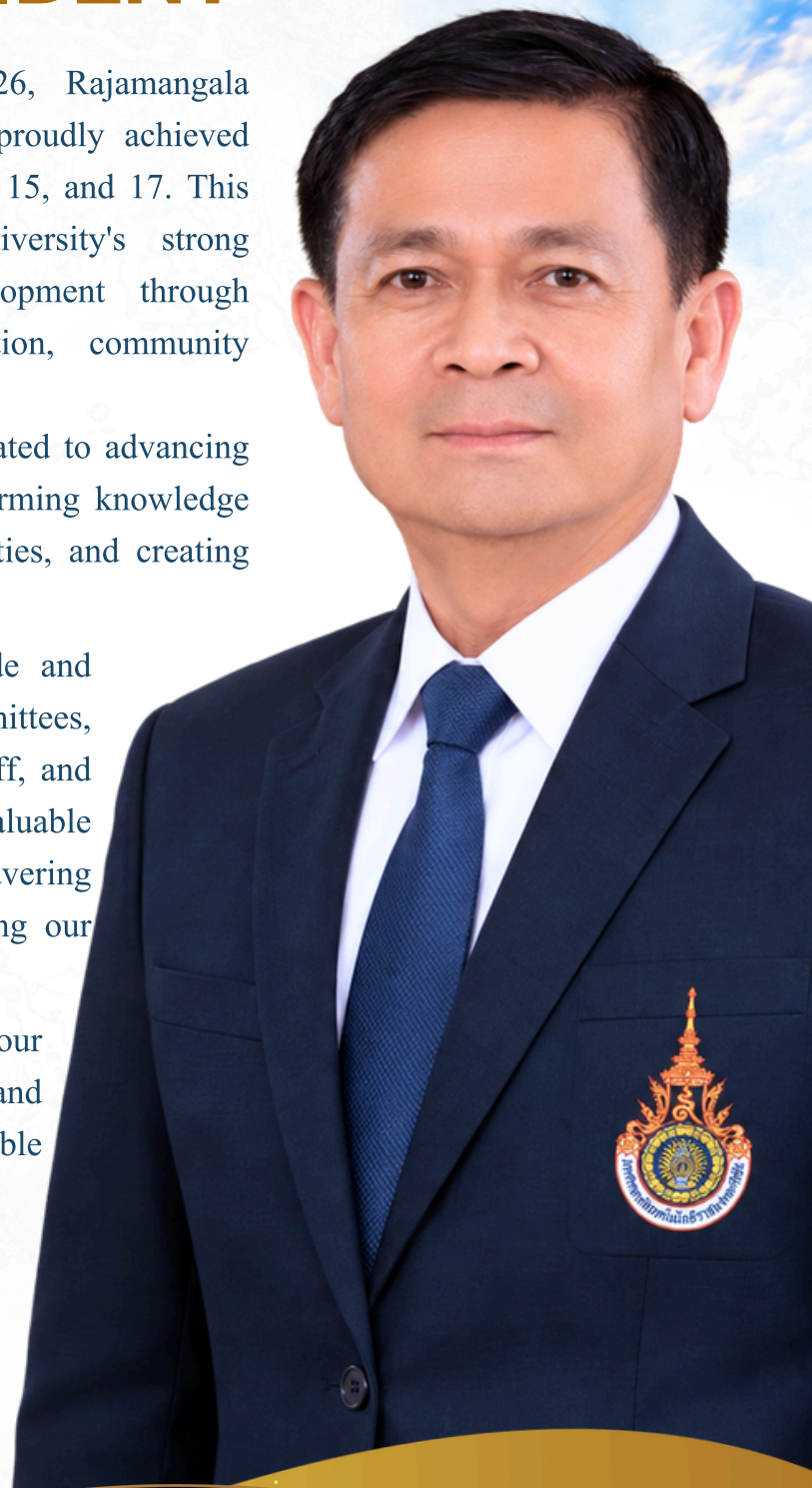
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MESSAGE
FROM THE PRESIDENT



In THE Sustainability Impact Ratings 2026, Rajamangala University of Technology Srivijaya (RUTS) proudly achieved recognition for its contributions to SDGs 8, 9, 15, and 17. This significant achievement highlights our university's strong dedication to advancing sustainable development through excellence in education, research, innovation, community engagement, and international partnerships.

Building on this success, RUTS remains dedicated to advancing all 17 Sustainable Development Goals, transforming knowledge into meaningful action, empowering communities, and creating lasting positive impacts for future generations.

I would like to express my deepest gratitude and heartfelt appreciation to the RUTS SDGs Committees, university administrators, faculty members, staff, and students for their outstanding dedication, invaluable contributions, and collective efforts. Your unwavering commitment has been instrumental in achieving our success and driving our university forward.

Together, we will continue to build on our achievements, strengthen our global impact, and shape a more inclusive, equitable, and sustainable future for all.

Prof.Dr. Suwat Tanyaros
President

INTRODUCTION TO RUTS

Rajamangala University of Technology Srivijaya, (abbreviated as RUTS), is one of the universities in the group of Rajamangala University of Technology (RMUT), RUTS is located in the south of Thailand. The university pays great attention to the management of higher education, particularly in the fields of science and technology as well as services. The main aims are to produce graduates who have both the professional ability to manage a career and to be highly aware of the practical ethics in society and the nation. Additionally, the policy focuses on the development of teaching and learning, research, community service, cultural preservation and environment sustainability as well as the staff development to keep pace with globalization so as to complete the vision of the university.

RUTS offers education at the high vocational and graduate levels, and it is composed of 7 areas as follows :

1. Rajamangala University of Technology Srivijaya, Songkhla Campus
2. Rajamangala University of Technology Srivijaya, Rattaphum College
3. Rajamangala University of Technology Srivijaya, Trang Campus
4. Rajamangala University of Technology Srivijaya Nakhon Si Thammarat, Sai Yai Campus
5. Rajamangala University of Technology Srivijaya Nakhon Si Thammarat, Thung Yai Campus
6. Rajamangala University of Technology Srivijaya College of Industrial Technology and Management Nakhon Si Thammarat, Khanom Campus
7. Srivijaya Agricultural Development Center, Chumphon



FACTS & FIGURES

RAJAMANGALA UNIVERSITY OF TECHNOLOGY SRIVIJAYA

5
Campuses

12 Faculties
3 Colleges

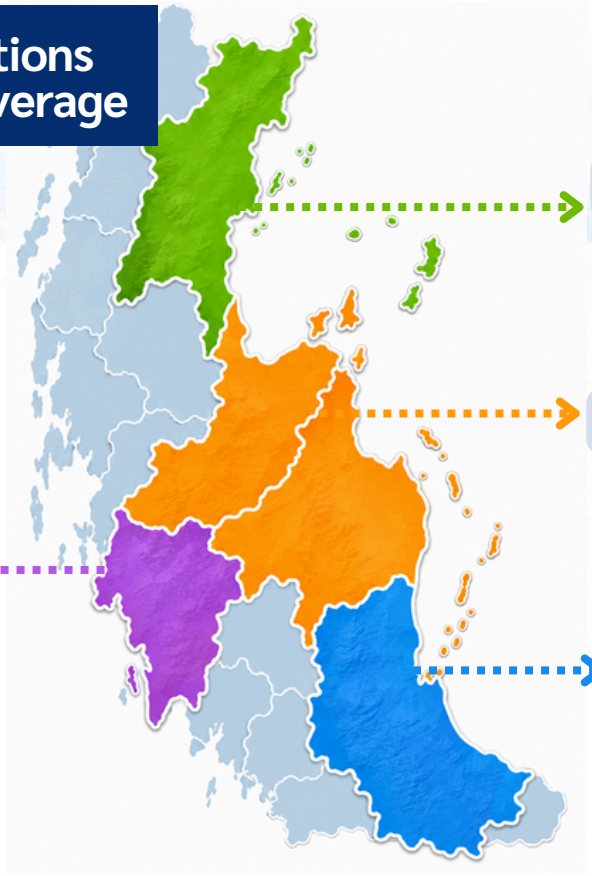
16,748
Number of Students

1,432
Number of Academic and Supporting Staff

88
Courses

5,806 rai
Amout of all areas

RUTS Campus Locations and Geographical Coverage



Chumporn Center
218/300 (rai)

Sai Yai 552 (rai)
Thung Yai 2,025 (rai)
Khanom 589 (rai)

Trang Campus
1,700 (rai)

Songkhla 262 (rai)
Rattaphum 160 (rai)

RUTS | SDG 2025

SDG 1
NO POVERTY

End poverty in all its forms everywhere

1 NO POVERTY



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-1

Financial Assistance and Educational Access



Rajamangala University of Technology Srivijaya (RUTS) treats financial hardship as a threat to educational continuity and provides several forms of assistance to support students in need. Trang Campus interviewed applicants for the Student Loan Fund in June 2025 to assess their financial needs and eligibility. Scholarships were also provided through various sources, including 21 scholarships supported by CP ALL in October 2025, enabling recipients to study tuition-free. This support helps reduce the financial burden of higher education and improves access to educational opportunities for students. The university also promotes an e-Donation channel, allowing supporters to make contributions by scanning a QR code through mobile banking applications



Support is particularly important in emergencies. After house fires affected students' families, RUTS mobilised contributions from the university, its alumni association, its foundation, funds associated with a commercial rental agreement, and individual donors. Financial assistance included THB 55,749 in one case and THB 166,896.11 in another. These cases demonstrate how RUTS coordinates resources from multiple sources to provide financial assistance to students and families facing unexpected hardship, helping them manage immediate financial difficulties and continue their education.



Entrepreneurship and Local Business Development

RUTS supports entrepreneurship and local economic development through training and technology-based business development. In April 2025, the Office of Innovation Management and Technology Transfer organised training in food innovation management for aspiring professional entrepreneurs. Through the Tech Accelerator Platform, it then held three boot camps for local ingredient foods and machinery businesses in Phatthalung, in May, August and November 2025. These activities aimed to help southern entrepreneurs use technology to develop products, improve production processes and access new markets, supporting opportunities for business development and income generation within local communities.





Bringing Research to communities

Working with the Program Management Unit on Area-Based Development (PMU-A) since Fiscal Year 2020, RUTS has sought to transfer research and appropriate technologies from laboratories to households and communities. In May 2025, experts evaluated seven research projects at Trang Campus. The projects covered mushroom cultivation, seafood processing, biomass stoves, dried fish, community product design and dried cocoa beans. The team then visited a network of mushroom farmers in Satun Province, where appropriate technology was reported to have eased production problems and improved yield and quality.

The wider collaboration spans seven southern provinces and 30 villages in Trang, and has reached more than 2,000 households with over 50 ready-to-use innovations. The programme reported a 20–30 percent increase in the economic value of grassroots products. The approach also treats communities as partners. It develops “community innovators” who can adapt technologies to local conditions and teach others, while selecting technologies for affordability, ease of use and maintainability.







Occupational Skills and Income Generation





RUTS provides vocational training to strengthen occupational skills and support income-generating opportunities. Training in grey oyster mushroom processing taught participants to produce sausages, crackers, meatballs, and chilli paste, while also covering packaging, marketing, and cost management. The training aimed to add value beyond selling raw agricultural produce.

Other examples include the THAI CHEF professional cooking programme, visited by the Department of Skill Development in September 2025, and training in quality service for traditional Thai massage. These activities provide practical occupational knowledge and skills that participants can apply to employment and small-business development.

SDG 2

ZERO HUNGER

End hunger, achieve food security and improved nutrition and promote sustainable agriculture



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-2

Research for Sustainable Food Systems

In fiscal year 2025, Rajamangala University of Technology Srivijaya (RUTS) supported research across multiple faculties to strengthen sustainable agricultural production, aquaculture and food systems. Key projects included field trials of local rice varieties, soil improvement using rubber-shell biochar, dairy cattle productivity, oyster seed production for coastal farmers, and innovations to improve cage-based fish farming. Other research addressed agricultural water management, livestock health and sustainable food production. These initiatives focused on improving production practices, supporting farmers and strengthening the sustainability of local food systems.

The university's research also received national recognition. At the National Research Council of Thailand Forum 2025 on 29 November 2025, a researcher from the Faculty of Science and Fisheries Technology was recognized for the Blue Swimming Crab Bank initiative, which received an outstanding-level Public Sector Excellence Award for participatory governance. The initiative supports the restoration of blue swimming crab stocks, contributing to sustainable coastal food resources and the livelihoods of local fishing communities.







Campus Food Services and Food Waste Tracking

All campus food outlets are run by external operators under lease contracts set by the university's announcement on rental criteria and monitored by a property-leasing committee (University Order No. 956/2023). There are 22 food service points (6 canteens, 8 kiosks, 6 leased restaurants, 2 convenience stores) with 48 outlets.







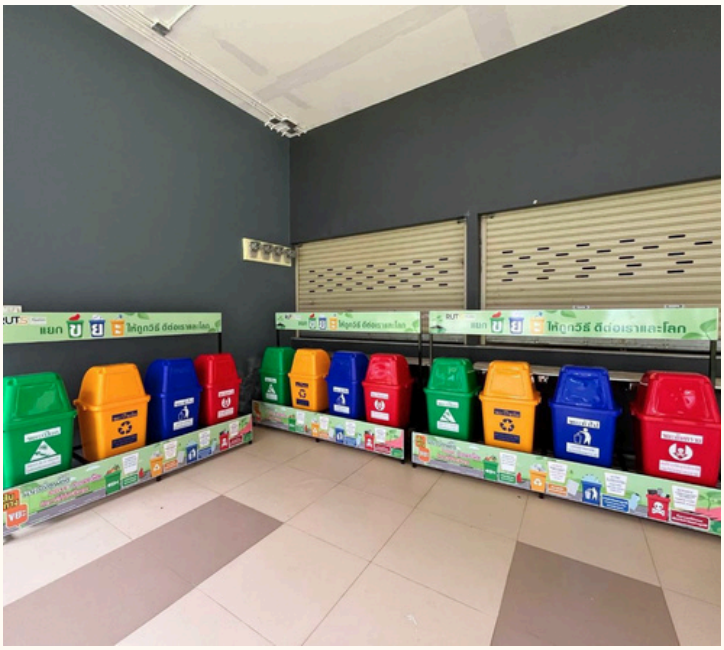




UNIVERSITY CANTEEN

Food waste is measured across the whole university: it is separated into labelled containers and operators record the bins removed from every canteen on all three campuses each day (0.0168 tons per bin). In 2025 this averaged 28 bins, or 0.470 tons per day (Songkhla 0.336, Nakhon Si Thammarat 0.101, Trang 0.034). Based on 20 operating days per month, total food waste was approximately 113 tons in 2025 (9.4 tons per month). Divided by the total campus population of 17,264 students and staff, this equals about 6.5 kg of food waste per person per year. All food waste is reused as animal feed under the supervision of the central leasing unit, and the 2025 figure serves as the baseline for food-waste reduction targets.









FOOD WASTE SEPARATED INTO DEDICATED BINS

Education in Agriculture, Aquaculture and Food

In 2025, 441 of the university's 3,987 graduates (11.1%) completed agriculture, fisheries and food programs: 439 bachelor's graduates (Faculty of Agriculture, Sai Yai 196; Faculty of Science and Fisheries Technology 112; Faculty of Liberal Arts, Food and Nutrition 96; Faculty of Agro-Industry 35) and two master's graduates in agriculture.

The university integrates academic learning with practical activities that support local food systems. Food technology students participated in cocoa processing training for a community enterprise, fisheries students conducted seafood product demonstrations at the Trang Blue Swimming Crab Festival, and agriculture students presented smart-farming research to local farmers during Field Day 2025. These activities connect students' technical knowledge with agricultural production, food processing and community engagement.











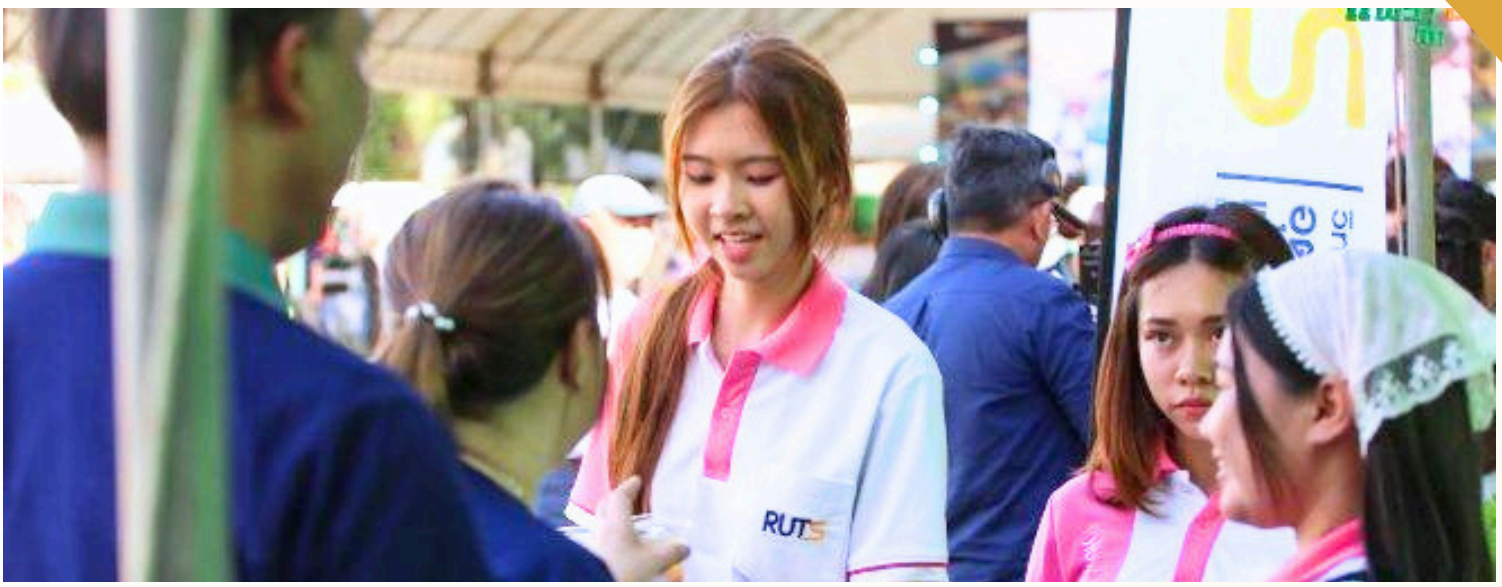
Agricultural Training and Technology Transfer



RUTS supports local farmers and food producers through research-based training, agricultural technologies and technical services. With funding from the National Research Council of Thailand, Trang Campus collaborated with the 110-member Koh Sukorn geographical indication watermelon growers' enterprise to improve production standards, develop a prototype smart irrigation system and expand market opportunities. The project reported yields of approximately two tonnes per rai and fruit sweetness of up to 15 degrees Brix.

Other initiatives included cocoa processing training for a community enterprise in Thung Yai, online agribusiness training, and the transfer of a vacuum honey dehumidifier to a stingless-bee enterprise in Thepha. The university also offered professional training for durian maturity inspectors in accordance with Thai Agricultural Standard 9070-2023.





Agricultural Engagement and Market Access

Throughout 2025, RUTS organized agricultural events that provided opportunities for farmers, food producers, researchers and industry representatives to exchange knowledge and explore market opportunities. Major events included the 6th Trang Blue Swimming Crab Festival and Fisheries Fair in collaboration with national research and agricultural development agencies, which recognized 80 coastal communities in Trang and Krabi. The 90 Years of Sai Yai Fair featured six free seminars on durian, cocoa, native rice, beef cattle, aquaculture and agritourism. Other events included the 10-day Thung Yai Agricultural Fair, Field Day 2025 and a southern innovation exhibition hosted by RUTS, featuring 18 displays. These events facilitated access to agricultural knowledge, research findings and opportunities for collaboration.



In addition to these events, RUTS expanded its support for local food producers by opening the Ros 41 Farm Outlet at Thung Yai Campus along Highway 41. The facility provides a dedicated space for community producers to display, sell and test-market agricultural and food products, helping them reach consumers and explore market opportunities. It also features livestock products developed through collaboration with Walailak University, Prince of Songkla University and Princess of Naradhiwas University. The outlet connects local agricultural production with market opportunities through the use of university facilities.

RUTS | SDG 2025

SDG 3

GOOD HEALTH AND WELL-BEING

3 GOOD HEALTH AND WELL-BEING

Ensure healthy lives and promote well-being for all at all ages



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-3

Advancing Health and Well-being Through Campus and Community Initiatives

Rajamangala University of Technology Srivijaya (RUTS) strengthened its commitment to Good Health and Well-being in 2025 through a wide range of activities for students, staff and surrounding communities. Working with the Department of Mental Health, Songkhla Hospital, Songkhla City Municipality, regional public-health agencies and other partners, the university combined health promotion, disease prevention, community services, reproductive-health support, emergency preparedness and tobacco control.

Mental Health Support for Students and Staff

Mental health was a major focus of RUTS's 2025 activities. The university's work is supported by a 10-year memorandum of understanding (2022–2032) between the Department of Mental Health and the nine Rajamangala Universities of Technology, strengthening mental-health promotion, prevention, care and follow-up across the universities.



Throughout the year, RUTS provided counselling and mental-health capacity-building activities for students and staff in collaboration with Mental Health Center 12. These included individual student counselling, mental-health crisis-response training, the RUTS Care Mental Health workshop, and trainer development for university personnel. Staff and student leaders developed skills in basic counselling, Mental Health First Aid, crisis management and referral to medical specialists.

RUTS and Mental Health Center 12 also provided biofeedback health checks for 51 students and staff, together with relaxation training. The university used the Department of Mental Health's Mental Health Check-in tool and an online appointment system to support access to counselling. In addition, the "Heart Care: Teachers Caring for Students" project trained 60 staff members and student leaders in listening, emotional awareness and counselling skills.









Disease Prevention and Emergency Readiness

RUTS worked with local health agencies to reduce health risks and strengthen emergency-response skills. In collaboration with Songkhla City Municipality, the university carried out mosquito-control measures on campus to reduce the risk of dengue fever. The “New Gen Healthy” programme, organised with Songkhla Hospital’s Primary Care Network, also provided students with practical Basic Life Support training for unconsciousness, cardiac arrest and breathing emergencies.

RUTS also worked with the Office of Disease Prevention and Control Region 12 on a World Hepatitis Day campaign promoting prevention, screening and timely treatment for hepatitis B and C.







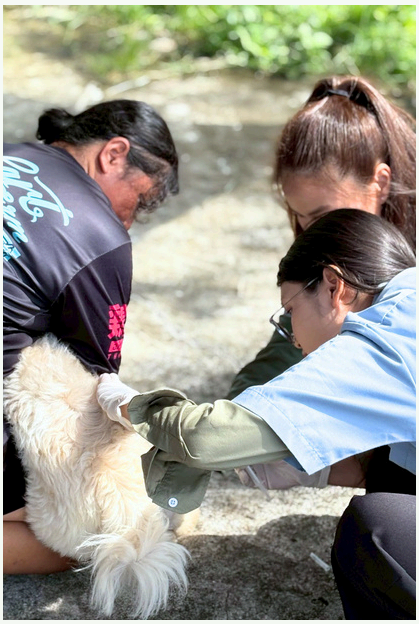
Proactive Health Services for Local Communities

Beyond campus-based activities, RUTS extended health knowledge and services to local communities. The Thai Traditional Medicine programme provided a mobile community service focused on respiratory and lung health, with demonstrations of herbal steam and inhalation, herbal drinks, Thai massage and herbal compresses. Participants also received information on tuberculosis prevention and community hygiene.

The Rajamangala Srivijaya Veterinary Volunteer Club extended animal-health services to local communities, providing vaccinations and care for 241 ruminants in Surat Thani and rabies vaccinations for 573 animals across 10 villages in Songkhla.











Opening Sports Facilities to the Community

RUTS supported youth physical activity by making university sports facilities and equipment available to community groups. On 26 April, the university provided a futsal court, tables and chairs for an under-13 youth futsal competition organised by the Ko Taeo Youth Football Club. On 18–19 August, its standard football field hosted the 2025 Government Savings Bank School Sports Festival, helping create opportunities for youth sports participation and cooperation.





Sexual and Reproductive Health



RUTS worked with public-health partners to improve access to cervical-cancer prevention. Female staff members were offered HPV DNA self-sampling kits, together with guidance from health personnel on sample collection and result interpretation, providing a more accessible approach to cervical-cancer screening.



In collaboration with Songkhla Hospital, RUTS also provided HPV vaccination to 100 students, with medical personnel providing consultations and post-vaccination monitoring.

Tobacco and E-cigarette Control

RUTS implemented a Smoke-Free Educational Institution Policy in line with Thailand's Tobacco Products Control Act B.E. 2560 (2017) and relevant ministry guidance. The policy designates university buildings, educational facilities and dormitories as smoke-free areas and reinforces monitoring and prevention measures, particularly concerning e-cigarettes.

Student engagement supported the policy through the "Young Communicators" project, which trained student leaders to communicate accurate information about the risks of tobacco and e-cigarettes and recognise misleading marketing. RUTS representatives also participated in World No Tobacco Day activities and a southern higher-education network programme on drug and e-cigarette prevention.







SDG 4

QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



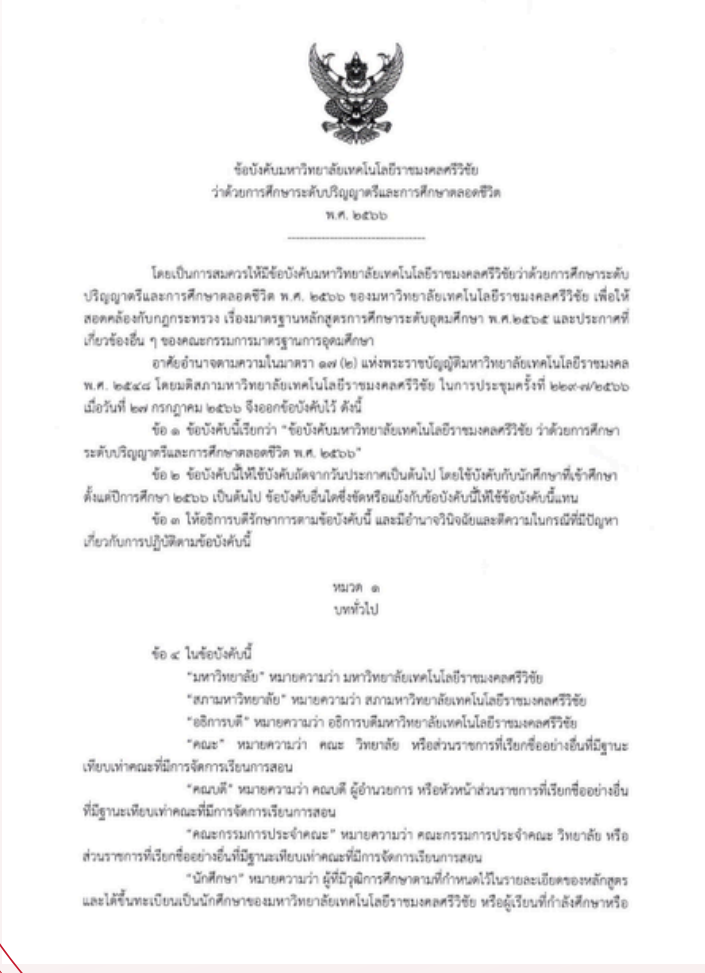
https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-4

Equal Access Policy for Lifelong Learning

The RUTS Regulation on Bachelor's Degree and Lifelong Education B.E. 2566 (2023), amended in 2025, applies to education provision across the university and to all lifelong learning activities. Under this regulation, lifelong learning must be open to all without discrimination on the grounds of ethnicity, religion, disability, immigration status, gender, age or socio-economic status.

The regulation covers formal, non-formal and informal learning, including free online courses on RUTS MOOC, use of libraries and campus facilities, public lectures and academic events, short vocational training, and educational activities in schools and communities. It also allows the transfer of credit for prior experiential learning, providing an alternative pathway for learners of different ages and backgrounds.

Under the vision of an "Innovation University for Society", the 20-Year Long-Term Development Plan (2018–2037) makes lifelong learning for all groups a key direction. In 2025, the university allocated THB 22,603,815 for academic services and creative culture to support equal access to lifelong learning.



ข้อบังคับมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย
ว่าด้วยการศึกษาระดับปริญญาตรีและการศึกษาตลอดชีวิต
พ.ศ. ๒๕๖๖

โดยเป็นการสมควรให้มีข้อบังคับมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัยว่าด้วยการศึกษาระดับปริญญาตรีและการศึกษาตลอดชีวิต พ.ศ. ๒๕๖๖ ของมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย เพื่อให้สอดคล้องกับกฎกระทรวง เรื่องมาตรฐานหลักสูตรการศึกษาระดับอุดมศึกษา พ.ศ.๒๕๖๕ และประกาศที่เกี่ยวข้องอื่น ๆ ของคณะกรรมการมาตรฐานการอุดมศึกษา

อาศัยอำนาจตามความในมาตรา ๑๗ (๒) แห่งพระราชบัญญัติมหาวิทยาลัยเทคโนโลยีราชมงคล พ.ศ. ๒๕๔๘ โดยมติสภามหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย ในการประชุมครั้งที่ ๒๑๙-๗/๒๕๖๖ เมื่อวันที่ ๒๗ กรกฎาคม ๒๕๖๖ จึงออกข้อบังคับไว้ ดังนี้

ข้อ ๑ ข้อบังคับนี้เรียกว่า "ข้อบังคับมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย ว่าด้วยการศึกษาระดับปริญญาตรีและการศึกษาตลอดชีวิต พ.ศ. ๒๕๖๖"

ข้อ ๒ ข้อบังคับนี้ให้ใช้บังคับถัดจากวันประกาศเป็นต้นไป โดยใช้บังคับกับนักศึกษาที่เข้าศึกษาตั้งแต่ปีการศึกษา ๒๕๖๖ เป็นต้นไป ข้อบังคับอื่นใดซึ่งขัดหรือแย้งกับข้อบังคับนี้ให้ใช้ข้อบังคับนี้แทน

ข้อ ๓ ให้อธิการบดีรักษาการตามข้อบังคับนี้ และมีอำนาจวินิจฉัยและตีความในกรณีที่มีปัญหาเกี่ยวกับการปฏิบัติตามข้อบังคับนี้

หมวด ๑
บททั่วไป

ข้อ ๔ ในข้อบังคับนี้

"มหาวิทยาลัย" หมายความว่า มหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย

"สภามหาวิทยาลัย" หมายความว่า สภามหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย

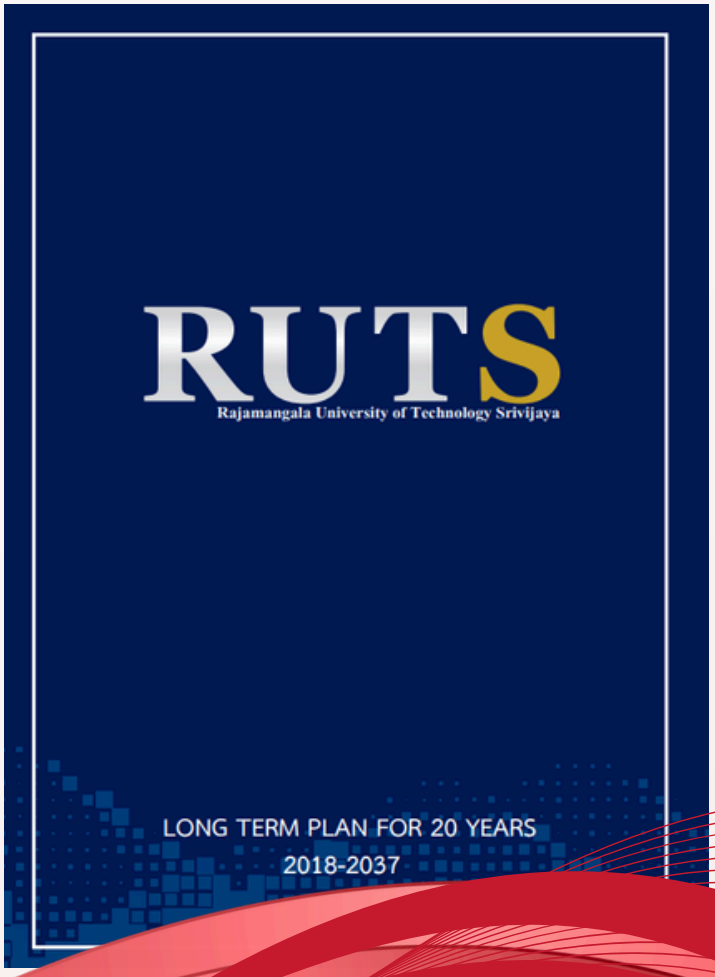
"อธิการบดี" หมายความว่า อธิการบดีมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย

"คณะ" หมายความว่า คณะ วิทยาลัย หรือส่วนราชการที่เรียกชื่ออย่างอื่นที่มีฐานะเทียบเท่าคณะที่มีการจัดการเรียนการสอน

"คณบดี" หมายความว่า คณบดี ผู้อำนวยการ หรือหัวหน้าส่วนราชการที่เรียกชื่ออย่างอื่นที่มีฐานะเทียบเท่าคณะที่มีการจัดการเรียนการสอน

"คณะกรรมการประจำคณะ" หมายความว่า คณะกรรมการประจำคณะ วิทยาลัย หรือส่วนราชการที่เรียกชื่ออย่างอื่นที่มีฐานะเทียบเท่าคณะที่มีการจัดการเรียนการสอน

"นักศึกษา" หมายความว่า ผู้ที่มีวุฒิการศึกษาตามที่กำหนดไว้ในรายละเอียดของหลักสูตร และได้ขึ้นทะเบียนเป็นนักศึกษาของมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย หรือผู้เรียนที่กำลังศึกษาหรือ



Free Public Learning Resources

Throughout 2025, the university opened three groups of learning resources to people who are not RUTS students, with no registration fee, entry fee or certificate fee.

The university offered 46 online courses on the RUTS MOOC platform, all developed by its own faculty members across four subject groups: communication innovation and technology, general education, business administration, and engineering and technology. Examples include Camp Management, Professional Bartending, Professional Barista Standards and Community Tour Guiding. Registration requires only a name and email address, and learners who pass receive an electronic certificate free of charge.



















Six university libraries allow external users to access books, computers, wireless internet, online databases, and co-working spaces free of charge under the RUTS Announcement on Library Service Regulations. The Research Information Srivijaya System (RISS) also provides public access to 6,970 searchable research items without registration, while the Virtual Exhibition offers additional digital learning resources. At Trang Campus, the Rajamangala Trang Aquarium provides educational exhibitions featuring more than 100 species of aquatic animals.

In 2025, 1,158 learners who were not RUTS students received RUTS MOOC certificates. The aquarium welcomed 85,288 visitors, RISS recorded 154,300 visits, and the Virtual Exhibition received 23,000 visits.





Campuses Open to the Public through Educational Events

In 2025, RUTS hosted five educational events under four projects across its campuses, providing free public access to science, research, technology, and practical learning activities.

The Faculty of Science and Technology, in collaboration with the Ministry of Higher Education, Science, Research and Innovation (MHESI), organized Regional National Science Week at Nakhon Si Thammarat Campus (Sai Yai), featuring science and technology exhibitions, workshops, and student competitions. The Thung Yai Agricultural Fair showcased agricultural research, drone demonstrations, and a durian orchard management workshop. The Fisheries Fair (Trang Blue Swimming Crab Day),held twice during the year, presented research exhibitions, community forums, and seafood processing demonstrations. FIET Open House 2025 allowed prospective students and visitors to observe teaching, participate in hands-on activities across seven programmes, and explore further study opportunities.

Together, these five events attracted approximately 39,100 participants, including 35,000 at the Agricultural Fair, 2,000 at Science Week, 1,700 across the two Fisheries Fairs, and 400 students from 12 institutions at FIET Open House.









Vocational Training for the Southern Workforce

In 2025, RUTS delivered 15 vocational training and short courses to strengthen professional and technical skills among workers, entrepreneurs, and community members in southern Thailand.

The Southern Border, Andaman, and Gulf of Thailand Southern Development Centres offered seven free, MHESI-funded courses in professional bartending, barista standards, event management, and tourism-related product development. The Office of Innovation Management and Technology Transfer delivered six digital and technical skills courses covering GIS, 3D animation, PLC, AI, and the Internet of Things. In collaboration with industry partners, RUTS also provided Thai Chef skills upgrading for offshore food service personnel and CSWIP 3.0 Visual Welding Inspector training.

More than 443 people completed or attended these training activities in 2025. The Southern Development Centres trained 243 participants from seven provinces, with 85% reporting that they applied their skills to employment or income generation within three months. The digital skills courses trained 130 participants, all 30 Thai Chef trainees passed the national skill standard test, and more than 40 participants attended the CSWIP 3.0 course.











Educational Outreach beyond Campus

RUTS extended educational opportunities to schools and communities in Songkhla and Trang through student-led teaching, community training, technology transfer, environmental education, and improvements to school learning environments.

Twenty-four Industrial Engineering students organized “Little Engineers: Book & Build,” combining reading activities with basic technical skills for local school pupils. Other student volunteer activities included natural fabric dyeing, product design using QR codes and augmented reality, electrical repairs, and electrical-safety education. University researchers also transferred solar-dryer technology to two community enterprises, provided training in honey and stingless-bee propolis processing, and delivered a VR exhibition on marine litter to school pupils. In addition, students, staff, and alumni improved school computer classrooms, electrical systems, and learning facilities, including restoration work in flood-affected schools and communities in Hat Yai.

Across activities with confirmed participation figures, more than 160 pupils and community members benefited, including over 62 pupils in “Little Engineers: Book & Build,” 28 participants in propolis training, and 70 pupils benefiting from school improvements. Following the floods, university teams restored more than half of one school's equipment to working condition on the first day, while 80 student volunteers supported 48 households.









RUTS | SDG 2025

5 GENDER EQUALITY

SDG 5

GENDER EQUALITY

Achieve gender equality and empower all women and girls



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-5

Gender Equality Through Education and Institutional Support

RUTS promotes gender equality and non-discrimination in its academic and working environments in accordance with Thailand's Gender Equality Act B.E. 2558 (2015). The university implements measures supporting equal employment opportunities, gender diversity, and the prevention of workplace sexual harassment.

RUTS also supports employees with family responsibilities through maternity and paternity leave provisions. Under the reported arrangements, eligible employees may receive up to 90 days of maternity leave, including 45 days of university-paid leave, while eligible male employees may request up to 15 consecutive working days of leave to support their wives following childbirth, subject to applicable regulations. These provisions support employee rights, family well-being, and equal opportunities in the workplace.



Women's Access to Higher Education and STEM



RUTS promotes inclusive access to higher education through admission procedures, online application systems, educational guidance, and student recruitment activities. The university also monitors admission processes to support accessibility and equal educational opportunities.

Through activities such as Srivijaya Fair, prospective students, including women, can explore programmes in engineering, marine engineering, and technology. Demonstrations in electrical engineering, smart robotics, and augmented and virtual reality provide opportunities to learn about STEM study and career pathways. Special admission opportunities for students with outstanding athletic abilities also provide alternative pathways into higher education.



Supporting Women's Well-Being and Family Responsibilities

RUTS provides support services designed to reduce financial, personal, and emotional barriers that may affect students' ability to continue their education. Through the Division of Student Development, students can access scholarship opportunities, counselling services, and mental-health support.

The RUTS Care Mental Health initiative strengthens university personnel's capacity to provide initial counselling, mental-health support, and referrals to professional specialists, helping students access assistance when facing academic or personal challenges.

The university also supports pregnant students, student mothers, and employees with caregiving responsibilities through designated breastfeeding areas, breast pumps, breast-milk storage facilities, and rest arrangements. These provisions help students and staff balance education or employment with family responsibilities.









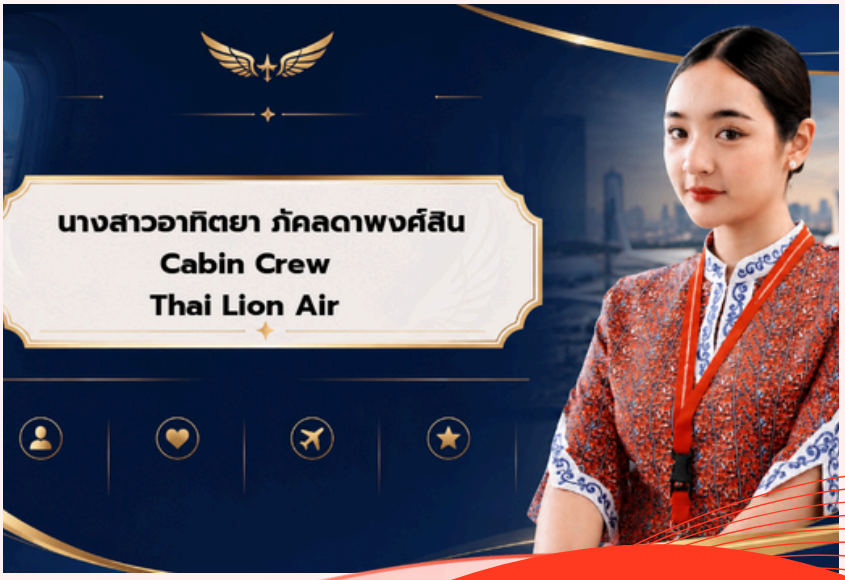
Women's Educational Achievement and Career Development



RUTS monitors student graduation and graduate employment outcomes to support educational planning and the improvement of student services. During the reporting academic year, 2,210 female students successfully completed their studies across university programmes, demonstrating women's participation and educational achievement.

Through its graduate employment monitoring system, RUTS collects information on graduates' career pathways and employment status to support institutional planning and the improvement of educational services. These monitoring mechanisms provide a foundation for evaluating educational outcomes and identifying opportunities to strengthen student support.





Promoting Gender Equality and Inclusion

RUTS fosters an inclusive university environment by recognising gender diversity and promoting equal treatment of students regardless of gender identity. Faculties, including the Faculty of Business Administration, have communicated dress guidelines that allow LGBTQ+ students to dress in accordance with their gender identity while complying with university regulations. These practices support students' freedom of gender expression and encourage respect for diversity within the university community.



RUTS provides opportunities for students with diverse gender identities and expressions to participate in campus activities and showcase their talents. Faculties across the university organised student competitions featuring categories such as MISS QUEEN and MISTER, encouraging confidence, creativity, and self-expression. At the university level, a student from the Faculty of Business Administration was selected as MISS CONGENIALITY QUEEN RUTS 2025 to represent RUTS at RMUT STAR 2026.



SDG 6

CLEAN WATER AND SANITATION

Ensure availability and sustainable management of water and sanitation for all

6 CLEAN WATER AND SANITATION



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-6

RUTS TRACKING WATER USE ACROSS FIVE OPERATIONAL AREAS 2025

Total Annual Water Consumption

626,008

m^3/year

580,493 m^3
from mains water supply

92.73%

45,515 m^3
from natural water sources

7.27%

University Population

18,578
people

17,146
students

1,432
academic and support staff

Annual Water Consumption per Person

33.70

m^3/person/year

Daily Water Consumption per Person

92.32

litres/person/day

Water Consumption and Resource Monitoring

Rajamangala University of Technology Srivijaya (RUTS) monitors water consumption across five operational areas: Songkhla, Sai Yai, Thung Yai, Khanom and Trang. From January to December 2025, recorded consumption totalled 626,008 m³, of which 580,493 m³ (92.73%) came from mains supply and 45,515 m³ (7.27%) from natural sources. Consumption supports teaching, laboratories, sanitation, dining services, landscaping and campus maintenance, as well as specialist aquatic facilities in Trang.

Based on 18,180 students and staff (16,748 students and 1,432 personnel), consumption averaged 34.43 m³ per person annually, or 94.34 litres daily. Mains supply is measured through water meters operated by the Provincial Waterworks Authority; operational units compile and review records each month by area and source. This provides a basis for identifying consumption patterns and improving resource planning.



Wastewater Management and Water Conservation

The university's Announcement on Wastewater Guidelines and Standards A.D. 2022 provides a formal basis for wastewater treatment, pollution prevention and infrastructure maintenance. In effect during 2025, it guides the management of wastewater from buildings, food services and other campus operations. Treatment arrangements include building-level preliminary treatment, grease traps in canteens, and biological treatment with mechanical aeration. Treated effluent follows designated discharge arrangements, including municipal collection connections where applicable.

Routine inspection of aerators, pumps and other equipment, together with grease removal at six-month intervals, helps prevent blockages and reduce the risk of contamination. The approach links preventive action with the ongoing operation of treatment facilities.










Alongside wastewater protection, access to safe drinking water is an essential everyday service. Free drinking water stations are provided in academic buildings, offices and shared facilities for students, staff and visitors. The service is supported by routine cleaning, equipment checks and scheduled filter replacement, making access to drinking water part of everyday campus operations rather than a one-off initiative.These services are complemented by improvements to water efficiency within university buildings. Water-saving fixtures, including push-button and automatic shut-off faucets, help limit unnecessary water flow in washrooms and handwashing areas. The Announcement on Energy and Resource Conservation Measures A.D. 2025 complements these facilities by encouraging users to close taps, report leaks and maintain water supply equipment through scheduled inspection.





Beyond indoor facilities, water-conscious management also extends to campus green spaces. RUTS maintains landscaped areas using plants suited to local conditions and regular maintenance needs, including Cha Dat shrubs, Ficus species and selected palms. Established trees offer shade that can reduce direct sunlight on soil and help retain moisture. Appropriate watering and plant selection support attractive green spaces while taking account of water use.







Building on wastewater treatment and landscape management, RUTS also seeks to make beneficial use of treated water. Water reuse forms part of the university's broader Green University and environmental management approach. Alongside wastewater collection and treatment, RUTS supports the beneficial use of treated wastewater, principally for watering plants and maintaining landscaped areas. This practice connects pollution control with the conservation of freshwater resources.



Community Engagement in Water Conservation





Through free training in Smart Farming and Internet of Things (IoT) technologies, the university provides opportunities for local communities to learn how digital tools can support agricultural water management, improve irrigation decisions and encourage more efficient use of water resources. This commitment is also reflected in practical conservation activities undertaken with local communities and government agencies. RUTS Civil Engineering students and academic staff have contributed to the restoration and maintenance of Nok Kin Nam Weir in Nakhon Si Thammarat, working alongside community members to remove sediment, maintain water retention infrastructure and clear waste from natural waterways. These activities combine hands-on learning with community participation in protecting local water resources.



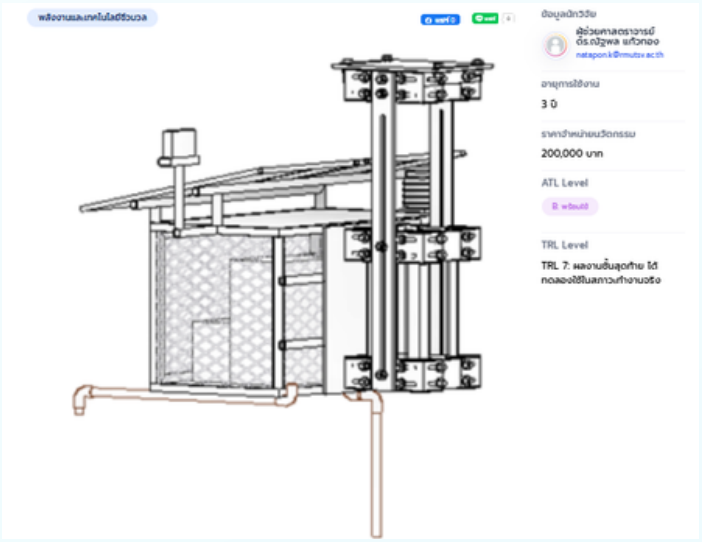


Water Research and Regional Partnerships

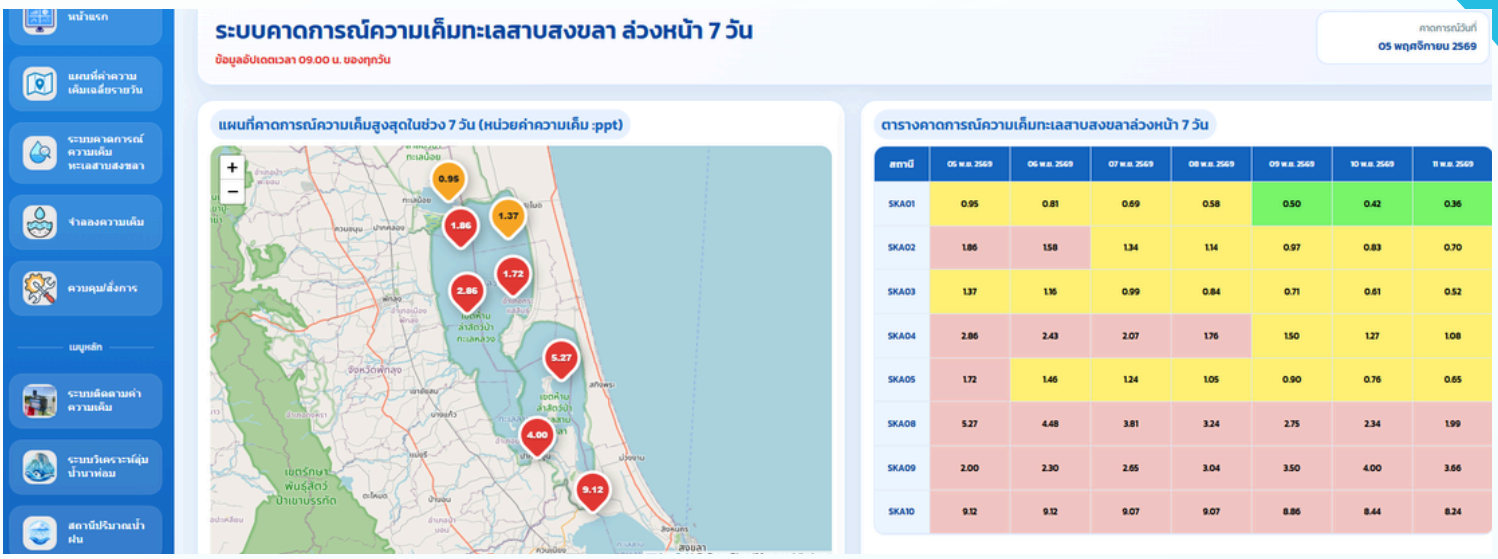
Beyond community activities, RUTS uses research and digital technologies to address water challenges in the Songkhla Lake Basin, where seasonal saltwater intrusion affects freshwater availability for agriculture. The university has installed and maintains 19 automated salinity monitoring stations, with measurements and seven-day forecasts made publicly available through the SKA Water platform. This information helps farmers and local water users assess water quality before extracting or storing freshwater, supporting more informed decisions about irrigation and agricultural water use.

The research is strengthened through cooperation with the Agricultural Research Development Agency (ARDA), the Hydro-Informatics Institute (HII) and other public-sector partners. Joint research, technical workshops, field assessments and knowledge-sharing activities help connect water monitoring technologies with practical needs. RUTS also works with agricultural communities to assess the economic and social outcomes of participatory water management research, including IoT-based initiatives in the Sathing Phra Peninsula, while sharing research innovations through public exhibitions and community networks.









สถานี	05 พ.ย. 2569	06 พ.ย. 2569	07 พ.ย. 2569	08 พ.ย. 2569	09 พ.ย. 2569	10 พ.ย. 2569	11 พ.ย. 2569
SKA01	0.95	0.81	0.69	0.58	0.50	0.42	0.36
SKA02	1.86	1.58	1.34	1.14	0.97	0.83	0.70
SKA03	1.37	1.16	0.99	0.84	0.71	0.61	0.52
SKA04	2.86	2.43	2.07	1.76	1.50	1.27	1.08
SKA05	1.72	1.46	1.24	1.05	0.90	0.76	0.65
SKA08	5.27	4.48	3.81	3.24	2.75	2.34	1.99
SKA09	2.00	2.30	2.65	3.04	3.50	4.00	3.66
SKA10	9.12	9.12	9.07	9.07	8.86	8.44	8.24









RUTS | SDG 2025

SDG 7

AFFORDABLE AND CLEAN ENERGY

7 AFFORDABLE AND CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-7

Environmental and Energy Management Policy

Rajamangala University of Technology Srivijaya (RUTS) promotes energy efficiency, renewable energy, and environmentally responsible campus development through its Environmental and Energy Management Policy. The university's long-term strategies aim to develop RUTS as a Green University, a clean-energy Smart City, and a centre for environmental innovation.

The policy sets targets to increase renewable energy use to at least 25% and reduce greenhouse gas emissions by 45%. It also promotes green building standards, sustainable investment, energy-related research, environmental education, waste reduction through the 3Rs, and sustainable campus transportation. These measures support the university's long-term transition towards carbon neutrality.

Energy Efficiency and Electricity Consumption

RUTS implements energy-efficiency measures across university buildings through lighting improvements, equipment maintenance, electricity monitoring, and building-level energy assessments. Documented improvements include replacing conventional 40 W fluorescent tubes with 18 W LED tubes, reducing rated lighting power by 55% per lamp. These measures contribute to efforts to improve the efficiency of campus lighting systems.





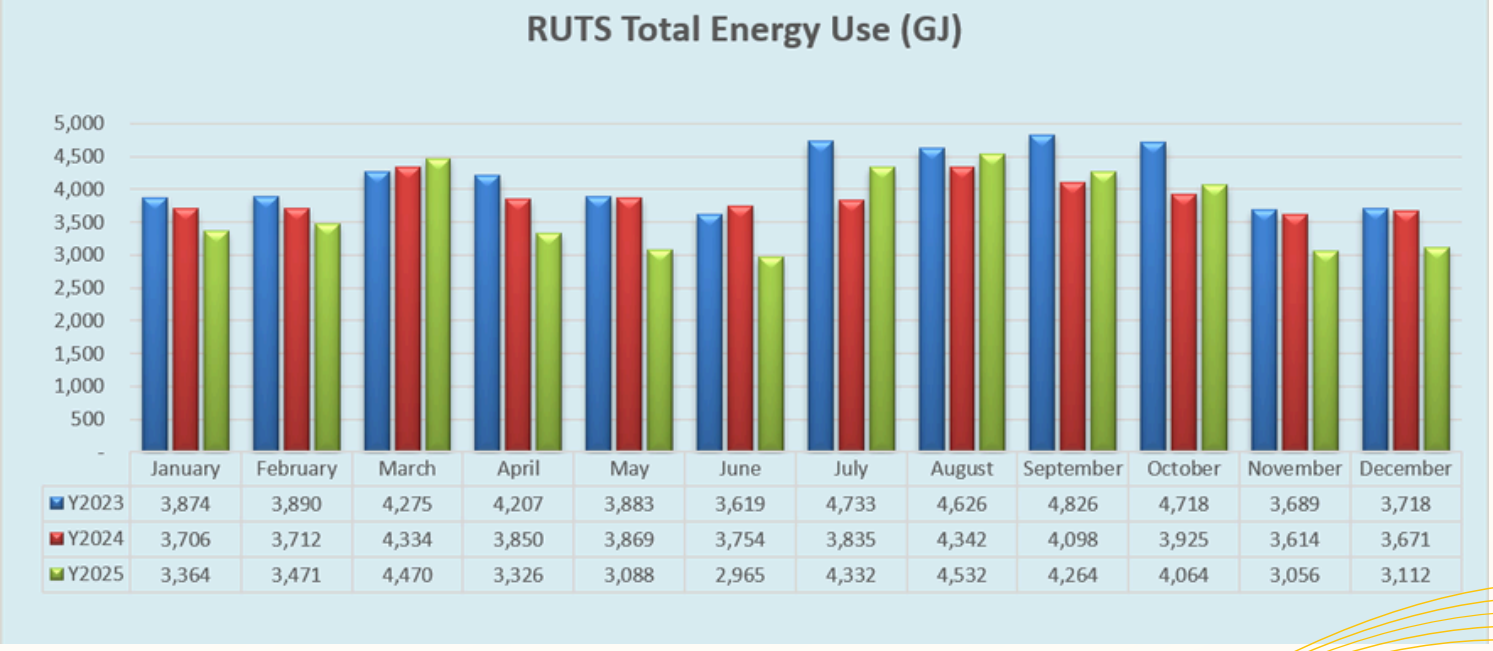






The university also conducts annual inspections and preventive maintenance of electrical transformers and main distribution boards (MDBs), alongside reviews of electricity consumption in university buildings. An institutional energy assessment identified the Faculty of Engineering building complex as the highest electricity-consuming location within the reviewed Songkhla campus area, providing a basis for prioritising further energy-management measures. The Faculty of Engineering's electricity-reduction plan includes air-conditioner maintenance, replacement of older units with high-efficiency models, LED lighting, and automatic lighting controls.

In 2025, RUTS reduced its annual electricity consumption by 740,487 kWh (approximately 2,666 GJ) compared with 2024, representing a 5.71% reduction. Based on an emission factor of 0.4750 kgCO_2e/kWh, this decrease corresponds to an estimated 351.73 tonnes of avoided CO_2-equivalent emissions. Monthly electricity-consumption records from 2023 to 2025 provide additional evidence of the university's energy-monitoring practices and changes in electricity use over time.



	January	February	March	April	May	June	July	August	September	October	November	December
Y2023	3,874	3,890	4,275	4,207	3,883	3,619	4,733	4,626	4,826	4,718	3,689	3,718
Y2024	3,706	3,712	4,334	3,850	3,869	3,754	3,835	4,342	4,098	3,925	3,614	3,671
Y2025	3,364	3,471	4,470	3,326	3,088	2,965	4,332	4,532	4,264	4,064	3,056	3,112

Renewable Energy Development

RUTS promotes the integration of renewable energy into campus infrastructure, including rooftop solar photovoltaic installations that support the university's clean-energy development efforts. Existing solar installations provide visible examples of renewable-energy applications within university facilities.





To further expand renewable-energy capacity, RUTS proposed a 900 kWp grid-connected rooftop solar photovoltaic project in the Songkhla campus area, with an estimated investment of THB 30 million. The proposal projects annual electricity-cost savings of approximately THB 7.02 million, equivalent to about 25% of the university's reported annual electricity expenses of THB 28.32 million, and an estimated payback period of 4.8 years. The project has received University Council support as part of the university's renewable-energy development direction.



The proposed project also incorporates a solar-technology learning room intended to provide practical learning opportunities and demonstrate renewable-energy applications to students, local communities, public agencies, and private-sector organisations. This initiative is designed to connect campus energy development with education, technology dissemination, and regional engagement.

Research and Innovation in Clean Energy

In 2025, researchers from the Faculty of Engineering, led by Mr. Narongrit Senachit and colleagues, undertook the project “Development of an Innovative Intelligent Electric Fence with Clean Energy to Increase Potential and Support Animal Husbandry in the Fields,” funded by Thailand Science Research and Innovation (TSRI).

The project focuses on developing an intelligent electric fencing system powered by clean energy for free-range and open-field livestock farming. By integrating renewable energy with smart farming technology, the research aims to improve livestock safety, increase energy efficiency, reduce farmers' monitoring workloads, and support more sustainable agricultural practices.

Clean Energy Education and Workforce Development

RUTS promotes clean-energy skills development through vocational training and practical education in solar photovoltaic technologies. In 2025, the Faculty of Technical Education and Technology organised non-degree training programmes on solar PV installation and maintenance on 23 July and 11 September. The programmes combined theoretical instruction with hands-on training in system design, wiring, installation, testing, and maintenance, including participation by students from Songkhla Technical College.













SDG 8

DECENT WORK AND ECONOMIC GROWTH

8 DECENT WORK AND ECONOMIC GROWTH

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-8

Fair Employment Practices and Employee Rights

Rajamangala University of Technology Srivijaya (RUTS) promotes fair and transparent employment practices through institutional regulations governing recruitment, employment contracts, remuneration, working hours, leave entitlements, and employee welfare. Recruitment and selection procedures are based on applicants' qualifications, knowledge, abilities, experience, and suitability for the positions. The university also maintains provisions for performance-based salary adjustments, social security, medical benefits, family welfare, and compensation during eligible leave, providing a formal framework for responsible personnel management.

Employment conditions for university employees are governed by established personnel administration regulations, including provisions for contract renewal and employment continuity. Regular performance evaluations provide a formal basis for contract renewal and professional development, supporting transparent personnel management and job security.

To protect employee rights, RUTS maintains grievance and appeal procedures through which employees can challenge disciplinary actions and employment-related decisions. These mechanisms provide formal channels for addressing workplace concerns, protecting employee rights, and supporting accountability in personnel management.





Student Work Placements and Workforce Development

RUTS strengthens students' employability through practice-oriented education, internships, cooperative education, and collaboration with industry partners. These approaches enable students to apply academic knowledge in professional environments, develop workplace competencies, and gain practical experience relevant to their future careers. The College of Hospitality and Tourism at RUTS Trang Campus supported Business Administration students undertaking professional internships with CP ALL Public Company Limited. As part of the university's Work-integrated Learning (WIL) curriculum, the placements provided practical experience in customer service, store management, and retail technology.







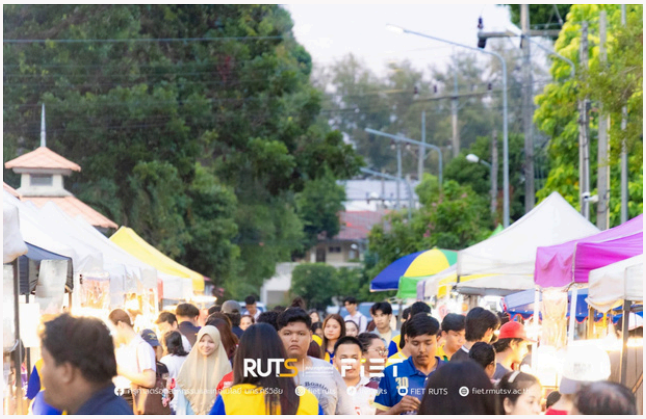
RUTS also promotes professional development and workforce adaptability through training initiatives. The “Service Tools in the Digital Era” workshop strengthened staff competencies in digital technologies and service efficiency, while the “Business Innovation and Business Model Design” workshop developed entrepreneurial thinking, financial management, and innovative business planning skills among university executives and personnel.

Entrepreneurship and Local Economic Development

RUTS supports entrepreneurship and local economic opportunities through practical learning platforms and community engagement. One example is “Nai Suan Market” (RUTS Walking Street), organised by the Faculty of Industrial Education and Technology and operated continuously for more than four years.

The market provides opportunities for students and local entrepreneurs to develop skills in business management, marketing, and entrepreneurship through practical experience. It also offers a platform for local vendors and community enterprises to promote products and engage with customers, supporting self-employment and income-generating opportunities within the surrounding community.









RUTS also supports local economic development through the Appropriate Technology Transfer and Service Center for Community Food and Agricultural Processing (FAMC), established in 2025 under the Faculty of Engineering. The centre connects university research and technological expertise with the needs of local communities and food-processing enterprises. Its innovations include a gas-infrared oil-removal cabinet for processed foods and a food mixing machine designed to improve production efficiency, product consistency, and processing quality. Through appropriate technology development, technical support, and training, FAMC aims to strengthen local production capabilities, support value-added food processing, and enhance income-generating opportunities for community enterprises.

Research and Innovation Supporting Economic Productivity

RUTS promotes local economic development through applied research and appropriate technology transfer. In September 2025, the university introduced a seed-sorting device capable of processing 100 kilograms per hour and a solar–ozone dryer to 18 Bambara groundnut farming households in Phatthalung Province, with funding from the Program Management Unit on Area Based Development (PMU-A).

The project increased the selling price of graded fresh Bambara groundnuts from THB 20–25 to THB 35–40 per kilogram and reduced production costs by approximately 27%. Additionally, 12 of the 18 households (67%) achieved at least THB 5,000 in additional monthly net income. The technologies also enabled farmers to produce their own high-quality planting seeds, reducing dependence on purchased supplies.









SDG 9

INDUSTRY, INNOVATION AND INFRASTRUCTURE

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

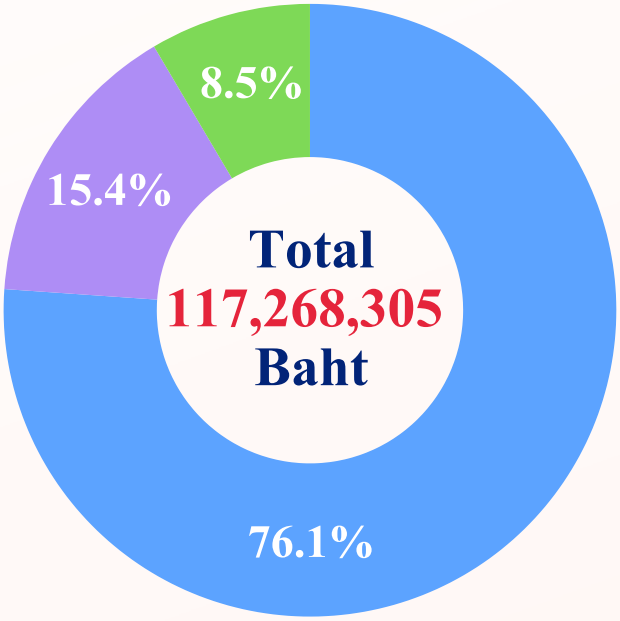
Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-9

Number of University Spin-offs 22

RESEARCH INCOME BY SUBJECT AREA

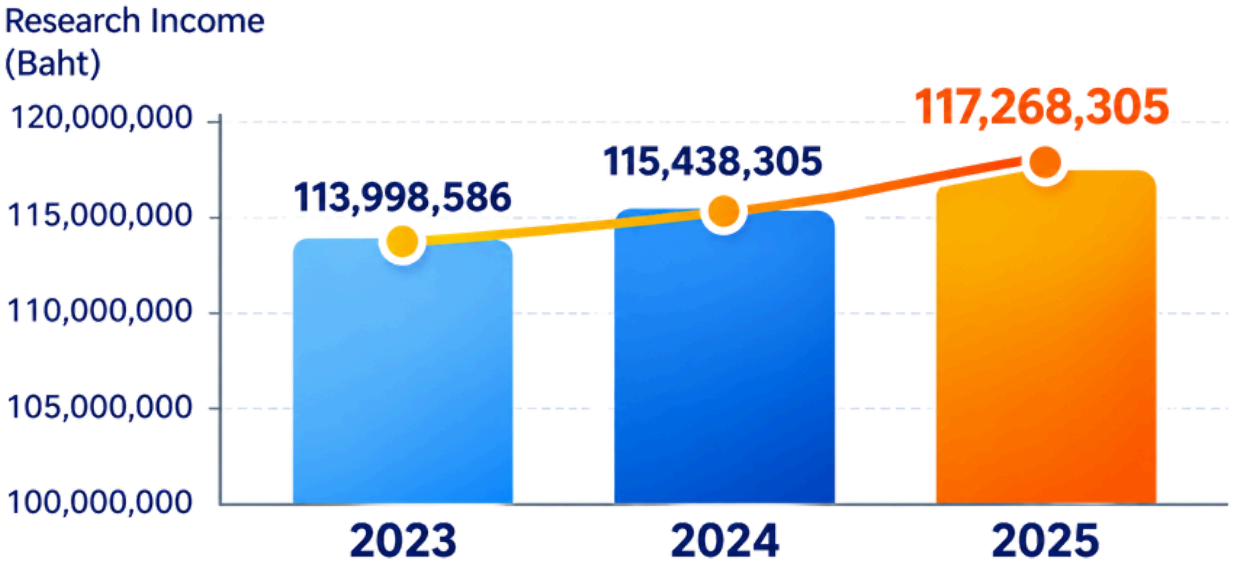


STEM
Science, Technology, Engineering and Mathematics
82,276,208 Baht/76.1%

Arts, Humanities and Social Sciences
18,047,597 Baht/15.4%

Medicine
9,944,500 Baht/8.5%

RESEARCH INCOME GROWTH



Research Collaboration for Sustainable Industrial Development

RUTS advances Industry, Innovation and Infrastructure by strengthening research collaboration with industry and commerce to promote technological innovation, applied research, and sustainable industrial development. Through industry-sponsored research, collaborative projects, and research-related services, the university connects academic expertise with private-sector needs while mobilizing financial resources to support research across multiple disciplines.

In 2025, RUTS generated THB 117.27 million in research income from industry and commerce, reflecting substantial private-sector investment in university research. Science, Technology, Engineering and Mathematics (STEM) accounted for the largest share at THB 89.28 million (76.1%), followed by Arts, Humanities and Social Sciences at THB 18.05 million (15.4%), and Medicine at THB 9.94 million (8.5%). This funding distribution highlights the university's strong research capacity in science and technology while demonstrating multidisciplinary engagement with industry.

These investments strengthen the foundation for university–industry partnerships, knowledge transfer, and innovation-driven research. By attracting private-sector research funding, RUTS creates opportunities to address industrial and societal challenges, enhance technological capabilities, and support regional economic development.



Industrial Skills and Technological Competencies

RUTS integrates practical education, workforce development, and technology transfer to enhance industrial competitiveness and sustainable economic growth. Recognizing the increasing demand for skilled personnel in modern industries, RUTS implemented specialized training programs in industrial sensor applications and advanced automation technologies. Through collaboration between the Office of Innovation Management and Technology Transfer, the Faculty of Industrial Education and Technology, and the Faculty of Engineering, RUTS organized an eight-day Industrial Sensor Application Training Program during May–June 2025. The program strengthened participants' competencies in instrumentation, sensors, transducers, industrial monitoring, and process control. Additionally, the PLC Fundamentals and Troubleshooting (Siemens) training provided practical instruction in programmable logic controllers, automation systems, fault diagnosis, and industrial equipment maintenance. These initiatives enhanced technical knowledge and practical skills relevant to modern industrial operations, contributing to workforce readiness and technological capability development.





Enhancing Agricultural Competitiveness through Standards-Based Education

RUTS promotes innovation and quality assurance in agriculture, a key economic sector in southern Thailand. In collaboration with the National Bureau of Agricultural Commodity and Food Standards (ACFS), the Faculty of Agriculture, Nakhon Si Thammarat Campus, implemented the Durian Harvest Controller Training Program from June to July 2025.

Based on Thai Agricultural Standard TAS 9070-2566, the program combined theoretical and practical training in durian maturity assessment and quality control for farmers, durian cutters, quality-control personnel, and agricultural entrepreneurs. Successful participants received jointly issued certificates from RUTS and ACFS, supporting professional registration as durian cutters and graders.

The initiative strengthened agricultural quality-control competencies, supported professional development, and promoted practices aimed at reducing premature harvesting and post-harvest losses. Its recognition as a RUTS Knowledge Management Best Practice further demonstrates the university's contribution to sustainable academic services and industry-oriented lifelong learning.



Advancing Sustainable Innovation through International Research Recognition and Technology Transfer



RUTS transforms academic research into practical innovations that address industrial, agricultural, environmental, and societal challenges. Through the Office of Innovation Management and Technology Transfer (IMTT), the university promotes applied research, technology transfer, and international collaboration to strengthen innovation capacity and sustainable economic development.

In 2025, RUTS achieved international recognition for 10 inventions at three major international exhibitions: ITEX 2025 in Malaysia, INTARG 2025 in Poland, and SIIF 2025 in South Korea. These achievements included three Gold Medals, three Silver Medals, one Bronze Prize, and several international special awards, demonstrating the university's multidisciplinary research capabilities and innovation potential.



The award-winning innovations addressed challenges in agriculture, industry, healthcare, and environmental sustainability. Examples include the Smart WiFi Mushroom Cultivation Cabinet, Seafood Dried Product Cutting Machine, B-mixed Bacillus Bioproduct, and natural rubber-based products. Environmental innovations such as Palmcharcrete and Low-Carbon Rubber Flooring demonstrated opportunities to utilize local resources and develop more sustainable materials. Notably, research underpinning the B-mixed bioproduct demonstrated up to 97.12% plant disease control in greenhouse trials, highlighting its potential for sustainable agriculture.

These accomplishments demonstrate RUTS's capacity to develop value-added innovations from local resources, strengthen international research networks, and create opportunities for technology commercialization. Overall, RUTS's international achievements in 2025 reinforce its role as a technology-oriented university committed to transforming research into innovations with practical applications and potential contributions to sustainable industrial and regional development.



Advancing Research Commercialization through University–Industry Partnerships and Herbal Innovation

RUTS advances research commercialization through university–industry partnerships that translate academic expertise into market-oriented innovations. In 2025–2026, through the Office of Innovation Management and Technology Transfer (IMTT), RUTS collaborated with Arekee Co., Ltd. under the Talent Mobility Program to develop an innovative skincare product from *Stemona tuberosa*, a medicinal herb native to southern Thailand.

The project applied advanced low-temperature extraction technology to develop a stable herbal skincare formulation. Through a petty patent licensing agreement, the university successfully transferred its technology to the company, enabling the commercialization of CosMD 2% Stemona tuberosa Root Extract Ultra White Body Serum. The innovation demonstrated product stability for up to 120 days and secured THB 1,022,500 in funding from the National Innovation Agency (NIA). The product was distributed through online channels and 41 Beautrium retail branches nationwide, with international market exposure at Mini Thailand Week 2025 in Malaysia.





RUTS | SDG 2025

SDG 10

REDUCED INEQUALITIES

Reduce inequality within and among countries

10 REDUCED INEQUALITIES



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-10

Institutional Policy and Financial Subsidies for Students with Disabilities

Rajamangala University of Technology Srivijaya (RUTS) demonstrates a strong commitment to reducing inequalities by enacting institutional regulations B.E. 2562 (2019) that guarantee equal educational rights and opportunities for students with disabilities. The university waives direct educational fees and waives barriers to higher education by admitting students with disabilities across various academic levels based on their qualifications. Additionally, RUTS provides targeted financial aid, securing educational subsidies totaling 231,875 baht from the Ministry of Higher Education, Science, Research and Innovation to alleviate financial burdens for these students.

Inclusive Physical and Digital Infrastructure Development

To ensure an inclusive learning environment, RUTS has upgraded its physical and digital infrastructure to provide seamless accessibility across campuses. Physical accommodations include dedicated ramps, elevators, accessible restrooms, and reserved parking spaces. In classrooms, students with disabilities receive priority front seating, tailored teaching methods, and lecture audio-recording allowances. Furthermore, the university's official website integrates specialized digital Accessibility Tools to ensure barrier-free access to online educational resources for all users.







Promoting Gender Equality and Diversity Inclusion

RUTS actively promotes social inclusion and gender equality by fostering an accepting atmosphere for LGBTQ+ communities through student-led activities. The Division of Student Development hosted the "MISS QUEEN RUTS 2025" pageant under the theme "FLAME OF THE PHOENIX," creating a safe, expressive platform for LGBTQ+ students to showcase their potential, talents, and creativity. This initiative plays a vital role in reducing gender-based bias and discrimination, encouraging mutual respect, and upholding human dignity within the university campus.

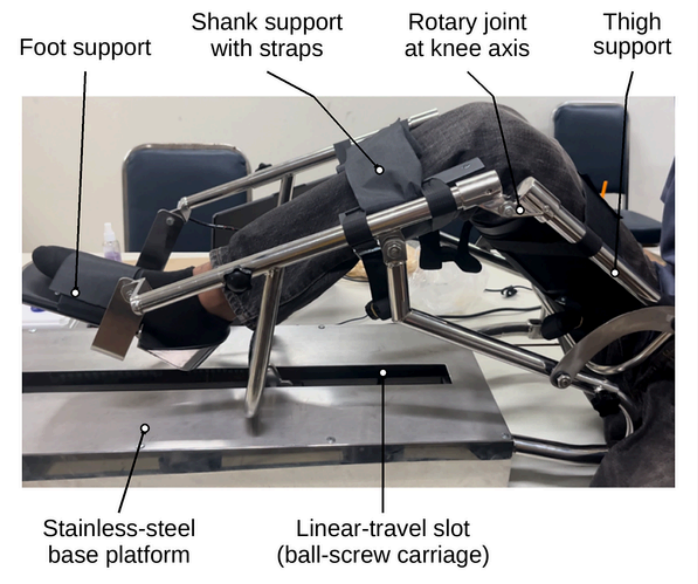








Assistive Medical Innovation for Physical Rehabilitation

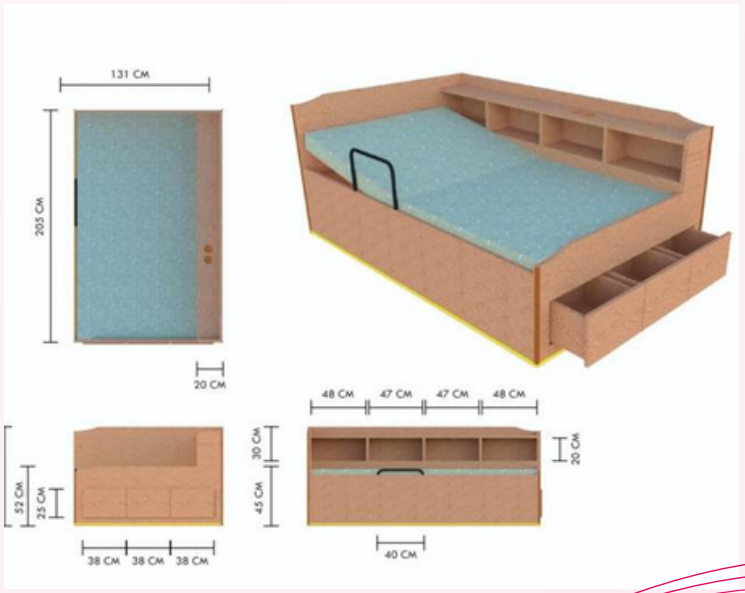


The university drives research and innovation focused on improving health equity and supporting vulnerable populations with physical impairments. Researchers developed an "Automatic Leg Rehabilitation Machine" equipped with IoT technology, adjustable resistance, and continuous passive/active motion settings to support physical therapy for the elderly and individuals with mobility impairments. This technology significantly lowers barriers to accessing advanced healthcare, helping users regain mobility and participate equitably in society.

Smart Technology Innovations for Aging Society

Addressing the challenges of Thailand's aging society, RUTS researchers have also successfully developed "Smart Assistive Innovations for the Daily Living of Elderly Thais". Designed with ergonomic principles, these innovations include pressure- and fall-detecting smart floor mats with caregiver alert systems, alongside adapted smart kitchen amenities. By enhancing safety, self-reliance, and quality of life for the elderly, RUTS continuously reinforces its academic mission to create an inclusive society where no one is left behind.





RUTS | SDG 2025

SDG 11

SUSTAINABLE CITIES AND COMMUNITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-11

Cultural Heritage Conservation and Urban Regeneration

Rajamangala University of Technology Srivijaya (RUTS) supports heritage conservation and urban regeneration through the Culture Smart City: Songkhla Old Town initiative. In 2025, the Faculty of Architecture collaborated with local communities and public agencies on architectural surveys, participatory urban sketching, a prototype online heritage database and map, and creative products inspired by local landmarks.

The Songkhla Old Town International Art Workshop 2025 brought together 70 artists from eight countries to reinterpret Nora, a UNESCO-recognised cultural heritage tradition, through contemporary art. The three-day “Roi Rai: 100 Light – Roi Nai Roo” festival transformed streets and alleys into free public cultural spaces featuring performances, art installations, traditional textiles, and more than 60 community food and craft shops.







Public Access to Cultural and Educational Facilities

RUTS provides public access to cultural and educational facilities to promote community learning and engagement with local heritage. In Songkhla Old Town, the university-supported heritage building Baan Rattanaphruek Saw hosted a public exhibition of southern textiles and community-based creative works.

At Trang Campus, the Rajamangala Trang Aquarium serves as a public educational facility showcasing more than 100 marine and freshwater species, with educational displays on aquatic biodiversity and conservation. In 2025, the aquarium welcomed 85,288 visitors, providing learning opportunities for students, residents, and tourists.







Public Art and Accessible Urban Spaces

RUTS contributes to the improvement of public spaces through community-based art and creative placemaking. Following the November 2025 floods in Hat Yai, Visual Arts students participated in the HATYAI RISE UP campaign, contributing to the creation of 33 artistic crosswalks at 10 locations. In Songkhla, students transformed eight bus stops into public art spaces subsequently handed over to Songkhla City Municipality.





Other initiatives included redesigned Cat and Mouse sculptures at Chalatat Beach, public sand sculptures at the Seamila Sandwalk Festival, and artworks made from reused fibre-optic cables in Songkhla Old Town. The university also supported public engagement with the arts through the free month-long “Sa-Prang” exhibition at the Songkhla Art Center.

Public Access to Open Spaces and Recreational Facilities





RUTS supports community well-being by providing public access to open spaces and recreational facilities. At Trang Campus, Rajamangala Beach serves as a publicly accessible coastal area for outdoor recreation and engagement with the natural environment.

The university also provides free public access to sports facilities, including a football field, athletics facilities, and a rubberised running track, supporting physical activity and recreational opportunities for surrounding communities.

Safeguarding Traditional Crafts and Living Heritage

RUTS collaborates with local craftspeople and community groups to preserve Southern Thailand's traditional knowledge and cultural practices. In 2025, lecturers and students participated in traditional Lak Phra ceremonial boat decoration and banana-trunk carving in Pak Phanang. Other activities included developing Malay Pateh batik with community masters in Pattani, collaborating with the Waepa Batik group, and providing natural and seawater indigo dyeing training for the Ban Khao community in Ranot District.

Research initiatives further supported cultural preservation through studies of Manora bead crafts and cultural resources in the Songkhla Lake Basin, alongside documentation of traditional ventilation blocks in Songkhla Old Town. These activities connected heritage conservation with community livelihoods, creative production, and traditional architectural knowledge.









Inclusive Urban Planning, Community Safety and Disaster Resilience

RUTS contributes technical expertise to local planning and community development through partnerships with provincial and municipal authorities. In collaboration with the Songkhla Provincial Administrative Organisation, lecturers and students surveyed 162 homes of persons with disabilities and bedridden patients across five districts to support housing adaptation planning. The university also participated in provincial housing-development initiatives and contributed design expertise for vulnerable residents.

Following the November 2025 floods in Hat Yai, Urban Planning students worked with the Songkhla Provincial Office of Public Works and Town & Country Planning to inspect flood-damaged buildings. RUTS also collaborated with the Thai Health Promotion Foundation and the Association of Siamese Architects on the “Design for Change Road Safety” initiative, while students developed designs for safer school routes.

Additional collaboration with local authorities addressed pedestrian infrastructure, urban walkways, public parks, and community facilities in Songkhla and Hat Yai, supporting safer and more inclusive urban environments.





RUTS | SDG 2025

SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-12

Circular Resource Use and Value Creation from Waste Materials

Rajamangala University of Technology Srivijaya (RUTS) promotes circular resource use by transforming discarded materials and production residues into practical products. In 2025, the Faculty of Science and Technology collected 20 kilograms of discarded plastic bottle caps and investigated suitable moulding conditions to produce chair seats. The resulting seats were assembled into 20 chairs and donated to Na Mai Phai Subdistrict Administrative Organisation for community use.

The university also collaborated with Regional Industrial Promotion Center 11, Department of Industrial Promotion, to support Ton Nga Chang Community Enterprise for Local Products and Processed Cocoa in Hat Yai District under the Bio-Circular-Green (BCG) Economy Model. The project developed two prototype products from cocoa pod husks: paper bags and paper cup sleeves. The paper bags had a production cost of THB 28.74 and a selling price of THB 35 per unit, while the paper cup sleeves cost THB 6.13 and sold for THB 10 per unit. The project reported a value increase of 120.83% for both products and estimated greenhouse gas emission reductions of 40.64% and 40.65%, respectively, compared with a landfill disposal baseline.



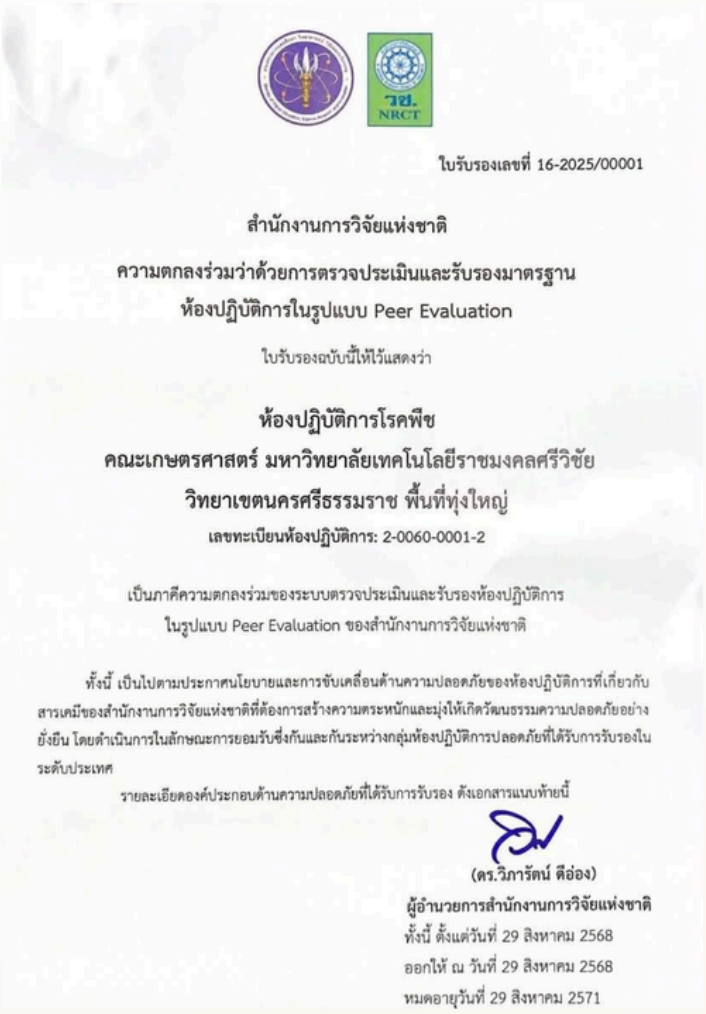






Responsible Waste Management and Community-Based Solutions

RUTS addresses both the recovery of useful materials and the safe management of waste requiring risk controls. At the Plant Pathology Laboratory, Faculty of Agriculture, Nakhon Si Thammarat Campus, Thung Yai, hazardous waste management practices are implemented alongside biosafety requirements and appropriate authorization for research involving biological resources. In 2025, the laboratory obtained laboratory safety certification associated with the National Research Council of Thailand and completed a peer assessment covering eight safety management components. It achieved 92.00% for hazardous waste management and 100% for the component addressing biosafety-related requirements. These results provide measurable evidence of compliance with assessed standards and support responsible research operations.



ใบรับรองเลขที่ 16-2025/00001

สำนักงานการวิจัยแห่งชาติ

ความตกลงร่วมว่าด้วยการตรวจประเมินและรับรองมาตรฐาน
ห้องปฏิบัติการในรูปแบบ Peer Evaluation

ใบรับรองฉบับนี้ให้ไว้แสดงว่า

ห้องปฏิบัติการโรคพืช
คณะเกษตรศาสตร์ มหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย
วิทยาเขตนครศรีธรรมราช พื้นที่ทุ่งใหญ่
เลขทะเบียนห้องปฏิบัติการ: 2-0060-0001-2

เป็นภาคีความตกลงร่วมของระบบตรวจประเมินและรับรองห้องปฏิบัติการ
ในรูปแบบ Peer Evaluation ของสำนักงานการวิจัยแห่งชาติ

ทั้งนี้ เป็นไปตามประกาศนโยบายและการขับเคลื่อนด้านความปลอดภัยของห้องปฏิบัติการที่เกี่ยวกับสารเคมีของสำนักงานการวิจัยแห่งชาติที่ต้องการสร้างความตระหนักและมุ่งให้เกิดวัฒนธรรมความปลอดภัยอย่างยั่งยืน โดยดำเนินการในลักษณะการยอมรับซึ่งกันและกันระหว่างกลุ่มห้องปฏิบัติการปลอดภัยที่ได้รับการรับรองในระดับประเทศ

รายละเอียดองค์ประกอบด้านความปลอดภัยที่ได้รับการรับรอง ดังเอกสารแนบท้ายนี้

(ดร.วิภารัตน์ ดีอ่อง)
ผู้อำนวยการสำนักงานการวิจัยแห่งชาติ
ทั้งนี้ ตั้งแต่วันที่ 29 สิงหาคม 2568
ออกให้ ณ วันที่ 29 สิงหาคม 2568
หมดอายุวันที่ 29 สิงหาคม 2571

At the community level, RUTS collaborated with PTT Exploration and Production Public Company Limited (PTTEP) on a research and innovation project addressing marine waste in Hua Khao Community, Singhanakhon District, Songkhla Province. The project involved the Faculties of Business Administration, Architecture, and Liberal Arts and focused on recovering discarded materials for practical use. Recovered high-density polyethylene (HDPE) and low-density polyethylene (LDPE) bags were processed into four types of products: tote bags, waist bags, document bags, and cosmetic bags. The project also developed marine waste management equipment, including waste drying racks and bamboo floating booms, to support community-based waste collection and resource recovery.





This interdisciplinary collaboration connected material processing and product design with marketing knowledge and community participation. It established practical options for collecting waste, recovering materials, and developing products with potential economic value. The documented outputs are the products and management tools developed; quantities of waste reduced and income generated were not reported. The initiative therefore provides evidence of progress in community-based waste management and innovation development.

Environmental Education and Community Participation

RUTS promotes responsible consumption through environmental education and community engagement. The Resource and Environmental Management Program, Faculty of Science and Technology of Fisheries, Trang Campus, collaborated with the Southern Center for Technology Transfer in Waste Disposal and Wastewater Treatment under the Royal Initiative and partner organisations to organise World Environment Day activities. The event featured exhibitions supported by 17 organisations, waste segregation demonstrations, material reuse activities, a recycled-material costume competition, and environmental discussions to raise awareness of waste management and plastic pollution.

Environmental education also extended to local schools. The Resource and Environmental Management Program collaborated with the Southern Regional Center of the Laem Phak Bia Royal Initiative Project to conduct an environmental learning activity at Ban Chang Lang School, Trang Province. The activity involved 55 school students and integrated the university's Environmental Communication course with community outreach. University students delivered learning activities on waste segregation, the 3Rs (Reduce, Reuse, and Recycle), water quality, and wastewater treatment, providing practical environmental education while developing their communication skills.



Sustainable Materials Research and Practical Applications





RUTS researchers have combined natural rubber with agricultural and industrial residues to develop sustainable materials for practical applications. Researchers from the Faculty of Science and Technology developed boxing ring floor mats using natural rubber, natural fibres, sawdust, and ground waste tyres. By incorporating waste materials into the production process, the research explored opportunities for resource recovery and value creation. The mats were put into practical use at Phumiphat Boxing Stadium in Nakhon Si Thammarat Province and presented at the Young Smart Innovation & IP Camp attended by 35 participants, including lecturers, entrepreneurs, students, and members of the public. This application demonstrates how material research can be translated into products that meet practical user needs.

Another innovation, “Low-Carbon Rubber Flooring for Elderly,” developed by the Faculty of Engineering, received a Gold Medal at the 8th International Invention and Innovation Show (INTARG 2025), held in Katowice, Poland. The research focused on developing double-layer rubber composites by incorporating natural rubber and recycled components while optimising material formulations and processing conditions. The reported optimal formulation included 80 parts of sawdust per 100 parts of rubber, processed at 110°C. Designed for applications involving older adults, the innovation demonstrates the potential of combining natural resources and recovered materials to develop functional products while promoting more responsible material utilisation.

RUTS | SDG 2025

SDG 13
CLIMATE ACTION

13 CLIMATE ACTION

Take urgent action to combat climate change and its impacts



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-13

Low-Carbon Energy Management

Rajamangala University of Technology Srivijaya (RUTS) promotes energy efficiency and renewable energy through its Green University framework and 20-Year Strategic Development Plan (2018–2037). The University's Policy on Environmental and Energy Management, Health, Hygiene, and Internal Safety, announced announced in 2022, establishes institutional commitments to responsible energy management, increased renewable energy use, and carbon neutrality by 2037.

RUTS monitors energy consumption across its campuses and operational units, including purchased electricity, fuel used by vehicles and machinery, cooling-related energy consumption, and on-site electricity generation. In 2025, the university reported total energy consumption of 44,044 gigajoules (GJ), of which 11,021 GJ came from low-carbon energy sources, representing 25.02% of total energy use. This information supports institutional energy planning and the monitoring of progress towards lower-carbon operations.

The university has also installed rooftop solar photovoltaic systems to support electricity generation, teaching, and research. At the Sri Wiswa Building, Faculty of Engineering, the solar installation supplies electricity for building operations and teaching laboratories while providing opportunities for practical learning and research on renewable energy and Internet of Things (IoT) applications.



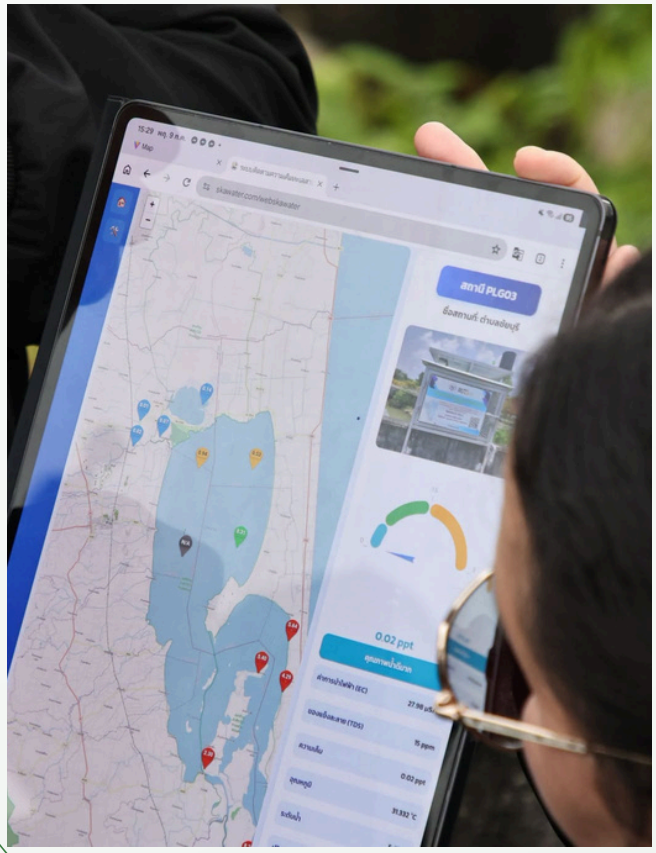


Climate Education and Community Engagement

RUTS promotes climate-related education and community capacity building through applied research and knowledge transfer. The Water Management Innovation and Geoinformatics Research Unit and collaborating academic units transfer practical knowledge on IoT-enabled monitoring, water-quality sensors, salinity measurements and interpretation of environmental data. Activities involving farmers, community innovators, and water-user groups in the Sathing Phra Peninsula, Songkhla Lake Basin, and Khok Pho District focus on using monitoring information to support freshwater management, agricultural planning, and responses to saltwater intrusion.

Community education also addresses climate-sensitive environments in other areas of southern Thailand. In Trang Province, activities focus on coastal change, erosion, and mangrove conservation, while knowledge transfer in Nakhon Si Thammarat Province covers soil and water management approaches relevant to drought, variable rainfall, and flash-flood risks.

The university further shares environmental information with local authorities and communities through the Songkhla Lake water-monitoring and seven-day salinity forecasting platform. This system provides accessible information on changing water conditions and supports discussion of water-resource management among researchers, communities, and public agencies.





Disaster Preparedness and Government Support

RUTS contributes technical expertise to disaster preparedness and water-resource planning through cooperation with government agencies and regional committees. University representatives participate in the Songkhla Provincial Water Resources Subcommittee, the Songkhla Lake Basin Committee, and the Western Southern River Basin Committee, supporting discussions on water allocation, drought preparedness, flooding, and changing environmental conditions.

The Faculty of Engineering and Water Management Innovation and Geoinformatics Research Unit have developed salinity and saltwater distribution models for the Songkhla Lake Basin. The research includes forecasting models with horizons of one to six months to support planning for saltwater intrusion, freshwater scarcity, and drought-related pressures. A separate online platform provides monitoring information and seven-day salinity predictions for shorter-term observation and decision support.

RUTS has also developed interconnected automated salinity and rainfall monitoring stations around the Songkhla Lake Basin. Environmental information is distributed through the LINE application and the publicly accessible www.skawater.com platform to relevant agricultural, fisheries, and irrigation agencies. These systems provide technical information that can support government monitoring, water management, and preparedness for changing water conditions.





Partnerships with Civil Society

RUTS collaborates with professional associations, farmers' councils, community water-user groups, and other civil society organisations to address climate-related challenges in southern Thailand. These partnerships connect university research and technical expertise with local knowledge and community priorities, particularly in water availability, climate adaptation, and sustainable natural resource management.

Collaboration with stakeholders such as the Songkhla Shrimp Farmers Association involves technical knowledge sharing, water-related coordination, and discussions on locally appropriate management practices. Through these activities, RUTS supports community participation in identifying environmental challenges and exploring practical responses to changing water conditions. Cooperation agreements, community engagement activities, and information-sharing initiatives provide channels for continued collaboration between the university and local stakeholders.





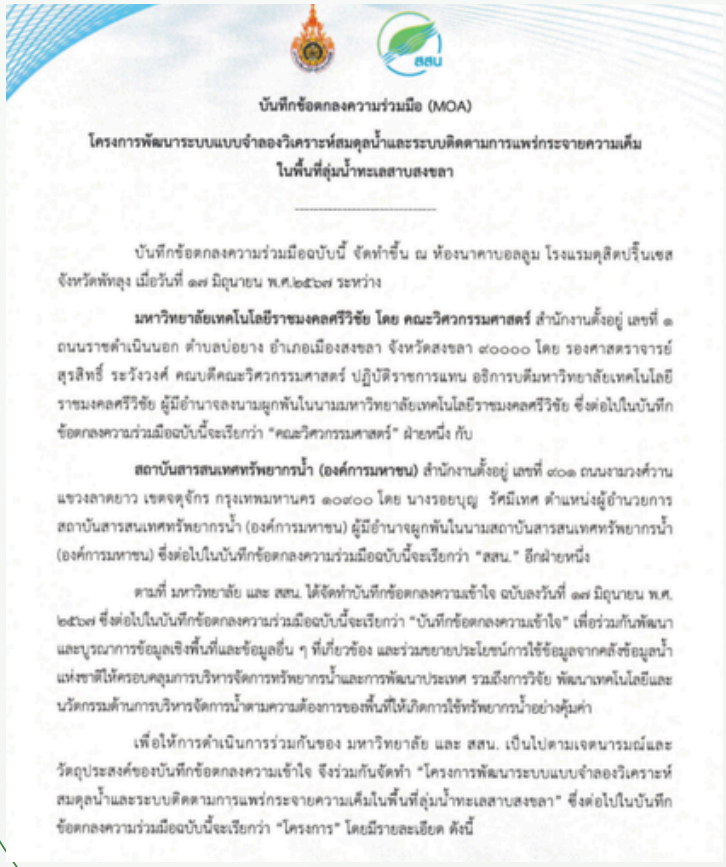


Carbon Neutrality and Institutional Climate Commitments

RUTS has established a long-term institutional target of achieving carbon neutrality by 2037. Its environmental and energy management policy provides a framework for reducing dependence on conventional energy sources, improving energy efficiency, and promoting responsible resource management across university operations.

The university's greenhouse-gas accounting approach is based on the Greenhouse Gas Protocol and covers direct emissions from sources such as vehicle fuels, machinery, and refrigerants (Scope 1), indirect emissions from purchased electricity (Scope 2), and selected indirect emissions associated with waste, wastewater, travel, and services (Scope 3). This framework supports the identification and monitoring of emissions sources, although a complete independently verified greenhouse-gas inventory was not included in the available evidence.

Measures supporting the university's carbon-neutrality commitment include rooftop solar energy installations, energy-efficient buildings, waste reduction under the Reduce–Reuse–Recycle principles, wastewater management, and forest, mangrove, and coastal ecosystem restoration. Together, these initiatives form part of the university's ongoing approach to institutional environmental management and its long-term transition towards lower-carbon operations.



บันทึกข้อตกลงความร่วมมือ (MOA)

โครงการพัฒนาระบบแบบจำลองวิเคราะห์สมดุลน้ำและระบบติดตามการแพร่กระจายความเค็ม
ในพื้นที่ลุ่มน้ำทะเลสาบสงขลา

บันทึกข้อตกลงความร่วมมือฉบับนี้ จัดทำขึ้น ณ ห้องนาคาบอลลูม โรงแรมดุสิตบริ้นเซส จังหวัดพัทลุง เมื่อวันที่ ๑๗ มิถุนายน พ.ศ.๒๕๖๗ ระหว่าง

มหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย โดย คณะวิศวกรรมศาสตร์ สำนักงานตั้งอยู่ เลขที่ ๑ ถนนราชดำเนินนอก ตำบลบ่อยาง อำเภอเมืองสงขลา จังหวัดสงขลา ๙๐๐๐๐ โดย รองศาสตราจารย์ สุรสิทธิ์ ระวังวงศ์ คณบดีคณะวิศวกรรมศาสตร์ ปฏิบัติราชการแทน อธิการบดีมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย ผู้มีอำนาจลงนามผูกพันในนามมหาวิทยาลัยเทคโนโลยีราชมงคลศรีวิชัย ซึ่งต่อไปในบันทึกข้อตกลงความร่วมมือฉบับนี้จะเรียกว่า "คณะวิศวกรรมศาสตร์" ฝ่ายหนึ่ง กับ

สถาบันสารสนเทศทรัพยากรน้ำ (องค์การมหาชน) สำนักงานตั้งอยู่ เลขที่ ๙๐๑ ถนนรามวงศ์วาน แขวงลาดยาว เขตจตุจักร กรุงเทพมหานคร ๑๐๙๐๐ โดย นางรออยบุญ รัศมีเทศ ตำแหน่งผู้อำนวยการสถาบันสารสนเทศทรัพยากรน้ำ (องค์การมหาชน) ผู้มีอำนาจผูกพันในนามสถาบันสารสนเทศทรัพยากรน้ำ (องค์การมหาชน) ซึ่งต่อไปในบันทึกข้อตกลงความร่วมมือฉบับนี้จะเรียกว่า "สสน." อีกฝ่ายหนึ่ง

ตามที่ มหาวิทยาลัย และ สสน. ได้จัดทำบันทึกข้อตกลงความเข้าใจ ฉบับลงวันที่ ๑๗ มิถุนายน พ.ศ. ๒๕๖๗ ซึ่งต่อไปในบันทึกข้อตกลงความร่วมมือฉบับนี้จะเรียกว่า "บันทึกข้อตกลงความเข้าใจ" เพื่อร่วมกันพัฒนาและบูรณาการข้อมูลเชิงพื้นที่และข้อมูลอื่น ๆ ที่เกี่ยวข้อง และร่วมขยายประโยชน์การใช้ข้อมูลจากคลังข้อมูลน้ำแห่งชาติให้ครอบคลุมการบริหารจัดการทรัพยากรน้ำและการพัฒนาประเทศ รวมถึงการวิจัย พัฒนาเทคโนโลยีและนวัตกรรมด้านการบริหารจัดการน้ำตามความต้องการของพื้นที่ให้เกิดการใช้ทรัพยากรน้ำอย่างคุ้มค่า

เพื่อให้การดำเนินการร่วมกันของ มหาวิทยาลัย และ สสน. เป็นไปตามเจตนารมณ์และวัตถุประสงค์ของบันทึกข้อตกลงความเข้าใจ จึงร่วมกันจัดทำ "โครงการพัฒนาระบบแบบจำลองวิเคราะห์สมดุลน้ำและระบบติดตามการแพร่กระจายความเค็มในพื้นที่ลุ่มน้ำทะเลสาบสงขลา" ซึ่งต่อไปในบันทึกข้อตกลงความร่วมมือฉบับนี้จะเรียกว่า "โครงการ" โดยมีรายละเอียด ดังนี้



RUTS | SDG 2025

SDG 14

LIFE BELOW WATER

14 LIFE BELOW WATER

Conserve and sustainably use the oceans, seas and marine resources for sustainable development



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-14

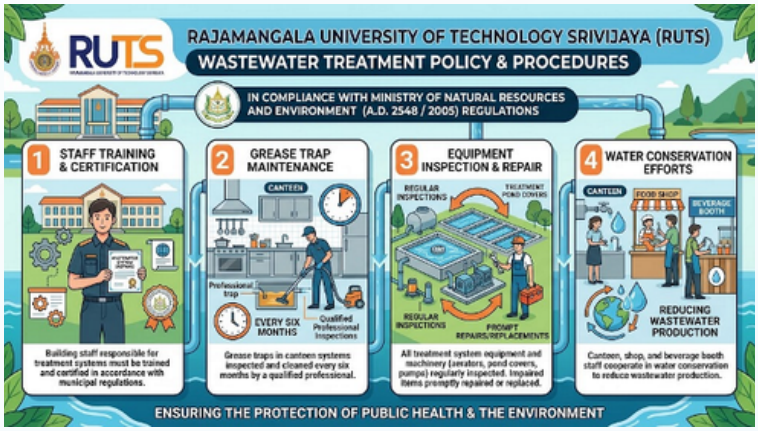
Sustainable Marine Resource Management and Institutional Practices

Rajamangala University of Technology Srivijaya (RUTS) promotes the protection of aquatic ecosystems through institutional environmental policies, wastewater management, and marine pollution reduction. The university's wastewater management approach incorporates relevant environmental regulations, regular inspections, and nature-based treatment methods. At Trang Campus, wastewater treatment systems utilise aquatic and terrestrial plants, including cattails, sedges, pandan, and vetiver grass. These systems incorporate natural processes into wastewater treatment and support environmentally responsible campus operations.





The university also promotes plastic waste and marine debris reduction through its Marine Debris Reduction Action Plan 2025, covering January to December 2025. The plan focuses on reducing single-use plastics and encouraging responsible resource consumption among students, personnel, and campus businesses. Supporting activities include environmental exhibitions, educational materials, and practical learning opportunities addressing the impacts of plastic pollution on aquatic ecosystems.







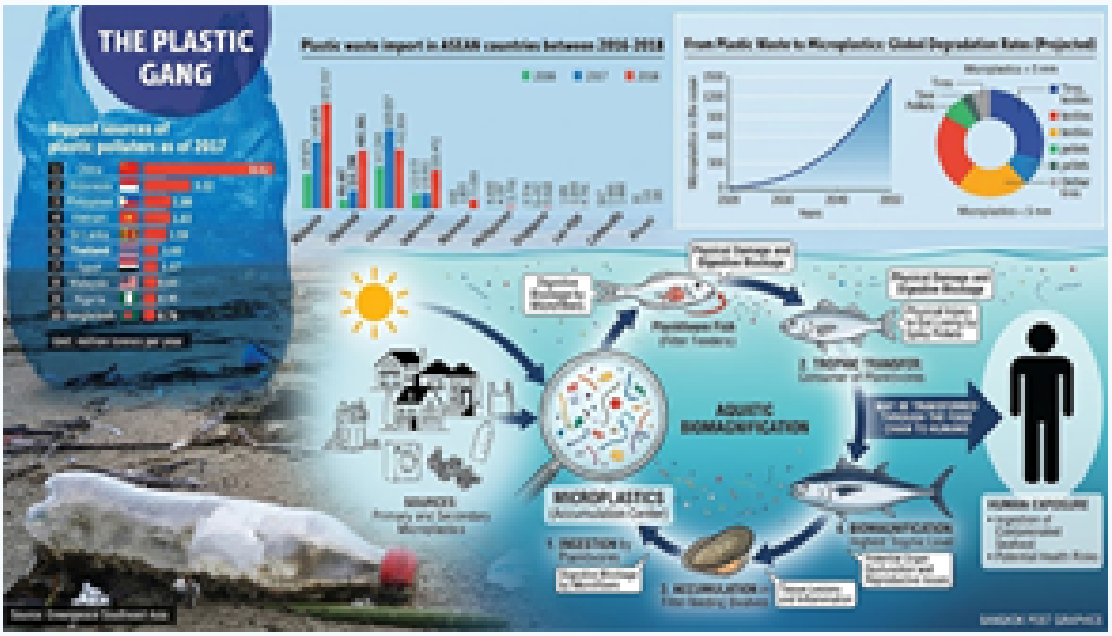


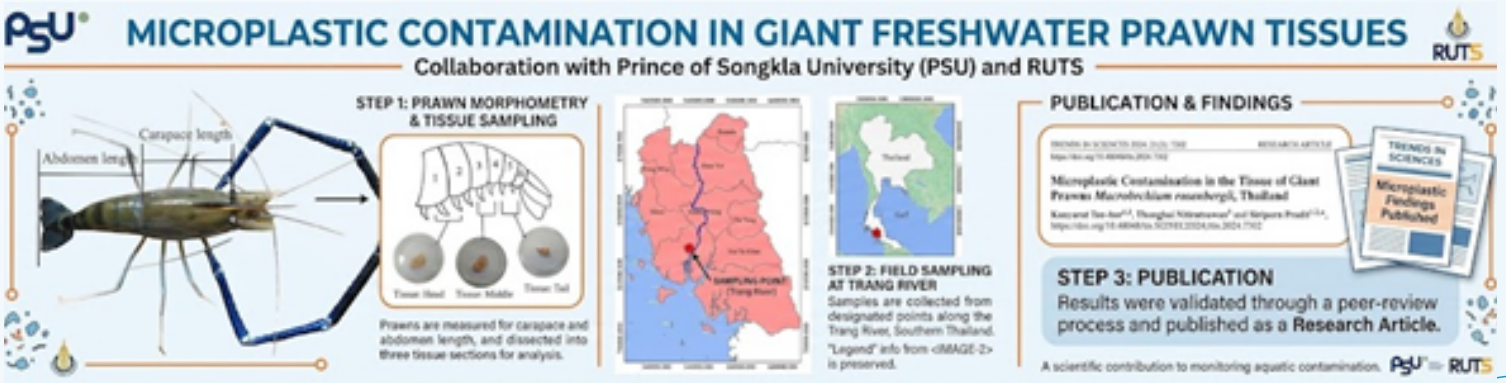




Research and Innovation for Marine and Aquatic Ecosystem Conservation

RUTS advances marine conservation through scientific research, environmental monitoring, and technological innovation. Established in 2021 at the Natural Resources and Environment Institute, Trang Campus, the Microplastic Monitoring Laboratory uses a BRUKER LUMOS II FTIR Microscope to identify and analyse microplastics in aquatic organisms, aquatic plants, and fisheries products. The laboratory provides analytical services to external organisations at THB 800 per sample. Research collaboration with Prince of Songkla University has also examined microplastic contamination in giant freshwater prawns from the Trang River, resulting in publication in an international academic journal.



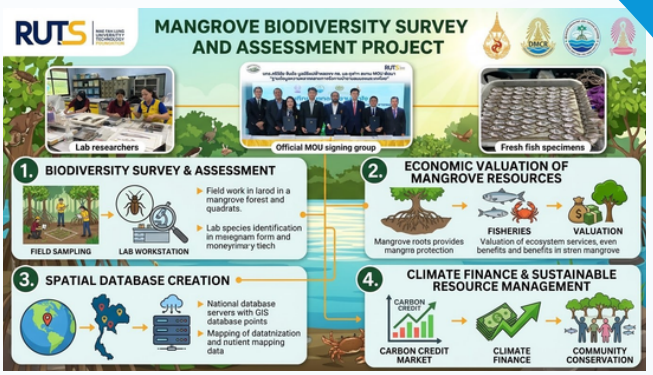


In October 2025, RUTS initiated collaboration with the Mae Fah Luang Foundation under Royal Patronage, the Department of Marine and Coastal Resources, and Chulalongkorn University on mangrove biodiversity assessment and ecosystem economic valuation. The proposed pilot work in Trang Province focuses on developing a geographic information system (GIS) database, assessing mangrove ecosystem services, and exploring climate-finance mechanisms. This collaboration provides a framework for integrating biodiversity research with future conservation planning.

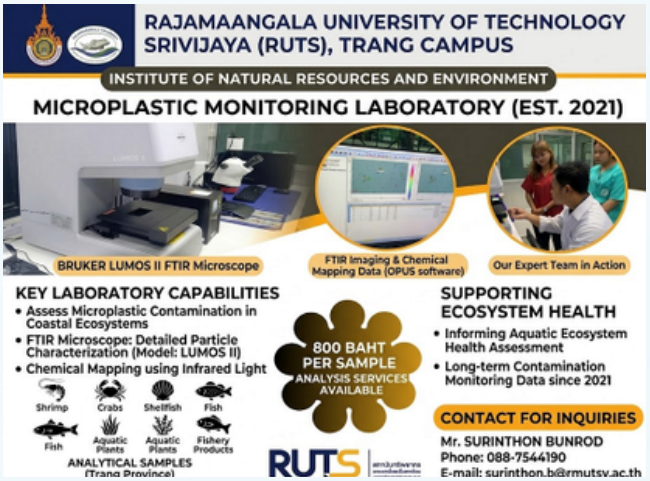


The university also develops water-monitoring technologies for the Songkhla Lake Basin. IoT-based systems monitor water quality and salinity, transmitting data at two-hour intervals and providing notifications through the LINE application. These systems support access to environmental information for water-use planning and responses to saltwater intrusion. Related research extends to flood-monitoring applications in the Na Thom Canal Basin, Khuan Khanun District, Phatthalung Province.











Marine Conservation Outreach and Community Engagement

RUTS collaborates with government agencies, fisheries organisations, private-sector partners, and coastal communities to promote sustainable marine resource management. Established in 2018, the Crab Bank Project has expanded to 77 learning centres and crab banks across 54 communities in nine districts of Trang, Satun, and Krabi Provinces. Participating fishers deposit egg-bearing female blue swimming crabs in holding tanks until their eggs hatch, allowing larvae to be released into natural waters. The approach supports community participation in fisheries conservation while enabling fishers to obtain income from female crabs after spawning. The project received a national public-sector excellence award in 2025.







The Faculty of Science and Technology of Fisheries also transfers oyster aquaculture technologies to coastal communities in Trang Province. Its Oyster Research Unit provides training on hatchery-based oyster seed production and pond cultivation to communities including Hat Sai Khao, Ban Bang Khang Khao, and Ban Thung Thong. These activities aim to reduce dependence on naturally collected oyster seed and strengthen local aquaculture livelihoods.



In November 2025, RUTS participated in the "PUMPUI SEA OF SMILES" seagrass restoration initiative with Kuang Pei San Food Products Public Company Limited and the Trang Small-Scale Fishers Association. At Laem Sai Beach, Trang Province, the project established bamboo protective enclosures in seagrass areas to support habitat recovery and protect dugong feeding grounds. The activity also included the release of 100,000 banana shrimp and 50 egg-bearing female blue swimming crabs into natural waters.

From 25 to 27 June 2025, RUTS collaborated with the Department of Marine and Coastal Resources and the Marine Science Association of Thailand to organise the 8th Marine Science Conference in Trang Province. Under the theme "Science, Technology and Innovation for a Changing Ocean," the conference brought together researchers, conservationists, fishers, and government representatives. Discussions addressed overfishing, illegal, unreported and unregulated (IUU) fishing, destructive fishing practices, seagrass degradation, dugong conservation, and the interconnected challenges of climate change, biodiversity loss, and pollution.





Marine Environmental Education and Experiential Learning

RUTS integrates marine conservation into educational activities involving aquatic biodiversity, coastal habitats, environmental monitoring, and marine pollution. The university has developed virtual reality (VR) educational media comparing healthy underwater ecosystems with marine environments affected by waste contamination. These materials have been presented through outreach exhibitions at schools in Sikao District, Trang Province. Complementary activities include exhibitions featuring artwork created from marine debris and workshops transforming discarded materials into keychains and other products, encouraging young learners to understand marine pollution and responsible waste management.

Experiential learning extends to specialised scientific facilities. The Natural Resources and Environment Institute provides opportunities for veterinary and fisheries students to gain practical experience in microplastic analysis using FTIR microscopy. Students also learn about aquatic animal health, post-mortem examination procedures, and the handling of marine animal specimens through activities associated with the Rajamangala Trang Aquatic Animal Hospital. These experiences connect academic learning with scientific techniques relevant to marine conservation.

Public environmental education is further supported through Trang Aquarium, which provides exhibitions on aquatic animals, aquatic plants, freshwater ecosystems, and aquascaping. The facility serves students, visitors, and the general public by presenting aquatic biodiversity and conservation-related knowledge in an accessible learning environment.









RUTS | SDG 2025

SDG 15

LIFE ON LAND

15 LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and biodiversity loss



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-15

Supporting Land Ecosystems through Education

Rajamangala University of Technology Srivijaya (RUTS) promotes biodiversity conservation through environmental education, professional training, and community outreach. In collaboration with Thung Song Municipality and conservation specialists, the university developed the Eco-Map Curriculum based on the BEEE framework—Biodiversity, Ecosystem, Energy, and Equality—across six municipal schools. Activities included insect surveys, wildlife observation, and ecosystem-based learning. In October 2025, participating schools presented their educational outcomes at an exhibition attended by 40 representatives and visitors from environmental organisations and partner institutions.







RUTS also promotes wildlife conservation education through community-based training. In May 2025, the university organized a snake conservation workshop in Yala Province, supported by Save The Snakes, USA. The programme trained 30 participants in snake ecology, identification, safe handling, humane relocation, and conservation communication. Additionally, a community bird-watching programme at Sirindhorn Botanic Garden, Thung Song, engaged more than 100 participants, including students, teachers, families, and community members. These activities strengthened public understanding of wildlife ecology and the importance of protecting natural habitats.



The university further integrates environmental sustainability into agriculture and tourism education. In December 2025, the Faculty of Agriculture collaborated with the Ron Phibun District Agricultural Office to train 20 farmers in producing Bacillus-based fermented liquid biofertiliser for biological plant disease management and plant growth promotion. An international sustainable tourism programme involving 85 lecturers and students from RUTS and Universiti Utara Malaysia also promoted environmental awareness, responsible tourism, and community-based learning.



Supporting Land Ecosystems through Operational Practices

RUTS implements institutional policies and practical management measures to support sustainable resource use, biodiversity protection, and environmentally responsible campus operations. These initiatives demonstrate how sustainability principles are incorporated into routine university activities, agricultural production systems, and local environmental collaboration.

The Faculty of Agriculture at Thung Yai promotes sustainable on-campus food production through responsible vegetable cultivation and poultry management. Greenhouse vegetable production incorporates crop-health monitoring, quality inspection, and appropriate harvesting practices, while poultry operations emphasize animal health, nutrition, housing management, and welfare. These practices provide safe agricultural products and support practical learning in sustainable farming systems.




The university also applies management practices intended to prevent the uncontrolled spread of alien plant species within agricultural areas. Under its alien-species management policy, Napier grass (Cenchrus purpureus) is harvested and utilized as fresh forage and fermented livestock feed. Regular harvesting supports controlled plant growth and productive use of agricultural resources while providing students with practical experience in responsible forage management.





Biodiversity protection is further supported through institutional collaboration with Thung Song Municipality. RUTS maintains a policy commitment to terrestrial ecosystem conservation and works with local stakeholders to support the protection of limestone-hill habitats and threatened wildlife. These areas provide important ecological conditions for amphibians, reptiles, and other terrestrial organisms. The university's participation in biodiversity monitoring and conservation-related activities contributes scientific information that can inform environmental planning and habitat management.



Waste Disposal with Consideration for Land Ecosystems

RUTS recognizes responsible waste management as an essential component of environmental protection and sustainable institutional operations. The university implements policies and practices addressing plastic waste reduction, waste separation, recycling, hazardous waste disposal, and laboratory biosafety to minimize potential risks to terrestrial ecosystems and environmental quality.

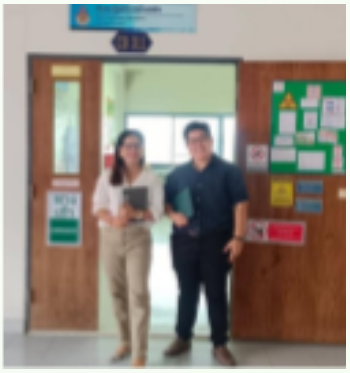
On World Environment Day 2025, RUTS Trang Campus, in collaboration with environmental organizations and community partners, organized activities under the theme of reducing global plastic pollution. The programme included educational exhibitions involving 17 organizations, waste-separation demonstrations, recycling activities, and initiatives encouraging the reuse of discarded materials. These activities promoted responsible waste-management behavior among students, university personnel, and surrounding communities.



Hazardous waste management is implemented through laboratory safety procedures and operational standards. Since 2024, the Plant Pathology Laboratory (CB311), Faculty of Agriculture, Nakhon Si Thammarat Campus, has maintained safety management practices covering potentially hazardous biological and chemical materials, alongside biosafety requirements for research activities.

In 2025, the Plant Pathology Laboratory obtained safety certification associated with the National Research Council of Thailand (NRCT), Certificate No. 16-2025/00001. The laboratory successfully completed a peer evaluation covering eight safety components. The laboratory achieved 92.00% for hazardous waste management and 100% for the component addressing biosafety-related requirements, providing measurable evidence of its implementation of laboratory safety standards.





Research on Terrestrial Ecosystems and Biodiversity Conservation

The university conducts ecological studies to document biodiversity, investigate wildlife distribution, assess habitat conditions, and generate scientific information that can support evidence-based conservation and sustainable ecosystem management.

One of the university's major biodiversity research initiatives examined amphibian and reptile diversity in Thung Song Municipality, Nakhon Si Thammarat Province, between May 2024 and March 2025. Researchers investigated ten study sites, comprising five areas with relatively high levels of human disturbance and five with lower disturbance levels. Field surveys documented 17 amphibian species and 39 reptile species, providing a total of 56 recorded species. The findings highlighted the ecological importance of urban and surrounding limestone habitats, including their role in supporting threatened and habitat-associated wildlife.

The research documented species of conservation concern, including the Critically Endangered Elongated Tortoise, Endangered Asian Box Turtle, and Vulnerable Beautiful Pit Viper. These records emphasize the importance of protecting specialized habitats and maintaining biodiversity in landscapes affected by human development. Research findings were also communicated through the educational publication Amphibians and Reptiles of Thung Song, supporting public access to biodiversity information.



In 2025, additional biodiversity monitoring focused on limestone-hill ecosystems and the beautiful pit viper (Trimeresurus venustus), a species associated with limestone habitats and listed as Vulnerable on the IUCN Red List. Researchers conducted nocturnal field surveys in collaboration with wildlife specialists and local conservation groups to document species occurrence and habitat conditions. These investigations contributed ecological information relevant to threatened-species monitoring and future habitat-conservation planning.



RUTS also supports research-informed biodiversity protection through participation in conservation-related academic networks and activities involving IUCN assessment approaches. By connecting scientific investigation with local authorities, schools, conservation organizations, and communities, the university promotes the application of ecological knowledge to environmental education and conservation planning.



RUTS | SDG 2025

SDG 16

PEACE, JUSTICE AND STRONG INSTITUTIONS

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels



https://sdgs.rmutsv.ac.th/evidence-2025/sdgs-16

Participatory Governance and Institutional Decision-Making

Rajamangala University of Technology Srivijaya (RUTS) operates under a governance framework established by the Rajamangala University of Technology Act, B.E. 2548 (2005). Section 15 provides for a University Council comprising a Council President appointed by Royal Command, ex-officio members including the University President and the Chair of the Faculty and Staff Council, and other members as prescribed by law. In 2025, Professor Emeritus Dr. Piemsak Menasveta was appointed President of the RUTS Council. This statutory structure provides a formal mechanism for institutional oversight, policy development, and university-level decision-making, incorporating representation from academic personnel and other designated stakeholders.







Student participation is supported through the university's elected student representative system. For the 2025 academic year, RUTS announced the official election results for the President of the Student Organisation. The student representative structure includes participation from different faculties and colleges, providing opportunities for students to contribute to the organisation of student activities, the representation of student interests, and the management of student affairs.

Institutional governance is further strengthened through policy review and administrative development. From 30 October to 1 November 2025, President Professor Dr. Suwat Thanyaros and the university's executive leadership participated in a policy seminar in Krabi Province. The programme provided opportunities to exchange academic and administrative perspectives, review university regulations, and discuss approaches to improving organisational efficiency and responsiveness. These activities form part of the university's efforts to maintain an institutional management framework that responds to changing educational and administrative requirements.

Institutional Integrity and Anti-Corruption

RUTS promotes ethical conduct, transparency, and accountability through institutional policies addressing corruption prevention and conflicts of interest. The university published its No Gift Policy for Fiscal Year 2025 on its official website, communicating its commitment to preventing corruption and misconduct in the performance of official duties.

The policy requires university administrators and personnel to refrain from accepting gifts or rewards associated with their official responsibilities, including before, during, and after performing those duties. It also seeks to prevent situations in which personal interests may conflict with the public interest, reinforcing standards of impartiality and ethical conduct among university personnel.

By making the No Gift Policy publicly accessible, RUTS communicates its institutional expectations regarding integrity and responsible public administration. The policy provides a formal basis for discouraging inappropriate benefits and promoting transparent decision-making in university operations.



Financial Transparency and Accountability

RUTS supports institutional financial transparency through the public disclosure of financial information and audit documentation. For Fiscal Year 2025, the university made its financial audit report available through its official finance website (https://finance.rmutsv.ac.th/ruts/financial-statement-audit-report/), providing stakeholders with access to documentation concerning the university's financial management.

The publication of financial audit information supports public accountability by allowing interested parties to examine officially reported financial information. It also provides a documentary basis for institutional oversight and the review of financial administration within the university's governance framework.

Collaboration for Evidence-Based Policy and Regional Development

RUTS collaborates with national research organisations, government agencies, and regional partners to strengthen the application of academic research and innovation to public policy and community development. Since Fiscal Year 2020, the university has worked with the Program Management Unit for Area-based Development (PMU-A) on initiatives involving innovative communities, local enterprises, and the application of appropriate technologies across seven southern provinces: Songkhla, Nakhon Si Thammarat, Trang, Krabi, Phatthalung, Satun, and Pattani.

The collaboration focuses on four development areas: tourism, agriculture, natural resources and the environment, and the Andaman Smart City initiative. Activities seek to connect university research with the needs of households, local entrepreneurs, communities, and local administrative areas. Reported achievements include the establishment of 30 innovative villages across 20 subdistricts in seven provinces, demonstrating the geographical reach of the university's area-based research and development activities.



The university also participates in national initiatives that connect research outcomes with policy priorities and practical applications. In 2025, RUTS participated in the second “RU CONNEXT: Bridging Thai Research to Real-World Application (Southern Region)” event, organised by Thailand Science Research and Innovation (TSRI) under the Ministry of Higher Education, Science, Research and Innovation. The programme brought together TSRI executives, representatives of Program Management Units, university administrators, and researchers to review research outcomes developed under the national Science, Research, and Innovation Plan.

Discussions focused on identifying high-potential research and innovation projects and exploring approaches to their practical application in economic, social, regional, and policy contexts. Through participation in these national and regional cooperation mechanisms, RUTS contributes academic expertise and research findings to discussions on development priorities, technology application, and the wider use of publicly supported research.









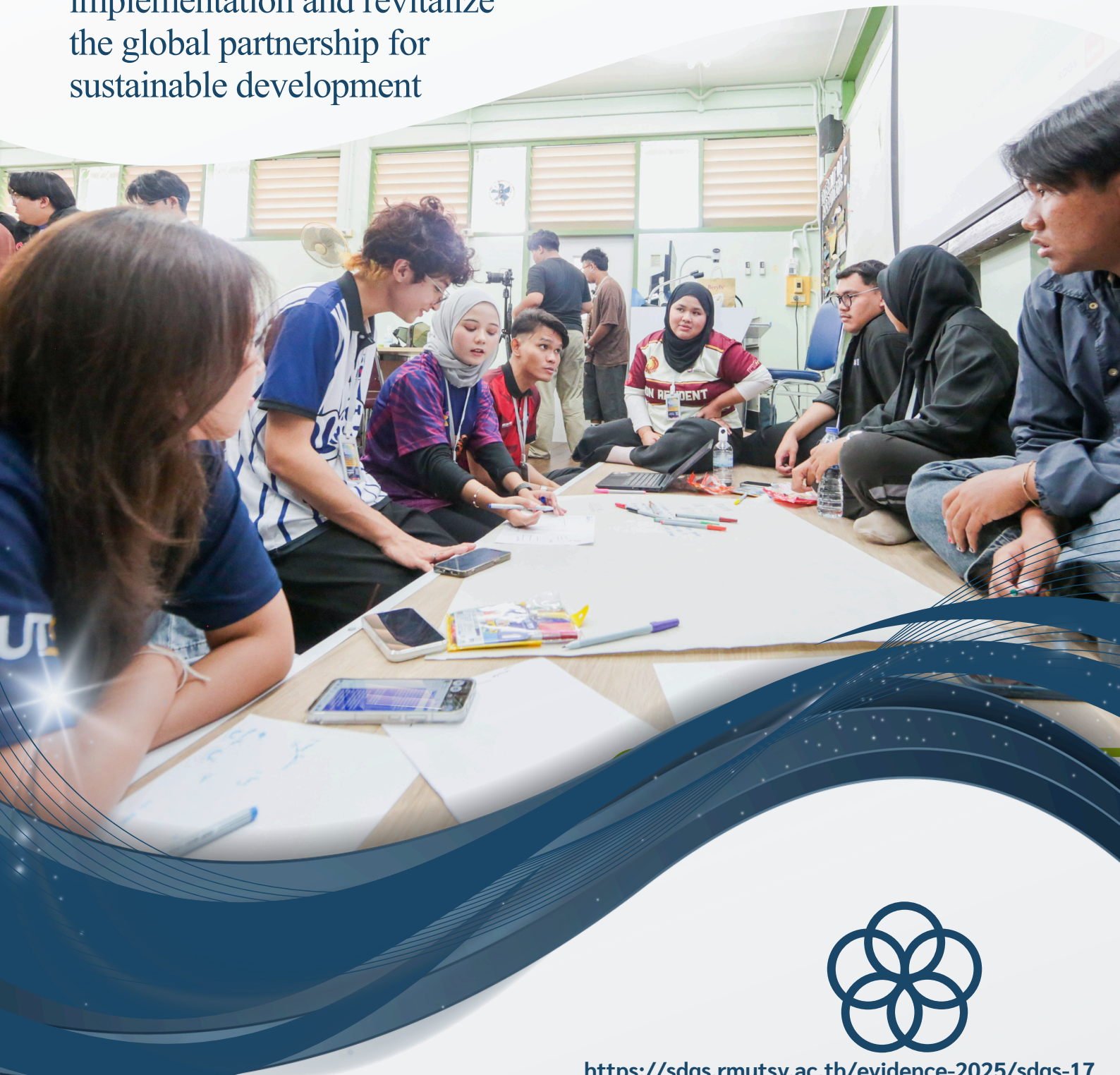


SDG 17

PARTNERSHIPS FOR THE GOALS

17 PARTNERSHIPS FOR THE GOALS

Strengthen the means of implementation and revitalize the global partnership for sustainable development



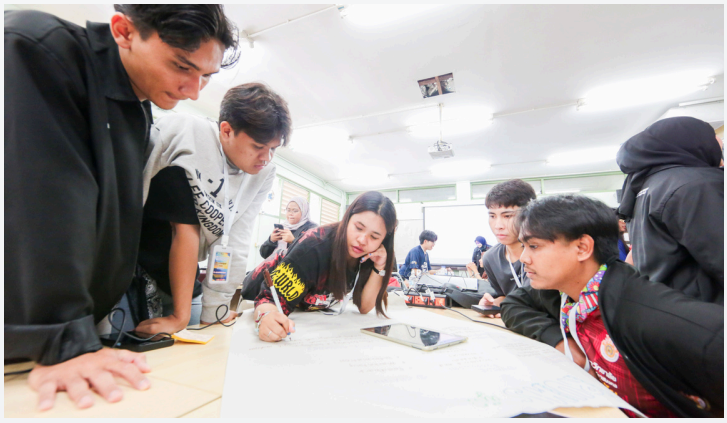
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International Academic Partnerships and Mobility

Rajamangala University of Technology Srivijaya (RUTS) strengthens international academic cooperation through partnerships with universities and educational institutions in Malaysia, China, Indonesia, and other countries. Key partners include Universiti Malaysia Perlis (UniMAP), Universiti Utara Malaysia (UUM), Universiti Teknologi MARA (UiTM), Universiti Teknologi PETRONAS (UTP), Universiti Sains Malaysia (USM), Chongqing University of Posts and Telecommunications (CQUPT), Kunming Railway Vocational and Technical College (KRVTC), and Southwest University. These partnerships support academic exchange, collaborative research, curriculum development, professional training, and institutional knowledge sharing.

In 2025, RUTS strengthened international academic cooperation through its International Collaboration Camp programme, comprising 13 camps organised with partner institutions. The programme covered diverse academic and professional fields, including civil engineering with USM; artificial intelligence, robotics, and entrepreneurship with UTP; smart farming with UniMAP; digital marketing and business with UUM; accounting and student leadership with UiTM; and tropical aquaculture with Universiti Malaysia Terengganu (UMT). Through workshops, practical training, collaborative activities, and cultural exchanges, the camps provided opportunities for students and academic staff to develop professional competencies, strengthen intercultural communication, and exchange knowledge across disciplines.













International student and staff mobility also forms an important component of these partnerships. Initiatives include specialised railway engineering training at KRVTC in China and teaching assistant exchanges with CQUPT. In March 2025, RUTS and KRVTC renewed their memorandum of understanding, reaffirming their commitment to technical education and institutional cooperation. These programmes provide opportunities for participants to gain practical experience, develop technical and teaching expertise, and strengthen professional networks through international learning environments.



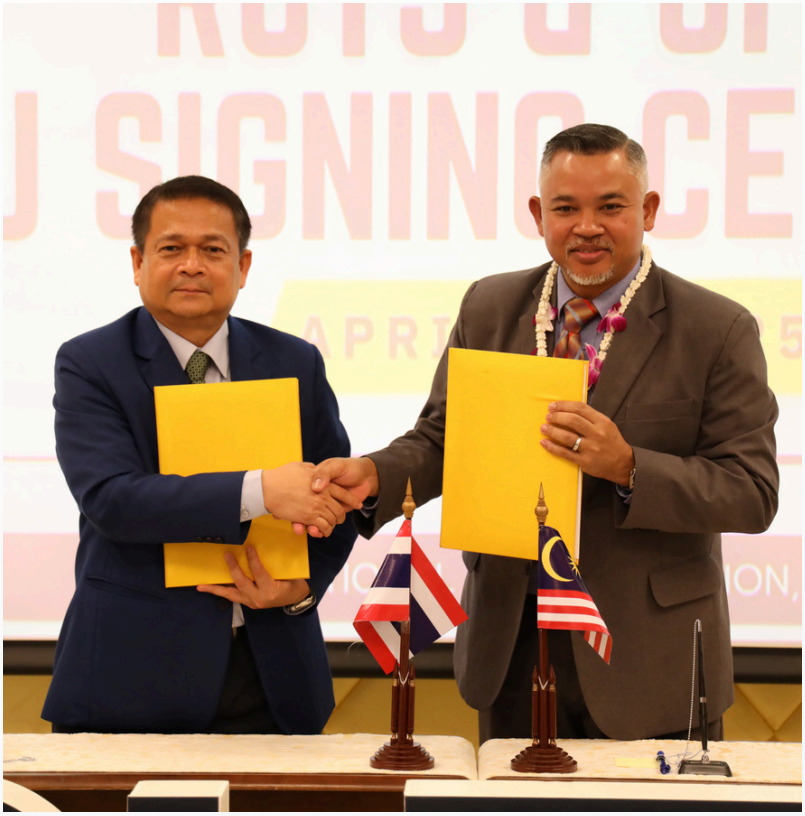




International Academic Partnerships and Mobility

In May 2025, an RUTS delegation visited UiTM, Malaysia, to strengthen cooperation in academic development, research, and international mobility. Discussions covered collaborative activities in surveying engineering, accounting education, student and staff exchanges, the Hydro and Survey Camp, international accounting workshops, and postgraduate study opportunities. The visit provided a platform for identifying potential joint initiatives and expanding academic collaboration between the two institutions.





International academic cooperation also extends to staff mobility and knowledge exchange under the Erasmus+ Programme. Through the Staff Mobility for Teaching initiative, RUTS engaged with lecturers and researchers from the University of Latvia in academic and field-based activities in fisheries technology. These activities included aquatic sample collection and opportunities for students and staff to exchange knowledge and practical experience with international academics, strengthening teaching collaboration and international academic engagement.

Industry and Multisectoral Collaboration

RUTS promotes university–industry partnerships through memoranda of understanding, cooperative education, professional training, collaborative research, and technology transfer. In 2025, Rattaphum College established cooperation agreements with 14 organisations across sectors including healthcare, engineering, agriculture, digital technology, renewable energy, and business. These partnerships connect academic education with industry expertise, supporting opportunities for internships, professional skills development, collaborative research, and technology transfer.





RUTS also participates in cross-sector initiatives involving universities, government agencies, and private-sector organisations. One example is the Green Career Online Learning Platform, developed through collaboration among the nine Rajamangala Universities of Technology, Chevron Thailand, and external partners. The initiative promotes access to learning opportunities related to green careers and workforce development, connecting educational institutions with industry expertise.

In May 2025, RUTS also engaged in collaboration with the Creative Economy Agency (CEA), strengthening connections between academic expertise and creative economic development. This cooperation provides opportunities to link university knowledge, innovation, and local creative resources with broader economic development initiatives.

Government Partnerships and Regional Development

In 2025, RUTS strengthened cooperation with government agencies and regional organisations in water-resource management and regional development. In December, RUTS representatives met with the Songkhla Provincial Administrative Organization to discuss the proposed Water Monitoring and Command Centre (War Room), environmental data integration, knowledge transfer, and the application of university research to local government operations.

RUTS also participates in regional water-resource governance through the Songkhla Provincial Water Resources Subcommittee, the Songkhla Lake Basin Committee, and the Western Southern River Basin Committee. These collaborative mechanisms facilitate knowledge exchange and discussions on water allocation, flooding, drought, and environmental management.

Beyond water-resource management, RUTS collaborates with the Program Management Unit for Area-based Development (PMU-A) to connect university research with regional development priorities. Since Fiscal Year 2020, this partnership has supported appropriate technology transfer, community enterprises, and local innovation across seven southern provinces, linking academic expertise with government-supported community development initiatives.

Community Partnerships and Environmental Sustainability

RUTS collaborates with the Ram Daeng Subdistrict Administrative Organization in Songkhla Province to explore the development of community-based tourism and local learning resources. The cooperation brings together university representatives, local authorities, and entrepreneurs to discuss opportunities for using local knowledge and cultural and natural resources in sustainable tourism development.

In June 2025, the Student Union of the Faculty of Industrial Education and Technology collaborated with the Women's Community Enterprise of Huakhao Subdistrict, Songkhla Province, through the “Singora Colors: The Story of Natural Dyeing” project. Students worked alongside community members to prepare natural dyeing materials, dye fabrics, and create textile products, combining practical learning with the preservation of traditional craftsmanship and local knowledge.





SDG REPORT 2025

SUSTAINABLE DEVELOPMENT GOALS



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