

ANNUAL REPORT

25–26

Where Collaboration
Drives Change



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MESSAGE FROM MINISTRY OF EDUCATION OF THAILAND



Dr Suthep Kaengsanthia

Permanent Secretary
Ministry of Education of Thailand

The Ministry of Education of Thailand is pleased to recognise the valuable contributions of the Southeast Asian Ministers of Education Organization Regional Centre for STEM Education (SEAMEO STEM-ED) in advancing STEM education and fostering regional cooperation across Southeast Asia.

In an era of rapid technological change, SEAMEO STEM-ED has served as a vital hub for knowledge exchange, capacity building, and collaboration among Southeast Asian Member Countries. Its programmes have strengthened public agencies through effective interventions and evidence-based studies, ensuring that innovations are embraced by teachers, educators, and education leaders.

The Centre has introduced initiatives to help young people understand algorithms, machine learning, and artificial intelligence, raising awareness of data authenticity and digital risks. It has also launched the Workshop on Educational Planning and Governance in the Intelligence Era to support policymakers in designing AI frameworks for education.

Over the past year, SEAMEO STEM-ED has expanded partnerships with leading institutions, strategically mobilising public and private resources to enhance sustainability. Through policy dialogue, research, and collaboration with ministries, universities, and development partners, it has promoted teacher and leader development, innovation, and future-ready competencies.

The Ministry commends SEAMEO STEM-ED's dedication and leadership, and remains committed to supporting its mission for educational development and regional cooperation.

The Ministry also looks forward to strengthening its collaboration with SEAMEO STEM-ED to advance STEM education in Thailand, foster regional leadership in STEM education, and expand international partnerships for sustainable educational development.

MESSAGE FROM THE CENTRE DIRECTOR



Dr Kessara Amornvuthivorn

Centre Director
SEAMEO STEM-ED

Fiscal Year 2025/2026 stands as a landmark period for SEAMEO STEM-ED, defined by the transformative power of collective action. Our growth is a direct reflection of the steadfast support we have received from our dedicated partners. We extend our deepest gratitude to the Thai Ministry of Education and Chevron for their unwavering commitment and essential funding, which have been instrumental in scaling our regional impact. We are equally honoured by the trust placed in us by our sister SEAMEO Centres, academic partners, and educational leaders who have worked side-by-side with us to navigate the complexities of regional education.

From the regional success of the Southeast Asian Teacher Education Programme (SEA-TEP) to the launch of the STEM Education Leadership for Change (SELC) project, our progress has been defined by collaborative synergy. By structuring our efforts around our four strategic pillars—Instructional Capacity and Educational Leadership, STEM Career Education and Future Skills, STEM Learning and Climate Action, and High-Quality Resources and Publications—we have effectively integrated evidence-based STEM innovation, AI, and Computational Thinking into regional institutional frameworks.

This level of impact is a testament to the diligence and expertise of our staff, whose relentless passion and professionalism elevate everything we do. Our mission remains fuelled by our core values: **Strive for Results**, **Team Synergy**, **Effective Learning Agility**, and **Mastery of Professional Practice**. Through these values, we are building a dynamic ecosystem that connects leaders, practitioners, and researchers. Together, we are committed to preparing young people as resilient global citizens capable of shaping a brighter, sustainable future.

A YEAR OF PARTNERSHIP, PROGRESS, AND IMPACT

The Fiscal Year 2025/2026 marked another significant year of growth, innovation, and regional collaboration for the Southeast Asian Ministers of Education Organization Regional Centre for STEM Education (SEAMEO STEM-ED). Throughout the year, the Centre continued to strengthen its role in advancing STEM education across the region through initiatives that connect expertise, foster innovation, and generate lasting impact across Southeast Asia and beyond.

Central to these achievements has been the Centre's commitment to building and sustaining strategic partnerships across government agencies, educational institutions, international organisations, development partners, industry, and local communities. These partnerships have enabled the exchange of expertise, the co-creation of innovative programmes, and the mobilisation of resources that extend the reach and impact of the Centre's work. By fostering collaboration across sectors and borders, SEAMEO STEM-ED continues to cultivate a dynamic regional ecosystem where shared knowledge, mutual learning, and collective action accelerate progress toward inclusive, resilient, and future-ready STEM education for all.

The achievements presented in this report demonstrate that meaningful educational transformation is built through collective action. By bringing together diverse perspectives, complementary strengths, and a shared commitment, SEAMEO STEM-ED and its partners co-

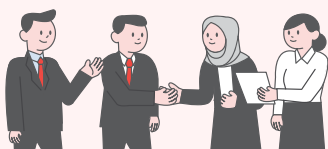
developed collaborative initiatives that respond to the evolving needs of education systems. These initiatives strengthened capacity, informed policy and practice, advanced research and innovation, and expanded opportunities for educators and learners to develop the knowledge, skills, and competencies needed for an increasingly digital, interconnected, and sustainable future.

Reflecting this shared approach, this year's annual report introduces four strategic pillars that organise the Centre's key programmes and initiatives under a coherent framework: (1) Instructional Capacity and Educational Leadership; (2) STEM Career Education and Future Skills; (3) STEM Learning and Climate Action; and (4) High-Quality Resources and Publications. While each pillar highlights a distinct dimension of the Centre's work, together they demonstrate how partnerships, evidence-informed practice, and innovation create meaningful and lasting impact across the region.

As the educational landscape continues to evolve, the Centre remains committed to fostering meaningful partnerships, advancing evidence-informed practice, and supporting Member Countries in strengthening STEM education systems. This report summarises the collective efforts of our partners, stakeholders, and dedicated team, and reaffirms our shared commitment to empowering educators and learners while advancing STEM education across Southeast Asia and beyond.

PROGRAMME IMPACT AND ENGAGEMENT

2025-2026



600 Education Leaders
and Policymakers



69,000

Students
(Indirect Reach)



16,000

Community Members
(Indirect Reach)



3,000 Teachers
and Educators



15+

Publications and Research
Studies Disseminated

2020-2025



9+
Major Programmes
/Initiatives



7,000+
Educators Capacitated



16+
Countries Actively
Engaged



65,000+
Total Beneficiaries
Reached



15+
STEM Learning
Units Developed



135 million+
Media Engagements



45+
Higher Education
Institutions Partnered



10+
Policy Papers and
Research Studies
Disseminated

THE SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION (SEAMEO)

About SEAMEO

Established on 30 November 1965, the Southeast Asian Ministers of Education Organization (SEAMEO) is a chartered regional intergovernmental organisation that promotes cooperation among Southeast Asian countries in education, science, and culture. SEAMEO comprises 11 Member Countries and oversees 26 specialist institutions, including the SEAMEO Secretariat, working together to advance regional development and improve the quality of life across Southeast Asia.

Member Countries

Brunei Darussalam • Cambodia • Indonesia • Lao PDR • Malaysia • Myanmar • Philippines • Singapore • Thailand • Timor-Leste • Vietnam

Official Website

www.seameo.org



THE SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION REGIONAL CENTRE FOR STEM EDUCATION (SEAMEO STEM-ED)

About SEAMEO STEM-ED

Established on 8 May 2019, the Southeast Asian Ministers of Education Organization Regional Centre for STEM Education (SEAMEO STEM-ED) is one of SEAMEO's 26 regional centres of excellence, specialising in STEM education. The Centre advances STEM education across Southeast Asia through research, capacity building, educational resource development, and evidence-based policy advocacy.

Our Vision

A regional research and capacity-building centre of excellence for STEM education that advocates and supports evidence-based policy and practice.



Our Mission



Policy & Advocacy

Advocate evidence-based STEM policies and provide recommendations that support national and regional development.



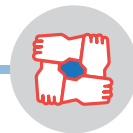
Capacity Building

Strengthen the capacity of educational personnel and policymakers.



Learning Resources

Develop and enrich STEM learning resources that respond to the diverse needs of the region.



Partnerships

Build strong regional networks and cross-sector partnerships to advance STEM education.

MESSAGE FROM THE GOVERNING BOARD CHAIRPERSON



**Mrs Hajah Suriani
binti Haji Noor Hashim**

Governing Board Chairperson

Acting Special Senior
Duties Officer
Department of Schools
Ministry of Education
Brunei Darussalam

It is my great pleasure to commend SEAMEO STEM-ED for another year of remarkable achievements in advancing STEM education and strengthening regional cooperation across Southeast Asia. Through its innovative programmes and strategic partnerships, the Centre continues to empower educators, inspire young learners, and promote excellence in STEM education throughout the region.

As education evolves, it is vital that we embrace innovation while ensuring learning remains inclusive, relevant, and future-oriented. By fostering collaboration among Member Countries, industry partners, and educational institutions, SEAMEO STEM-ED creates opportunities for knowledge sharing and capacity development that benefit the entire region. This past year, the Centre has taken significant strides in embedding artificial intelligence within its programmes, equipping educators with the tools to ignite creativity and foster problem-solving, while keeping learners at the centre.

Equally important, SEAMEO STEM-ED has strengthened the capacity of educational institutes by adopting high-quality learning resources and practices that build students' competencies to use and evaluate data critically. These skills empower learners to take informed action in addressing global challenges such as climate change. Brunei Darussalam's Greening Education Plan reflects this priority, promoting eco-friendly practices, green infrastructure and facilities with renewable energy integration, research and innovation as critical enablers, and curricula that instill sustainability values.

Aligned with Brunei Vision 2035 and National Education System for the 21st Century (SPN21) reforms, we remain committed to producing a generation that excels academically and contributes responsibly to society. United in purpose, I believe SEAMEO STEM-ED will continue to be a beacon of transformative education for Southeast Asia and beyond.

MESSAGE FROM THE GOVERNING BOARD VICE-CHAIRPERSON



Prof Dr Heng Krenge

**Governing Board
Vice-Chairperson**

Deputy Secretary General
General Secretariat
Ministry of Education,
Youth and Sport
Cambodia

It is my pleasure to extend sincere appreciation to SEAMEO STEM-ED for its continued commitment to advancing STEM education and strengthening regional cooperation across Southeast Asia. Through its programmes, partnerships, and capacity-building initiatives, the Centre plays a vital role in supporting educational development and fostering collaboration among Member Countries.

A notable achievement this past year has been the implementation of the Southeast Asian Teacher Education Programme (SEA-TEP). Countries such as Cambodia have actively participated in this important initiative, which builds institutional capacity in both pre-service and in-service programmes. By focusing on disciplinary knowledge and effective pedagogies, SEA-TEP equips teachers with high-quality resources, including simulations and data analytics, to help students think critically and solve complex problems. Exchanges of practices and research further strengthen professional development across the region.

Beyond SEA-TEP, SEAMEO STEM-ED continues to collaborate with Member Countries through webinars, workshops, and conferences. Its leadership in advancing effective interventions—leveraging innovative education technologies, including artificial intelligence, and supported by evidence—provides valuable opportunities for mutual learning, professional growth, and collective progress in STEM education.

As we move forward, I am confident that SEAMEO STEM-ED's strong partnerships will continue to foster collaboration, innovation, and capacity development. I congratulate the Centre on its achievements and wish it continued success.

GOVERNING BOARD MEMBERS



Ms Hajah Suriani binti Haji Noor Hashim
Governing Board Chairperson
 Acting Special Senior Duties Officer
 Department of Schools
 Ministry of Education
 Brunei Darussalam



Prof Dr Heng Kreng
 Deputy Secretary General
 General Secretariat
 Ministry of Education,
 Youth and Sport
 Cambodia



Dr Irsyad Zamjani
 Head of Centre for Education
 Standards and Policy
 Ministry of Primary and Secondary
 Education
 Indonesia



Dr Somsack Inthasone
 Head of Computer Science
 Department
 Faculty of Natural Sciences
 National University of Laos
 Lao PDR



Dr Wan Raisuha binti Wan Ali
 Deputy Director
 Educational Policy Planning and
 Research Division
 Ministry of Education
 Malaysia



Dr Than Zaw Oo
 Director General
 Department of Higher Education
 Ministry of Education
 Myanmar



Mr Janir T Datukan
 Assistant Secretary
 Office of the Assistant Secretary
 for Curriculum and Teaching
 Department of Education
 Philippines



Ms Loh Chuu Yi
 Deputy Principal (Academic)
 Nanyang Polytechnic
 Singapore



Prof Dr Sukit Limpijumngong
 President
 National Science and Technology
 Development Agency
 Thailand



Dr Jacinta de Jesus da Costa Barreto
 Teaching and Learning Advisor
 HANDS Program
 Ministry of Education
 Timor-Leste

Note: Following the completion of the previous member's term the Governing Board representative from Vietnam is awaiting official nomination.

SEAMEO STEM-ED PEOPLE

As SEAMEO STEM-ED enters its seventh year, the Centre remains committed to advancing STEM education through collaboration, partnership, and mobilising resources across Southeast Asia. Guided by our STEM Core Values—Strive for Results, Team Synergy, Effective Learning Agility, and Mastery of Professional Practices—we worked closely with partners while remaining adaptive with a lean team. The dedication and professionalism of our staff have been vital in ensuring smooth operations, strengthening skills through continuous learning, and driving meaningful impact across the region.

Centre Director of SEAMEO STEM-ED

Dr Kessara Amornvuthivorn

Programme and Development

Asst Prof Dr Burin Asavapibhop, Senior Programme Manager
 Asst Prof Dr Nutthathirataa Withitwinyuchon, Partnership & Governance Manager
 Mr Aljhun Datchberll Gile Tapalla, Project Officer
 Mr Cherdchai Sansud, Programme Specialist

Research and Evaluation

Dr Norhaniza binti Abdul Hamid, Research and Evaluation Manager
 Ms Veeraya Chowopass, Research Assistant

Knowledge Management

Dr Orawan Sriboonruang, Programme/Knowledge Management Manager

Communications

Ms Varangkana Ruengvisesh, Communication Officer

Administration

Ms Kansiripak Muangnoycharoen, Administration Manager
 Ms Sumalee Chatchanakrit, Senior Administrative/Programme Assistant
 Ms Orasa Chanadit, Finance and Accounting Officer
 Mr Chollasit Khopueng, Programme/Accounting Assistant
 Mrs Nanta Khiewsumran, Office Helper/Support

SEAMEO STEM-ED FOUR STRATEGIC PILLARS

A group of students in white school uniforms are in a greenhouse. One student is kneeling and writing in a notebook, while others stand around, some holding rolled-up papers. The greenhouse is filled with rows of green leafy plants. The background shows more of the greenhouse structure and some trees outside under a cloudy sky.

SEAMEO STEM-ED advances excellence in STEM education across Southeast Asia through four strategic pillars that guide its programmes, partnerships, research, and capacity-building initiatives. These pillars reflect the Centre's commitment to strengthening education systems, empowering learners with future-ready competencies, promoting sustainability through STEM learning and climate action, and developing high-quality, contextualised learning resources that support evidence-based teaching and informed policymaking.

Through close collaboration with governments, educational institutions, industry partners, and regional and international organisations, STEM-ED designs and implements innovative programmes that address emerging educational priorities and workforce needs. Together, these strategic pillars provide a comprehensive framework for building resilient education systems and preparing learners and educators to thrive in an increasingly interconnected, technology-driven, and sustainable future.

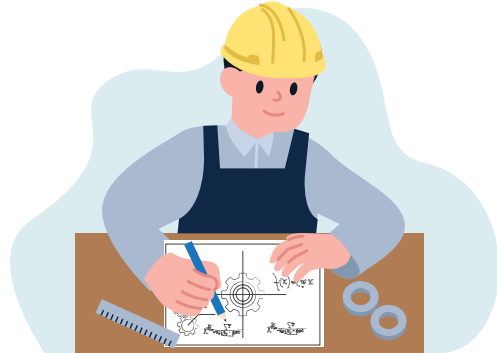
01



INSTRUCTIONAL CAPACITY AND EDUCATIONAL LEADERSHIP

Strengthening the capacity of education systems by empowering educators, teacher education institutions, school leaders, and policymakers to lead and sustain high-quality STEM education through professional development and regional collaboration.

02



STEM CAREER EDUCATION AND FUTURE SKILLS

Preparing learners for future STEM careers by aligning education with emerging workforce needs and equipping them with future-ready competencies, including AI literacy, numeracy, digital skills, computational thinking, and problem-solving.

03



STEM LEARNING AND CLIMATE ACTION

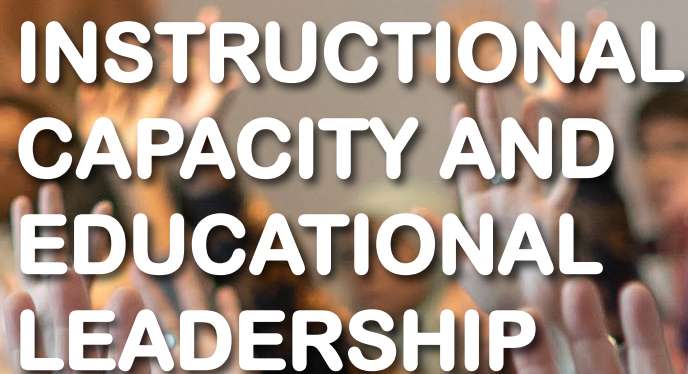
Advancing STEM learning that equips learners to understand sustainability challenges, build climate literacy, and take meaningful action toward resilient and sustainable communities through inquiry, innovation, and problem-solving.

04



HIGH-QUALITY LEARNING RESOURCES AND PUBLICATIONS

Generating and sharing knowledge through evidence-based research, contextualised STEM learning resources, and high-quality publications that support effective teaching, inform policy and practice, and strengthen STEM education across Southeast Asia.



INSTRUCTIONAL CAPACITY AND EDUCATIONAL LEADERSHIP

2026

Chevron

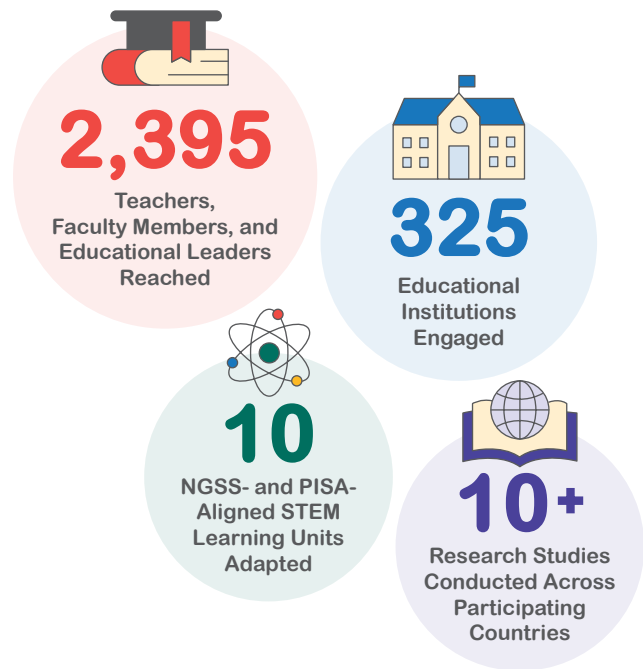
SOUTHEAST ASIAN TEACHER EDUCATION PROGRAMME (SEA-TEP)

As SEA-TEP reached the final stage of implementation, participating countries convened for the SEA-TEP Final Sharing Programme, held alongside the Thailand International Conference on Education Research (ThaiCER) 2025, to reflect on lessons learned, share promising practices, and celebrate achievements from their national and regional activities. The event highlighted how educators, researchers, and institutions across Cambodia, Indonesia, Kazakhstan, Malaysia, and Thailand adapted STEM learning resources to local contexts while advancing the use of Claim-Evidence-Reasoning (CER) and scientific modelling in classrooms.

Research findings demonstrated that the initiative contributed to significant improvements in teachers' understanding and application of CER and modelling frameworks across participating countries. Professional development activities strengthened teachers' capacity and confidence to facilitate STEM learning and guide students in scientific reasoning, argumentation, problem-solving, and the integration of real-world contexts.

Cross-country collaboration facilitated the sharing of best practices, expertise, and innovative approaches among participating educators, researchers, and educational institutions. Successful SEA-TEP highlighted strong multi-stakeholder partnerships, contextual adaptation of resources and practices, and the use of evidence-based monitoring and evaluation to inform continuous improvement and policy development across diverse educational contexts.

SEA-TEP's legacy lives on through stronger educators, richer learning experiences, and a growing regional commitment to evidence-informed STEM education. The programme has also established a foundation for the next phase of regional collaboration, extending its impact from teaching practice toward broader school and system improvement.



Read More:

Policy Brief



Programme Report



Research Report



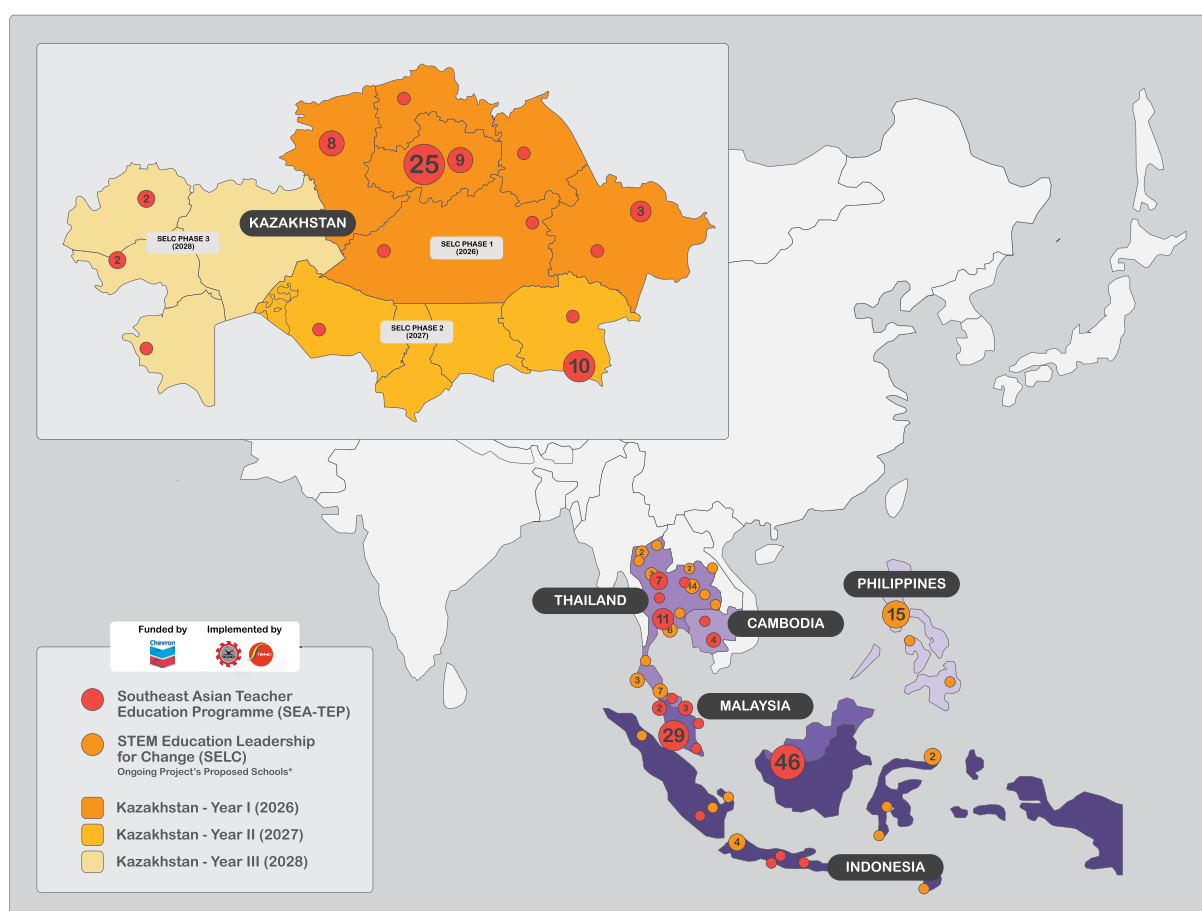
STEM EDUCATION LEADERSHIP FOR CHANGE (SELÇ)

Lasting STEM educational transformation requires more than strong classroom practices—it depends on effective leadership, institutional support, and strategic partnerships. Building on the lessons and insights from the SEA-TEP project, SEAMEO STEM-ED launched the Chevron-supported STEM Education Leadership for Change Programme (SELÇ) in November 2025.

The initiative brings together a regional network of STEM education leaders from SEAMEO STEM-ED (Thailand), SEAMEO SEAMOLEC (Indonesia), SEAMEO RECSAM (Malaysia), SEAMEO INNOTECH (Philippines), and Caravan of Knowledge (Kazakhstan), working alongside Michigan State University, national agencies, universities, and private-sector partners to strengthen the capacity of policymakers, education leaders, and school administrators to drive STEM-focused school improvement.



STEM Education Leadership for Change Programme Kick-off on 27 April 2026 with key partners from Government, Industry, Educational Institutions, and Civil Society Organisations (CSOs)



By aligning teacher professional development with PISA, NGSS-aligned Claim-Evidence-Reasoning (CER) and modelling approaches, and leadership development with quality assurance, the programme seeks to create enabling environments where teachers are empowered, innovation is sustained, and students develop the critical thinking, problem-solving, and reasoning skills needed to thrive as responsible global citizens.

Since its launch, the programme has achieved several key milestones, including engaging educational stakeholders, providing sub-grants to national partners, and signing Memoranda of Agreement (MOAs) with Junior Achievement Asia Pacific, the Asian Institute of Technology (AIT), and the National Institute of Development Administration (NIDA) Thailand. These partnerships ensure impact and sustainability of the programme, enrich STEM education interventions with real-world industry and business applications through mobilising expertise and resources across multiple sectors in the region.



CARAVAN OF
KNOWLEDGE



STEM Education Leadership for Change Programme Training of Trainers (ToT) Workshop on 27–30 April 2026 with education leaders and key partners from SEAMEO Regional Centres, government agencies, universities, and schools.

In April 2026, trainers, researchers, and education experts from participating countries convened for a regional Training-of-Trainers (ToT) workshop, followed by a series of collaborative online engagements supported by international resource experts. These exchanges provided opportunities for each country to share experiences, strengthen regional partnerships, and co-develop climate-focused STEM learning units, a set of STEM education leadership modules, and a shared research and evaluation framework.

Key Drivers for Transformative STEM Education Leadership

SELC's core focus areas for strengthening STEM education systems.



SELC's research component will facilitate collaborative development of research frameworks, implementation plans, and standardised instruments tailored to the context of the countries and examine how instructional leadership and support, teacher collaboration, and professional learning communities (PLCs) contribute to improved STEM teaching and learning across the region. The study will assess leaders' instructional leadership capacity, teachers' confidence and collective efficacy, implementation of climate-focused transdisciplinary STEM learning units, and students' competencies relevant to real-world skills. The findings will provide valuable insights into effective strategies for sustaining, scaling, and transforming high-quality STEM education across diverse educational contexts.

As countries roll out national-level implementation, the programme is translating regional collaboration into tangible action at the school and system levels. Ultimately, SELC seeks to establish a scalable model of STEM education leadership development that empowers educators, strengthens schools, and equips learners with the competencies needed to address real-world and sustainability challenges across the region.

02

STEM CAREER EDUCATION AND FUTURE SKILLS

2020

Chevron Enjoy Science Phase 2

Public-private partnership to strengthen STEM Education
Chevron

STEM Career Academies

- **Software Development and Coding Certification Programme**
WisdomWide
- **New Gen New Game (Python-based coding)**
NSTDA
- **Intensive Drone Pilot Training**
OVEC, Mitr Phol Group, Varuna
- **High School Advanced Agriculture Program**
Varuna

2022

Introduce **Interactive Robotics and Computational Learning Module** to Primary Schools

2023

Initiated **SEAMEO STEM-ED Career Academies in Central Vietnam**

Chevron, Danang University of Technology (DUT)

2024

Career Academies Best Practice Workshops and Regional Sharing

Sessions for Educators
National Career Academy Coalition (NCAC)

2025

Deployed **digital simulation tools (SageModeler), 3D learning frameworks, and AI-driven platforms**

TCT, Concord Consortium

2024

Launched **Guidebook for Unplugged Computational Thinking Initiative**

SEAMEO QITEP in Mathematics, RECSAM, SEAMOLEC, University of Tsukuba, University of Chile, IRDTP for ASEAN Khon Kaen University

2024

Deloitte Work Readiness Workshops

Deloitte Thailand

2025

Function Art Competition

Johannes Kepler University Linz, University of Jyväskylä

2025

Workshop on Educational Planning and Governance in the Intelligent Era

Beijing Normal University, UNESCO Bangkok

2026

FOCAL Initiative (Future-Oriented Classrooms for AI Literacy)

Mahidol University, Chiang Mai University, King Mongkut's Institute of Technology Ladkrabang, Naresuan University, Thailand's PISA Centre (OBEC), Micro:bit Educational Foundation

2026

CHINA-ASEAN STEM Innovation and Practice Student Video Competition

UNESCO INRULED, Chongqing Bashu Primary School Education Group, NSTDA

2026

INSPIRE Initiative (Integrated STEM Skills and Pathways to Innovation towards Readiness for Emerging Industries in Southeast Asia)

SkillUp

UNPLUGGED COMPUTATIONAL THINKING

Regional Empowerment through Unplugged Computational Thinking: A Multi-Centre Initiative for Scaling Southeast Asia's Digital Readiness

SEAMEO STEM-ED led a regional initiative to strengthen computational thinking (CT), mathematics thinking, STEM thinking and AI readiness among primary educators through an innovative unplugged approach. Implemented in collaboration with SEAMEO RECSAM, SEAMEO SEAMOLEC, and SEAMEO QITEP in Mathematics, and supported by experts from the University of Tsukuba, the University of Chile, and the Institute for Research and Development in Teaching Profession for ASEAN, the initiative utilised *the Guidebook for Unplugged Computational Thinking* to help educators develop foundational computational thinking, mathematics thinking, STEM thinking and problem-solving skills through hands-on learning activities. The Guidebook was approved and launched at the 17th APEC-Tsukuba Conference in April 2024, with review and approval from APEC Member Countries and Committee representatives in attendance.

Building on earlier development activities since 2023, including pilot studies in Thailand, Malaysia, and Indonesia, curriculum-mapping workshops in the Philippines and Lao PDR, and classroom observations and reflections in Japan, Thailand, and Indonesia, the initiative explores how computational thinking, mathematics thinking, STEM thinking can be developed through hands-on, unplugged learning and integrated into primary school curricula.

The pilot implementation in Lao PDR took place in November 2025, with the support of MOES and SEAMEO CED, more than **50 educators, policymakers, curriculum specialists, and teacher supervisors** participating in a curriculum-mapping workshop to align unplugged computational thinking activities with the national curriculum. Building on the pilot's success, the initiative will expand across **Brunei Darussalam, Indonesia, Lao PDR, Malaysia, and Thailand** through national implementation teams, supported by localised lesson plans, regional knowledge sharing, and open educational resources to strengthen long-term digital readiness across Southeast Asia.



Guidebook for Unplugged Computational Thinking



Project Overview Video



Online Course University of Tsukuba



Articles/Papers are available at



WORKSHOP ON EDUCATIONAL PLANNING AND GOVERNANCE IN THE INTELLIGENT ERA: A SOUTHEAST ASIAN PERSPECTIVE

SEAMEO STEM-ED, in partnership with Beijing Normal University and with technical support from the UNESCO Regional Office in Bangkok, organised the Workshop on Educational Planning and Governance in the Intelligent Era: A Southeast Asian Perspective from 8–12 September 2025 in Bangkok, Thailand. The workshop brought together education leaders, policymakers, planners, researchers, and AI experts from 11 countries to explore how artificial intelligence can support educational planning, governance, and system transformation across Southeast Asia.

Through keynote presentations, expert dialogue, and collaborative group work, participants examined policy approaches, research, and practical applications of AI in education from international organisations, academia, and industry. The workshop concluded with participants co-developing AI-informed educational planning proposals, reinforcing the importance of cross-sector collaboration to ensure AI contributes to inclusive and ethical education transformation in Southeast Asia.

Workshop at a Glance



11 SEAMEO Countries Represented



Multi-Sector Collaboration



International, Regional, Academic, and Industry Partners



Policy Dialogue on AI in Education

Key Contributors

SEAMEO	UNESCO/EMBASSY	Academic and Research Institutions	Industry
Secretariat	UNESCO Regional Office in Bangkok	Beijing Normal University	iFLYTEK
STEM-ED	IIEP	Hanoi National University of Education	Code.org
INNOTECH	ICHEI	Smart Learning Institute	TeachAI
RECSAM	INRULED	Institute for the Promotion of Teaching Science and Technology	The S Curve Company Limited
SEN	UNESCO Regional Office in Hanoi	National Science Museum	SkillUp Global
RIHED	UNESCO Regional Office in Phnom Penh	National Electronics and Computer Technology Center	
VOCTECH	Australian Embassy in Bangkok Embassy of Spain in Bangkok		

Key Outcomes



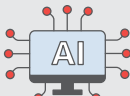
AI-Informed Educational Planning Proposals



Cross-Sector Policy Dialogue



Regional Knowledge Exchange



Strengthened Collaboration for Inclusive and Ethical AI in Education



MATHEMATICAL THINKING INITIATIVES

Launched in September 2025, the Mathematical Thinking Initiative brings together regional and international partners to strengthen mathematical thinking by connecting young learners through collaborative activities that inspire creativity, problem-solving, and meaningful applications of mathematics in STEM education.

Function Art Competition: Inspiring Mathematical Creativity Across Asia

SEAMEO STEM-ED successfully organised the inaugural Function Art Competition in collaboration with Johannes Kepler University Linz (Austria) and the University of Jyväskylä (Finland) together with SkillUp Global. Following a GeoGebra orientation for participating students and teachers, 98 teams of youth aged 12–18 from formal education, non-formal education, and home-schooling settings from Southeast Asia, China, Japan, the Republic of Korea, and Taiwan transformed mathematical functions into creative digital artworks that demonstrated mathematical reasoning, artistic expression, and technical proficiency.

The competition highlighted innovative approaches to mathematics education while fostering regional collaboration and student engagement. Outstanding entries were recognised through First, Second, Third, and Special Prize awards, celebrating excellence in mathematical creativity and digital design.

Function Art Competition Highlights



98
teams



Participants
from Southeast
Asia, China,
Japan, the
Republic of
Korea, and
Taiwan



GeoGebra
orientation for
K-12 students
and teachers



Mathematical
functions
transformed
into creative
digital
artworks



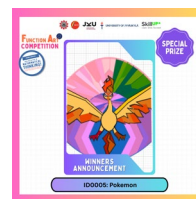
First Prize
Kaleidoscope Hamlet



Second Prize
*Feathered Jewel
of Pavo*



Third Prize
*The Eye That
Witnessed*



Special Prizes
Pokemon



Zenitsu Function Art

CHINA-ASEAN STEM Innovation and Practice Student Video Competition

In 2026, SEAMEO STEM-ED partnered with NSTDA Thailand, UNESCO INRULED, and Chongqing Bashu Primary School Education Group to launch the CHINA-ASEAN STEM Innovation and Practice Student Video Competition. The initiative invited primary and junior secondary students across Southeast Asia and China to apply disciplinary competency through creative STEM projects, showcasing their ideas with engaging, students-led digital storytelling.

With participation from more than 100 student teams, the initiative strengthened STEM literacy, creativity, and problem-solving skills while fostering cross-cultural collaboration and providing young learners with an international platform to showcase their STEM innovations.

Competition Highlights



100+
student
teams



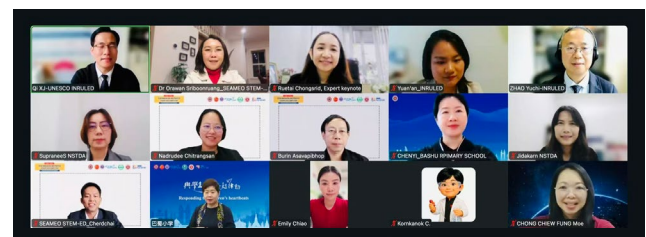
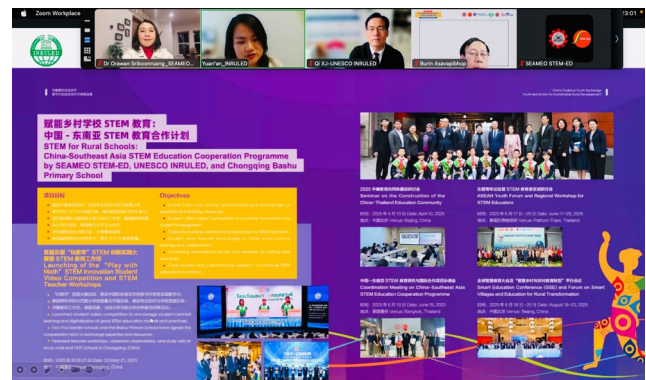
Creative
STEM
projects and
digital
storytelling



Participants
from
Southeast Asia
and China



Promoting
STEM literacy,
creativity and
problem-solving

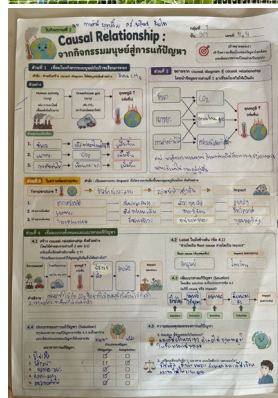
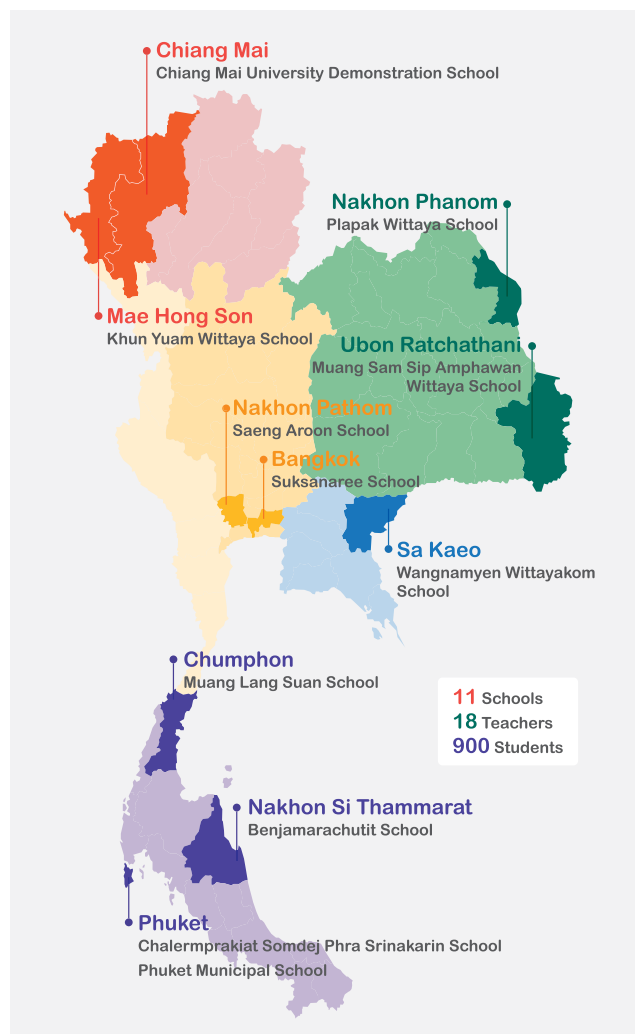


FOCAL INITIATIVE: FUTURE-ORIENTED CLASSROOMS FOR AI LITERACY

The FOCAL Initiative is advancing AI literacy in Thai schools through Floaino, an AI-powered learning platform that enables students to engage with authentic challenges through project-based STEM learning. Led by SEAMEO STEM-ED in partnership with Mahidol University and key national stakeholders, the initiative supports 11 pilot schools across Thailand in integrating AI literacy into STEM education through AI-enabled, locally contextualised curricula.

As of June 2026, the curriculum development and teacher capacity-building components have been completed, and participating schools are now implementing AI learning experiences in classrooms. Unlike stand-alone AI courses, FOCAL embeds AI within project-based STEM learning and into core subjects, enabling students to apply AI concepts to real community challenges. The initiative will culminate in a project showcase featuring innovative, locally relevant solutions developed through the Floaino platform. This demonstrates how AI-enabled learning can strengthen future-ready competencies while generating scalable models for wider adoption across schools and education systems.

Focal Pilot Schools



Grade 9 students collect real-world data through project-based learning and contextualise their findings through classroom worksheets.
Photo Credit: Muang Lang Suan School, Chumphon Province

Students exploring the Floaino platform in the computer lab.
Photo Credit: Saeng Aroon School, Nakhon Pathom Province



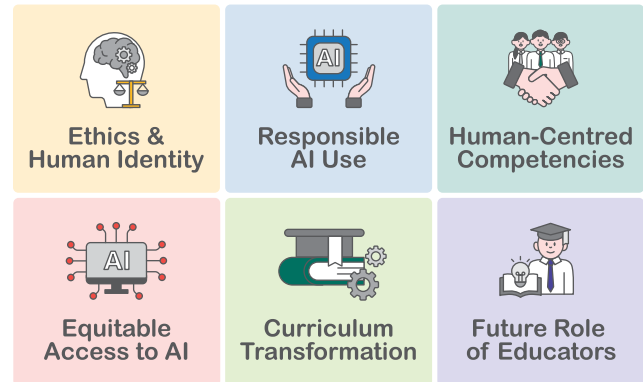
HUMAN-CENTRED AI FOR EDUCATION: ETHICAL AI LITERACY AND THE FUTURE OF LEARNING IN SOUTHEAST ASIA

The Human-Centred AI for Education Webinar Series, launched through a collaboration between SEAMEO STEM-ED and the MIT Media Lab, marked the beginning of a new regional initiative to advance ethical and responsible AI literacy in education. The inaugural webinar on 19 June 2026 attracted 1,067 participants from 47 countries across six continents, demonstrating strong international interest and highlighting Southeast Asia as a key focus of the initiative. The initiative was initiated by SEAMEO STEM-ED Centre personnel through participation in the Fulbright US-ASEAN Visiting Scholar (USAS) Program, with support from Fulbright Thailand and the USAS Program, and continues to develop through further activities and collaboration.

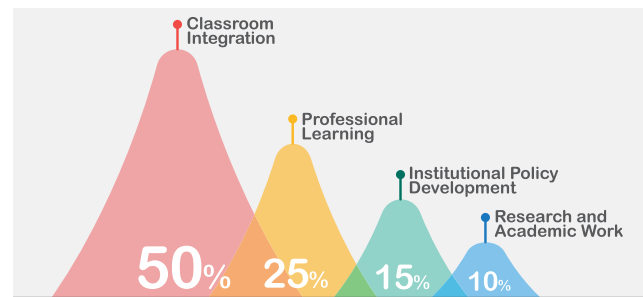
The keynote address by Asst Prof Dr Pat Pataranutaporn of the MIT Media Lab introduced the concepts of *Cyborg Psychology and Advancing Humans with AI (AHA)*, encouraging participants to view AI not as a replacement for human intelligence but as a partner in achieving Augmented Mastery. By asking participants to reflect on what should never be delegated to AI in education, the session sparked meaningful discussions on ethics, human identity, responsible AI use, equitable access, curriculum transformation, and the evolving role of educators.

Participant feedback reflected a strong commitment to translating these ideas into practice through classroom implementation, professional learning, institutional development, and research. The webinar reinforced SEAMEO STEM-ED's commitment to advancing AI literacy, STEM education, and future-ready learning systems in Southeast Asia. It also strengthened collaboration between SEAMEO STEM-ED and the MIT Media Lab in promoting responsible, inclusive, and human-centred approaches to AI in education, laying a strong foundation for future webinars under this initiative.

Top Discussion Themes



Participants' Planned Actions



From Knowledge Sharing to Collaboration

KNOWLEDGE SHARING

Webinar Part 1:

AI, Human Identity, and the Future of Learning

19 June 2026

Asst Prof Dr Pat Pataranutaporn

Webinar Part 2:

Ethical AI Literacy and Responsible AI Education

24 July 2026

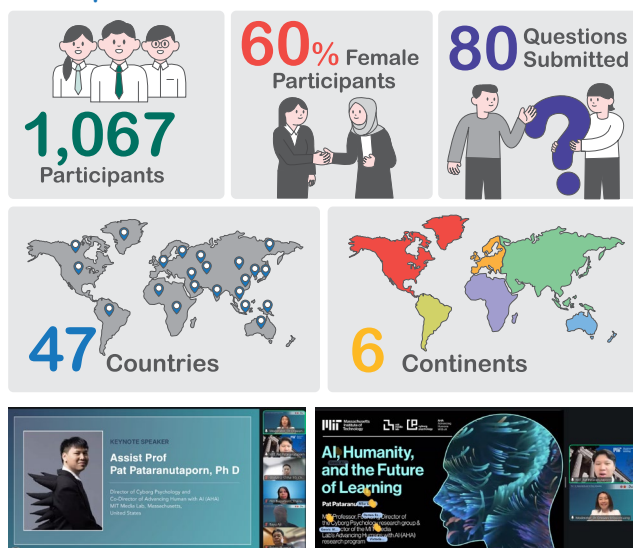
Prof Dr Cynthia Breazeal

UPCOMING COLLABORATION & DEVELOPMENT

SEAMEO STEM-ED × MIT

Exploring strategic collaboration and joint proposals development for regional initiatives, including the Southeast Asia Climate Education and Resilience Initiative (SEA-CERI) and Southeast Asia AI-Human Flourishing Initiative (SEA-AHFI): Human-Centred AI and STEM Education for Future Skills, Innovation and Inclusive Development

Participant Overview



For webinar information, concept note, and event photos.



To rewatch the webinar recording on YouTube.



03

STEM LEARNING AND CLIMATE ACTION



2023

Changemaker in Sustainable Food

Deloitte Thailand

2025

Deloitte Green Gen Initiative

- Professional Development Workshops
- Regional Green Education Sharing Sessions
- Localised Green Learning Units

Deloitte Thailand

2026

ASEAN Youth Camp 2025 (AYC2025): AI Hackathon for Green Sustainability

Thai MOE, ASEAN Secretariat

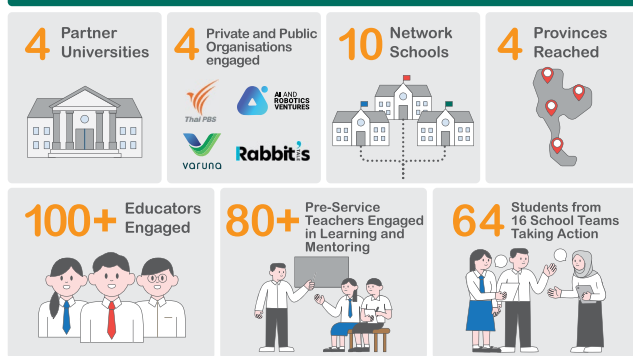
DELOITTE GREEN GEN INITIATIVE 2025 CRAFTING TOMORROW WITH ECO SKILLS

Empowering young people to transform local environmental challenges into evidence-based STEM solutions.

The Deloitte Green Gen Initiative 2025, a partnership between Deloitte Thailand and SEAMEO STEM-ED, strengthened Green STEM education by empowering students and educators to address environmental challenges rooted in their local communities. Implemented through four university hubs, the programme equipped teachers with innovative pedagogical approaches,

including Three-Dimensional Learning, Claim–Evidence–Reasoning (CER), modelling, and project-based learning, enabling them to deliver authentic, locally relevant STEM learning experiences. University faculty members and teachers mentored school teams as they investigated real-world issues such as waste management, wildfire risks, air pollution, clean energy, and flooding. The initiative culminated in student-led environmental campaigns and Green STEM innovations that transformed scientific understanding into practical solutions, effective community engagement, and strengthened environmental stewardship.

Green Gen at a Glance



Four Local Challenges. Four Green STEM Pathways to Sustainable Solutions.



From Local Environmental Challenge to Community Action



**STEM Investigation
and Data Collection**



**CER and Digital
Modelling**



**Student-Led
Campaigns and
Green Innovations**

Green Gen demonstrated that sustainability learning becomes more meaningful when students investigate environmental challenges within their own communities and use evidence to drive Green STEM learning. The university–school mentoring model strengthened teachers' confidence in facilitating digital Green STEM learning while fostering students' collaboration, critical thinking, and agency. Moving forward, the four localised learning units and the emerging university network provide a strong foundation for practical teaching resources and user-friendly digital tools, enabling the refinement and expansion of Green STEM learning opportunities across school and regional education systems.

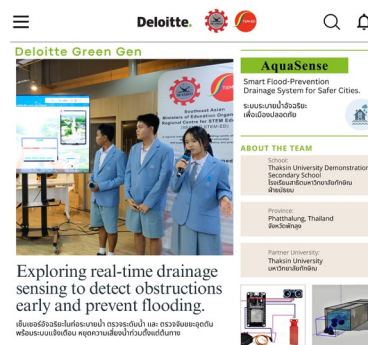


University faculty, teachers, and pre-service teachers supported school teams in transforming local challenges into meaningful Green STEM learning experiences.

**Deloitte Green Gen
Research Findings
Overview**



**Student Showcase
Deloitte Green Gen
Student Campaign
Presentation**



Students showcased evidence-based Green STEM innovations and social campaigns at the Deloitte Green Gen Student Showcase.

04

HIGH-QUALITY LEARNING RESOURCES AND PUBLICATIONS



2020

**Southeast Asian Journal
of STEM Education (SAJSE)**
Established

2021

**Contextualised Environmental
Science Modules**
Chevron Thailand

2022

3 Core Policy Advocacy Papers

2025

**Teachers' Council of Thailand
self-paced 3D Learning and CER
Online Course**

2024

**Guidebook for Unplugged
Computational Thinking**

**The Southeast Asia STEM
Education Landscape study**

2023

Research Sub-Grants to Vietnam,
Malaysia, and Cambodia Partners on
STEM Career Academies and Teacher
Education

2026

Published the

- **SEA-TEP Final Programme Report**
- **Deloitte Green Gen Research
Project Findings Report**

- **7 SEA-TEP Research Papers**
- **Preparing Teachers for the
Future Policy Brief**

SOUTHEAST ASIAN JOURNAL OF STEM EDUCATION (SAJSE)

From July 2025 to June 2026, the Southeast Asian Journal of STEM Education (SAJSE) continued to strengthen its role as a regional platform for advancing STEM education through research, innovation, and knowledge exchange. The journal attracted strong engagement from educators, researchers, policymakers, and students, with published works representing diverse perspectives from Southeast Asia and beyond.

During the reporting period, SAJSE published two issues. The regular issue introduced a strengthened three-section structure—Policy, Teachers, and Students—to better connect research, policy, and classroom practice. It featured studies on emerging priorities including artificial intelligence in education, computational thinking, teacher professional development, TVET, inquiry-based learning, and student-led STEM innovation.

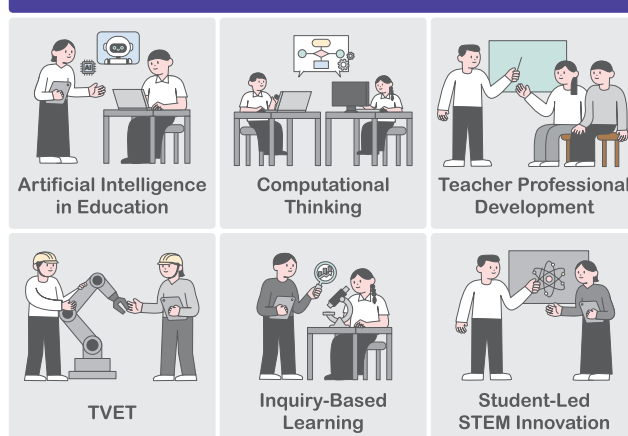
A major milestone was the publication of the inaugural SEA-TEP Special Issue, featuring eleven studies that demonstrate how regional collaboration has strengthened STEM teacher education through effective instructional approaches such as Claim–Evidence–Reasoning (CER), modelling, and project-based learning.

Overall, the period from July 2025 to June 2026 marked a year of growth, collaboration, and consolidation for SAJSE. The journal continues to serve as a vital bridge between research, policy, and classroom practice, amplifying diverse voices and advancing inclusive, innovative, and evidence-based STEM education across Southeast Asia and beyond.

SAJSE at a Glance (July 2025 – June 2026)



Featured Research Themes



Scan to explore the Southeast Asian Journal of STEM Education (SAJSE)



Explore More Publications and Research

SEAMEO STEM-ED develops a wide range of publications and research to support evidence-informed STEM education across Southeast Asia. Explore our publications for annual reports, policy briefs, guidebooks, summary reports, and other knowledge resources, or visit our Research and Evaluation page to discover research projects, evaluation studies, and evidence that inform policy, practice, and innovation in STEM education.



SEAMEO STEM-ED Publications

Annual reports, policy briefs, guidebooks, summary reports, and other knowledge resources.



SEAMEO STEM-ED Research and Evaluation

Research projects, evaluation studies, and evidence-informed publications supporting policy, practice, and innovation in STEM education.

CONNECTING OUR COMMUNITY

Communication plays a vital role in strengthening partnerships, sharing knowledge, and expanding opportunities for collaboration. Through our digital platforms, SEAMEO STEM-ED connects with audiences across Southeast Asia and beyond, while cross-platform communication helps audiences access related content through their preferred channels. Together, these efforts extend the reach of our programmes, strengthen partnerships, and foster a growing community committed to advancing STEM education.

Our Digital Community



Facebook

13,103

Followers



LinkedIn

670

Followers



YouTube

1,753

Subscribers



Email Newsletter

6,354

Subscribers



Instagram

Official account
re-established in
preparation for
future outreach

Platform Highlights (July 2025 - June 2026)



1,135,932
Organic Views



10,330
Content Interactions



+3,182
New Followers



84
Posts Published



28,570
Impressions



853
Reactions



24
Comments



28
Reposts



+279
Subscribers



5,778
Views



536
Watch Hours



16
Newsletters Distributed

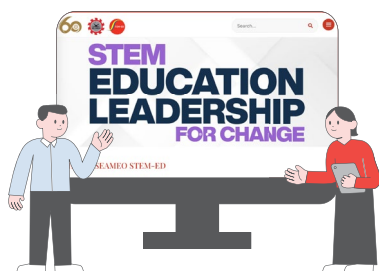


49,247
Emails Delivered



No paid promotion. All reach and engagement were generated organically through our digital community.

Website Revamp 2026



A Renewed Digital Gateway

In 2026, SEAMEO STEM-ED revamped its official website to align with the Centre's strategic direction, improve the user experience, and strengthen communication with stakeholders and the wider STEM education community.

Key improvements

- Aligned website structure and content with SEAMEO STEM-ED's strategic direction
- Enhanced navigation and user experience
- Improved access to programmes, research, publications, partnerships, and resources
- Strengthened digital presence and stakeholder engagement

Website at a Glance



Following the integration of Google Analytics in April 2026, the renewed website reached audiences across 102 countries worldwide.

Website Highlights

1 April - 30 June 2026



4.7K users



Visitors from **102 countries**



Top visitor countries:

Singapore, Philippines, Thailand, United States, Indonesia, Malaysia, China, Vietnam, India, and Chile

HUMAN RESOURCE DEVELOPMENT: ORGANISATIONAL STRENGTHENING

During the reporting period, SEAMEO STEM-ED continued to strengthen human resource development and organisational capacity through professional learning, leadership development, and collaborative initiatives. These efforts enhanced staff competencies, improved operational effectiveness, and supported the Centre's long-term strategic direction by fostering a culture of continuous learning, teamwork, and professional growth.



Strategy Meeting and Team-Building Workshop, Nakhon Pathom Province, 28–29 November 2025.

A key initiative was the **Strategy Meeting and Team Bonding Workshop**, held from 28–29 November 2025 in Nakhon Pathom Province. The workshop strengthened staff understanding of the Centre's vision, mission, strategic directions, and organisational values while promoting teamwork, communication, and engagement through interactive activities facilitated by a human resource development expert. It also encouraged stronger collaboration and a shared commitment to achieving organisational goals.

To align with evolving priorities, the Centre reviewed and updated staff Job Descriptions (JDs) to clarify roles and responsibilities, encourage greater ownership, and support professional growth. The delegation of authority was also reviewed and implemented, enabling managers to exercise greater autonomy in approvals, streamlining decision-making processes, and improving operational efficiency across the organisation.

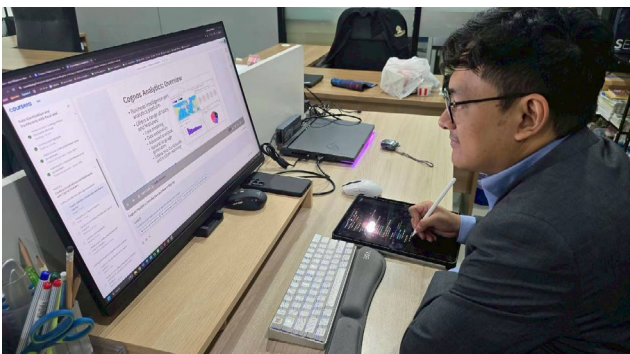
The Centre further invested in leadership and communication through Coaching for Conversation and Coaching for Performance workshops. These sessions strengthened coaching, active listening, communication, and problem-solving skills, fostering a more supportive and collaborative

workplace. In addition, goal-setting and performance review processes were introduced to encourage regular dialogue between supervisors and staff, align individual development with organisational objectives, reinforce accountability, and promote continuous performance improvement.

To support lifelong learning, the Centre allocated budget for staff development programmes and encouraged participation in **online courses and professional training**, including Coursera, Human Resources Development, and Gender, Diversity and Inclusion (GDI) programmes. Staff also strengthened practical workplace skills through internal **knowledge-sharing sessions on English communication**, Microsoft Excel, Canva, online collaboration tools, presentation preparation, and workplace communication. These initiatives enhanced technical competency, confidence, and cross-functional collaboration.



Staff participation during an English class.



Staff attending online professional development courses through digital learning platforms.

Capacity development opportunities were also extended to office assistants through training in basic computer skills, online work support, office administration, vendor coordination, and document management, improving digital literacy, workplace communication, and participation in daily operations.

The Centre also strengthened administrative processes by revising accounting codes and consolidating accounting systems into a unified platform to improve compliance with project reporting requirements. These improvements reduced duplication, enhanced data accuracy, strengthened financial reporting, and contributed to more efficient organisational operations.

SEAMEO STEM-ED ACHIEVEMENTS AND ACTIVITIES

July
2025



From 1-3 July 2025, SEAMEO-STEM-ED's 2nd Five-Year Development Plan was presented and approved at the 53rd SEAMEO Council Conference in Brunei Darussalam. The session sought endorsement for the organisation's strategic direction, emphasising regional capacity-building, collaboration, and the advancement of STEM education policies across Southeast Asia.

Photo Credit: SEAMEO Secretariat



The 8th SEAMEO Centres Policy Research Network (CPRN) Summit 2025 followed from 3–4 July 2025 in Brunei Darussalam, focusing on strengthening research collaboration and knowledge exchange among Southeast Asian countries to support evidence-based policy development in education. SEAMEO STEM-ED contributed two research papers: *Policy Pathways to Overcome Misconceptions and Shape the Future of Learning and Fostering STEM Integration in TVET Across Southeast Asia: Insights and Policy Recommendations*.



SEAMEO STEM-ED participated in the 2025 SEAMEO Centre Directors Meeting (CDM) on 23–24 July 2025 at Amari Pattaya Hotel. The Centre contributed as a speaker in sessions on the **Southeast Asia School Leadership Hub** and **Gender Mainstreaming at SEAMEO**, and presented working papers on **Educational Planning and Governance in the Intelligent Era** and **Global Citizenship through STEM Education**.

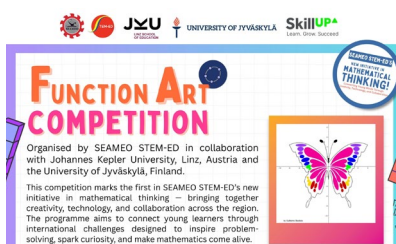
August
2025



Held alongside the ThaiCER 2025 Conference in Bangkok, Thailand (7–9 August 2025), the **SEA-TEP Final Sharing Session** showcased the initiative's key achievements and lessons learned. Highlights included the launch of a policy brief on preparing teachers for the future, presentations of seven selected research papers based on SEA-TEP implementation in five participating countries (Cambodia, Indonesia, Kazakhstan, Malaysia, and Thailand).



On 8 August 2025, during ThaiCER, a **Dialogue Session on Regional Collaboration in Action: Insights from the SEA-TEP Research Initiative** highlighted the research component of SEA-TEP, a multi-country study involving five nations. The session shared preliminary findings on programme effectiveness, challenges, and opportunities for regional cooperation, offering diverse national perspectives, strategies, and common challenges in STEM education.



On 21 August 2025, SEAMEO STEM-ED, in collaboration with Johannes Kepler University Linz and the University of Jyväskylä, launched the inaugural **Function Art Competition** through the **SkillUp Global Platform** to promote mathematical creativity. **Ninety-eight teams of youth aged 12–18**, from formal, non-formal, and home-schooling settings across Southeast Asia, China, Japan, Korea, and Taiwan participated. Using GeoGebra, participants transformed mathematical functions into digital artworks, demonstrating mathematical reasoning, digital skills, creativity, and interdisciplinary STEM learning.





Held on **28 August 2025**, the **Deloitte Green Gen: Green Education for a Sustainable World** webinar convened 127 educators, experts, and stakeholders. The session became a vibrant forum for exchanging perspectives and practical strategies on embedding sustainability into classrooms. Participants explored how green education can empower learners to take an active role in shaping a more sustainable future, reinforcing the idea that education is central to global transformation.

September 2025



SEAMEO STEM-ED, in partnership with Beijing Normal University and with technical support from The UNESCO Regional Office in Bangkok, organised the **Workshop on Educational Planning and Governance in the Intelligence Era: A Southeast Asian Perspective** from **8–12 September 2025**. Hosted in Bangkok, the event brought together 75 participants—60 onsite and 15 online—representing SEAMEO Centres, universities, and partners such as iFLYTEK and Code.org. Guided by UNESCO and institutional experts, participants engaged in hands-on collaboration. Over the course of the workshop, they co-developed AI-based planning proposals, exploring how artificial intelligence can reshape educational systems and policies to meet the needs of the future.



On **24–25 September 2025**, the **8th SEAMEO STEM-ED Governing Board Meeting** convened in Bali, Indonesia, providing a vital platform for board members and regional stakeholders to review and endorse strategic policies, approve annual budgets, and align the Centre's operational direction for the year ahead. The meeting reaffirmed SEAMEO STEM-ED's commitment to advancing STEM education across Southeast Asia through strong governance and a shared vision.



On **25 September 2025**, SEAMEO STEM-ED partnered with RECSAM and SEAMOLEC to co-host the **Cross-Centre Collaborative Forum on STEM Education in Southeast Asia**. The forum spotlighted modern and inclusive approaches to STEM education, equipping educators with skills to integrate artificial intelligence into teaching and learning. A key highlight was the launch of the **Southeast Asia Day of AI**, a regional initiative designed to inspire innovation, collaboration, and future-ready education across the region.

October 2025



On **25 October 2025**, SEAMEO STEM-ED co-facilitated a workshop at the **Teacher's Day Conference in Brunei Darussalam**, in partnership with VEX Robotics. The session focused on integrating **AI literacy into STEM education for all ages**, equipping 35 educators with practical skills and fostering collaboration to expand the use of innovative tools in Brunei's classrooms. The workshop strengthened future-ready learning approaches and underscored the importance of preparing educators to navigate the digital era.

November
2025



From 11–12 November 2025, SEAMEO STEM-ED conducted a workshop on **Using the Unplugged Computational Thinking Guidebook** at the Ministry of Education and Sports in Vientiane, Lao PDR. The event empowered 50 Laotian educators to embed computational and analytical thinking into lesson plans, aligning classroom activities with national curriculum standards. By promoting sustainable instructional practices, the workshop reinforced the role of computational thinking as a cornerstone of modern education.



SEAMEO STEM-ED also played a key role in the **48th SEAMEO High Officials Meeting (HOM)**, held from 18–20 November 2025. This annual high-level conference provided a platform to review ongoing educational initiatives, budget planning, legal frameworks, and management strategies, ensuring alignment with the evolving needs of Southeast Asian member countries.

Photo Credit: SEAMEO Secretariat



During the **HOM on 19 November 2025**, SEAMEO STEM-ED and SEAHOHUN co-hosted a **Side Meeting** with 30 participants from SEAMEO Centres and Ministries of Education. The session showcased the achievements of SEAMEO STEM-ED's **SEA-TEP initiative** and SEAHOHUN's **ONE HEALTH Initiative**, culminating in the signing of a Memorandum of Understanding (MoU) between 4 SEAMEO Centres to strengthen inter-centre collaboration and advance regional STEM education development.



On 20 November 2025, SEAMEO STEM-ED organised the **SEAMEO Inter-Centre Collaboration (ICC) Coordination Meeting on Climate Change Education** in partnership with UNESCO's Office for Climate Education (OCE). The meeting brought together 30 educators and stakeholders from SEAMEO regional centres to explore innovative approaches for integrating climate change education into STEM learning. Discussions highlighted strategies for sustainable development, teacher capacity building, and future collaborative initiatives, reinforcing the importance of regional and international cooperation in addressing global challenges.



On 24 November 2025, SEAMEO STEM-ED, with support from Deloitte Thailand under the **Deloitte Green Gen Initiative**, hosted the **Green Campaign Sharing Session** to advance youth green skills and sustainability learning. Supported by Thai PBS, Varuna, and AI Robotics Ventures (ARV), the programme included a study visit to ARV and Varuna, offering insights into sustainability from a business perspective. The event brought together over 80 participants from schools and universities, providing a platform to showcase youth-led sustainability campaigns. With feedback from Thai PBS volunteers, students applied STEM knowledge to real-world environmental challenges, explored practical green solutions, and strengthened competencies in innovation, collaboration, and communication for sustainable development.



December
2025



On 4 December 2025, SEAMEO STEM-ED launched the **Sustaining Southeast Asian Teacher Education Programme (SEA-TEP) Webinar Series** with the opening session “*Introduction to SageModeler & CODAP*.” The webinar introduced free digital tools that support three-dimensional STEM learning, enable data-driven inquiry, and reinforce the Claim–Evidence–Reasoning (CER) framework. Hands-on activities demonstrated model-building and data analysis for classroom application, engaging 185 participants virtually.



From 6–10 December 2025, SEAMEO STEM-ED, in partnership with SEAMOLEC, organised the **SEA-TEP Training of Trainers Workshop** in Jakarta, Indonesia. The workshop equipped 90 regional educators with digital tools such as SageModeler and CODAP, focusing on enhancing students’ analytical thinking and improving classroom implementation of data-driven learning approaches. The broader aim was to strengthen learning outcomes and contribute to improve PISA performance across participating education systems.

January
2026



On 10 January 2026, SEAMEO STEM-ED, in collaboration with the Center for Science Learning Promotion and Development, co-organised **National Children’s Day activities** at the Science Centre for Education (Bangkok Planetarium). The event featured a series of edutainment-based workshops designed to inspire young learners and promote informal STEM education. Through engaging, hands-on experiences, children were encouraged to explore, experiment, and create, cultivating scientific curiosity and strengthening their interest in science and technology.



On 14 January 2026, SEAMEO STEM-ED participated as a key speaker in the **Pre-Event Online Course of the 14th SEAMEO–University of Tsukuba Symposium**, hosted by the SEAMEO Secretariat. The session focused on digital transformation for equitable and sustainable education, with an emphasis on strengthening STEM pedagogy through responsible innovation and emerging digital tools. The event drew an impressive 3,753 participants, joining live and online via YouTube and Facebook.



February
2026



On 5 February 2026, SEAMEO STEM-ED hosted the **Kick-Off Event for the STEM Education Leadership for Change (SELC) Programme** at the Teachers’ Council of Thailand, supported by Chevron. The initiative aims to build a robust regional network, enhance instructional leadership, and drive PISA-aligned STEM education across Southeast Asia. Fifty representatives from SELC partner organisations across five participating countries joined the event, reinforcing collaboration and shared learning among education leaders.



As part of the SELC Kick-Off, SEAMEO STEM-ED also hosted the **SEA-TEP Sharing Webinar “Learning from Practice: SEA-TEP Classroom and School-Level Experiences”** on **5 February 2026**. The session brought together educators from five SEA-TEP implementing countries to foster a regional learning community. Teachers shared classroom successes and evidence-informed practices, highlighting the practical application of STEM education to inform leadership for change. The webinar attracted 2,300 participants via Zoom and YouTube, underscoring the strong regional interest in collaborative STEM education.



On **9–10 February 2026**, SEAMEO STEM-ED participated in the **5th Monitoring, Evaluation, and Learning (MEL) Strategy Workshop** and the **3rd SEAMEO Policy Research Capacity Building Workshop** at Mövenpick BDMS Wellness Resort, Bangkok, Thailand. The 5th MEL Strategy Workshop focused on refining SEAMEO’s MEL indicators, reporting, coordination, and priorities for the next cycle, while the 3rd SEAMEO Policy Research Capacity Building Workshop strengthened participants’ skills in translating research findings into actionable policy messages and developing effective policy briefs for SEAMEO Member Countries.



Showcasing Thai-developed AI innovations, SEAMEO STEM-ED co-hosted the **STEM-ED-Floaino Workshop** at the **National STEM Expo in Malaysia** on **11–12 February 2026**, in partnership with Mahidol University and Floaino. The workshop provided hands-on AI learning experiences, expanding regional collaboration in STEM education and strengthening teacher professional development through practical exposure to emerging AI tools. The event was well received by more than 300 participants, including students and educators, highlighting the growing demand for AI integration in classrooms.



On **12 February 2026**, SEAMEO STEM-ED, in collaboration with Deloitte Thailand, organised the **Empowering Green Generations: Lessons Learned from the Deloitte Green Gen Project Research** webinar. The session presented research findings from the Deloitte Green Gen Project and offered a platform for students, teachers, and university representatives to share insights, lessons learned, and first-hand experiences from green-related campaigns. A total of 114 participants joined virtually, underscoring the importance of sustainability-focused education in shaping future-ready learners.



A major milestone was achieved on **26 February 2026** with the signing of a **strategic partnership agreement with SkillUp Global**, marking the official launch of the **Integrated STEM Skills and Pathways to Innovation towards Readiness for Emerging Industries in Southeast Asia (INSPIRE) Programme**. This initiative strengthens regional collaboration in STEM education and advances future-ready learning pathways, aiming to expand meaningful opportunities for learners and support workforce readiness across Southeast Asia.

March
2026



On **13 March 2026**, the **Green TVET Forum 2026** conducted in the Philippines focused on advancing green skills across ASEAN, facilitating critical dialogues on regional collaboration. The forum provided a platform for SEAMEO STEM-ED to highlight **STEM Career Academies** and workforce development initiatives, supporting sustainable development and equitable transitions toward future green jobs. Approximately 200 participants joined virtually, underscoring strong regional interest in preparing learners for the green economy.

Photo Credit: TESDA Philippines

April
2026



As a core component of the **STEM Education Leadership for Change (SELC) Programme**, the **Training of Trainers (ToT) Workshop** was held on **27–30 April 2026** at the Faculty of Education, Chulalongkorn University, Bangkok. Bringing together 80 education leaders, policymakers, and regional partners from SEAMEO centres, national agencies, universities, and international organisations, the programme—implemented by SEAMEO STEM-ED in partnership with SEAMEO INNOTECH, SEAMEO RECSAM, SEAMEO SEAMOLEC, Caravan of Knowledge, and Michigan State University, and funded by Chevron—strengthened instructional leadership for STEM education reform. Collaborative planning briefs, PISA-aligned frameworks, and capacity-building activities reinforced the programme's focus on systemic change.



On **30 April 2026**, SEAMEO STEM-ED participated in two **Memorandum of Understanding (MoU) signing ceremonies** to strengthen regional collaboration in research, innovation, and capacity development. The first, with the **Asian Institute of Technology (AIT)**, positioned AIT to contribute expertise in STEM learning. The second, with the **National Institute of Development Administration (NIDA)**, leveraged NIDA's strong reputation in public administration to support educational leadership. Together with SEAMEO INNOTECH, SEAMEO RECSAM, SEAMEO SEAMOLEC, and Caravan of Knowledge, these partnerships marked a significant step toward advancing STEM education and sustainable development across the region.

Photo Credit: Asian Institute of Technology (AIT)

Photo Credit: National Institute of Development Administration (NIDA)



May
2026



Further expanding collaboration, on **20 May 2026**, SEAMEO STEM-ED and partners signed an MoU with **Junior Achievement Asia Pacific** to advance STEM education, entrepreneurship, innovation, and future-ready skills among youth. The partnership brings together SEAMEO STEM-ED, SEAMEO INNOTECH, SEAMEO RECSAM, SEAMEO SEAMOLEC, and Caravan of Knowledge to strengthen workforce readiness and expand opportunities for young people across Southeast Asia.

Photo Credit: Junior Achievement Thailand



On **26 May 2026**, SEAMEO STEM-ED co-organised the **CHINA-ASEAN STEM Innovation and Practice Student Video Competition Teacher Orientation Webinar** with UNESCO INRULED, Chongqing Bashu Primary School Education Group, and NSTDA Thailand. The event brought together educators from across the region to learn about the competition framework, STEM project development, digital storytelling techniques, and good practices shared by schools in Thailand and China.



On **21 May 2026**, Dr Kessara Amornvuthivorn, Centre Director of SEAMEO STEM-ED, participated in the panel discussion **“Learner Pathways to the Future World of Work”** during a seminar hosted by Thailand’s Office of the Education Council (OEC). The event brought together education experts to discuss the roles of AI, STEM education, future skills, and human-centred learning in preparing learners for evolving workforce demands.

Photo Credit: Thailand’s Office of the Education Council (OEC)

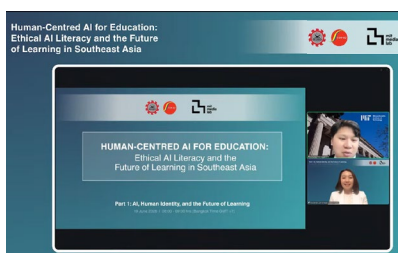
June
2026



In **June 2026**, SEAMEO STEM-ED participated in the **SEAMEO Centres Policy Research Network (CPRN) Summit 2026**, held from **9–11 June** in **Jakarta, Indonesia**. The Centre presented the research paper *Strengthening STEM Teacher Education in Southeast Asia: Cross-Country Insights from SEA-TEP and Policy Pathways for Sustainable Change*, and conducted two workshops: *AI Teaching Made Easy with Floaino and Picture Books to Enhance Critical Thinking and Meaningful Reading*.



On **16–17 June 2026**, SEAMEO STEM-ED co-hosted the **2026 KOREA-ASEAN AI City & EdTech Day** with the Korea Trade-Investment Promotion Agency (KOTRA) at Hotel Nikko Bangkok, Thailand. This international gathering strengthened collaboration in AI, Smart Cities, EdTech, Smart ICT, and future workforce development across Korea and ASEAN. SEAMEO STEM-ED delivered a keynote presentation on *Empowering Responsible Digital Citizens, Data-driven Thinkers, and Future Innovators*, and engaged Mahidol University and Suranaree University of Technology in networking with Korean EdTech leaders to explore partnership opportunities in education and emerging technologies.



The **“Human-Centred AI for Education”** webinar series on **19 June 2026**, co-organised by SEAMEO STEM-ED in partnership with MIT Media Lab, addressed urgent global needs for ethical AI literacy. Reaching **1,067** participants from **47** countries across six continents, the series featured a keynote by Asst Prof Dr Pat Pataranutaporn on *Cyborg Psychology and Advancing Human with AI (AHA)*, sparking global dialogue on responsible innovation in education.



PARTNERSHIP AND IMPACT: REFLECTIONS ON OUR COLLABORATIVE JOURNEY

Over the years, SEAMEO STEM-ED has cultivated meaningful partnerships with organisations across different sectors, working together to advance STEM education and create lasting impact in the region. Collaborations with government organisations, SEAMEO Centres, educational institutes, private sector partners, funders, and civil society organisations have driven the development and implementation of programmes that strengthen the capacity of educators, learners, and communities.

Through these shared efforts, partners highlight the value of collaboration in knowledge exchange, capacity building, and policy advocacy to address pressing educational challenges. Their testimonials reflect the trust, commitment, and shared vision that continue to sustain and deepen long-term partnerships with SEAMEO STEM-ED.



Ministry of Education of Lao PDR

Dr Somsack Inthasone
Head of Computer Science Department
Faculty of Natural Sciences
National University of Laos

Over the past year, serving on the SEAMEO STEM-ED GBM has given me the opportunity to witness the SEAMEO STEM-ED Centre remarkable progress in advancing STEM education across ASEAN and other regions. The centre has demonstrated strong leadership through innovative methodologies, meaningful regional collaboration, and impactful capacity-building initiatives that empower educators and learners alike. Its commitment to fostering excellence, inclusivity, and future-ready STEM competencies to strengthen education systems throughout the region. I am confident that “The SEAMEO STEM-ED” will remain a driving force in shaping a more innovative, resilient, and sustainable future for STEM education.

**STEM education is the secret sauce to make different things happen and change the world:
“Smart Education → Smart People → Smart Country”**



Teachers' Council of Thailand (TCT)

Asst Prof Dr Amonwan Werathummo
Secretary-General of the Teachers' Council of
Thailand

On behalf of the Secretariat Office of the Teachers' Council of Thailand, I would like to extend our sincere congratulations to the SEAMEO STEM-ED on its successful achievements in the 2025/26 fiscal year.

Through our collaboration, we have strengthened the integration of professional standards, educational innovation, and practical implementation in schools.

This enduring partnership reflects our shared commitment to empowering educators and advancing sustainable, high-quality education that responds effectively to the evolving needs of learners and society across the region.

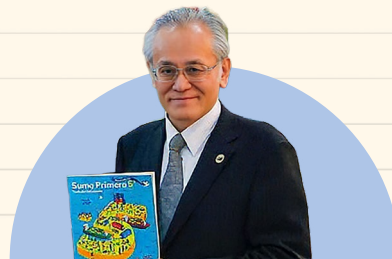
As we reflect on these accomplishments, I would like to express my sincere appreciation to all leaders and staff of SEAMEO STEM-ED for their dedication and commitment. I am confident that SEAMEO STEM-ED will continue to advance STEM education and make a lasting impact across Southeast Asia.



SEAMEO SEAMOLEC

Ms Cahya Kusuma Ratih
Centre Director, SEAMEO SEAMOLEC

Working together through this multi-centre initiative has been a truly rewarding experience. We all worked towards a shared goal, with each SEAMEO Centre contributing its own strengths and expertise. Every Centre has the capability to implement initiatives in its own country, and by bringing together our different specialisations, we were able to create something much stronger than we could individually. What I found most meaningful was our ability to mobilise resources together, demonstrating the value of collaboration and reinforcing how much more we can accomplish as one SEAMEO community. As we continue our partnership, I look forward to developing high-quality learning resources under STEM Academy that can benefit educators and learners across the region.



University of Tsukuba

Prof Dr Masami Isoda
CRICED
Senior Professor, Bureau of Global Initiatives
University of Tsukuba, Japan

SEAMEO STEM-ED and UT-CRICED edited and published the *Guidebook for Unplugged Computational Thinking* in 2024, with contributions from SEAMEO RECSAM, SEAMOLEC, and SEAMEO QITEP in Mathematics. In 2025, SEAMEO STEM-ED conducted the Core Teacher Training Workshop alongside these partners in Lao PDR. The workshop was successfully completed in collaboration with MOES and SEAMEO-CED. On the trainers' reflection meeting, trainers recognised the digital divide which happened in Laos and felt it was necessary to continue training to develop both plugged and unplugged computational thinking. SEAMEO STEM-ED plays a key role in addressing these issues within the SEAMEO region.



Deloitte Thailand

Ms Nisakorn Songmanee
Talent Leader and Partner
Deloitte Thailand

Deloitte Thailand values our partnership with SEAMEO STEM-ED in advancing education and social impact. Together, we have collaborated on meaningful learning opportunities through initiatives such as Sustainable Food, Work Readiness, and Deloitte Green Gen. These programmes equip young people and educators with future-ready skills and promote sustainability. Our collaboration shows how cross-sector partnerships can deliver practical, scalable, and locally relevant solutions that strengthen education and workforce readiness in Thailand and the region.



Caravan of Knowledge

Mr Daryn Saiynov
General Director
Caravan of Knowledge, Kazakhstan

Working with SEAMEO STEM-ED through the SEA-TEP Programme has been a valuable experience for our team and teachers in Kazakhstan. The collaboration provided opportunities to learn new approaches, exchange knowledge, and adapt ideas to our own context. One important aspect of this experience was the opportunity to localise the content; we did not simply copy and paste, but studied and adapted the approaches before sharing them with our teachers. Through this collaboration, we have built a strong relationship between Kazakhstan and Southeast Asia, creating opportunities to connect our regions through future collaboration.



UNESCO INRULED

Dr Qi Xinjian

Assistant Director

UNESCO International Research and Training
Centre for Rural Education

As a partner institution committed to inclusive education, we are deeply impressed by SEAMEO STEM-ED's dedication to advancing equitable STEM education across Southeast Asia. The innovative, context-responsive curricula, teacher capacity building, and cross-border collaboration, particularly in bridging the rural-urban STEM divide, resonate strongly with UNESCO and INRULED's mission. We proudly support an institution that empowers learners and educators to thrive in our rapidly evolving world.



Chulalongkorn University

Assoc Prof Dr Patcharee Rompayom Wichaidit

Faculty of Education, Chulalongkorn University

I am deeply grateful and honoured to have been part of two previous SEAMEO STEM-ED research projects: the SEA-TEP programme and Deloitte Green Gen. Being part of SEAMEO STEM-ED's mission to strengthen education in Southeast Asia is both a privilege and a responsibility. These projects have allowed me to translate research into practical actions that support teachers, enhance learning opportunities, and reduce educational inequality. I sincerely appreciate SEAMEO STEM-ED's trust and support, and I am pleased to be part of this collective effort to drive national progress.



Mahidol University

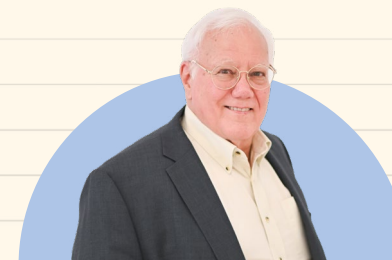
Assoc Prof Dr Panrasee Ritthipravat

Department of Biomedical Engineering
Faculty of Engineering
Mahidol University

Working with SEAMEO STEM-ED has given me the opportunity to witness the strong friendship and collaboration across the SEAMEO network. I have seen how dedicated its members are to strengthening teachers and advancing STEM and AI education across the region.

What I truly appreciate is the spirit of sharing, supporting, and learning from one another. Through this network, teachers have opportunities to develop their skills and receive guidance from experts in different fields. This collective support empowers educators and strengthens the capacity of member countries.

I sincerely admire SEAMEO STEM-ED for building a collaborative community where everyone grows together. I believe this spirit of partnership will continue to make the SEAMEO network stronger and drive meaningful, sustainable development in education.



Michigan State University

Prof Dr Joseph Krajcik

Director of CREATE for STEM Institute and the
Lappan-Phillips Professor of Science Education
Michigan State University

I think it is extremely important for nations to work together around important problems and showing how we can educate our children. Education can serve as a vehicle to bring about peace in the future. Having five different countries working together is wonderful, and I hope that the countries will continue to share with each other what they have learned and help one another modify their models to become even better. The models may differ from each other, but they can serve as examples that other countries can use. We can also learn from each other and continue to build our models even better.

KEY PARTNERS AND FUNDERS

Affiliate Members

1. University of Tsukuba
2. Southeast Asia One Health University Network (SEAOHUN)

SEAMEO Regional Centres

1. SEAMEO CECCEP
2. SEAMEO CED
3. SEAMEO INNOTECH
4. SEAMEO QITEP in Mathematics
5. SEAMEO QITEP in Science
6. SEAMEO RECSAM
7. SEAMEO RETRAC
8. SEAMEO SEAMOLEC
9. SEAMEO Secretariat
10. SEAMEO SEN
11. SEAMEO TED
12. SEAMEO VOCTECH

Funders

1. Chevron U.S.A., Inc.
2. Deloitte Thailand
3. Ministry of Education, Thailand
4. UNESCO Regional Office in Bangkok

Governmental/ International Organisations

1. Asian Institute of Technology (AIT)
2. Amazon Web Services (AWS)
3. Australian Embassy in Bangkok
4. Battambang Teacher Education College, Cambodia
5. Beijing Normal University
6. Caravan of Knowledge, Kazakhstan
7. Code.org
8. Deloitte Asia Pacific
9. Department of Research and Innovation, Ministry of Education, Youth, and Sport, Cambodia
10. Education Development Center (EDC)
11. Embassy of Finland, Bangkok
12. Embassy of Spain in Bangkok
13. Explico
14. Fulbright Thailand
15. Ministry of Education and Sports, Lao PDR
16. Institute for Research and Development in Teaching Profession (IRDTP) for ASEAN
17. International Computer Science Education Consortium (ICSEC)

18. Institute of International and Comparative Education, Beijing Normal University, China
19. Johannes Kepler University, Linz, Austria
20. Junior Achievement Thailand
21. Junior Achievement Asia Pacific
22. Korea Trade-Investment Promotion Agency (KOTRA)
23. Krya Global, Indonesia
24. LUMA Research Centre, Finland
25. Marshall Cavendish Education
26. Massachusetts Institute of Technology (MIT)
27. Michigan State University, USA
28. National Institute of Education, Cambodia
29. National STEM Association, Malaysia
30. Office for Climate Education (OCE)
31. Phnom Penh Teacher Education College, Cambodia
32. Riady Foundation
33. SkillUp Global
34. Smart Education Hub (SEH)
35. TeachAI
36. The Concord Consortium
37. Toraighyrov University, Kazakhstan
38. Ualikhanov University, Kazakhstan
39. UNESCO Hanoi Office
40. UNESCO ICHEI
41. UNESCO International Institute for Educational Planning (IIEP)
42. UNESCO International Research and Training Centre for Rural Education (INRULED)
43. UNESCO Phnom Penh
44. UNESCO Regional Office in Hanoi
45. UNESCO Regional Office in Jakarta
46. Universitas Ahmad Dahlan, Indonesia
47. Universitas Islam Negeri Raden Fatah Palembang, Indonesia
48. Universitas Sebelas Maret, Indonesia
49. University of Chile
50. University of Jyväskylä, Finland
51. University of Philippines - National Institute for Science and Mathematics Education Development (UP NISMED)
52. US Mission in ASEAN (USASEAN)
53. VEX Robotics

Thai Government/ Public Agencies

1. Institute for the Promotion of Teaching Science and Technology (IPST), Ministry of Education
2. National Science and Technology Development Agency (NSTDA), Ministry of Higher Education, Science, Research, and Innovation
3. National Science Museum (NSM), Ministry of Higher Education, Science, Research, and Innovation
4. Office for National Education Standards and Quality Assessment (ONESQA)
5. Office of the Basic Education Commission (OBEC), Ministry of Education
6. Office of the Education Council (OEC), Ministry of Education
7. Office of the Vocational Education Commission (OVEC), Ministry of Education
8. Teachers' Council of Thailand (TCT), Ministry of Education
9. Thai Public Broadcasting Service (Thai PBS)

Thai Education Institutions/ Private Organisation

1. AI and Robotics Ventures (ARV)
2. Chiang Mai University
3. Chulalongkorn University
4. Edu Park
5. Floaino
6. Kasetsart University
7. Khon Kaen University
8. King Mongkut's University of Technology Thonburi (KMUTT)
9. Mahasarakham University
10. Mahidol University –
(1) Institute for Innovative Learning
(2) Faculty of Engineering
11. Naresuan University
12. National Institute of Development Administration (NIDA)
13. Phuket Rajabhat University
14. Rajamangala University of Technology Lanna
15. Srinakharinwirot University
16. Sukhothai Thammathirat Open University
17. Thaksin University
18. The S Curve Company Limited
19. Varuna

FINANCIAL REPORT

SOUTHEAST ASIAN MINISTERS OF EDUCATION ORGANIZATION REGIONAL CENTRE FOR STEM EDUCATION

STATEMENTS OF ASSETS, LIABILITIES AND FUNDS AVAILABLE AS AT 30 JUNE 2026

	U.S. Dollars	
	2026	2025
ASSETS		
Cash on hand and at banks	559,104	502,763
Time Deposit	214,687	219,368
Unreleased balances of approved grants	143,372	-
Other receivables	2,853	11,603
Provident funds deposits and separation gratuity	139,316	156,882
Property and Equipment	48,322	38,856
Total Assets	1,107,654	929,472
LIABILITIES AND FUND AVAILABLE		
Accounts payable/Obligation payable	285,992	139,817
Staff provident funds and separation gratuity	140,728	157,219
Investment in property and equipment	48,322	38,856
FUND AVAILABLE		
Other funds	156,935	117,920
Unallocated funds	475,677	475,660
TOTAL LIABILITIES AND FUNDS BALANCES	1,107,654	929,472

STATEMENTS OF OPERATIONS AND CHANGES IN FUNDS AVAILABLE FOR THE YEAR ENDED 30 JUNE 2026

	2026					U.S. Dollars	
	Capital Funds	Operating Funds	Special Funds	Other Funds	Unallocated Funds	Total	2025
FUNDS AVAILABLE AT THE BEGINNING OF YEAR				117,920	475,660	593,580	915,442
GRANTS RECEIVED AND INCOME EARNED							
Government of Thailand	2,354	560,318	24,009			586,681	492,134
Other donors				516,915		516,915	17,788
Interest income				319	3,043	3,362	6,062
Other income					44	44	20,768
Adjustment of prior year balances				16,169	60	16,229	1,990
Transfers from Unallocated Funds				(17,883)	17,883		
TOTAL FUNDS AVAILABLE	2,354	560,318	24,009	633,440	496,690	1,716,811	1,454,184
Expenses and Outstanding obligations	(9,466)	(520,584)	(73,260)	(465,888)	-	(1,069,198)	(967,428)
Translation gain (loss)	82	3,703	(37)	(10,617)	(8,132)	(15,001)	109,314
Refund to donor							(2,490)
Unobligated funds	(7,030)	43,437	(49,288)	156,935	488,558	632,612	593,580
Transfers to Unallocated funds	7,030	(43,437)	49,288	-	(12,881)		
FUNDS AVAILABLE AT THE END OF YEAR	-	-	-	156,935	475,677	632,612	593,580



**Southeast Asian Ministers of Education Organization
Regional Centre for STEM Education
(SEAMEO STEM-ED)**

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