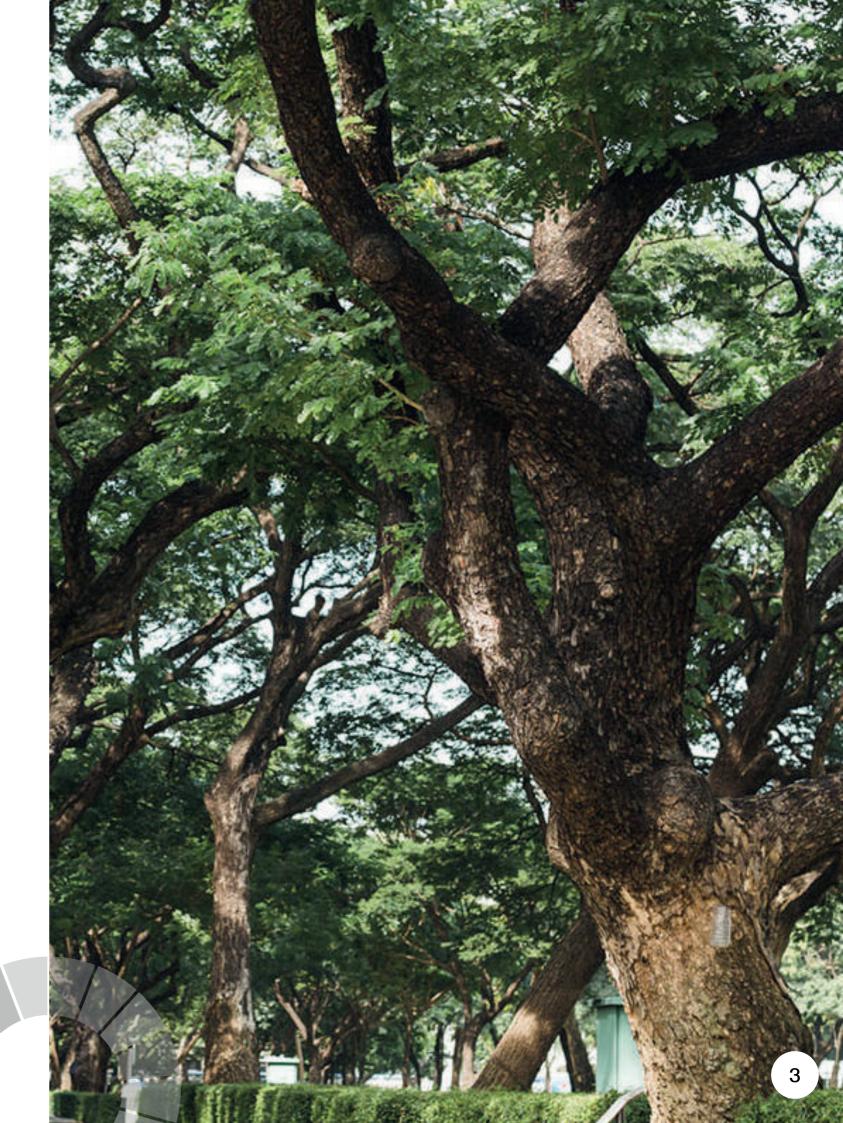




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Message from the President

Professor Wilert Puriwat, D.Phill President Chulalongkorn University

It is my privilege to share with you the Chulalongkorn University Sustainable Development Goals (SDG) Report 2024–2025. This publication captures our continuing journey toward excellence in education, research, and innovation, as well as our responsibility to create meaningful impact on society.

This year, Chulalongkorn University has received global recognition for our efforts. We are proud to be ranked Top 44 in the world and No. 1 in Thailand in the Times Higher Education Impact Rankings 2025. Our work in SDG 9: Industry, Innovation and Infrastructure placed us at the No. 1 spot in ASEAN with a score of 99.7 out of 100. We also achieved a Top 5 global ranking in SDG 3: Good Health and Well-Being, and a Top 20 position in SDG 8: Decent Work and Economic Growth. These milestones reflect our strong commitment to the UN Sustainable Development Goals and highlight the collective efforts of our students, faculty, staff, and partners.

At Chulalongkorn, we believe a university must go beyond knowledge creation. We must be a driving force for positive change—whether through advancing the Bio-Circular-Green (BCG) economy, supporting Thailand's path toward Net Zero, or nurturing the next generation of leaders. Our initiatives in clean energy, sustainable cities, healthcare innovation, and cultural preservation all speak to this mission.

However, building a sustainable world is not the responsibility of universities alone. It requires all of us to act together. I encourage each of you to take part, to pay attention to how your choices shape the future, and to see sustainability not as an obligation but as an opportunity to create lasting value for society.

The challenges of our time are significant, but they also present opportunities to lead with vision and resilience. I am truly proud of how our community continues to rise to these challenges, working with determination and creativity to build a more sustainable and inclusive future. By joining efforts, we can shape a better world—not only for ourselves, but for generations to come.







Chula's Continuing Commitment to the SDGs

Associate Professor Siridej Sujiva, Ph.D. Vice President
Chulalongkorn University

At Chulalongkorn University, we believe that sustainability is not a choice but a responsibility. Guided by the United Nations' Sustainable Development Goals (SDGs), we build on our legacy of academic excellence while addressing the urgent challenges of climate change, social equity, and sustainable innovation.

In 2024–2025, this mission was advanced through projects that link research, teaching, and community engagement. From pioneering carbonneutral initiatives and promoting green mobility, to empowering local communities through circular economy practices and resilient food systems, our efforts reflect the university's role as both a national leader and a global partner in sustainable transformation.

What defines these efforts is their real impact on people and society. By fostering innovation and resilient infrastructure, we support new ideas and green technologies that drive competitiveness and prepare society for future challenges. By advancing health and well-being, we extend care to communities and promote prevention, helping to improve quality of life and reduce inequality.

And by creating opportunities for inclusive growth, we equip students and local communities with the skills they need to thrive in a fast-changing world—empowering them with dignity, stability, and the capacity to contribute meaningfully to society.

This impact can be clearly seen in flagship initiatives. The Care D+ program, developed with the Ministry of Public Health, has trained over 20,000 healthcare professionals in empathic and crisis communication, reducing conflicts in hospitals and restoring trust between patients and providers. The Law Square initiative has turned legal knowledge into a public resource by offering free consultations on issues from taxation to online crime, making the law accessible and empowering citizens. Meanwhile, the Active-Aging Policy Project has shaped national and regional frameworks to ensure older adults remain active, engaged, and valued—transforming demographic challenges into opportunities for stronger social cohesion.

As we present this SDG Report, my hope is that our progress will not only inform but also inspire. The path to sustainability demands vision, resilience, and compassion. Chulalongkorn University is committed to walking this path with purpose and responsibility, ensuring that what we build today will create a brighter and more sustainable tomorrow.

Chulalongkorn University and the Sustainable Development Goals: Vision, Importance, and Strategic Integration through the 4I Framework

Introduction

The adoption of the United Nations Sustainable Development Goals (SDGs) has reshaped the global higher education landscape, compelling universities environmental stewardship, and economic resilience. Chulalongkorn University (CU) recognizes the imperative to embrace this framework not only as a compliance mechanism but as a transformative pathway to remain competitive, relevant, and impactful in the 21st century. The CU Strategic Plan 2567-2571 BE (AD 2024-2028) situates SDGs as a central driver of institutional change. integrating them into teaching, research, community engagement, and organizational governance. This section articulates the vision of CU in relation to the SDGs. underscores their importance, and demonstrates how they are embedded within the four growth strategies— International, Impactful, Internal, and Integrated (the "41" framework)—with students as the intellectual core.

Why the SDGs?

The SDGs represent an unprecedented global consensus on how societies should address complex, environmental degradation, and sustainable growth. as a global benchmark of excellence, directly influencing systems. This is particularly significant given CU's ambition to consolidate its standing as a "Global Thai University" that delivers life-changing values through Second, SDGs are closely aligned with national policies, including Thailand's 20-Year National Strategy, the 13th National Economic and Social Development Plan, and the Bio-Circular-Green (BCG) Economy Model. Economic and Social Development Plan, and the Bio-Circular-Green (BCG) Economy Model. By positioning itself as a leader in sustainability, CU not only advances the national agenda but also creates opportunities to shape public policy. Third, integrating SDGs enhances CU's ability to transformation, SDGs provide a common language

industry partners, government agencies, civil society, and international collaborators. Finally, SDGs resonate with CU's historical role as a national institution committed to social betterment. The university's philosophy of "Chula Power of Togetherness" emphasizes the collective responsibility of students, faculty, alumni, and stakeholders to co-create solutions that improve quality of life for Thai citizens and global communities

Importance of SDGs for Chulalongkorn University

Embedding the Sustainable Development Goals (SDGs) within Chulalongkorn University's (CU) strategic framework yields multifaceted benefits across education, research, governance, and societal engagement. Educational transformation (SDG 4: Quality Education) lies at the core, as CU is committed to producing graduates who are not only skilled professionals but also ethical, inclusive, and sustainability-oriented leaders. Initiatives such as lifelong learning programs, online platforms like CU MOOCs, and international exchange opportunities broaden access to knowledge and prepare students for global citizenship. These efforts also advance SDG 5 (Gender Equality) and SDG 10 (Reduced Inequalities) by promoting diversity, equity, and inclusion in all learning environments.

contributes directly to SDG 9 (Industry, Innovation, and Infrastructure) through pioneering work in advanced materials, AI, and digital transformation, while also supporting SDG 7 (Affordable and Clean Energy) through renewable energy and efficiency projects. CU's research in sustainable agriculture and food innovation reinforces SDG 2 (Zero Hunger), while medical research, hospital networks, and wellness programs advance SDG 3 (Good Health and Well-Being). Health and Well-Being). Projects on sustainable urban systems and cultural heritage preservation align with SDG 11 (Sustainable Cities and Communities), while climate adaptation, carbon neutrality, and biodiversity conservation strengthen SDG 13 (Climate Action), SDG 14 (Life Below Water), and SDG 15 (Life on Land). In CU also engages with SDG 1 (No Poverty) by providing scholarships and outreach to vulnerable groups, and SDG 6 (Clean Water and Sanitation) through water management innovations and campus sustainability

Internally, CU is committed to becoming a model sustainable organization (SDGs 8 and 12) by fostering decent work environments, inclusive career pathways, and responsible consumption and production systems. Staff development programs, mental health initiatives, and flexible governance systems embody CU's commitment to organizational resilience and lifelong value creation. Equally, by promoting ethical leadership, policy innovation, and transparent governance, CU advances SDG 16 (Peace, Justice, and Strong Institutions), strengthening its role as a trustworthy national institution.

Internally, CU is committed to becoming a model sustainable organization (SDGs 8 and 12) by fostering decent work environments, inclusive career pathways, and responsible consumption and production systems. Staff development programs, mental health initiatives, and flexible governance systems embody CU's commitment to organizational resilience and lifelong value creation. Equally, by promoting ethical leadership, policy innovation, and transparent governance, CU advances SDG 16 (Peace, Justice, and Strong Institutions), strengthening its role as a trustworthy national institution.

Collectively, these initiatives show how CU addresses all 17 SDGs in an interconnected manner. By embedding sustainability into every dimension of its strategy, the university reinforces its aspiration to be Thailand's most admired, connected, and sustainable institution—one that delivers life-changing values for students, communities, and the world.

The 4I Framework and SDG Integration

The operationalization of the SDGs at CU is achieved through its "4I Growth Strategy"—International, Impactful, Internal, and Integrated Growth—anchored in the principle of placing students at the intellectual core.

International Growth emphasizes global engagement and knowledge exchange. By linking SDGs with initiatives such as international accreditation, global research centers, and academic exchange programs, CU strengthens its reputation while advancing goals related to quality education (SDG 4), innovation and infrastructure (SDG 9), and partnerships (SDG 17). The importance of this dimension lies in preparing graduates with global competence and positioning CU as a hub for sustainability-focused collaboration. Its impact extends beyond the university by producing research and innovations—ranging from renewable energy to artificial intelligence—that benefit societies worldwide.

Impactful Growth underscores CU's role as a socially responsible institution that translates academic outputs into tangible benefits for communities. Initiatives such as the Chula Sustainability Model and carbonneutral agriculture illustrate how SDGs anchor the university's contributions to no poverty (SDG 1), zero hunger (SDG 2), sustainable cities (SDG 11), and climate action (SDG 13).

The importance of this dimension lies in ensuring that CU does not operate in isolation but actively shapespublic policy and community development. The impact is visible in cleaner environments, more sustainable agricultural systems, and stronger social institutions. Importantly, students become engaged as agents of change, cultivating a philanthropic spirit while participating in projects that advance national and global sustainability agendas.

Internal Growth focuses on strengthening CU as a sustainable organization. This includes embedding the SDGs into governance, staff development, and wellness initiatives, aligning with good health and well-being (SDG 3), gender equality (SDG 5), decent work (SDG 8), and responsible consumption (SDG 12). The importance of this dimension lies in the recognition that external impact requires internal transformation. By modeling sustainability within its operations, CU demonstrates organizational resilience, inclusivity, and adaptability. The impact is twofold: faculty and staff experience healthier and more supportive work environments, while students benefit from a campus culture that reflects ethical governance and sustainable practices. In this way, CU becomes not only a place of learning but also a living example of sustainability.

Integrated Growth highlights the synergy between CU's networks and external partnerships. Through initiatives involving alumni, industry collaborations, and PMCU projects, CU integrates sustainability into innovation and enterprise ecosystems. This dimension is directly connected to SDGs on economic growth (SDG 8), sustainable communities (SDG 11), strong institutions (SDG 16), and partnerships (SDG 17). Its importance lies in amplifying the reach of CU's sustainability mission by ensuring that knowledge and innovations are not siloed but disseminated through society, culture, and the economy. The impact includes stronger alumni networks, more resilient industries, and greater national competitiveness. Cultural "soft power" initiatives also allow CU to extend its influence internationally, fostering sustainable development beyond Thailand's borders.

In summary, the linkage between CU's 4I Growth Strategy and the SDGs illustrates how a university can move from vision to action, ensuring that sustainability is embedded across all aspects of teaching, research, governance, and engagement. The importance of this integration lies in its ability to transform the university into a model of excellence, relevance, and responsibility. The impacts are wide-ranging: students are prepared to be ethical leaders and global citizens, Thailand benefits from research and innovation aligned with the BCG economy model, and the international community gains a partner committed to solving global challenges. Ultimately, the SDGs empower Chulalongkorn University to deliver on its mission of providing life-changing values through innovative wisdom, mastery, and philanthropic spirit, reaffirming its leadership as Thailand's most admired, connected, and sustainable university.

Chulalongkorn University Social Innovation Hub (CU SiHub)

Chulalongkorn University Social Innovation Hub: Advancing Academic Impact Through Sustainable Innovation

In an era increasingly shaped by social and environmental challenges, the role of academia has evolved beyond traditional research and education. Institutions are now called upon to serve as incubators for practical change, offering solutions that are inclusive, sustainable, and transformative. At the forefront of this evolution is the Social Innovation Hub (CU SiHub), launched in 2020 by Chulalongkorn University to bridge academic expertise with tangible societal benefit.

Strategic Vision

CU SiHub was conceived as a central node in Chulalongkorn University's mission to become a Global University for All, one that integrates academic excellence with long-term social value. It aims to advance non-profit-driven innovation, engaging multidisciplinary teams to cocreate solutions with local communities, public agencies, and global partners.

By fostering an innovation ecosystem rooted in empathy, equity, and responsibility, CU SiHub sets the stage for developing policy-informed, community-integrated innovations that address pressing challenges—ranging from aging demographics to environmental degradation.

Focus Areas and Impact Domains

CU SiHub concentrates its efforts across four strategic areas:

- Aging Society Innovation: Projects targeting healthcare access, digital inclusion, and community resilience for elderly populations.
- Design for Society: Leveraging architecture, urban design, and digital technologies to build inclusive spaces and civic infrastructure.
- Sustainable Community and Creative Tourism: Initiatives that empower local communities through eco-tourism models and cultural preservation.
- Art and Humanities for Inspiration: Integrating artistic and cultural expressions into civic engagement and public dialogue.

These thematic areas reflect CU SiHub's commitment to interdisciplinary collaboration, ensuring that solutions are comprehensive, context-sensitive, and scalable.

Building Collaborative Infrastructure

Over the past years, the Chulalongkorn University Social Innovation Hub (CU SiHub) has served as a platform for fostering collaboration between the university and external partners. CU SiHub has actively connected with leaders from outside organizations, particularly CEOs of companies engaged in social innovation, as well as

distinguished experts from international and local organizations. These partners have been invited to deliver lectures, share their experiences, and provide practical guidance to Chulalongkorn students, faculty members, and researchers.

Through these engagements, CU SiHub has built an ecosystem that bridges academic knowledge with real-world practice. This collaborative infrastructure not only enriches the learning environment within the university but also empowers the CU community to design, test, and scale innovative solutions to pressing social and environmental challenges, in alignment with the United Nations Sustainable Development Goals (SDGs).

Innovation in Education

CU Social Innovation Hub (CU SiHub) supports and funds faculty members and researchers to transform their ideas into prototypes, and further into real-world innovations that directly benefit communities and society. Some of these initiatives focus on education while simultaneously improving the quality of life within local communities.

A notable example is the Bang Pho Living Lab, initiated by the Faculty of Architecture. The project revitalized the woodworking heritage of the Bang Pho district, a community historically known as the "Wood Street." By creating a collaborative experimental space, students and community members jointly developed wood-based products that respond to contemporary market demands while preserving traditional craftsmanship. In 2023, 266 students engaged in handson learning with community members, co-creating new designs and presenting outcomes in the exhibition Bang Po(ssible) 2: Co-Creation Learning Platform with Community.

This Living Lab model demonstrates how academic innovation can strengthen education, empower students through experiential learning, and contribute to the preservation of local wisdom, all while enhancing community resilience and cultural continuity.

Community Outreach and Societal Integration

CU SiHub's outreach efforts continue to deepen its ties with local and regional communities. This year's highlights include:

- Nan Social and Environmental Innovation: An initiative that developed and applied innovations with local vendors along the Nan walking street, encouraging both sellers and buyers to reduce the use of plastic packaging and disposable containers. This project promotes sustainable consumption patterns while strengthening community awareness of environmental responsibility.
- Creative Tourism: A creative tourism roadmap developed in partnership with rural artisans and small enterprises in Nan, Thailand.
- Flex-FreeForm: An innovative process for farmers to transform vetiver grass into a soft, shock-absorbing padding material, branded as "Soft Vetiver." This eco-friendly product not only provides a sustainable alternative to synthetic packaging materials but also creates new income-generating opportunities for local farmers by making the product commercially viable.

Through these initiatives, CU SiHub continues to demonstrate how academic innovation can generate tangible social and environmental impact, supporting both community well-being and the advancement of the United Nations Sustainable Development Goals.

Alignment with Sustainable Development Goals

CU SiHub's operations are fully aligned with the UN Sustainable Development Goals (SDGs), particularly SDG 3 (Good Health and Well-being), SDG 11 (Sustainable Cities and Communities), and SDG 17 (Partnerships for the Goals). Its programs promote inclusive growth, reduce inequality, and support resilient systems—all while instilling a culture of global citizenship within the university.

Future Directions

CU SiHub enters 2026 with a renewed commitment to scaling impact and deepening innovation Strategic plans include:

- Establishing cross-border networks to promote mutual learning on social innovation design and implementation.
- Promoting the utilisation of social innovations to create wider and more sustainable impact across communities and society.
- Supporting the development of social enterprises as a pathway to sustainable social progress through innovation

Together, these directions highlight CU SiHub's role as a catalyst for bridging academia, industry, and communities. By driving collaboration, knowledge exchange, and innovation-driven solutions, CU SiHub aims to strengthen Chulalongkorn University's contribution to the Sustainable Development Goals and to position the university as a leading hub for social innovation in the region and beyond.

Contact and Engagement

CU SiHub is located on the ground floor of isid Prachuabmoh Building, Chulalongkorn University, Stakeholders and collaborators can reach the hub via:

Email: sukanya.po@chula.ac.th

Phone: +66 2218 0213

Website: CU Social Innovation Hub







No Poverty ขจัดความหิวโหย

End poverty in all its forms everywhere

ขจัดความยากจนทุกรูปแบบ ทุกสถานที่

From Pasture to Prosperity: Transforming Rural Livelihoods in Nan Province

In the heart of Nan Province, where mountains cradle quiet villages and generations have lived off the land, a silent transformation is taking root. The School of Agricultural Resources has ignited hope in this region through two powerful initiatives that one focused on developing a community-based native cattle business, and the other on delivering essential animal healthcare services. Together, these programs are rewriting the story of rural poverty, blending tradition with innovation to create lasting impact.

For decades, raising native beef cattle was a way of life in Nan, a source of nutrition, family pride, and income. Yet with limited access to markets, proper training, and veterinary support, most farmers operated in isolation, unable to improve their herd's value or make consistent profits. Livestock illnesses could turn productive assets into financial burdens. Families were vulnerable; livelihoods were unstable.

Recognizing these challenges, the Community Business Network Development for Native Cattle Project took shape. Its mission: to unite small-scale cattle farmers into a cohesive business



network that could thrive in a modern, competitive agricultural economy. The project brought together villagers across Nan, training them in breeding methods, feed improvement, and business management. It encouraged collaboration-neighbors now share knowledge, coordinate sales, and plan breeding cycles collectively.

Market access improved as farmers learned how to brand their beef, negotiate prices, and meet quality standards. The network became more than an economic strategy; it was a social bond, connecting people through shared goals. Households began earning consistent income. Farmers took pride in their role as entrepreneurs, not just laborers.

But none of this progress would be sustainable without healthy cattle and that's where the second initiative came in. The Animal Health Care Service Project deployed mobile veterinary units to remote villages, offering everything from vaccinations to emergency treatment. More than just treating disease, the project focused on education: farmers learned to spot early symptoms, apply preventive care, and maintain sanitary conditions.





This proactive approach paid off. Livestock mortality dropped. Productivity rose. Families who once lost animals to preventable conditions began seeing returns on their investment. With healthier animals, farmers could participate fully in the business network, creating a feedback loop of growth and resilience.

On June 13, 2024, this momentum expanded beyond cattle as another community-driven project gained ground. The frog farming initiative, launched by Chulalongkorn University through its Regional Learning Network Center and the Department of Biology, Faculty of Science, demonstrated how diverse agricultural strategies can strengthen resilience and income security for rural households.

This project attracted considerable interest from the people of Nan Province, citing the multifaceted benefits of raising frogs. Beyond providing a source of protein, frog farming contributes to biological and medical research, while also creating new career opportunities. Participants included farmers from Ban Nong Charoen, personnel from the Phu Fa Development Center in Bo Kluea District, and personnel from the Regional Learning Network Center, totaling 43 people.

Activities included a lecture on frog reproduction and breeding techniques, a video presentation on "Motivation for Frog Farming", and a hands-on workshop on frog breeding and tadpole development monitoring. These knowledge-sharing sessions enabled farmers to see frog farming not only as a supplementary income source, but also as an accessible and sustainable business model.

Together, these projects are more than agricultural upgrades and they are lifelines. They address the root causes of poverty by stabilizing income, increasing knowledge, and building community infrastructure.

Economic empowerment is paired with health security. Opportunity replaces uncertainty.

Importantly, these initiatives also promote inclusivity. Women, often responsible for animal care, are stepping into leadership roles within the networks. Young people, inspired by a new vision for rural life, are choosing to stay and engage in agriculture rather than migrate to cities. This intergenerational involvement signals deeper transformation: poverty isn't just being fought. it's being replaced by purpose

These efforts align precisely with SDG1, which calls for ending poverty in all its forms. In Nan Province, that means tackling economic fragmentation, poor access to health services, and lack of opportunity. The School of Agricultural Resources has shown that even in remote regions, with the right tools and trust, people can shape their own futures.

Now, as the sun rises over the pastures of Nan, the sights and sounds of progress echo in every corner as healthy cattle grazing, neighbors gathering to plan sales, children watching with curiosity as their parents take on new roles. It is here, not in boardrooms or policy papers, that SDG1 is coming to life such as quietly, steadily, and with extraordinary local heart.







Carm Fair Carm Fair Carm Fair Carm Fair

Chula Farm Fair: Cultivating Opportunity to End Poverty

The Chula Farm Fair, held at Siam Square Walking Street, is more than a celebration of agriculture. it's a strategic platform aligned with Sustainable Development Goal 1: No Poverty. Organized by Chulalongkorn University in collaboration with PMCU, the event brings rural farmers and community enterprises into the heart of Bangkok, offering them direct access to urban consumers and new markets. The fair was held from 27–29 June 2025, from 11:00 a.m. to 8:00 p.m., transforming one of Bangkok's busiest commercial areas into a vibrant hub for agriculture, innovation, and community exchange.

The event featured products from farmers across Thailand, alongside a range of special activities designed to connect urban audiences with rural producers. Highlights included: Rice Field Café in Siam, a creative check-in point bringing the charm of rice fields to the heart of the city. Farmer Market Zones, showcasing community enterprises, the Eat to Support Farmers campaign, and Life's Market, all designed to promote ethical consumption and provide income opportunities for small-scale farmers. Showcase Zones of Agricultural Innovation from the School of Agricultural Resources, the Institute of Integrated Innovation, and the SIFE student community from the Faculty of Commerce and Accountancy, demonstrating how technology and entrepreneurial spirit can uplift agricultural communities. A Capybara Farm, creating a familyfriendly attraction that engaged visitors of all ages. Food Trucks by BAScii students, serving fresh Thai fruits directly from orchards to consumers, exemplifying youth engagement in supporting farmers. Interactive games and prize giveaways, fostering community participation and excitement.



By combining cultural attractions, innovative showcases, and direct trade opportunities, the Chula Farm Fair empowered small-scale producers to generate income, build brand visibility, and strengthen their networks. It also provided urban visitors with opportunities to learn about sustainable practices, local food systems, and the value of ethical consumption.

In essence, the Chula Farm Fair bridged the gap between rural producers and urban consumers, creating a dynamic ecosystem of support, visibility, and empowerment. It exemplifies how universities can act as catalysts for sustainable development and poverty reduction by linking knowledge, innovation, and community engagement to real-world practice.







Zero Hunger ขจัดความหิวโหย

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

ขจัดความหิวโหย บรรลุความมั่นคงทางอาหาร ส่งเสริมโภชนาการ ที่ดีขึ้น และส่งเสริมการเกษตรที่ยั่งยืน

Dairy Research and Technology Transfer for Tropical Dairy Development Center (Faculty of Veterinary Science)

Food security in tropical regions requires innovative agricultural approaches that address not only productivity but also sustainability and nutrition. In Thailand, where hot and humid conditions present unique challenges for livestock farming, the Faculty of Veterinary Science at Chulalongkorn University has taken the lead in transforming dairy farming practices through the Dairy Research and Technology Transfer for Tropical Dairy Development Center. This initiative directly advances the mission of SDG 2: Zero Hunger, ensuring reliable access to nutritious food while strengthening rural livelihoods.

One of the center's core achievements lies in the integration of climate-smart farming practices. Tropical conditions often compromise herd health, resulting in inconsistent milk yields and reduced nutritional quality.

By introducing innovations such as automated monitoring systems, precision feeding, and climate-responsive housing designs, the Center equips farmers with tools to protect animal welfare and stabilize production. Smart sensors continuously track herd health indicators, including temperature, weight, and feeding behavior which is allowing farmers to intervene early in cases of disease or stress.

The project's emphasis on technology transfer ensures that these innovations reach smallholder farmers, who form the backbone of Thailand's dairy industry. Through structured training programs lasting up to six months, farmers acquire expertise in feed management, breeding systems, hygienic milking, and farm economics. These courses not only enhance technical knowledge but also provide essential business skills, enabling farmers to succeed in increasingly competitive agricultural markets.





A prominent success story is the "Saraburi Premium Milk" model, which certifies farms meeting strict quality benchmarks for protein content, calcium levels, and food safety. Certified farmers gain access to premium markets across Thailand and the ASEAN region, securing higher incomes while contributing to regional food security. This model exemplifies how research-driven interventions can uplift farming communities, reduce income volatility, and enhance rural economic resilience.

Equally important is the initiative's focus on nutrition and consumer health. By ensuring that dairy products meet rigorous nutritional standards, the Center improves access to affordable sources of protein and calcium for Thai families. This dual impact, reducing hunger while improving nutrition, captures the full scope of SDG 2.

The project also demonstrates a strong commitment to public-private partnerships, working with industry stakeholders such as CP-Meiji Co., Ltd. to scale innovations and expand their reach. These collaborations extend the Center's influence beyond pilot farms, embedding sustainable practices into broader supply chains.



Adding to this momentum, the Agritech and Innovation Center (AIC), Chulalongkorn University, in Saraburi, together with its network, organized the "AIC Chula Saraburi Expo 2024" on June 25–26, 2024, under the theme "International Food and Low Carbon in Agriculture and Livestock." The expo expanded its audience to include students and young people, aiming to build a network of agriculturalists, researchers, innovators, entrepreneurs, and both public and private organizations. By promoting collaboration and knowledge exchange, the event emphasized how research and innovation can generate practical solutions that advance national progress while addressing global sustainability challenges.

Ultimately, the Dairy Research and Technology Transfer Center, alongside broader initiatives such as the AIC Chula Saraburi Expo, embodies the principles of inclusive, ethical, and sustainable agriculture. These initiatives not only strengthen Thailand's capacity to produce safe and nutritious dairy products but also provide replicable models for other tropical nations. By bridging research excellence with farmer empowerment and innovation ecosystems, Chulalongkorn University ensures that agricultural advancement translates into tangible progress toward SDG 2: Zero Hunger





Comparative Study of Sustainability and Technical Efficiency in Cocoa Production in Thailand (School of Agricultural Resources)

While rice and cassava have long dominated Thailand's agricultural economy, new crops such as cocoa are emerging as promising alternatives for income diversification, nutrition, and rural development. To explore this potential, the School of Agricultural Resources at Chulalongkorn University conducted a groundbreaking comparative study on the sustainability efficiency and technical efficiency of upstream cocoa production in Thailand. The research sheds light on the interplay between productivity and sustainability, offering valuable insights for advancing SDG 2: Zero Hunger.

The study examined cocoa farms across several provinces using advanced analytical methods, including Data Envelopment Analysis (DEA) and Slacks-Based Measure (SBM). Technical efficiency measures how effectively farms convert inputs such as land, labor, and fertilizer into output, while sustainability efficiency reflects broader considerations—environmental responsibility, economic viability, and social well-being. By integrating both dimensions, the study challenges the traditional notion that sustainability comes at the expense of productivity.





Findings reveal that farms adopting sustainable practices—such as organic fertilization, reduced chemical inputs, shade-grown cultivation, and intercropping—often outperform conventional farms in both sustainability metrics and technical efficiency. For instance, farmers who invested in soil health through composting and organic amendments achieved higher yields and greater resilience to pests and diseases, while simultaneously reducing input costs. This dual efficiency underscores the concept of "sustainability as productivity," showing that ecofriendly practices can enhance performance rather than hinder it.

The research also emphasizes the broader socio-economic significance of cocoa development. As demand for chocolate and cocoabased products rises in Southeast Asia, cocoa cultivation provides new income streams for rural households. Local chocolate production not only contributes to domestic food security by supplying affordable nutrition but also generates employment opportunities in value-added processing industries.

This academic engagement is complemented by student-driven innovation. At the Agri-Hackathon 2025, held at Kasetsart University under the theme "Farming the Future: Thai Innovation for Sustainable Growth," a team of students from the School of Agricultural Resources, Chulalongkorn University, earned two awards.

The Cocoa Go Green team won first runner-up with their project "Innovative Dairy Feed Supplement from Cocoa Processing By-products," which demonstrated how agricultural waste streams can be transformed into value-added products that support both sustainability and food security. Such achievements reflect how research insights are translated into practical innovations by the next generation of agricultural leaders.

To ensure long-term impact, the cocoa research project also advocates for agricultural learning centers where farmers can exchange knowledge, test sustainable techniques, and gain training in business management. It further calls for public-private partnerships to promote certification systems (e.g., organic or fair-trade labels) and to expand access to export markets.

By bridging rigorous academic research, student innovation, and practical farming realities, Chulalongkorn University demonstrates how emerging crops like cocoa can strengthen resilient, inclusive, and sustainable food systems. Together with initiatives such as the Dairy Research and Technology Transfer Center, which applies technology-driven solutions for dairy farming in tropical climates, the cocoa efficiency study and student innovations showcase CU's unwavering commitment to SDG 2: Zero Hunger.







SDG 3



Good Health and Well-being สุขภาพและความเป็นอยู่ที่ดี

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

ทำให้ทุกคนมีสุขภาพดีและคุณภาพชีวิตที่ดีในทุกช่วงวัย

Nutrition Academy Thailand: Lifelong Learning for Healthy Aging (Graduate School)



Thailand, like many countries in East and Southeast Asia, is undergoing a rapid demographic transition toward an aging society. With fertility rates declining and life expectancy increasing, the proportion of elderly citizens is projected to rise substantially in the coming decades. This demographic shift presents significant challenges, particularly in the areas of chronic disease management, rising healthcare costs, and social inclusion.

In response, Chulalongkorn University has pioneered "Nutrition Academy Thailand," a lifelong learning program specifically designed for older adults and spearheaded by the Graduate School. Over the past year, the Graduate School has developed a knowledge platform under the CUGS Academy: Lifelong Learning and Interdisciplinary program, designed for working professionals and organizational executives to upgrade their skills in response to global advancements in a demand-driven model of education. This approach reflects Chulalongkorn University's commitment to non-exclusive knowledge sharing and its strategy to expand access to education for all generations.

Within this broader framework, Nutrition Academy Thailand stands out as a specialized learning platform in nutrition, designed for older adults, future elderly populations, and caregivers.

It extends lifelong learning opportunities to address nutrition as a critical dimension of healthy aging.

The program is grounded in the recognition that proper nutrition is central to healthy aging, yet many older individuals lack access to reliable, practical information about their dietary needs. Its curriculum provides evidence-based knowledge on diet planning, nutritional requirements for aging bodies, and strategies for preventing nutrition-related chronic illnesses such as diabetes, cardiovascular disease, and hypertension. Importantly, the program incorporates interactive learning methods including cooking demonstrations, workshops, and community activities—ensuring that participants not only acquire theoretical knowledge but also develop practical skills directly applicable to their daily lives.

Beyond physical health, Nutrition Academy Thailand emphasizes the social and psychological dimensions of well-being. Classes foster peer interaction, reduce social isolation, and strengthen community bonds among older adults. The program therefore operates on multiple levels: enhancing physical health through improved nutrition, promoting mental well-being through community engagement, and strengthening social resilience by creating networks of mutual support.









This initiative reflects Chulalongkorn University's proactive approach to addressing the demands of an aging society. By integrating nutritional science with lifelong learning under the umbrella of the CUGS Academy, the program not only contributes to reducing healthcare burdens but also enhances the dignity, autonomy, and quality of life of Thailand's older population.

Alcohol and Drugs Helpline Centre (1413): Accessible Addiction Support (Faculty of Medicine)

Substance abuse, particularly alcohol and drug dependency, represents a pressing public health challenge in Thailand. The social and economic consequences of addiction extend far beyond individual health outcomes, impacting families, workplaces, and communities. Yet stigma and limited access to support services often prevent individuals from seeking the help they need. To address this gap, the Faculty of Medicine at Chulalongkorn University has established the "Alcohol and Drugs Helpline Centre (1413)," an innovative telephone and online consultation platform dedicated to supporting individuals struggling with addiction.

This initiative represents a paradigm shift in how addiction services are delivered. By leveraging digital and telecommunication technologies, the 1413 Helpline ensures that support is both accessible and confidential, lowering the psychological and social barriers associated with in-person treatment. Trained counselors provide immediate guidance, motivational support, and referrals to specialized treatment centers when necessary. The system operates as both a first point of contact for individuals seeking help and as a continuous support network, helping to sustain motivation and reduce relapse risks.







Importantly, the Helpline does not function in isolation but is integrated into broader public health strategies. It collaborates with hospitals, rehabilitation centers, and community health programs, ensuring continuity of care and a holistic approach to recovery. By combining medical knowledge with psychological counseling and community referral systems, the 1413 Helpline provides a comprehensive support mechanism for tackling substance abuse.

The project demonstrates how Chulalongkorn University leverages innovation to address long-standing public health issues. By embedding digital solutions into addiction care, the university helps normalize the act of seeking help, reduces stigma, and contributes to healthier and more resilient communities.



Online Mental Health Consultation and Referral Network (Faculty of Psychology)

Mental health has emerged as one of the most urgent public health priorities worldwide, particularly in the wake of rapid societal change, economic stress, and crises such as the COVID-19 pandemic. Thailand is no exception, with increasing prevalence of stress, anxiety, and depression across all age groups. Recognizing the gaps in mental health services, especially the shortage of professionals and the uneven geographic distribution of care, the Faculty of Psychology at Chulalongkorn University has developed the "Online Mental Health Consultation System and Referral Network."

This initiative integrates digital counseling platforms with a structured referral system that connects users to mental health professionals and community-based services. By offering immediate and accessible psychological support through online consultations, the system reduces the stigma and logistical barriers often associated with visiting clinics. For individuals requiring further care, the referral network ensures continuity by linking them to psychiatrists, psychologists, or community resources.



Complementing this digital innovation, the Faculty of Psychology, in collaboration with the Chulalongkorn University Health Service Center, launched a dedicated mental health counseling initiative for Chulalongkorn University personnel under the "CU Sustainable Well-Being" program. This service provides free psychological counseling for CU staff members and their families, available both through in-person sessions and remote consultations conducted via Zoom. The program, offered at no cost until 30 September 2024, reflects the university's commitment to fostering sustainable well-being within its own community while setting a model for broader institutional support systems.

The combined approach reflects a hybrid model of care: leveraging the inclusivity and convenience of digital platforms alongside the depth of in-person support. Additionally, the system collects anonymized data on user needs and usage patterns, providing valuable insights for policymakers and informing more equitable health resource allocation.

Beyond service delivery, these initiatives contribute to capacity building. By training graduate students and young professionals in both digital and face-to-face counseling, Chulalongkorn University is preparing the next generation of psychologists to operate effectively within an evolving mental health landscape. This not only ensures the sustainability of services but also positions the university as a regional leader in digital and community-based mental health innovation.

End-of-Life Care Systems for Older Adults in Thailand (College of Population Studies)

The aging of Thai society raises profound questions about how care is provided during the final stages of life. The "Study on End-of-Life Care Systems for Older Adults in Thailand," conducted by the College of Population Studies at Chulalongkorn University, addresses this sensitive yet crucial issue. The project investigates health service models that can uphold dignity, compassion, and quality of life for elderly individuals nearing the end of their lives.

The study recognizes that end-of-life care extends beyond medical treatment, encompassing emotional, spiritual, and social dimensions. Many older adults and their families face difficult decisions regarding palliative care, home-based support, or institutional services. By examining existing models, identifying gaps, and gathering perspectives from caregivers, patients, and healthcare providers, the project generates insights to guide the development of holistic and culturally appropriate systems of care.

On Friday, 25 July 2025, the College of Population Studies, organized a focus group meeting at the Chamchuri 1 Room, Pathumwan Princess Hotel, Bangkok. The session formed a crucial part of the study, providing a platform to discuss research findings, refine recommendations, and summarize directions for developing end-of-life care services for Thailand's elderly.

The meeting, supported by the Thai Health Promotion Foundation (ThaiHealth), brought together experts and stakeholders from multiple sectors, including government agencies, academic institutions, and local organizations. Through dialogue and exchange of perspectives, the group produced a set of policy recommendations vital for shaping end-of-life care services that are both appropriate and contextually relevant for Thailand. These recommendations will serve as a roadmap for improving and advancing service models in the years ahead.

Beyond academic research, the initiative has direct implications for public policy. Its findings inform health authorities on ways to strengthen palliative care training, expand community-based services, and integrate end-of-life care into Thailand's universal health coverage framework. In doing so, the project ensures that older adults can experience not only longer lives but also lives marked by dignity, meaning, and compassion.



Exercise Clinic for Obese Patients (Faculty of Sports Science)

Obesity is a growing global health concern, contributing significantly to the burden of non-communicable diseases such as diabetes, hypertension, and cardiovascular disease. In Thailand, the prevalence of obesity has risen sharply in recent decades, placing increasing pressure on the healthcare system.

To address this challenge, the Faculty of Sports Science at Chulalongkorn University has established the "Exercise Clinic for Obese Patients" at the Chula Rakphung Center, King Chulalongkorn Memorial Hospital. The clinic delivers personalized, evidence-based exercise programs designed by sports scientists in collaboration with medical professionals. Patients undergo comprehensive assessments including body composition, cardiovascular fitness, and metabolic health indicators which serve as the basis for tailored exercise regimens.

Supervised sessions ensure safety and effectiveness, especially for individuals with coexisting health conditions. Beyond physical training, the clinic emphasizes behavioral change and patient education, helping participants understand the central role of physical activity in long-term weight management. By promoting lifestyle modification rather than short-term interventions, the clinic fosters sustainable health outcomes.





On June 4, 2025, King Chulalongkorn Memorial Hospital further advanced this mission with the launch of the "Chula Rakphung Center: One Stop Service for Obesity Care." This comprehensive program brings together a multi-disciplinary team of physicians and specialists to provide integrated treatment, including medical therapy, bariatric surgery, nutritional counseling, and behavioral interventions. In addition to treatment, the Center places strong emphasis on prevention, guiding patients in proactive strategies to avoid obesity before related diseases take hold.

Importantly, by embedding these initiatives within a hospital setting, Chulalongkorn University has integrated exercise, nutrition and medical care

into mainstream healthcare, shifting perceptions of obesity management from being fragmented to being holistic and essential in chronic disease prevention and treatment. This combined approach not only improves patient outcomes but also contributes to reducing the national burden of obesity-related diseases.

Youth Well-being Screening Innovation (Faculty of Science)

Young people represent the foundation of a nation's future, yet they are increasingly vulnerable to health challenges, including lifestyle-related conditions, mental health issues, and social pressures. To address these risks, the Faculty of Science has developed an innovative "Screening Method for the Well-being of Thai Youth in Rangsit, Pathum Thani."

The project pioneers proactive health screening tailored to adolescents, encompassing physical, mental, and social dimensions. Tools are designed to identify early warning signs such as nutritional deficiencies, stress, or risky behaviors that may compromise long-term well-being. Importantly, the program emphasizes preventive action, enabling timely interventions by families, schools, and health professionals.

The innovation highlights Chulalongkorn University's commitment to evidence-based solutions that extend beyond academic research into real-world applications. By investing in the health of youth today, the university contributes to building healthier generations and reducing future healthcare burdens.

The six initiatives described above exemplify Chulalongkorn University's holistic and proactive contribution to SDG 3: Good Health and Wellbeing. Spanning the life course from childhood and adolescence to old age and end-of-life-the projects integrate research, service, and innovation to address Thailand's most pressing health challenges.

By fostering lifelong nutrition education, expanding addiction and mental health support, developing dignified elder care, innovating in obesity prevention, and creating youth well-being screening tools, the university ensures that health and well-being are promoted in comprehensive and sustainable ways. These efforts reaffirm Chulalongkorn University's role as a catalyst for health innovation and as a key contributor to Thailand's progress toward achieving the Sustainable Development Goals.





Quality Education การศึกษาที่มีคุณภาพ

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

สร้างโอกาสการศึกษาที่เท่าเทียม มีคุณภาพ และการเรียนรู้ ตลอดชีวิตสำหรับทุกคน

Designing Learning Ecosystems for Lifelong Learning among Older Adults in Bangkok (Faculty of Education)

The transition to an aging society poses both challenges and opportunities for sustainable development in Thailand. With longer life expectancy and declining fertility rates, the proportion of older adults in urban centers such as Bangkok has increased dramatically. While this demographic shift presents challenges in healthcare and social welfare, it also highlights the potential of lifelong learning as a means to ensure that older adults remain active, engaged, and productive members of society. In response to this need, the Faculty of Education at Chulalongkorn University initiated a project on "Designing Learning Ecosystems for Lifelong Learning among Older Adults in Bangkok."

The project emphasizes the concept of a learning ecosystem which is an integrated environment in which multiple stakeholders, including educational institutions, local communities, and digital platforms, collaborate to provide diverse opportunities for continuous learning. Rather than focusing solely on classroombased education, the initiative incorporates community-based learning, digital resources, and intergenerational activities. This holistic approach ensures that learning is accessible, relevant, and engaging for older adults, many of whom may face technological or social barriers to participation.

A key feature of the initiative is its adaptability. Learning modules are designed not only to enhance knowledge but also to build practical life skills such as financial literacy, digital literacy, and health management.

For example, training on how to use mobile applications enables older adults to better access healthcare services, connect with family, or even participate in online commerce. Furthermore, the project recognizes the importance of social participation: group learning sessions and community workshops provide spaces for interaction, thereby reducing isolation and enhancing mental well-being.

The project's broader implications are significant. By reframing aging not as a social burden but as an opportunity for continued learning and participation, Chulalongkorn University positions itself as a pioneer in educational innovation. The model of a lifelong learning ecosystem can be scaled beyond Bangkok to other urban and rural contexts, offering a sustainable framework for inclusive education in aging societies across Southeast Asia.

Educational Network for Practical Information Technologies (enPiT) (Faculty of Education)



In an era where digital transformation shapes every sector of society, the ability to adapt to technological change is central to both economic competitiveness and social inclusion. Recognizing this imperative, the Faculty of Education at Chulalongkorn University has developed the "Educational Network for Practical Information Technologies (enPiT)", a collaborative project that equips learners with the digital skills and problem-solving competencies required in the 21st-century workforce.

The enPiT project is grounded in the philosophy of learning by doing. Rather than relying solely on theoretical instruction, the program engages learners in hands-on projects that address real-world challenges drawn from both social and business contexts. This practice-oriented approach allows participants to gain not only technical expertise in information technologies but also critical skills such as teamwork, project management, and cross-disciplinary communication. For example, learners might work on projects related to digital healthcare solutions, e-commerce systems, or community-based data platforms and fields that directly respond to societal needs.

Another core feature of enPiT is the creation of a networked learning community. The project fosters collaboration among universities, industries, and communities, ensuring that education remains responsive to rapidly changing labor markets. By integrating academic learning with workplace challenges, enPiT bridges the gap between theory and practice, thereby enhancing employability and fostering innovation.

The impact of enPiT extends beyond skill acquisition. By positioning learners as problem-solvers embedded within real-world contexts, the initiative empowers them to see education not merely as a pathway to employment but as a means to contribute meaningfully to society. This transformative perspective ensures that Chulalongkorn University continues to play a leading role in shaping educational models that are future-ready, inclusive, and globally relevant.







Lifelong Learning Models for Older Adults in ASEAN+3 (College of Population Studies)

While Thailand faces unique demographic challenges, it is far from alone. Across East and Southeast Asia, countries are grappling with the implications of rapidly aging populations. To address this regional issue, the College of Population Studies at Chulalongkorn University initiated the project "Lifelong Learning Models for Older Adults in ASEAN+3."









The project adopts a comparative research framework, examining policies, practices, and cultural contexts across ASEAN member states, as well as Japan, China, and South Korea. Its objective is to identify lifelong learning models that can be adapted to the diverse socio-cultural and economic conditions of the region. By studying both successful and underperforming systems, the project generates insights into what enables older adults to continue learning, remain socially active, and contribute meaningfully to their communities.

As part of this effort, the College of Population Studies, in collaboration with the Department of Older Persons, Ministry of Social Development and Human Security of Thailand, and ASEAN, convened the ASEAN+3 Regional Conference on Lifelong Learning for Older Adults on 4 September 2024 at the Anoma Grand Hotel, Bangkok. The conference opened with welcoming remarks by Prof. Dr. Wilert Puriwat, President of Chulalongkorn University, and an address by Mrs. Pornnipa Masileerungsie, Deputy Director-General of the Department of Older Persons. A keynote lecture on "Lifelong Learning in ASEAN+3" was delivered by a representative from the ASEAN Secretariat.

The conference served as a regional platform to share academic knowledge on lifelong learning for older adults across ASEAN+3 countries comprising the ten ASEAN member states, plus China, Japan, and South Korea. It also aimed to strengthen academic networks and develop policy recommendations that promote inclusive, culturally appropriate lifelong learning systems for aging societies.

Through both research and regional collaboration, Chulalongkorn University not only contributes to national policy innovation but also reinforces Thailand's leadership role in ASEAN+3 educational cooperation.



The project underscores a critical paradigm shift: aging populations should not be seen as passive recipients of care but as active participants in knowledge societies, a perspective essential to achieving sustainable development.

Community Service Project: English Communication Skills for Thai Police Officers (Phase 2) (Language Institute in collaboration with the Royal Police Cadet Academy)

In today's interconnected world, effective communication skills are essential for professional sectors that engage directly with both domestic communities and international stakeholders. Recognizing the unique communication demands placed on law enforcement, Chulalongkorn University's Language Institute, in collaboration with the Royal Police Cadet Academy, developed the "Community Service Project: Development of Effective English Communication Skills for Thai Police Officers (Phase 2)."



This initiative addresses the gap in English proficiency among Thai police officers, which often limits their ability to interact with foreign residents, tourists, and international agencies. Given Thailand's status as a global tourism hub and its participation in international security networks, enhancing officers' English skills is not only a matter of professional development but also a contribution to national security, community trust, and international cooperation.

The curriculum is designed around practical communication scenarios encountered by police officers in their daily duties. These include managing interactions with foreign visitors, conducting investigations involving international actors, and participating in cross-border law enforcement collaborations. The training emphasizes role-playing, situational practice, and applied vocabulary, ensuring that participants gain confidence and fluency in contexts directly relevant to their work.

By positioning language education as a form of community service, the project reflects Chulalongkorn University's commitment to linking academic expertise with societal needs. It demonstrates how targeted educational initiatives can directly improve the quality of public services, strengthen institutional capacity, and foster inclusive interactions between authorities and diverse populations.

These four initiatives demonstrate Chulalongkorn University's holistic and multi-level approach to SDG 4: Quality Education. From lifelong learning for older adults in Bangkok, to digital and practice-oriented education through enPiT, to regional models of aging education in ASEAN+3, and finally to professional language training for law enforcement, the projects illustrate the diverse ways in which education can empower individuals, strengthen institutions, and promote sustainable development.





Chulalongkorn University reaffirms its role as not only a center of higher education but also a catalyst for inclusive learning ecosystems, ensuring that quality education is accessible across age groups, professions, and regional boundaries. Through these initiatives, the University advances the global mission of SDG 4, while positioning Thailand as a leader in educational innovation and sustainability in Southeast Asia.





Gender Equality

ความเท่าเทียมทางเพศ

Achieve gender equality and empower all women and girls.

บรรลุความเท่าเทียมทางเพศ และเพิ่มพลังให้ผู้หญิงและเด็กหญิง



Training on Policies and Mechanisms for Preventing Sexual Harassment in Media Organizations in Thailand (Faculty of Communication Arts)

The media industry in Thailand, as in many parts of the world, plays a dual role in shaping public perceptions and setting professional standards. However, the sector has increasingly come under scrutiny for internal gender inequalities, including incidents of sexual harassment and workplace discrimination against women. Recognizing the urgent need to build safe and equitable workplaces, the Faculty of Communication Arts at Chulalongkorn University has spearheaded a project to provide training on policies and mechanisms for preventing sexual harassment in media organizations in Thailand.

The training program was launched through a collaborative effort between the Faculty of Communication Arts at Chulalongkorn University, the Women and Men Progressive Movement Foundation, and the College of Interdisciplinary Studies at Thammasat University. The program officially opened on 14 July 2024 at the Faculty of Communication Arts, Chulalongkorn University, with the President of the Thai Journalists Association delivering the opening remarks.

This initiative addresses a critical gap in the Thai media landscape. While conversations on gender equality are becoming more visible, institutional infrastructure to prevent, monitor, and respond to harassment remains limited. The training program was designed to raise awareness among media professionals, managers, and policy-makers while equipping them with practical tools to establish protective frameworks within their organizations.

The course combines legal knowledge, case study analysis, and participatory workshops. Participants engage in scenario-based learning to understand how harassment occurs in practice, what systemic barriers prevent victims from reporting, and how institutions can create safer channels for redress. Special emphasis is placed on organizational accountability, with guidance on drafting anti-harassment policies, setting up confidential reporting mechanisms, and ensuring alignment with both Thai labor law and international standards.









Beyond legal compliance, the program stresses the ethical responsibility of media organizations as opinion leaders in society. Media professionals trained in these mechanisms are not only better equipped to protect colleagues but also to reflect progressive values in their reporting and organizational culture. In this way, the program generates a multiplier effect: improving conditions within the industry while simultaneously influencing broader societal discourse on gender equality.

Through this project, Chulalongkorn University positions itself as a leader in translating academic knowledge into practical interventions that safeguard women in professional spaces. By fostering safe and inclusive workplaces, the Faculty of Communication Arts contributes to the long-term goal of achieving gender equality—not merely as a principle of fairness but as a prerequisite for sustainable professional and societal development.

Research on Experiences of Violence among Women Migrant Workers from Lao PDR, Myanmar, and Cambodia to Thailand (College of Public Health Sciences)

Thailand's economy relies heavily on migrant labor, with significant numbers of workers arriving from neighboring countries such as Lao PDR, Myanmar, and Cambodia. Among these, women migrant workers are especially vulnerable to multiple forms of violence and exploitation, both at the workplace and within broader society. The College of Public Health Sciences at Chulalongkorn University has conducted an in-depth research study on the experiences of violence among women migrant workers, providing crucial evidence to inform policy and advocacy in this neglected area.





The research employs a mixed-methods approach, combining surveys, in-depth interviews, and focus group discussions. By documenting the lived experiences of migrant women across different sectors including domestic work, manufacturing, and agriculture, the study uncovers patterns of abuse ranging from sexual harassment and physical violence to economic exploitation and restrictions on freedom of movement. Importantly, the study also highlights the structural barriers that prevent women from reporting such violence, including lack of legal status, fear of deportation, and limited access to healthcare and social services.

One of the project's key contributions is the framing of violence against women migrant workers not only as a labor rights issue but also as a public health and human rights concern. The research demonstrates how experiences of violence have long-term consequences on physical and mental health, including trauma, chronic stress, and reproductive health complications. By linking these findings to public health frameworks, the project makes a strong case for multisectoral responses that go beyond law enforcement to include healthcare providers, social workers, and local communities.

The outcomes of this study feed directly into policy recommendations aimed at improving protection for migrant women. These include advocating for accessible reporting mechanisms, culturally sensitive healthcare services, and crossborder cooperation between sending and receiving countries.

Chulalongkorn University underscores the role of academic research in making invisible populations visible, ensuring that gender equality efforts in Thailand and Southeast Asia include the most marginalized groups.





Reproductive Cell Preservation Project for Parenthood (Faculty of Medicine)

Reproductive rights are a fundamental component of gender equality, yet they remain unevenly realized across societies due to cultural, medical, and socio-economic barriers. In Thailand, advances in reproductive medicine have opened new opportunities for individuals and couples who face challenges in conceiving. The Faculty of Medicine at Chulalongkorn University has initiated a pioneering project on the preservation of reproductive cells for parenthood, expanding the frontiers of reproductive health services in the country.

This project focuses on the development and provision of technologies that allow individuals, both men and women, to preserve their reproductive cells (sperm and eggs) for future use. This medical innovation is particularly significant for patients undergoing treatments such as chemotherapy, which may impair fertility, as well as for individuals who choose to delay parenthood due to career or personal reasons. By safeguarding reproductive potential, the project supports both medical needs and personal autonomy.

The initiative highlights several important dimensions of gender equality. For women, reproductive cell preservation provides greater control over reproductive choices, reducing the pressure to conform to traditional timelines for marriage and childbirth. For men, it also ensures reproductive agency in the face of medical challenges. By treating reproductive autonomy as a right rather than a privilege, the project addresses deep-seated gender disparities in family planning and parenthood.

Beyond clinical practice, the project also emphasizes ethical and social considerations. Awareness campaigns and counseling services are integrated to ensure that individuals make informed decisions about cell preservation, taking into account financial, cultural, and emotional factors. These components are crucial in preventing reproductive health services from becoming accessible only to the privileged, thereby reinforcing social inequalities

By advancing reproductive medicine, the Faculty of Medicine at Chulalongkorn University demonstrates how universities can play a transformative role in addressing sensitive issues at the intersection of health, gender, and human rights.

The preservation of reproductive cells not only empowers individuals to exercise greater control over their futures but also symbolizes a progressive step toward gender equality in contemporary Thai society.

Through these three activities including training against sexual harassment in media organizations, research on violence against women migrant workers, and reproductive cell preservation for parenthood, Chulalongkorn University demonstrates its multifaceted contribution to SDG 5: Gender Equality. Together, these projects span the spectrum from workplace safety to protection of marginalized populations to expansion of reproductive rights, showcasing how academic institutions can integrate education, research, and medical innovation to foster gender justice.

By linking policy advocacy, scientific research, and medical practice, Chulalongkorn University not only advances gender equality in Thailand but also contributes to global conversations on creating inclusive and equitable societies.





Clean Water and Sanitation น้ำสะอาดและสุขาภิบาล

Ensure availability and sustainable management of water and sanitation for all

ทำให้ทุกคนเข้าถึงน้ำสะอาดและสุขาภิบาลที่ยั่งยืน

Digital Technology for Water Resource Planning and Decision-Making in Nan Province (School of Agricultural Resources)

The effective management of water resources is one of the most pressing challenges facing Thailand, particularly in northern provinces such as Nan where rapid land use changes, climate variability, and competing demands from agriculture, households, and industry have intensified pressure on local water systems. To address these challenges, the School of Agricultural Resources at Chulalongkorn University has developed an innovative project titled "Digital Technology for Planning and Decision-Making in Water Resource Management for Water User Organizations and Local Administrative Authorities in Nan Province."

This initiative harnesses digital technologies, including Geographic Information Systems (GIS), remote sensing, and decision-support platforms, to improve how water user organizations (WUOs) and local authorities plan, allocate, and monitor water resources. Traditionally, water governance in rural Thailand has relied heavily on manual reporting, local knowledge, and reactive measures.

While valuable, these approaches are often insufficient in addressing complex watershed dynamics, particularly under changing climate conditions. By introducing digital tools, the project transforms water governance from reactive to data-driven and anticipatory.

Key components include the development of real-time monitoring systems to track rainfall, river flow, and reservoir levels; simulation models that forecast water availability under different climate and land-use scenarios; and user-friendly dashboards that allow local decision-makers to visualize risks and design appropriate interventions. Importantly, the project is not purely technical but also emphasizes capacity building. Training workshops for local leaders, farmers, and WUOs ensure that the technology is accessible and can be sustainably integrated into community decision-making.

In the long term, this project offers a scalable model for other provinces in Thailand and across Southeast Asia. By combining modern technology with community-level governance structures, it demonstrates how digital transformation can be harnessed to create resilient and adaptive water management systems in the face of environmental uncertainty.











The Lancang-Mekong Cooperation Program 2022: Regional Frameworks for Water Governance (Environmental Research Institute)

Water resources are inherently transboundary, and the Mekong River Basin exemplifies the interdependence of nations in managing shared ecological systems. Recognizing this, the Environmental Research Institute at Chulalongkorn University has been actively engaged in the Lancang-Mekong Cooperation (LMC) Program 2022, which provides a regional framework for research, dialogue, and policy coordination among countries within the Mekong subregion.

The Mekong River supports over 60 million people, providing water for agriculture, fisheries, transportation, and energy production. However, the basin faces mounting pressures from hydropower development, deforestation, climate change, and rapid urbanization. The LMC initiative aims to enhance cooperation among member countries by promoting joint studies, data-sharing mechanisms, and pilot projects that address common water-related challenges.

Chulalongkorn University's role has been central in providing scientific expertise, policy analysis, and stakeholder engagement. The Environmental Research Institute has conducted impact assessments of upstream and downstream activities, highlighting how local communities, particularly smallholder farmers and fishers, are affected by transboundary water decisions. Through stakeholder workshops, the project has fostered dialogue between local communities, policy-makers, and scientists, ensuring that grassroots perspectives are considered in highlevel governance frameworks.

Perhaps the most significant outcome of the LMC Program is its recognition of water as both an ecological and a political resource. Effective governance requires not only scientific knowledge but also trust, transparency, and long-term cooperation. By bridging academic research with regional diplomacy, Chulalongkorn University illustrates how higher education institutions can play a vital role in fostering peace, sustainability, and equity in transboundary water management.



Engineering for Communities: Wisawa Camp 9 in Nan Province (Faculty of Engineering)

Sustainable water management is not only about policy and technology but also about community engagement and hands-on solutions. The Faculty of Engineering at Chulalongkorn University embodies this principle through its annual Wisawa Camp, now in its ninth year, which brings engineering students into rural communities to co-develop infrastructure that directly improves quality of life.



In Nan Province, Wisawa Camp 9 focused on a set of integrated projects designed to tackle environmental and livelihood challenges. A central activity was the construction of sediment-trapping weirs, which help reduce soil erosion, improve water quality, and ensure more reliable water supplies for household use and agriculture. This low-cost, community-based solution demonstrates how small-scale engineering can have large-scale impacts when embedded within local ecosystems.

Beyond water management, the camp also addressed broader sustainability needs. Students and community members collaborated to install solar-powered streetlights, improving safety and energy access while reducing reliance on fossil fuels. Roads were repaired to enhance mobility, and earthen houses were renovated and repurposed as community learning centers, creating spaces where knowledge on environmental stewardship, sustainable agriculture, and local culture can be shared.



Wisawa Camp embodies the principle of co-creation. Community members are not passive recipients of aid but active partners in planning, building, and maintaining infrastructure. This collaborative approach ensures sustainability, as local ownership strengthens the longevity of projects. By integrating academic training with community service, the Faculty of Engineering demonstrates how universities can serve as bridges between knowledge and practice, advancing SDG 6 in tangible, humancentered ways.





Area-Based Water Management through Collaborative Mechanisms in Nan Province (School of Agricultural Resources)



Complementing the digital innovation project, the School of Agricultural Resources has also initiated the "Area-Based Water Management through Collaborative Mechanisms in Nan Province." This project recognizes that water management challenges are not uniform across regions but are deeply shaped by local ecological, cultural, and institutional contexts.

The project applies a participatory governance model that brings together water user groups, local governments, civil society organizations, and academic experts to co-develop water management strategies tailored to Nan's specific conditions. Through community dialogues, stakeholder mapping, and collaborative planning, the initiative creates platforms where diverse voices, including farmers, women, and marginalized groups can influence decision-making processes.









A central aspect of this approach is its emphasis on ecosystem-based management. Rather than treating water solely as a resource to be extracted, the project views it as part of an interconnected system that includes forests, soils, and human communities. Restoration of upstream watersheds, reduction of agricultural runoff, and promotion of sustainable irrigation practices are integral components.

This initiative illustrates the importance of area-based approaches in water governance. While national policies provide broad frameworks, sustainable outcomes often depend on the ability to adapt strategies to local realities. By anchoring water management in participatory processes, the project enhances both ecological resilience and social equity.

These four initiatives demonstrate Chulalongkorn University's comprehensive approach to SDG 6: Clean Water and Sanitation. The projects span multiple levels, from local community empowerment to national policy innovation and regional diplomacy, underscoring the university's role as a catalyst for sustainable water solutions.

By integrating science, technology, policy, and community engagement, Chulalongkorn University not only advances SDG 6 within Thailand but also contributes to the global mission of ensuring that clean water and sanitation are accessible, sustainable, and equitable for all.





Affordable and Clean Energy พลังงานสะอาดที่เข้าถึงได้

Ensure access to affordable, reliable, sustainable and modern energy for all. ทำให้ทุกคนเข้าถึงพลังงานสะอาด ทันสมัย ราคาย่อมเยา และเชื่อถือได้

Chulalongkorn University, through its Energy Research Institute, plays a pivotal role in this regional transition with the initiative "Clean, Affordable, and Secure Energy for Southeast Asia (CASE)." This project seeks to generate scientific knowledge, foster regional dialogue, and provide evidencebased policy recommendations to guide Southeast Asia toward a more sustainable energy future.

The CASE initiative brings together academia, policymakers, the private sector, and civil society to create a robust knowledge base for long-term energy planning. Its scope covers a broad spectrum of themes: analyzing current and projected energy demand structures, assessing the role of fossil fuels and renewable energy, and evaluating environmental and economic implications of various energy pathways. Importantly, the initiative emphasizes energy transition strategies that go beyond decarbonization by incorporating issues of energy security and equity in access, ensuring that the benefits of clean energy are shared across all segments of society.

A distinguishing feature of CASE is its commitment to policy dialogue and multi-stakeholder engagement. Beyond academic research, the project organizes workshops, conferences, and public forums to build shared understanding and foster collaboration among governments, industries, and communities. This participatory approach enhances the relevance and uptake of research findings, bridging the gap between academic knowledge and policy implementation.

By integrating rigorous academic research, policy advocacy, and regional cooperation, CASE exemplifies how higher education institutions can help accelerate the systemic change.

Chulalongkorn University, through this initiative, demonstrates its leadership in aligning knowledge creation with societal needs, positioning itself as a hub for energy innovation and sustainable policy solutions in Southeast Asia.

Chulalongkorn University Forges Partnership with EGAT for Research in Energy and Key **Technologies**

Chulalongkorn University and the Electricity Generating Authority of Thailand (EGAT) signed a collaborative agreement for research and innovation development on June 24, 2025, at Meeting Room 202, Chamchuri 4 Building, Chulalongkorn University.

The partnership aims to foster collaboration in education, research, and project development focused on advancing academic knowledge and promoting innovation in energy and key technologies. These areas include Grid Modernization, Battery Energy Storage Systems (BESS), Hydrogen, Carbon Capture, Utilization, and Storage (CCUS), and technologies related to power generation such as Small Modular Reactors (SMRs), supercritical Carbon Dioxide (sCO2) technology, plasma and fusion technology, and renewable energy. The scope also covers research on community, social, environmental, and public well-being, including area-based research.



Through knowledge exchange and the creation of innovations, the partnership seeks to support the development of energy technology, enhance the capacity to create high-efficiency products and systems, and sustainably meet the diverse needs of users. Furthermore, the data and findings from this research will provide academic support to the government for the future development of clean energy and energy efficiency

Empowering Thailand's Energy Future: Nine Chula Research Institutes Collaborate to Advance **Future Energy Solutions**

On March 4, 2025, the seminar "Empowering Thailand's Energy Future" was held to facilitate the exchange of ideas and present research focused on transitioning to clean energy and a low-carbon society.

The event was organized by the Chulalongkorn University Energy Research Institute in partnership with nine other university research institutes, as part of the Visionary Strategic Integration of 9 Research Institutes initiative. Held at the Social Innovation Hub Conference Room in the Visid Prachuabmoh Building, the seminar commenced with an opening address by Professor Dr. Wilert Puriwat, President of Chulalongkorn University.







This seminar serves as a vital platform for promoting collaboration in clean energy and sustainable development, underscoring the university's commitment to guiding society toward green energy solutions and achieving Net Zero

Highlights of the event included a keynote speech by Associate Professor Wongkot Wongsapai, Deputy Director of the Office of the National Higher Education, Science, Research, and Innovation Policy Council (NXPO), on the topic "Higher Education, Science, Research, and Innovation for Achieving Thailand's Net Zero Emission Goals." Additionally, a special panel discussion titled "Chulalongkorn University's Mission to Drive Green Energy Research Towards Net Zero Goals" featured insights from energy experts representing the nine participating Chulalongkorn research institutes.



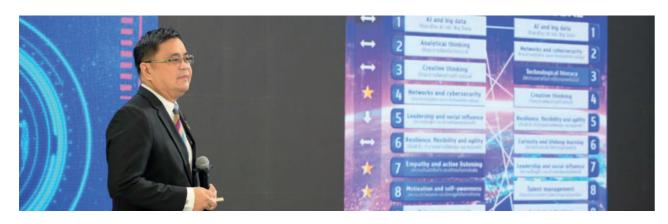




Decent Work and Economic Growth งานที่มีคุณค่าและเศรษฐกิจเติบโต

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

ส่งเสริมการเติบโตทางเศรษฐกิจที่ทั่วถึง ยั่งยืน พร[้]อมงานที่มีคุณค[่]าและ เหมาะสมสำหรับทุกคน



Collaboration with the World Economic Forum: Contributions to the Future of Jobs Report (Faculty of Commerce and Accountancy)

The rapidly changing landscape of work in the 21st century has created both opportunities and challenges for societies worldwide. Automation, digital transformation, and the green transition are reshaping labor markets, requiring new skills, innovative forms of employment, and agile policy frameworks. Against this backdrop, Chulalongkorn University's Faculty of Commerce and Accountancy has partnered with the World Economic Forum (WEF) in contributing to the Future of Jobs Report, one of the most influential global studies on labor market trends.

This collaboration situates Thailand within an international dialogue on the future of work, highlighting both the opportunities and vulnerabilities faced by emerging economies. The report analyzes the shifting demand for occupations and skills across industries, providing forecasts on which jobs are declining due to automation and which are emerging in fields such as green energy, artificial intelligence, and data analytics. By participating in this global effort, Chulalongkorn University ensures that Thailand's context is represented in conversations shaping the future of economic policy and workforce development.

On 8 January 2025, Chulalongkorn University and the World Economic Forum jointly announced the "Future of Jobs 2025" report, highlighting future skills and strategies for building the "Future Human" workforce in Thailand. At the press briefing, Professor Dr. Wilert Puriwat, President of Chulalongkorn University, presented the report's findings. He emphasized Chulalongkorn's role as Thailand's sole academic representative in this global partnership, contributing insights and recommendations to help the nation prepare for labor market transformations between 2025 and 2030.

The University's role extends beyond contributing data. Faculty experts also provide interpretive analysis, contextualizing global trends for Thailand's specific labor market conditions. For instance, while automation may reduce employment in traditional manufacturing, Thailand's comparative advantages in services, creative industries, and green economy sectors present opportunities for re-skilling programs and new employment models. These insights help policymakers, educators, and businesses anticipate structural changes and design interventions that both protect workers and foster innovation.









Importantly, the collaboration with WEF demonstrates the integration of academia into global policy networks. By contributing to international knowledge production, Chulalongkorn University enhances Thailand's visibility in shaping global labor agendas while also drawing lessons from international best practices.

Ultimately, this collaboration exemplifies Chulalongkorn University's role as a knowledge broker, bridging local realities with global frameworks. The University not only strengthens the evidence base for Thai labor policy but also positions itself as a thought leader in the global movement to align decent work with sustainable economic growth.

Managing Natural and Cultural Capital on Ko Sichang for Economic Value Creation (Faculty of Architecture)

Sustainable economic growth requires not only industrial and technological innovation but also the responsible use of natural and cultural capital. The Faculty of Architecture at Chulalongkorn University has undertaken a pioneering project on "Managing Natural and Cultural Capital on Ko Sichang for Economic Value Creation." This initiative redefines economic development by linking heritage preservation with creative and sustainable livelihoods.

Ko Sichang, an island in Chonburi Province, is rich in both natural beauty and cultural heritage, including historic architecture, traditional fishing practices, and local festivals. However, like many small communities, the island faces economic pressures from mass tourism, urban expansion, and environmental degradation. The Faculty of Architecture's project seeks to balance conservation with economic growth, ensuring that development enhances rather than erodes local identity.

The project adopts an integrated planning approach that identifies, documents, and maps Ko Sichang's natural and cultural assets. Through participatory workshops with local residents, stakeholders prioritize which assets should be preserved and how they can be leveraged for sustainable economic activities. Examples include eco-tourism programs, cultural heritage trails, and value-added local crafts that highlight traditional knowledge.

Importantly, the initiative emphasizes community ownership. Rather than imposing external models of development, the project supports local participation in decision-making, empowering residents to shape their own economic futures. This participatory dimension not only enhances inclusivity but also builds community pride, which is essential for long-term sustainability.

From an academic perspective, the project provides a model of heritage-based urban and regional planning. Students and researchers from the Faculty of Architecture are actively involved in documenting sites, designing sustainable infrastructure, and experimenting with creative tourism strategies. This creates a learning laboratory where theory and practice intersect, preparing a new generation of planners and architects with skills in sustainable design.

Ko Sichang thus becomes more than a case study that serves as a prototype for community-driven economic development in Thailand and beyond. By positioning natura I and cultural capital as engines of growth, Chulalongkorn University illustrates how universities can mobilize knowledge to create economies that are not only profitable but also culturally and environmentally sustainable.

Obstacles and Opportunities in Migrant Labor Integration Policies in Thailand (Social Research Institute)

Thailand's economic growth has long been supported by migrant labor, particularly from neighboring countries such as Myanmar, Lao PDR, and Cambodia. Migrant workers are integral to sectors such as agriculture, construction, and domestic work, yet they often face precarious employment conditions, limited access to social protections, and vulnerability to exploitation. Recognizing this, the Social Research Institute at Chulalongkorn University has conducted a comprehensive study on the obstacles and opportunities in migrant labor integration policies in Thailand.

The research adopts a multidimensional framework that considers legal, social, economic, and political dimensions of migrant labor integration. On the one hand, it documents the structural barriers migrants face, such as restrictive legal frameworks, lack of recognition of skills, and inadequate access to healthcare and education. On the other hand, it identifies opportunities for reform, including regional labor agreements, policy innovations in skill certification, and inclusive approaches to social security.

The study is deeply informed by fieldwork and stakeholder engagement. Interviews with migrant workers reveal lived experiences of discrimination, wage insecurity, and lack of mobility. Simultaneously, consultations with employers, labor unions, and government officials highlight tensions between economic dependence on migrant workers and societal ambivalence toward their presence.

By bridging these perspectives, the project provides a nuanced understanding of both challenges and pathways forward.

Policy recommendations emerging from the study emphasize the need for inclusive and rights-based labor policies. These include improving legal pathways for migration, ensuring access to basic services regardless of legal status, and fostering bilateral or multilateral cooperation to protect workers' rights across borders. Such measures not only improve the lives of migrant workers but also contribute to Thailand's economic stability and international reputation.









The Social Research Institute's work highlights the role of academic institutions in addressing politically sensitive but socially critical issues. By generating evidence-based recommendations, Chulalongkorn University contributes to policy debates that directly affect millions of lives, ensuring that economic growth in Thailand is inclusive, equitable, and sustainable.

These demonstrate a comprehensive and multi-scalar approach to SDG 8: Decent Work and Economic Growth. Together, these projects address the global, local, and societal dimensions of sustainable economic development.

From anticipating labor market transformations at the global level, to unlocking cultural and natural assets for community-based economies, to ensuring the rights and dignity of migrant workers, the University's work illustrates how higher education can serve as a catalyst for inclusive and resilient growth.

Chulalongkorn University thus reaffirms its dual role as both a producer of knowledge and an active agent of change, advancing SDG 8 not only for Thailand but also as part of the global agenda for sustainable and equitable economic development.











Industry, Innovation and Infrastructure

โครงสร้างพื้นฐานและนวัตกรรม

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

สร้างโครงสร้างพื้นฐานที่เข้มแข็ง ส่งเสริมอุตสาหกรรมที่ยั่งยืน และขับเคลื่อนนวัตกรรม

Development of Flexible Conductive Substrates for Energy and Sensor Applications (Metallurgy and Materials Research Institute)

The transition to a sustainable economy depends heavily on innovations in materials science, particularly in the fields of energy storage, wearable electronics, and environmental monitoring. The Metallurgy and Materials Research Institute at Chulalongkorn University has pioneered a project on the development of flexible conductive substrates, an advanced material that combines electrical conductivity with mechanical flexibility. This innovation has significant implications for the future of energy technologies and sensor systems, placing Thailand at the forefront of cutting-edge industrial development.





Traditional conductive materials, such as metals or rigid composites, often face limitations when applied in flexible devices like wearable sensors, foldable electronics, or lightweight energy storage systems. The research team has addressed this gap by designing substrates that maintain high conductivity while remaining lightweight, bendable, and durable under repeated mechanical

stress. These materials can be incorporated into flexible batteries, energy-harvesting devices, biosensors, and environmental monitoring systems, directly supporting industrial innovation in health, renewable energy, and smart infrastructure.





Beyond laboratory research, the project emphasizes scalability and industrial applicability. Experimental results are translated into prototypes that demonstrate practical use, from flexible energy films to integrated sensor patches. Collaboration with industry partners ensures that the development cycle aligns with market needs, increasing the potential for commercialization. Furthermore, the research addresses sustainability by exploring the use of eco-friendly materials and processes that reduce environmental impact.

The project also carries an important educational dimension. Graduate and undergraduate students are trained in interdisciplinary fields of nanotechnology, polymer science, and electronics engineering, preparing a new generation of Thai researchers to contribute to the global innovation ecosystem.

Ultimately, this project demonstrates how advanced materials research can support sustainable industries, creating pathways for Thailand to transition toward a knowledge-driven economy. By positioning Chulalongkorn University as a hub for high-impact scientific innovation, the Metallurgy and Materials Research Institute ensures that SDG 9 is advanced not only in principle but in practical, transformative ways.

Innovation in Fermented Food Production: Enhancing Pla Ra Processes and Identity (Faculty of Science)

Sustainable industrialization is not limited to high-tech sectors; it also includes the transformation of traditional industries through innovation. The Faculty of Science at Chulalongkorn University has spearheaded a project on "Enhancing the Production Process of Fermented Fish (Pla Ra) to Increase Yield and Build Product Identity." This initiative demonstrates how scientific research can modernize a centuries-old culinary practice, improving efficiency, safety, and economic value while preserving cultural heritage.

Pla Ra, a traditional fermented fish widely consumed in Thailand and neighboring countries, is both a cultural symbol and a source of livelihood for local producers. However, traditional methods of fermentation often suffer from inconsistent quality, low production efficiency, and concerns about food safety. To address these challenges, the project applies biotechnology, microbiology, and process engineering to refine fermentation methods.

By identifying and cultivating beneficial microbial strains, the research team has optimized fermentation conditions to achieve greater consistency in taste, aroma, and nutritional content. Innovations in bioprocessing have also increased fermentation speed, thereby raising production efficiency and enabling small-scale producers to meet growing demand. In addition, the introduction of standardized quality control protocols ensures that products meet both national and international food safety standards, opening up opportunities for export.

The project goes beyond technical improvements by focusing on brand identity and cultural value. By linking Pla Ra with Thai heritage and promoting it as a gastronomic product with geographical indications (GI), the initiative enhances its competitiveness in domestic and international markets. This approach integrates scientific research with cultural sustainability, ensuring that innovation supports—not replaces—local traditions.

Moreover, the project provides significant social impact by strengthening rural economies. By equipping local producers with modern fermentation techniques and branding tools, the initiative creates decent work opportunities and raises income levels in local communities, thus contributing indirectly to SDG 8 (Decent Work and Economic Growth).

The Faculty of Science's project on Pla Ra illustrates how universities can transform traditional industries through applied research. By bridging science, culture, and commerce, Chulalongkorn University positions itself as a leader in creating sustainable value chains that honor local identity while advancing national competitiveness.

Social Innovation Creation Project (Faculty of Commerce and Accountancy)

Innovation is not solely about technology which is also about designing new solutions to social challenges. The Faculty of Commerce and Accountancy at Chulalongkorn University has initiated the "Social Innovation Creation Project," which integrates business education with social responsibility, encouraging students and entrepreneurs to develop solutions that generate both economic and social value.

At its core, the project fosters a culture of entrepreneurship for social good. Participants are guided through structured programs that combine business management principles with tools for social innovation, such as design thinking, impact measurement, and systems mapping. Teams of students, academics, and community stakeholders work collaboratively to identify pressing social or environmental challenges and design business models that address them sustainably.

Examples of project outcomes include initiatives in waste reduction, community health, and inclusive education, all of which demonstrate the potential for business-led solutions to drive social progress. Unlike conventional entrepreneurship programs, which focus on profit maximization, the Social Innovation Creation Project emphasizes the triple bottom line: people, planet, and profit.

An additional impact is educational. By embedding social innovation into the business curriculum, the Faculty is cultivating a new generation of leaders





who see entrepreneurship not only as an economic activity but as a tool for advancing sustainability.

Through this initiative, Chulalongkorn University highlights the role of academic institutions in nurturing ecosystems of innovation that extend beyond technology and infrastructure to include social resilience and inclusion. The project exemplifies how SDG 9 can be advanced not only through industrial productivity but also through creative approaches that tackle systemic social issues.





Chula Law Clinic for Tech & Spin-off (Faculty of Law)

Legal and institutional frameworks are critical for translating innovations into sustainable businesses. Recognizing this, the Faculty of Law at Chulalongkorn University has continued the "Chula Law Clinic for Tech & Spin-off" for three consecutive years.

The clinic was established under the collaborative framework of the University Technology Center (UTC), Chulalongkorn University's Research and Development Center for Industrial Technology, together with leading legal advisory firms Tilleke & Gibbins International Ltd. and Kudun & Partners. This partnership ensures that the clinic benefits from both academic expertise and professional legal practice, making it a unique model of university-industry collaboration.

The project addresses a critical gap in Thailand's innovation ecosystem. While research and development are advancing rapidly, many innovations fail to reach the market due to complex legal challenges involving intellectual property, corporate governance, and regulatory compliance. To bridge this gap, the Law Clinic offers free or low-cost legal consultation, helping innovators navigate these barriers and establish spin-off companies capable of sustaining and scaling their technologies.

Services provided by the clinic include intellectual property rights protection, drafting of licensing agreements, corporate structuring, and regulatory compliance reviews. By aligning legal expertise with technological entrepreneurship, the clinic ensures that research outputs are not only technically sound but also commercially viable and legally protected.

Equally significant is the educational dimension. The clinic operates as a training ground for law students, who gain hands-on experience working with start-ups and innovators. This dual impact, supporting entrepreneurs while cultivating the next generation of legal professionals, extends the project's benefits across multiple dimensions of society.

By embedding legal infrastructure into Thailand's innovation ecosystem, the Chula Law Clinic for Tech & Spin-off ensures that the country's growing pool of researchers and entrepreneurs can translate their ideas into market-ready solutions. In doing so, it contributes to sustainable industrialization and exemplifies how universities can facilitate transforming innovation into long-term economic growth and social progress.



Together for a Safer Internet: National Internet Safety Promotion 2025 (Faculty of Law)

In the digital age, infrastructure is not limited to physical assets such as roads or factories; it also includes the virtual spaces where people work, learn, and interact. Recognizing this, the Faculty of Law at Chulalongkorn University has launched

the initiative "Together for a Safer Internet: National Internet Safety Promotion 2025," which seeks to create secure and inclusive online environments.

The project is motivated by the growing prevalence of online risks, including cyberbullying, data theft, misinformation, and exploitation. These issues not only threaten individuals, particularly vulnerable groups such as children and women, but also undermine trust in digital economies. By promoting cyber safety education, digital literacy, and multi-sectoral cooperation, the initiative strengthens Thailand's digital infrastructure as a foundation for sustainable development.

Key activities include nationwide campaigns on safe internet practices, workshops with schools and community organizations, and collaboration with technology companies to strengthen privacy and data protection standards. The project also advocates for updated legal frameworks that ensure accountability while protecting human rights in digital spaces.

From an educational perspective, the project fosters digital citizenship, preparing individuals to use online tools responsibly and productively. By embedding internet safety into national awareness, the initiative contributes to the resilience of Thailand's social and economic systems in the digital era.

The project illustrates how Chulalongkorn University views infrastructure not only as a material foundation but as a socio-technical system that must be safe, inclusive, and equitable. By safeguarding digital spaces, the University ensures that innovation serves as a pathway to sustainable development rather than a source of new inequalities.

The projects span the spectrum from hard infrastructure (materials and food technologies) to soft infrastructure (legal systems and digital safety), ensuring that innovation is both technologically advanced and socially responsible. Collectively, they highlight the University's role as a driver of sustainable industrialization and as a bridge between research, policy, and society.

Chulalongkorn University thus reaffirms its place as a regional leader in innovation for sustainability, contributing not only to Thailand's economic transformation but also to global efforts in building inclusive, resilient, and sustainable industries for the future.





Reduced Inequalities ลดความเหลื่อมล้ำ

Reduce inequality within and among countries.

ลดความไม่เสมอภาคทั้งภายในประเทศและระหว่างประเทศ

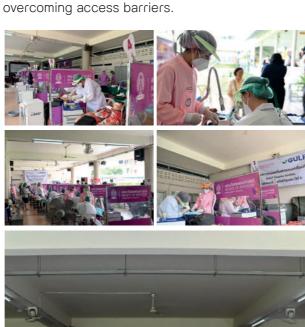
Proactive Dental Care: Delivering Health and Hope to Underserved Communities

Oral health is a gateway to overall well-being, yet for many on the fringes of society, quality dental care remains an unattainable luxury. The Faculty of Dentistry at Chulalongkorn University has launched several proactive initiatives to bridge this critical gap, deploying mobile dental units and volunteer teams to bring expert care directly to those in need.

A cornerstone of this effort is the Dental Project for individuals under the care of the Department of Empowerment of Persons with Disabilities. This initiative involves close collaboration to provide essential oral healthcare to people with disabilities residing in welfare homes. Recognizing that these individuals often face significant challenges in self-care and accessing medical services, the Faculty of Dentistry provides not only treatment but also crucial training for caregivers, fostering sustainable oral hygiene practices. This successful model has been expanded through the "GULF Sparks Smiles" mobile dental unit, a partnership with Gulf Energy Development PCL, which now specifically includes services for the visually impaired. This collaboration began at the Bangkok School for the Blind and has grown to serve the broader community of people with visual impairments, ensuring they receive professional and compassionate dental care free of charge.

The faculty's commitment also extends to those within the correctional system. Inspired by the royal concerns of His Majesty King Bhumibol Adulyadej The Great, the Royal Mobile Dental Unit Project was established and continues its vital work today. This project regularly visits correctional facilities, including Bang Kwang Central Prison and the Thonburi Women's

Correctional Institution, to provide dental services to inmates. These visits do more than just alleviate the pain of dental diseases; they restore a sense of dignity and promote well-being, helping prepare inmates for a healthier and more positive re-entry into society. Recent studies involving the faculty have even explored the use of teledentistry and intraoral cameras to improve the efficiency and accuracy of dental screening programs within prisons, showcasing an innovative approach to overcoming access barriers.







Unlocking Human Potential: Creating Pathways to a Brighter Future

Inequality is not confined to healthcare access; it extends to educational and employment opportunities. Chulalongkorn University is actively developing pioneering programs designed to empower diverse groups, enabling them to achieve self-sufficiency and economic security.

The Faculty of Science has partnered with the SATI Foundation, a non-profit dedicated to supporting at-risk youth, on a project to enhance the SATI Line Official mobile application. This initiative specifically targets underprivileged Myanmar youth in the Rangsit area, a community facing significant linguistic, cultural, and social hurdles. Students from the Faculty of Science applied their technical skills to develop the application into a vital support tool, featuring counseling rooms, educational resources, and skill-building activities. This digital platform provides a safe, accessible space for young people to connect with mentors and peers, effectively leveraging technology to build a resilient and empowered community.

Meanwhile, the Sasin School of Management is breaking new ground in inclusive employment. Recognizing the untapped potential of neurodivergent individuals, Sasin has established the Neurodiversity at Work Research Centre (NWRC) in partnership with Steps Community. This center, the first of its kind in Southeast Asia, is dedicated to creating meaningful employment opportunities for this often-overlooked segment of the population. In a landmark project, the NWRC conducted a large-scale focus group workshop with employees with disabilities and neurodivergent individuals from all 50 districts of the Bangkok Metropolitan Administration. The goal was to gather in-depth,

evidence-based insights into the barriers and needs within the workplace. This research is instrumental in developing data-driven tools and inclusive employment policies that other organizations can adopt as a model, fostering a work culture that celebrates diversity and unlocks the full potential of every employee.

These initiatives represent just a fraction of Chulalongkorn University's unwavering dedication to building a just and equitable society. From mobile dental clinics restoring smiles to innovative digital platforms and pioneering research that champions inclusive employment, each project shares a unified vision: to systematically dismantle barriers, cultivate opportunity, and ensure that every individual in Thailand has the chance to lead a life of dignity, health, and fulfillment, leaving no one behind.













Sustainable Cities and Communities

เมืองและชุมชนยั่งยืน

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

ทำให้เมืองและชุมชนมีความครอบคลุม ปลอดภัย เข้มแข็ง และยั่งยืน

Shaping Sustainable Urban Futures: Chulalongkorn University's Social Innovation in Action

As urban landscapes undergo rapid transformation, Chulalongkorn University has emerged as a leader in pioneering social innovations to address the complex environmental and societal challenges of the modern city. Committed to fostering livable, resilient, and inclusive urban environments for all, the university has initiated a diverse portfolio of projects aimed at sustainably enhancing the quality of urban life, integrating academic expertise with meaningful community engagement.

These initiatives span critical areas from air quality management and resilient urban planning to community identity revitalization, universal design, and the digital preservation of cultural heritage, reflecting the university's dedication to creating a lasting, positive impact on society.



Tackling the Air Quality Crisis with Data and Engagement

One of the most significant urban challenges is air pollution, particularly the issue of PM2.5 fine particulate matter. Chulalongkorn University's Faculty of Engineering has developed the "Sensor for All" project to confront this problem directly. The project innovates a network of low-cost sensors to monitor air quality and PM2.5 levels, providing accurate, real-time data to the public.

The core of this initiative is fostering participation from all sectors. Over 1,000 sensors have been installed nationwide through collaborations with public and private entities, such as the Electricity Generating Authority of Thailand (EGAT) and the National Housing Authority. The collected data not only helps citizens monitor and protect themselves from the effects of air pollution but also serves as a crucial database for academics and government agencies to analyze and develop long-term, sustainable solutions. Furthermore, the project has developed a smartphone application and published a book, "The Battle to Extinguish Dust," to disseminate knowledge and raise widespread public awareness.

Laying the Foundation for Resilient, Low-Carbon Cities of the Future

Beyond addressing immediate problems, Chulalongkorn University is looking ahead to establish a foundation for long-term sustainable urban development. The "Urban-Act: Integrated Urban Climate Action for Low-Carbon and Resilient Cities" project is a clear example of this commitment.











This is an international collaborative project, supported by the German government, aimed at integrating climate change considerations into local urban development.

In partnership with international organizations like GIZ and Thai government agencies, the Urban-Act project has selected Chiang Mai, Khon Kaen, and Phuket as pilot cities. Research teams from Chulalongkorn University's Transportation Institute, Environmental Research Institute, and the Department of Urban and Regional Planning at the Faculty of Architecture are instrumental in working with local authorities to create evidence-based, comprehensive planning processes. This will lead to the development of cities that can withstand climate change and grow sustainably with low carbon emissions.

Revitalizing Waterfront Communities and Fostering Sustainable Tourism

As urban expansion impacts the traditional identity of many communities, Chulalongkorn University recognizes the importance of preserving and revitalizing the cultural heritage that forms the city's foundation. A research project by the Faculty of Political Science on the sustainable development of waterfront community networks has studied the dynamics of canal-side communities in Bangkok's suburbs. The research analyzes the impacts of urbanization that have altered the physical and social fabric of these communities, recommending the creation of new interactive spaces to connect original residents with newcomers, thereby revitalizing relationships and preserving community identity.

The concept of sustainable tourism is also applied in the "Sustainable Tourism Initiatives for Amphawa" project, a collaboration between the Faculty of Science and the Worcester Polytechnic Institute, which focuses on promoting ecotourism to solve economic and social problems in the Amphawa area sustainably.



Designing for All People and All Ages in Society

Creating a sustainable city means creating a space where everyone can live with quality, leaving no one behind. The Universal Design Center (UDC) at the Faculty of Architecture is a key driver of this mission. The UDC was established to be a center for knowledge, research, and innovation in universal design, providing consultation and disseminating information on creating and adapting housing and environments that are safe and suitable for all ages, especially the elderly and persons with disabilities.









The UDC continuously offers a "Universal Design" course to build knowledge and understanding among architects, designers, and related professionals, enabling them to apply these principles in practice. Additionally, it runs projects in collaboration with four model local administrative organizations to scale up knowledge and best practices to communities nationwide.





Digital Technology for Cultural Heritage Preservation and Access

In the digital era, Chulalongkorn University harnessed technology as a vital tool for preserving and promoting cultural heritage to a wider audience. The Insight Wat Pho application, developed by the Faculty of Architecture, exemplifies social innovation by transforming a smartphone into a travel companion for visiting Wat Pho. Through Augmented Reality (AR) technology, the application provides a fun and interactive learning experience, enabling tourists to deeply explore the temple's history, architecture, and art. This not only cultivates appreciation for cultural heritage but also encourages respectful and sustainable tourism practices.

Building on this momentum, the Thai Studies Institute has introduced the Wat Arun Metaverse project, which employs Virtual Reality (VR) technology to create an immersive digital experience of the Temple of Dawn. As part of this initiative, the Institute invited the public to test the VR game application between 18–27 November 2024 at Wat Arun Ratchawararam Ratchawaramahawihan. The game was developed under the research project "Developing Virtual Reality Technology to Enhance the Cultural and Tourism Capital of Wat Arun Ratchawararam Ratchawaramahawihan".



This research project represents a crossdisciplinary collaboration between the humanities and engineering. Scholars from the Thai Studies Institute worked closely with archaeologists from the Department of Archaeology, Fine Arts Department, to curate and synthesize knowledge of Wat Arun's art and architecture. This cultural knowledge was then translated into a VR experience through a creative game application developed by the Wireless Communication Ecosystem Research Unit, Department of Electrical Engineering, Faculty of Engineering, Chulalongkorn University. The project showcases how technology can communicate the cultural significance of Wat Arun, one of Thailand's most treasured heritage sites, to audiences worldwide.

Taken together, these projects demonstrate that Chulalongkorn University is not merely an educational institution but also a catalyst for social change which is driving innovation that contributes to cultural preservation, sustainable tourism, and the development of a truly sustainable city for both present and future generations.











Responsible Consumption and Production

การบริโภคและการผลิตที่ยั่งยืน

Ensure sustainable consumption and production patterns.

ส่งเสริมรูปแบบการผลิตและการบริโภคที่ยั่งยืน

Forging a Sustainable Future Through Socially Innovative Engagement

At the heart of Chulalongkorn University's mission lies a profound commitment to leveraging knowledge for the betterment of society. This commitment is vividly expressed through a strategy of Socially Innovative Engagement, a holistic approach that intertwines academic research, practical innovation, and deep community collaboration to address the nation's most pressing sustainability challenges. The 2025 Sustainability Report showcases a portfolio of pioneering projects that transcend the conventional boundaries of the university, creating tangible, positive impacts from industrial boardrooms to rural villages. By focusing on responsible consumption and production, these initiatives demonstrate a dynamic model for how higher education can serve as a powerful catalyst for a circular economy and a more resilient future.

This approach is not merely theoretical; it is embedded in the university's core functions, from policy and operations to research and social outreach. Chulalongkorn University actively fosters an environment where faculty and students collaborate with external partners—including government









agencies, private sector leaders, and local communities—to transform research-based knowledge into actionable solutions. The projects highlighted herein are exemplars of this philosophy, tackling complex waste streams, reimagining the built environment, and cultivating a culture of environmental stewardship that radiates from the campus outward. They represent a deliberate shift from identifying problems to co-creating enduring solutions, marking a new chapter in the university's legacy of societal contribution.





Transforming Waste into Value: Pioneering a National Circular Economy

Recognizing the urgent need to address plastic pollution and resource depletion, Chulalongkorn University has positioned itself at the forefront of developing a circular economy for plastics in Thailand. Through meticulous research and strategic partnerships, the university is creating foundational tools and innovative solutions to turn problematic waste streams into valuable resources.

A landmark achievement in this arena is the National Database of Recycled PVC in Thailand, a multi-year collaborative project between the Petroleum and Petrochemical College (PPC) and the ASEAN Vinyl Council. Now in its seventh year, this initiative meticulously tracks and analyzes the flow of polyvinyl chloride (PVC) throughout its entire lifecycle, from production to disposal—a comprehensive "cradle-to-grave" assessment. Using Material Flow Analysis (MFA), the project provides a systematic evaluation of PVC stocks and flows, identifying critical points for intervention. This robust database serves as an indispensable tool for policymakers and industry stakeholders, enabling the formulation of effective, evidence-based strategies to increase recycling rates and foster a truly circular economy for one of the world's most versatile plastics. The project not only highlights leakages in the current system but also identifies market drivers and opportunities for new applications of recycled PVC, aligning with international certification standards to ensure the credibility and value of recycled materials.

The university's expertise extends to one of the most challenging waste sectors: healthcare. While Thailand has established legislation for infectious materials, particularly PVC-based products like IV bags, tubing, and oxygen masks, presents

a unique set of problems. The PPC has launched a targeted project to develop a comprehensive management framework for these materials. This initiative moves beyond simple disposal, exploring pathways for responsible recycling and upcycling. By transforming this waste into new, value-added products such as pipes, cables, and door frames, the project provides a viable economic and environmental alternative to landfilling. It addresses the full lifecycle, from segregation at the source within hospitals to the development of new markets for the recycled content, demonstrating a closed-loop system that enhances resource efficiency and reduces the healthcare sector's environmental footprint.









The Built Environment Reimagined: Innovations in Sustainable Construction

The construction industry is a major contributor to resource consumption and carbon emissions. The Faculty of Architecture is tackling this challenge head-on through a series of innovative projects that rethink building materials and construction processes from the ground up, using the rigorous methodology of Life Cycle Assessment (LCA) to guide design and material selection.

One of the most creative projects valorizes a common form of biowaste: green mussel shells. Tons of this waste, generated annually by the food industry, typically ends up in landfills. Researchers, however, have developed a green, low-energy process to transform this waste into high-purity biocalcium carbonate (Bio-CaCO3). Containing up to 98% calcium carbonate, mussel shells are an ideal raw material. Through calcination and carbonation, the shells are converted into particles of calcite and vaterite, which have proven to be a viable and sustainable substitute for cementitious materials in construction. This innovation not only diverts waste from landfills but also reduces the reliance on carbon-intensive cement production, offering a cost-effective and environmentally friendly building material. The research has further expanded to explore applications in cosmeceuticals and as fillers for plastics and paper, showcasing the broad potential of this upcycled biowaste.

This commitment to sustainable materials is complemented by a holistic evaluation of building practices. The faculty is conducting comprehensive LCAs on both prototype sustainable detached houses and semi-prefabricated housing systems. These assessments analyze the environmental impact of a building throughout its entire lifecycle—from raw material extraction and manufacturing to transportation, construction, use, and end-of-life. In collaboration with industry partners like Landy Home, a leading home builder in Thailand, researchers collect detailed data

researchers collect detailed data on everything from the bill of materials (BOM) and transportation logistics to energy consumption and waste generation on-site. This "cradle-to-site" analysis provides invaluable, data-driven insights that help identify hotspots for environmental impact. The findings empower architects, builders, and consumers to make more informed choices, promoting designs and materials that significantly reduce the overall carbon footprint and environmental toll of residential construction.

Furthering this vision, the university is also exploring the integration of recycled solar panel glass into construction materials. As the adoption of solar energy grows, so does the impending challenge of end-of-life panel waste. This forward-looking project applies circular design principles to create a closed loop for photovoltaic materials. By developing methods to incorporate recycled solar glass into building components, the research aims to prevent a future waste crisis while simultaneously creating a new source of sustainable building materials, perfectly aligning the goals of clean energy and the circular economy.

Cultivating Change from the Ground Up: Community-Led Waste Management

True sustainability cannot be achieved through top-down mandates alone; it requires the active and informed participation of the community. Chulalongkorn University's strategy of Socially







Innovative Engagement places a strong emphasis on grassroots initiatives that empower citizens and institutions to become agents of change. This is exemplified by projects that extend beyond the university walls to tackle waste management challenges in local communities and schools.

In Khon Kaen province, the Faculty of Science has partnered with local administrative bodies on a vital project to overhaul the municipal solid waste management system in the Khuean Ubolratana subdistrict. This project began with a comprehensive study of the existing system, engaging directly with residents and officials to understand the practical challenges and societal perspectives on waste. The research identified significant barriers, including gaps in public awareness, ineffective segregation processes, and bureaucratic constraints. Armed with these insights, the university team, in collaboration with the Ubolratana Hospital Foundation, is now codeveloping practical and sustainable solutions. The project emphasizes upstream management and community education, drawing inspiration from successful models like Chula Zero Waste to incentivize proper segregation and reduce waste at the source. By fostering a dialogue between citizens and local government, this initiative aims to build a more effective, responsive, and sustainable waste management system that is truly owned by the community it serves.

Closer to home, the university is nurturing the next generation of environmental stewards through the TRIAM TO GREEN (TTG) project. This collaboration between the Faculty of Science and the prestigious Triam Udom Suksa School tackles waste management within the school's high-traffic canteens. The project introduced a systematic waste separation system, modeled after the successful Chula Zero

Waste initiative, and coupled it with a multifaceted environmental communication campaign. Through online media, engaging on-site activities, and educational workshops, TTG has successfully raised awareness and transformed the behavior of students, teachers, and staff. Pre- and post-implementation surveys have shown a marked increase in knowledge and positive attitudes towards waste separation, leading to a significant reduction in landfill-bound waste. The project not only improves the school's environmental performance but also serves as a powerful, replicable model for fostering a culture of sustainability in educational institutions across the country.

This ethos of participation is also cultivated on campus. The Environmental Research Institute's "Green Lucky" activity, for instance, uses gamification to encourage students and staff to participate in recycling, making sustainable actions both rewarding and engaging. These initiatives, from the hyper-local to the provincial, underscore a core belief: that empowering individuals with knowledge and practical tools is the most effective path to lasting environmental change.

Through this multi-pronged strategy of Socially Innovative Engagement, Chulalongkorn University is demonstrating that the path to a sustainable future is paved with collaboration, innovation, and a deep-seated commitment to societal well-being. By transforming waste into wealth, building with nature, and empowering communities, the university is not just fulfilling its academic mission—it is actively architecting a more responsible and resilient Thailand for generations to come.





SDG 13



Climate Action การรับมือการเปลี่ยนแปลงสภาพภูมิอากาศ

Take urgent action to combat climate change and its impacts. เร่งดำเนินการเพื่อต่อสู้และรับมือกับการเปลี่ยนแปลงสภาพภูมิอากาศ

From Laboratory to Livelihood: Driving Climate Action Through Social Innovative Engagement

Chulalongkorn University's mission extends beyond the confines of its lecture halls and research laboratories. It carries a profound responsibility to serve society by addressing its most pressing challenges. In an era defined by the escalating climate crisis, this responsibility has never been more critical. The university's 2025 Sustainability Report showcases a portfolio of initiatives that tackle climate change not as an isolated academic problem, but as a complex societal issue requiring collaborative, innovative, and people-centric solutions.

From the air we breathe in our cities to the resilience of our industries and the health of our rural landscapes, the impacts of a changing climate are felt across Thailand. In response, Chulalongkorn University has mobilized its diverse expertise, fostering partnerships with communities, government agencies, and the private sector to co-create a more sustainable and resilient future for the nation.

Transforming Urban Landscapes for a Cleaner Tomorrow

Bangkok's chronic air pollution and carbon footprint demand bold interventions. Recognizing that transport is a major contributor, the Chulalongkorn Transportation Institute has launched a pioneering project to promote the adoption of electric vehicles among the city's ubiquitous motorcycle taxi drivers. This initiative goes far beyond technology promotion. Through direct engagement, focus groups, and collaborative workshops, researchers have worked to understand the real-world barriers and opportunities for drivers. By listening to their concerns about upfront costs, battery-swapping logistics, and viable business models, the project has developed practical, data-driven policy recommendations. This deep engagement ensures that the transition to cleaner transport is not only environmentally beneficial but also economically viable for the drivers who are the lifeblood of Bangkok's mobility network.



At the structural level, the Faculty of Architecture is engineering the very materials of our future cities. In collaboration with industry partners, the faculty is developing innovative building materials integrated with Graphene Quantum Dots, designed to capture and store carbon dioxide. This groundbreaking research aims to turn buildings from passive structures into active participants in the fight against climate change, laying the groundwork for smart cities that are not just technologically advanced, but fundamentally sustainable.



















Empowering Communities, Building Resilience

Chulalongkorn University's commitment to social engagement shines brightest at the grassroots level. The "Green Energy Community" project, led by the Institute of Biotechnology and Genetic Engineering, exemplifies how localized circular economies can generate immense value. Working with communities in Prawet and Lat Krabang, the project empowers residents to convert agricultural waste, which would otherwise be burned, into biochar. This process yields two significant benefits: a renewable biogas for household cooking and a stable, carbon-rich soil amendment that improves agricultural yields. It is a tangible model of turning waste into wealth, reducing air pollution, and sequestering carbon in the soil.



This hands-on approach is echoed in the "CHULA LEARN-DO-SHARE" program by the Faculty of Engineering. Responding to the severe threat of wildfires in Northern Thailand—a major source of PM2.5 and carbon emissions—faculty members and students traveled to Chiang Mai. There, they worked shoulder-to-shoulder with local communities and forestry officials to build firebreaks around the Huai Hong Khrai Royal Development Study Centre. This act of service was coupled with knowledge sharing and the installation of "Sensor for All" air quality monitors, empowering the community with the tools and understanding to protect their homes and environment.

Architecting Systemic Change for Industry and Governance

A sustainable transition requires systemic change, particularly within the nation's industrial and corporate sectors. To guide this transformation, the Petroleum and Petrochemical College has partnered with the Thai Institute of Chemical Engineering and Applied Chemistry (TIChE) to produce the "TIChE White Paper on Decarbonization for Sustainability of Process Industries." This strategic document serves as a vital roadmap, providing Thailand's heavy industries with the knowledge and frameworks needed to reduce their carbon footprint and align with global sustainability goals.

Complementing this industrial focus, the Faculty of Law's Center for Legal and Development Studies is strengthening the foundations of corporate accountability. In partnership with the Carbon Institute for Sustainability, they have developed the "Climate Governance and Reporting Landscape Guideline."

This initiative equips Thai businesses and regulators with a clear understanding of international standards for measuring and reporting greenhouse gas emissions (GHG Protocol). By promoting transparency, the project empowers companies to manage their climate impacteffectively, enhancing their competitiveness and fostering investor confidence.











Furthermore, acknowledging that climate change increases the risk of natural disasters, the College of Population Studies has collaborated with the Japan International Cooperation Agency (JICA) and the Nagoya Institute of Technology. Their project on establishing Area-Business Continuity Management (Area-BCM) in industrial estates strengthens the resilience of Thailand's economic hubs against catastrophic events like flooding. By shifting from individual company plans to a collective, area-based resilience strategy, the project protects livelihoods and secures the nation's vital supply chains.









These diverse initiatives, from street-level engagement in Bangkok to the creation of national industrial roadmaps, are unified by a common thread: the belief that enduring solutions are born from collaboration. Through its unwavering commitment to Social Innovative Engagement, Chulalongkorn University continues to fulfill its role as a "Pillar of the Kingdom," not only by generating knowledge but by actively working with all sectors of society to build a sustainable, resilient, and thriving Thailand for generations to come.

SDG 14



Life Below Water ทรัพยากรทางทะเล

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

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Chulalongkorn University: Championing Social Innovation for a Sustainable Marine Future

The world's oceans, the lifeblood of our planet, face unprecedented threats from climate change and human activities. These pressures have inflicted severe damage on vital marine ecosystems, particularly Thailand's vibrant coral reefs, which serve as critical nurseries for marine life, bastions of biodiversity, and natural barriers protecting coastlines. Recognizing the urgency of this crisis, Chulalongkorn University has committed to pioneering the restoration and conservation of Thailand's precious marine heritage through a series of socially innovative and collaborative initiatives. By leveraging its academic expertise and fostering powerful partnerships, the university is driving tangible change to ensure the long-term health and sustainability of the nation's seas.

"INNOVAREEF": Printing a New Future for Marine Habitats

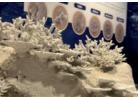
A standout initiative is "INNOVAREEF," a project that revolutionizes the concept of artificial reefs. Moving beyond traditional methods that often introduce foreign materials into the marine environment, this project represents a groundbreaking collaboration between Chulalongkorn University's Veterinary Medical Aquatic Animal Research Center (VMAR), SCG Cement, and the Department of Marine and Coastal Resources (DMCR). The team utilizes advanced 3D-printing technology to construct artificial corals that meticulously mimic the complex structures and appearance of their natural counterparts.

The "INNOVAREEF" structures are printed using an innovative, eco-friendly cement that is rich in

calcium carbonate, creating an ideal substrate for coral larvae to settle and thrive. The design is not only aesthetically authentic but also functionally superior, incorporating hydrodynamic principles to withstand strong currents while creating sheltered spaces for juvenile fish and other small marine organisms. This innovation extends beyond simple habitat restoration; the reefs can be upgraded into "Smart Stations" embedded with sensors to monitor crucial oceanographic data like water temperature and pH levels. This data provides invaluable insights for tracking environmental changes and informing conservation strategies.





















"Rigs-to-Reefs": Transforming Industrial Relics into Ecological Havens

In another pioneering effort, Chulalongkorn University plays a vital role in Thailand's first "Rigsto-Reefs" project. This ambitious undertaking, in partnership with Chevron Thailand Exploration and Production, Ltd., and the DMCR, involves repurposing seven decommissioned offshore oil platform jackets into artificial reefs. These towering steel structures, which had already become thriving vertical ecosystems over decades of operation, were carefully relocated to a site near Ko Pha-ngan in Surat Thani province.

Instead of a costly and ecologically disruptive removal process, the project gives these industrial relics a new purpose. The complex lattice of the jackets provides an ideal framework for marine life, and post-deployment monitoring has revealed a rapid colonization by a diverse array of species, including commercially important fish. This initiative not only enhances local biodiversity and supports the livelihoods of fishing communities but also creates a novel and exciting destination for dive tourism. By diversifying tourist attractions, the Rigs-to-Reefs project helps alleviate pressure on natural coral reefs, distributing economic benefits more broadly and promoting a sustainable model for marine ecotourism.

From Restoration to Prevention: Fingerprinting Marine Pollution

Beyond restoring damaged habitats, Chulalongkorn University is proactively addressing the persistent threat of marine pollution. Oil spills and tar ball contamination frequently plague Thailand's shores, causing environmental damage and economic loss, with perpetrators often remaining unidentified. To combat this, the university is leading a crucial initiative to develop a "Crude Oil and Relevant Oil Product Fingerprint Library" for Thailand.

This project, spearheaded by the College of Petroleum and Petrochemicals, is a major collaborative effort involving ten government and private sector agencies. Researchers are using advanced analytical techniques, such as Gas Chromatography with a Sulfur Chemiluminescence Detector (GC-SCD), to analyze the unique chemical compositions of various crude oils and petroleum products. This process creates a detailed "fingerprint" for each sample. When a spill occurs, environmental authorities can now collect a sample of the pollutant, analyze its fingerprint, and match it against the comprehensive national database.

This library serves as a powerful forensic tool, enabling swift and accurate identification of the pollution source. It empowers regulators to enforce accountability, creating a strong deterrent against environmental negligence. Furthermore, it provides critical data for developing more effective cleanup strategies and long-term policies to prevent future incidents, marking a significant step forward in Thailand's capacity for environmental governance and protection.



Pioneering Soft Coral Propagation: A Rainbow of Hope Beneath the Waves

Beyond constructing new habitats, the university is directly tackling the challenge of restoring coral populations, with a special focus on the beautiful yet vulnerable soft corals. Researchers at the university's Aquatic Resources Research Institute have achieved remarkable success in developing techniques for both asexual and sexual propagation of these delicate organisms.

The research team has perfected a micro-fragmentation technique, where tiny tissue samples, as small as 0.5 to 1 centimeter, are carefully harvested from parent colonies. These fragments are cultivated in controlled land-based aquaculture systems before being transplanted back into the ocean. This method allows for the rapid generation of new colonies with minimal impact on the wild parent stock. Simultaneously, the team is advancing sexual propagation methods, which are crucial for enhancing genetic diversity. Corals with greater genetic variation are more resilient and better equipped to adapt to changing environmental conditions. This breakthrough not only aids in the ecological recovery of degraded reefs but also opens a pathway for the legal and sustainable aquaculture of soft corals for the ornamental fish trade, providing an ethical alternative to the illegal harvesting that threatens wild populations.



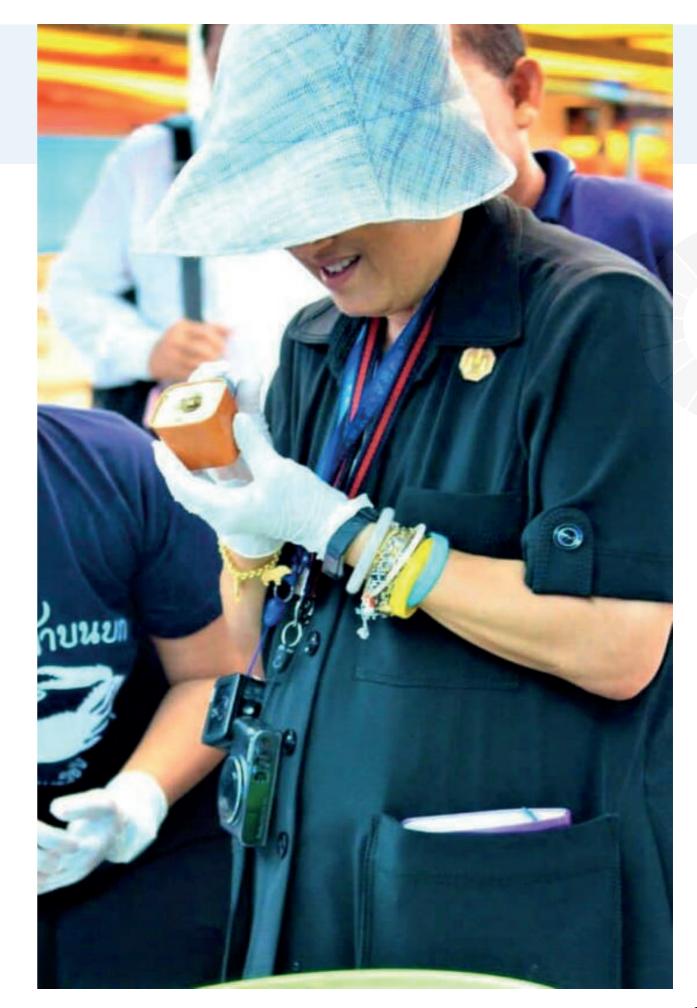




Conclusion: Driving a Sustainable Future Through Knowledge and Collaboration

The INNOVAREEF, Rigs-to-Reefs, oil fingerprinting, and soft coral propagation projects exemplify Chulalongkorn University's unwavering commitment to marine conservation. By integrating cutting-edge science and technology with a spirit of social innovation and robust collaboration among government, industry, and local communities, the university is crafting effective and sustainable solutions to complex environmental problems. These initiatives demonstrate the profound impact that a leading academic institution can have in driving positive social change, safeguarding Thailand's marine ecosystems as a priceless legacy for the nation and the world.









Life on Land ทรัพยากรทางบก

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

ปกป้อง ฟื้นฟู และใช้ประโยชน์จากระบบนิเวศบนบกอย่างยั่งยืน จัดการป่าไม้ ต่อต้านการกลาย เป็นทะเลทราย และหยุดการสูญเสียความหลากหลายทางชีวภาพ

Forging a Sustainable Future Through Innovative Community Engagement

Chulalongkorn University is deeply committed to fostering a sustainable future for Thailand, not only through academic excellence but also through impactful social innovation. By collaborating with local communities, government agencies, and private sector partners, the university is pioneering projects that address critical environmental challenges, preserve cultural heritage, and create sustainable livelihoods. These initiatives, rooted in the principle of "Life on Land," demonstrate a holistic approach to sustainability, recognizing the intricate connections between ecological health, cultural vitality, and community well-being.

A Landmark Discovery: The Himalayan Giant Honey Bee in Thailand

A significant breakthrough in biodiversity research unfolded in Doi Pha Hom Pok National Park, Chiang Mai, where a team from Chulalongkorn University, in collaboration with the Department of National Parks, Wildlife and Plant Conservation, officially confirmed the first-ever presence of the Himalayan giant honeybee (Apis laboriosa) in Thailand. This discovery, published in the journal Apidologie, extends the known range of the world's largest honeybee and highlights the rich, yet underexplored, biodiversity of northern Thailand.

The identification of Apis laboriosa, distinguished from the more common Apis dorsata by its black abdomen and golden-yellow fur, was the culmination of meticulous data collection and sample analysis. This finding is not merely an academic achievement; it carries profound

carries profound implications for conservation and the local economy. The Himalayan giant honeybee is a crucial pollinator, vital for maintaining the health and diversity of the forest ecosystem. Furthermore, it is the sole producer of "red honey," a highly prized product with medicinal properties, suggesting potential for sustainable, high-value economic opportunities for local communities. The university's role in this discovery underscores its commitment to exploring and protecting the nation's natural heritage.







Harmonizing Human-Elephant Coexistence in Klong Ta In

In the agricultural village of Klong Ta In, Chanthaburi, a collaborative project between Chulalongkorn University and Worcester Polytechnic Institute is tackling the complex issue of humanelephant conflict. This initiative, developed in partnership with the Kachanurak Village organization, aims to create a sustainable tourism model that supports both the local community and the elephant population.

Farmers in Klong Ta In have long faced significant crops and income losses due to elephant encroachment. To address this, an elephant deterring task force was established. However, the operational costs of this vital team placed a financial burden on the community. The project's innovative solution is to develop a tourism package that not only generates supplemental income for the task force but also creates a community fund to compensate farmers for crop damage. This approach fosters a symbiotic relationship where the preservation of elephants becomes an economic asset for the village, promoting a peaceful and sustainable coexistence.



Preserving the Echoes of Nan's Cultural and Natural Landscape

In the northern province of Nan, Chulalongkorn University is leading multifaceted initiatives to safeguard both the cultural and ecological integrity of the region. One such project focuses on the conservation of the traditional music of the Khmu and Tin ethnic communities. This endeavor goes beyond mere documentation; it seeks to revive and sustain these unique musical traditions through collaborative workshops and educational programs. By engaging with local artisans and youth, the project ensures that this invaluable cultural heritage is passed down to future generations.

The project's curatorial and collaborative methods involve working directly with the two remaining makers of the krung, a traditional musical instrument, to document their knowledge of plant identification, wood cutting, and instrument construction. This interdisciplinary approach integrates cultural preservation with ecological awareness, recognizing that the sustainability of the music is intrinsically linked to the health of the surrounding ecosystem.

Parallel to this cultural preservation effort, Chulalongkorn University has partnered with the Kasikorn Foundation on Nan's herbal value chain enhancement project. This initiative aims to restore deforested areas by promoting the cultivation of high-quality medicinal herbs. The project leverages the university's research and development expertise to improve herbal product quality and create sustainable income for local farmers, thereby reducing their reliance on deforestation-linked agriculture. To date, over 15 million baht has been invested in 10 research projects focusing on 15 herbal species.

Furthermore, research from the Faculty of Pharmaceutical Sciences has explored the potent effects of Resveratrol, a compound found in certain plants, in reversing cellular senescence induced by particulate matter (PM2.5) pollution. This cutting-edge research has the potential to contribute to the development of high-value products from local herbs, further strengthening the economic incentives for forest conservation.

Through these diverse and innovative projects, Chulalongkorn University is demonstrating that the path to a sustainable future lies in the integration of knowledge, community engagement, and a deep respect for both cultural and natural heritage. By empowering local communities to become stewards of their own resources, the university is not only protecting the environment but also building a more resilient and prosperous Thailand for all.





Peace, Justice and Strong Institutions

สันติภาพ ความยุติธรรม และสถาบันที่เข้มแข็ง

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

ส่งเสริมสังคมที่สงบสุข ครอบคลุม เปิดโอกาสเข้าถึงความยุติธรรม และสร้าง สถาบันที่มีประสิทธิภาพ โปร่งใส และครอบคลุมในทุกระดับ

Chulalongkorn University: Driving Social Innovation for a Resilient and Sustainable Thai Society

In an era defined by complex societal challenges, Chulalongkorn University is steadfast in its commitment to extend its role beyond academic excellence, dedicating its intellectual resources to fostering a just, peaceful, and inclusive society. Through a robust framework of Social Innovative Engagement, the university champions initiatives that translate scholarly expertise into tangible solutions, strengthening communities and empowering citizens. Three landmark projects exemplify this commitment: "Chula Safer Cyber Together," an initiative building a resilient defense against digital threats; "Law Square: A Legal Fest by Chula Law," a project democratizing access to justice; and "Care D+: Driving Public and Social Communication," a program healing communication divides in the healthcare system.

Chula Safer Cyber Together: Building Digital Citizenship and Resilience

As our lives become increasingly intertwined with the digital world, the threat of cyber harm from financial scams and data breaches to cyberbullying and disinformation has grown exponentially. Recognizing the urgent need for a digitally savvy and secure populace, Chulalongkorn University launched the "Chula Safer Cyber Together" initiative. This project was a key seminar within the broader Safer Internet Day Thailand 2025 conference, demonstrating a powerful, multidisciplinary university-wide collaboration.



The initiative's core mission is to elevate public understanding of the multifaceted nature of cyber multifaceted nature of cyber threats and to equip citizens with the essential skills for self-protection. The project convened a diverse group of experts from Chulalongkorn's Faculties of Law, Arts, Pharmaceutical Sciences, Psychology, and Communication Arts, alongside the College of Population Studies and the College of Public Health Sciences. This collaborative powerhouse delivered seminars on critical topics, including the legal frameworks protecting internet users, how to identify and counter health-related fake news, understanding and preventing the psychological harm of cyberbullying, and promoting responsible and empathetic digital communication.

The impact of this initiative is profound, fostering a heightened sense of awareness and cultivating the critical digital literacy skills necessary for navigating the online world safely and ethically. "Chula Safer Cyber Together" extends its influence beyond public education, serving as a catalyst for building a strong cooperative network among government agencies, private sector entities, and civil society organizations, all united in the goal of creating a more secure and responsible digital ecosystem for Thailand.

Laฟ์ Square: Demystifying Law and Justice in the Heart of the City

Access to justice and legal knowledge is a fundamental human right, yet for many, the law remains an intimidating and inaccessible domain. To dismantle this barrier, the Faculty of Law at Chulalongkorn University conceived "Law Square: A Legal Fest by Chula Law," an ambitious project that transformed Siam Square, a bustling hub in central Bangkok, into a vibrant "Legal District" open to all.

This groundbreaking initiative represented a significant partnership between the Faculty of Law and over 30 leading public and private organizations. Key partners included the Office of the Attorney General, the Lawyers Council of Thailand, the Department of Special Investigation (DSI), and the Personal Data Protection Committee (PDPC). The event offered pro-bono legal consultations on practical, everyday issues affecting citizens and small business owners, such as tax law, online crime, and business registration. The festival atmosphere was enhanced by accessible, easyto-understand legal exhibitions and provided an invaluable opportunity for law students to engage in public service. This hands-on experience is a core component of the faculty's mission to cultivate a new generation of socially conscious legal professionals who learn through real-world application.

The most significant outcome of "Law Square" was its success in making the law feel relevant and approachable to the public. By situating the event in a high-traffic, open-air venue, it attracted a diverse audience and fostered a welcoming environment for legal inquiry and learning. The project not only provided immediate assistance to individuals facing legal challenges but also promoted a broader culture of respect for the rule of law and the rights of others—the essential foundation of a peaceful and just society.











Care D+: Bridging Divides with Empathy in Healthcare

The relationship between healthcare professionals, patients, and their families is the bedrock of an effective and compassionate public health system. Communication breakdowns, however, can often lead to misunderstanding, distress, and conflict. In a strategic partnership with the Ministry of Public Health, Chulalongkorn University's Graduate School developed the "Care D+ (Care Dee Plus)" program to elevate the quality of communication across the healthcare sector.

"Care D+" is an innovative training program designed to cultivate skills in Empathic Communication and Crisis Communication Management among healthcare and public health personnel nationwide. Delivered by Chulalongkorn's leading experts in communication and psychology, the curriculum empowers participants to listen actively and respond compassionately to the anxieties, needs, and concerns of patients and their relatives. By fostering mutual understanding and trust, the program aims to de-escalate conflicts and strengthen the therapeutic alliance between providers and the public they serve.









The program has achieved remarkable success, with over 20,000 healthcare professionals completing the training—doubling the initial target. This achievement has yielded significant tangible benefits, including saving the public sector an estimated 37 million baht in training costs and returning over 160,000 work hours to the healthcare system. More importantly, its social impact is immeasurable. "Care D+" has cultivated "Heart-to-Heart Coordination Teams" in hospitals across the country, demonstrably reducing conflicts and litigation while enhancing patient satisfaction and confidence in the public health system. This initiative stands as a model for public sector reform, proving its effectiveness in meeting the real-world needs of its citizens.

The Power of Knowledge for a Sustainable Society

"Chula Safer Cyber Together," "Law Square," and "Care D+" are powerful testaments to Chulalongkorn University's role as a leader in social innovation. Though diverse in their focus and execution, these projects share a common, unifying goal: to build a more peaceful, just, and inclusive society. From ensuring safety in the digital realm and opening the doors to legal justice to mending relationships within the healthcare system, Chulalongkorn University demonstrates that the power of knowledge, when applied with purpose and empathy, is a transformative force for positive change, building a stronger, more resilient, and sustainable society for all.



(SDG 17)



Partnerships for the Goals หุ้นส่วนเพื่อการพัฒนา

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

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Forging Alliances for a Resilient Future: Chulalongkorn University's Commitment to Collaborative Impact

In an era defined by complex global challenges—from profound demographic shifts and rapid technological advancement to the urgent need for more inclusive societies—Chulalongkorn University stands firm in its commitment to drive meaningful change through social innovation and strategic engagement. Moving beyond the traditional confines of academia, the university has embraced a philosophy of proactive partnership, recognizing that the most durable solutions emerge from collaboration. By weaving a robust network of alliances spanning local communities, government agencies, private industry, and international institutions, Chulalongkorn is amplifying its impact and pioneering a new paradigm for the university's role in building a sustainable tomorrow.













A cornerstone of this collaborative ethos is the landmark research initiative led by the College of Population Studies: "Policy on Driving an Active-Aging Society with an Intergenerational Integration Approach in ASEAN Plus Three Member States." As Thailand and its neighbours experience one of the most rapid demographic transitions in history, this project moves beyond mere analysis to develop actionable policy frameworks for the entire region. The initiative, undertaken in close partnership with Thailand's Department of Older Persons, exemplifies a powerful university-government synergy aimed at tackling a critical societal issue.

The project's core mission is to foster an inclusive aging society by integrating intergenerational approaches, a concept that promotes mutual understanding and knowledge exchange between generations to build social cohesion. This forward-thinking research not only provides invaluable data for ASEAN+3 member states to enhance the quality of life for their aging populations but also cements Thailand's leadership role in shaping regional social policy. This work builds on the success of previous award-winning research platforms like "Chula ARi," which developed Thailand's 3rd National Plan on the Elderly (2023-2037) and has already been recognized for creating tangible support systems in urban communities.







Chulalongkorn's dedication to fostering global citizenship and cross-border understanding is further demonstrated through its leadership in international academic networks. The university proudly hosts the APRU SDG Education for Global Citizenship (SDG4GC) program, an initiative codesigned with six core partner universities and the United Nations. This transdisciplinary program brings together students from 60 universities across the Pacific Rim, empowering them to tackle global challenges through social innovation. With a 2025 theme of "Diversity and Inclusivity—Actions for Sustainability," the program cultivates a new generation of leaders prepared to build resilient global communities.













On a regional level, the CHULA-AUN Summer Camp provides a vibrant platform for students from the ASEAN University Network (AUN) to engage in intercultural exchange and collaborative learning on pressing topics like medical tourism. These programs dissolve classroom walls, creating immersive experiences that build lasting international friendships and professional networks.

Recognizing that academic partnerships are crucial for intellectual advancement, Chulalongkorn actively collaborates with peer institutions. A prime example is the CU-KU International Symposium in Education 2025, organized jointly with Kasetsart University. Under the theme "Inclusive Society: Innovating for an Inclusive and Equitable Future," the symposium serves as a vital forum for educators and researchers to share interdisciplinary approaches that foster learning environments for all. This commitment to inclusivity extends to grassroots engagement through initiatives like the Chula-Saraburi project, which brings together partners like the National University of Singapore and Queensway Secondary School, Singapore. This project exemplifies a "glocal" approach, leveraging international expertise to address specific community needs and strengthen the university's mission of serving society at every level.

In today's digitally driven world, preparing for the future requires robust partnerships with both the public and private sectors. Chulalongkorn is at the forefront of this movement, exemplified by the Al Policy and Skilling Lab Thailand.











This pioneering initiative, a collaboration with Google and the Electronic Transactions Development Agency (ETDA), aims to enhance Al literacy among policymakers and create a strong, ethical Al ecosystem in Thailand. By bringing together government, industry, and academia, the lab is shaping national Al policy and skilling the workforce for the jobs of tomorrow. This is complemented by a strategic Memorandum of Understanding with Huawei, focused on co-developing innovations in 5.5G and cloud technologies while cultivating a new generation of digital talent through the "Ignite Cloud Talent Program."





Furthermore, a unique partnership with the Ministry of Finance has resulted in Thailand's first-ever interdisciplinary Master's program in Tax Management, a direct response to the nation's need for specialized public sector expertise.

Through these diverse and dynamic partnerships, Chulalongkorn University is transcending its role as an educator and researcher to become a central nexus for societal progress. Each collaboration whether a regional policy initiative, a global youth program, or a high-tech industrial alliance is a deliberate step towards cocreating a future that is more equitable, resilient, and sustainable for all. By embracing the power of partnership, Chulalongkorn University is not just navigating the complexities of the 21st century; it is actively shaping a better world through the power of collective innovation and shared purpose.







Chulalongkorn University Sustainability Report 2024-2025

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