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28th ASPA Annual Conference 2025

November 3-6, 2025

The Role of Science and Technology Parks
in Facilitating Corporates on the ESG Journey

A Warm Wrap-Up & Conference Highlights

Prepared By: *Thailand Science Park*

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Executive Summary

ASPA 2025, held under the theme **"The Role of Science and Technology Parks in Facilitating Corporates on the ESG Journey,"** convened science parks, innovation agencies, corporates, startups, and investors from across Asia and beyond to address one core question: how innovation ecosystems can help organisations turn ESG commitments into operational practice.

The opening keynote from Glasgow's Innovation Districts illustrated how a fourth-generation university can serve as an ESG integrator by connecting talent, research, industry, and public policy to deliver city-scale impact in net-zero development, resilience, and inclusive growth.

Thematic sessions expanded this conversation through a range of ecosystem models:

- **INNOPOLIS and the Incheon Innovation Cluster** showcased a nationally coordinated innovation pipeline from lab to market. Qianhai E-Hub presented a governance and funding approach that translates dual-carbon ambitions into concrete soft-landing and scale-up services.
- **HKETO Bangkok** outlined Hong Kong's policy architecture linking research, finance, and industrialization.
- **NIA** demonstrated how public funding (Groom–Grant–Growth–Global) can de-risk ESG-aligned innovation.
- **BOI** detailed incentive frameworks attracting ESG-oriented investment in advanced and bio-based industries.
- **Thai-BISPA** highlighted the role of incubators and parks as the backbone translating the BCG economy into real opportunities for startups and SMEs.
- **Jiangsu TusPark** shared a soft-landing program and a five-pillar strategy for attracting global startups. Following these ecosystem models, the program also highlighted practical cases from startups that are already operation aliasing ESG through technology.
- **VEKIN** demonstrated AI-enabled MRV tools that make carbon reduction measurable and manageable.
- **Jaggle AI** presented a human-centered work platform integrating wellbeing metrics with organizational performance.
- **The panel on Asia's 7 Key Target Technologies** mapped how Thailand's 44 university-based science and technology parks, together with Thailand Science Park, operate as a connected national network. It illustrated how regional specialization, shared pilot plants, and national digital platforms are being leveraged to turn these capabilities into concrete collaborative projects with industry and international partners.

Beyond presentations, the program emphasized experiential learning. The hands-on workshop "Presenting ESG Innovation with Impact" strengthened participants' skills in communicating ESG value propositions to investors, policymakers, and corporate partners. Technical tours to research, innovation, and industrial facilities at Thailand Science Park, alongside a curated cultural tour in Bangkok, offered delegates first-hand exposure to Thailand's innovation ecosystem and ESG landscape.

Ultimately, ASPA 2025 positioned science and technology parks not merely as physical locations, but as system integrators orchestrating policy, finance, technology, talent, and culture to help corporations across Asia and beyond move further and faster on their ESG journeys.

PRE DAY-CONFERENCE: NOVEMBER 03, 2025

Time	Program
2.30 PM-3.00PM	Workshop Registration
3.00 PM-4.30PM	**Workshop:** "Presenting ESG Innovation with Impact" **Speaker:** Donald B. Ma, Executive Consultant, Milestone Three, Hong Kong.
4.30PM-5.30PM	Registration ASPA Board Meeting
6.00PM-8.30PM	Welcome Reception

FULL DAY-CONFERENCE DAY: NOVEMBER 04, 2025

Time	Program
8.30 AM-9.00 AM	Registration
9.00 AM -9.50 AM	Opening ceremony by Ms. Pimporn Chewananth Secretary to the Minister of Higher Education, Science, Research and Innovation Ministry of Higher Education, Science, Research and Innovation (MHESI)
9.50 AM-10.30 AM	**Keynote Speech:** "Empowering Partners on the ESG Journey – International Insight from Glasgow Innovation Districts" **Keynote:** Professor Julian Taylor, University of Strathclyde, Scotland
10.30 AM-11.00 AM	Coffee break
11.00 AM-11.30 AM	**Session 1:** "Cross-Border ESG Partnerships: A Pathway to Sustainable Growth." **Speaker:** Professor Heekwan Lee, Director of Inchoen Innovation Cluster, South Korea
11.30 AM-12.00 PM	**Session 2:** "Enabling ESG-Driven Growth: Governance Models Supporting Science Parks and Startups" **Speaker:** Mr. Peter Mok, President of Qianhai E-Hub, China
12.00 PM-12.20 PM	**Fireside Talk:** "Beyond Infrastructure: The Real Power of Science Parks in the ESG Era" Prof Julian Taylor, Prof. Heekwan Lee, and Mr. Peter Mok **Moderator:** Ms. Watcharin Witthayaweerasak, Director of Thai-BISPA
12.20 PM-1.50 PM	**Lunch & networking**
1.50 PM-2.20 PM	**Session 3:** "Public Funding for ESG-driven Innovation" **Speaker:** Ms. Pitcharee Keeratithakul, Senior Innovation Developer, National Innovation Agency (NIA), Thailand
2.20 PM-2.50 PM	**Session 4:** "Innovation and Technology in Hong Kong: Government's Role, Future Pathways and Opportunities" **Speaker:** Mr. Parson Lam, Director of Hong Kong Economic and Trade Office (HKETO) in Bangkok, China
2.50 PM-3.30 PM	**Session 5:** "Two Real-World Use Cases on Emerging ESG Solutions" **Speaker:** Dr. Ekasit Phermphoonphiphat, CTO of VEKIN, Thailand **Speaker:** Mr. Jigme Tashi Namgyal, CEO and Co-Founder of Jaggle AI, Bhutan
3.30 PM-4.00 PM	**Coffee break & Networking**
4.00 PM-4.30 PM	**Session 6:** "From Local Roots to Global Reach: Thai-BISPA's Role in Connecting Innovation Ecosystems for ESG Impact" **Speaker:** Ms. Watcharin Witthayaweerasak, Director of Thai-BISPA, Thailand
4.30 PM-5.40 PM	**ASPA 4 Finalists Pitching**
5.40 PM-6.50 PM	**Networking and booth visit**
6.50 PM-9.50 PM	**Gala Dinner & ASPA Award Ceremony**

HALF DAY-CONFERENCE: NOVEMBER 05, 2025 (Loy Krathong Festival)

Time	Program
8.45 AM-9.15 AM	Registration
9.15 AM-9.45 AM	**Session 7:** "Soft Landing Program: How Science Parks can Attract Global Startups" **Speaker:** Mr. Tang Hao, Managing Director of Jiangsu Tuspark Innovation Research Institute, China
9.45 AM-10.15 AM	**Session 8:** "Incentivizing ESG-aligned Investment: Board of Investment Thailand (BOI)'s Policy and Strategic Direction" **Speaker:** Ms. Suphanaree Pho-Ong, Investment Promotion Officer of Thailand, Board of Investment (BOI)
10.15 AM-10.45 AM	Coffee break & Networking
10.45 AM-11.45 PM	**Panel discussion:** "Exploring Collaboration Opportunities in Asia's 7 Key Target Technologies" Led by 4 Executives from Leading Science Park in Thailand **Speaker:** Associate Professor Dr. Pitiwat Wattanachai, Director, Science and Technology Park Chiang Mai University (STeP) **Speaker:** Assistant Professor Dr. Paphakorn Pittayachaval, Director, The Regional Science Park, Lower Northeastern Region **Speaker:** Dr. Vorasan Sobhon, Deputy Director, Prince of Songkla University Science Park **Speaker:** Dr. Chai Wutiwiwatchai, Executive Director, The National Electronics and Computer Technology Center (NECTEC) **Moderator:** Ms. Chaowarat Yongjiranon
11.45 PM-12.15 PM	**Closing Ceremony and Introduction of the 29th ASPA Annual Conference**
12.15 PM -1.45 PM	**Lunch & networking**
1.45 PM onwards	**Free time (Enjoy Loy Krathong Festival)**

POST DAY - CONFERENCE: NOVEMBER 06, 2025 (Technical & Cultural Tours)

Time	Program
8.00 AM	Gather at pick up point (Millennium Hilton Hotel)
8.30 AM	Depart from pick up point **(Participants are requested to be on time)**
10.00 AM- 12.00 PM	Technical tours at Thailand Science Park (TSP)
12.00 PM-1.00 PM	**Lunch at TSP Convention Center**
1.00 PM-4.45 PM	Cultural tour at Wat Pho

WORKSHOP : PRESENTING ESG INNOVATION WITH IMPACT

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The workshop was filled with warm exchanges, lively group discussions, and moments of genuine connection led by Mr. Donald B. Ma. Participants enjoyed sharing ideas, learning from one another, and engaging in hands-on activities that sparked creativity and collaboration. Smiles, laughter, and thoughtful conversations made the session a memorable part of the ASPA 2025 experience.

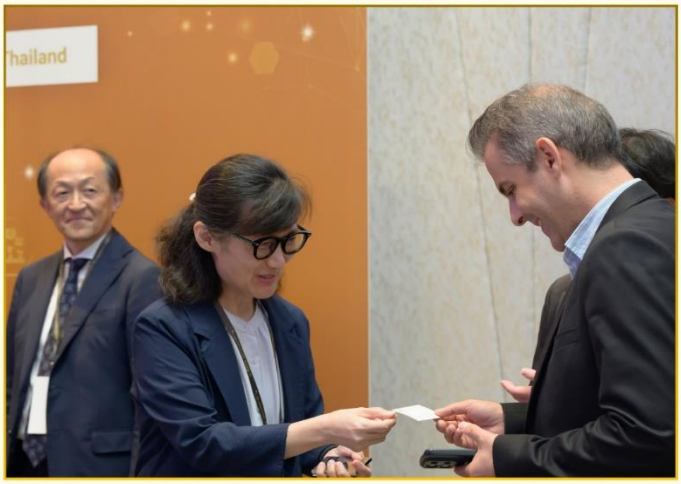
The session began with a fun and eye-opening activity where participants experimented with how changing the stress on different words could shift the meaning and tone of a message. This playful exercise set the tone for a deeper dive into presentation skills.

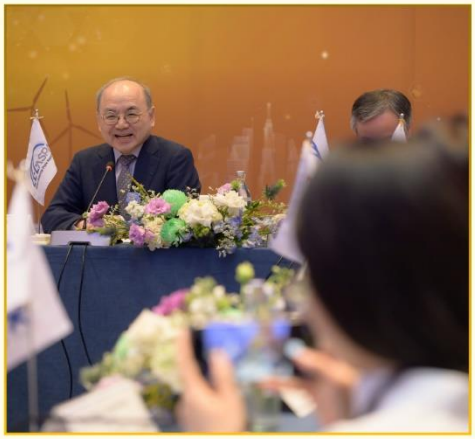
It was a relaxed, hands-on session that gave participants a chance to reflect, speak up, and support each other in sharpening their presentation skills. More than just a training workshop, it was a space to build confidence, connect with others, and reflect on how we communicate.

It reminded that this year 28th ASPA Annual Conference 2025 doesn't only focus on knowledge-sharing through sessions we also care about soft skills, personal growth, and creating memorable moments together.

THE 44TH ASPA BOARD OF DIRECTORS MEETING

28TH ASPA ANNUAL CONFERENCE 2025





WELCOME RECEPTION

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THE ASPA 2025 Welcome Reception was a great way to kick things off. Delegates joined the ThreeSixty Jazz Lounge and Rooftop Bar on the 31st floor of the Millennium Hilton Bangkok, delegates enjoyed the stunning beauty of the Chao Phraya River. With live jazz in the background, light refreshments, smiles, chats, and a few clinks of glasses, it was the perfect way to ease. After some warm welcome remarks from the hosts and sponsors, everyone got to mingle, enjoy live music, and soak in the atmosphere. The evening wrapped with a charming Thai puppet performance a lovely touch of culture to round out a relaxed and memorable night.

OPENING CEREMONY

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ASPA 2025 began with a vibrant and symbolic opening performance inspired by Loy Krathong, Thailand's beloved festival of light. The contemporary drum show reflected unity, rhythm, and cultural pride setting the tone for a meaningful and collaborative conference ahead.

Before the conference start, attendees observed a one-minute silence in remembrance of Her Majesty Queen Sirikit, The Queen Mother. Safety instructions were shared.

Opening remarks were delivered by Mr. Kim Young Jib, President of ASPA, Prof. Sukit Limpijumnong, Director of the National Science and Technology Development Agency (NSTDA), and Ms. Pimporn Chewananth, Secretary to the Minister of Higher Education, Science, Research and Innovation. Together, they took part in a ceremonial krathong offering, symbolizing the official launch of ASPA 2025.

OPENING CEREMONY

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WELCOME SPEECH

Mr. Youngjib Kim

Good morning,
Distinguished and honorable guests.

On behalf of the Asia Science Park Association,

I would like to extend my warmest welcome to all of you joining us for the 28th ASPA Annual Conference here in Bangkok. It is a great pleasure to gather in this vibrant city, rich in culture and history.

I would also like to express my sincere appreciation to our gracious hosts: the Thailand Science Park, Regional Science Park, the Thai Business Incubators and Science Parks Association, and the Thailand Institute of Scientific and Technological Research. Their invaluable contributions have made this event possible.

This year's conference theme, "The Role of Science and Technology Parks in Facilitating Corporates on the ESG Journey," highlights how our parks can serve as catalysts for positive transformation. They foster innovation, advance sustainability, and support corporations in their ESG endeavors.

To keep pace with the latest global trends, this year's ASPA Conference explores a wide range of topics. Our experts will share insights into how science and technology parks, along with other innovation infrastructures, can partner with corporations to drive ESG forward.

I also look forward to fruitful exchanges, in-depth discussions, and the sharing of both challenges and successes.

Once again, thank you all for your participation and your continuous support for ASPA. I wish this conference every success, and I hope each of you enjoys your time in Bangkok and continues to prosper in your professional and personal endeavors.

Thank you.
Mr. Youngjib Kim, President of ASPA

OPENING CEREMONY

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OPENING SPEECH

Professor Sukit Limpijumnong

Excellencies, Distinguished speakers and participants, Esteemed colleagues, Ladies and gentlemen,

Good morning. สวัสดีครับ [Sawasdee krap]

On behalf of the National Science and Technology Development Agency, or NSTDA, and Thailand Science Park, it is my great honor to welcome you all to the 28th ASPA Annual Conference 2025 here in Bangkok. The Asian Science Park Association, or ASPA, has long been a vital platform for regional collaboration in science, technology, and innovation. Over nearly three decades, it has connected visionaries, scientists, entrepreneurs, and policymakers who share a common belief that innovation can drive sustainable growth and shared prosperity across Asia.

This year, we gather under the theme "The Role of Science and Technology Parks in Facilitating Corporates on the ESG Journey." This theme reflects our collective commitment to advancing sustainable transformation through innovation, partnership, and responsible leadership. We have organized this conference with three key objectives.

First, to strengthen regional cooperation among science parks, research institutions, government agencies, and the private sector, creating partnerships that accelerate innovation and sustainability across borders. Second, to share experiences and best practices on how science and technology parks can support corporations in embedding ESG principles into their business strategies, from green technology adoption to social inclusion and good governance. And third, to build a collaborative learning community where every participant, whether from Asia or Europe, can exchange insights, discover new opportunities, and co-create pathways toward a more sustainable and resilient future for all.

Through these shared efforts, we also hope that Thailand, as this year's host, can contribute to strengthening the regional innovation ecosystem and reaffirm its role as a proactive partner and connector in the Asian and global innovation landscape. I am delighted to share that we have around 300 participants representing 13 countries and economic zones across Asia and Europe joining us today. This diverse gathering includes science park executives, incubator leaders, researchers, government officials, investors, and entrepreneurs, all united by one vision: that science and technology parks are powerful catalysts for corporate and societal transformation.

Over the next three days, we will have the opportunity to learn from one another through rich exchanges of ideas and experiences. We will hear from leading experts from Asia and Europe on topics ranging from science park management and government support mechanisms to ESG-driven business models and innovation funding strategies. We will also foster new partnerships in research and technology development, strengthen public-private collaboration, and create opportunities for entrepreneurs and investors to connect across regions, paving a sustainable innovation pathway that leads to shared growth and long-term impact.

Ladies and gentlemen, the journey toward sustainability, especially the journey of driving innovation and ESG transformation, is not one that any nation or organization can take alone. It requires collective vision, shared responsibility, and the kind of collaboration that platforms like ASPA make possible. Together, we can turn innovation into impact and ensure that progress and sustainability move forward hand in hand. Let us take this opportunity to learn from one another, to support and inspire one another, and to demonstrate that science and technology, when guided by purpose, can truly lead the ESG journey toward a better future for our region and our planet. I wish you all fruitful discussions and meaningful connections throughout this conference.

Thank you very much. ขอบคุณครับ [khòp khun kráp]
Prof. Sukit Limpijumnong
President, National Science and Technology Development Agency (NSTDA)

OPENING CEREMONY

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OPENING REMARKS

Ms. Pimporn Chewananth

Excellencies, Distinguished speakers and participants,
Esteemed colleagues, Ladies and gentlemen,

Good morning, สวัสดีค่ะ [Sawasdee ka]

It is my great honor to welcome you all to Bangkok for the 28th ASPA Annual Conference 2025. On behalf of the Ministry of Higher Education, Science, Research and Innovation and Thailand Science Park, I extend my warmest greetings to every one of you. This is more than a conference. It is a gathering of partners and friends who believe that sustainable growth begins within the innovation ecosystems we build together. The theme, "The Role of Science and Technology Parks in Facilitating Corporates on the ESG Journey," reflects our shared commitment to drive change through science, technology, and collaboration for the benefit of our economies, our societies, and our planet.

Today, ESG is no longer optional. Corporations across the world are moving from intention to action - and Science and Technology Parks have become key drivers of this transformation. They bring together government vision, academic expertise, and private-sector innovation to turn sustainable ideas into real, scalable impact.

Allow me to briefly share Thailand's experience. Over the past two decades, we have established a nationwide network of Regional Science Parks each shaped by local strengths, yet united under one mission: to expand access to research, technology, and innovation for sustainable business growth.

Our Science Parks play five important roles:

- First, innovation catalysts, turning local challenges into solutions,
- Second, ecosystem builders, connecting regional communities to national networks,
- Third, collaboration facilitators, linking industry, academia, and investors,
- Fourth, capacity developers, nurturing the next generation of green entrepreneurs, and
- Last but not least, market gateways, offering international connections through Thailand Science Park and more than 120 resident companies - 40% of which are global firms.

What makes Thailand's model unique is the connectivity of the network. A breakthrough in one region can quickly benefit all others- proving that innovation does not belong to one city, but to every community.

Ladies and gentlemen,

Across Asia, Science and Technology Parks are shaping some of the world's most dynamic innovation ecosystems. Together through ASPA, we carry both an opportunity and responsibility to accelerate corporate ESG transformation. Let us deepen collaboration, strengthen regional networks, and show that Science Parks are vital infrastructure for a sustainable Asia.

I wish you productive discussions, new partnerships, and lasting cooperation. It is now my great pleasure to declare the 28th ASPA Annual Conference 2025 officially open.

Thank you very much. ขอบคุณค่ะ [khòp khun khâ]
Ms. Pimporn Chewananth
Secretary to the Minister of Higher Education, Science, Research and Innovation
Ministry of Higher Education Science Research and Innovation, Thailand

KEYNOTE SPEECH

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EMPOWERING PARTNERS ON THE ESG JOURNEY: INTERNATIONAL INSIGHTS FROM GLASGOW'S INNOVATION DISTRICTS.

Professor Julian Taylor is Professor of International Innovation and Engagement at the University of Strathclyde, Scotland. He builds strategic partnerships with industry, government, and academic leaders and delivers knowledge exchange activities that align with the university's priorities in research, innovation, and teaching and its socially progressive ethos. As Managing Director of International Operations, he established and led the University's South East Asia Hub which cultivates comprehensive innovation ecosystems. He previously served as Managing Director of Strategy and Economics at Scottish Enterprise and led Asia Pacific operations for Scottish Development International. He joined the University of Strathclyde in 2020 to provide strategic leadership in attracting industrial research partners and advancing global engagement.

SUMMARY

Using Glasgow examples, he highlighted Technology and Innovation Center (TIC), the National Manufacturing Institute Scotland, and the Advanced Net Zero Innovation Centre. Together, they demonstrate how city scale collaboration and triple or quadruple helix models can accelerate impact.

Julian explained why ESG is no longer optional. It protects long term value, meets rising regulatory and market expectations, and reflects a shared duty to future generations.

He set three lessons for an effective ESG ecosystem which are systems thinking, leadership and culture, and role of university (4th generation). Use systems thinking across the whole value chain with clear feedback loops. Build leadership and culture that enable collaboration, learning, and faster translation from ideas to delivery. Position the fourth - generation university as an integrator that connects talent, research, enterprise, and public policy.

He described the University of Strathclyde as a Place of Useful Learning and showed how it became an ecosystem through city and regional partnerships, co-location with industry, and structured programme that move partners from assets and actors to action plans

He also referenced the TREX programme for empowering partners through diagnostics and action planning.

The keynote closed with a reprise of the central lessons. Systems thinking is essential. The role of 4th generation university is to integrate talent, industry collaboration, and entrepreneurship. Leadership and culture enable coalition building, distributed decision making, and continual learning so that partners can move from insight to deployment with measurable outcomes for sustainability and net zero goals.

SESSION ONE

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CROSS-BORDER ESG PARTNERSHIPS: A PATHWAY TO SUSTAINABLE GROWTH

Professor Heekwan Lee is a leading expert in environmental and climate change engineering, recognized for his contributions to air quality management, emission inventory systems, and sustainable technology development. As a long-serving professor at Incheon National University, he has played a key role in advancing interdisciplinary research that connects science, policy, and industrial innovation.

Through his leadership at the I.NERGY Institute for Environmental Research and Energy and the Institute of Environmental Convergence Technology, Prof. Lee has actively promoted collaboration among academia, government, and industry, strengthening innovation ecosystems in Korea and beyond. His international experience across Asia, Europe, and the United States reflects a strong commitment to applying research for practical, globally relevant climate solutions.

SUMMARY Professor Lee delivered an in-depth examination of Korea's nationally coordinated innovation ecosystem built around the INNOPOLIS framework, tracing the historical evolution of the country's research and development industrialization model and showing how science and technology parks and regional innovation clusters were intentionally designed to connect research universities, industrial sectors, and government bodies into one integrated system based on Triple-helix mode.

ESG readiness was positioned as the next developmental frontier for INNOPOLIS, enabling cross-border, sustainability-oriented research and innovation collaboration that is transparent, inclusive, and internationally aligned.

A central focus was the R and D pipeline, which integrates research with market deployment by inviting industry participation from the earliest stages and maintaining continuous feedback loops. The presentation highlighted the Incheon Innovation Cluster and its emphasis on ICT-enabled environmental technologies, a defined base of small and medium enterprises, and new industrial zones, as well as INU's all-in-one commercialization platform that shortens the path from academic research to deployable products.

The broader INNOPOLIS network was described as providing policy and place-based support across multiple Korean cities to advance technology transfer, startup growth, and regional development. International partnerships featured prominently, including the Korea Central Asia.

Science and Technology Cooperation Center and the Korea International Cooperation Agency (KOICA) climate and environment training program, which together demonstrate how Korean science parks act as knowledge diplomacy platforms supporting climate resilience, environmental monitoring technologies, and low-carbon industrial strategies in partner economies.

The session concluded by expanding the traditional triple helix of academia, industry, and government toward a practical quadruple helix that also engages global partners and civil society, and by outlining collaboration pathways such as pilot projects in ICT and environmental technology with Incheon-based SMEs, university and industry co-development using INU facilities and laboratories, cross-border programs through the Korea Central Asia center for joint research and market entry, capacity building via INU and KOICA training tracks, and participation in showcase and matchmaking events like IIC Confex and I.NERGY for pitching, demonstrations, and partner engagement.

SESSION TWO

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ENABLING ESG-DRIVEN GROWTH: GOVERNANCE MODELS SUPPORTING SCIENCE PARKS AND STARTUPS

Mr. Peter Mok is a seasoned innovation leader with more than three decades of experience spanning startup incubation, technology commercialization, and corporate innovation. As the General Manager of the Qianhai Shenzhen-Hong Kong Youth Innovation and Entrepreneur Hub (Ehub), he plays a pivotal role in fostering cross-border entrepreneurship and ESG-aligned growth within the Greater Bay Area. His extensive background at the Hong Kong Science and Technology Parks Corporation (HKSTP) where he led strategic partnerships, incubation, and acceleration programs, has positioned him at the forefront of developing integrated innovation ecosystems between Hong Kong, Shenzhen, and the wider region. Mr. Mok's experience in venture capital, startup acceleration, and policy-industry collaboration provides a strong foundation for exploring governance models that enable science parks and startups to pursue sustainable, ESG-driven growth.

SUMMARY

Mr. Peter Mok showed how Qianhai EHub converts China's ESG agenda into a concrete soft-landing and scale path for technology companies.

He outlined four momentum areas for 2024 to 2025: deeper dual-carbon action, faster ESG disclosure, stronger green finance, and tighter corporate governance. The roadmap is anchored by peak emissions by 2030 and carbon neutrality by 2060, with Hong Kong aiming for 2050. Delivery priorities include rapid new-energy build-out, a grid designed for high renewable penetration, regulatory streamlining, and fiscal support, under a combined wind and solar capacity goal above 1.2 billion kW by 2030. The Greater Bay Area (GBA) was positioned as the scale engine: a 9+2 corridor of about 87 million people over roughly 56,000 square kilometers and one of the world's top tech clusters spanning Shenzhen, Hong Kong, and Guangzhou. Shenzhen already requires ESG reporting for major financial institutions and is expanding disclosure across key state enterprises and listed firms in priority sectors, linking governance with capital access. Qianhai was presented as the practical entry point that turns policy into operating advantages. The pilot zone has expanded significantly, reported measurable emissions reductions from new green buildings since a 2020 baseline, and posted strong figures in GDP, fixed-asset investment, trade, and utilized foreign investment. Cross-border tools include channels for inbound and outbound capital, Hong Kong-aligned tax arrangements, and dual city dual court options that allow common-law contracting with litigation heard in Shenzhen. EHub translates this environment into founder-facing services. The 1510 model offers three years of rent-free incubation or acceleration, requiring only a service fee as low as 1 RMB per square meter per month. It includes a 500 million RMB investment fund, 10 categories of innovative resources, and 100,000 square meters of new office and laboratory space. Five focus tracks were highlighted: AI, embodied intelligence and robotics, healthcare, culture and sport tech, and fintech. A pre-IPO bridge is available through the Qianhai Equity Exchange's Shenzhen–Hong Kong joint innovation board, giving private companies a reputation lift and a fundraising channel before a main-board listing.

The session closed with a clear takeaway for partners in Southeast Asia, the Middle East, and Europe: align with GBA disclosure and green-finance rules, use Qianhai's legal and tax setup for cross-border operations, and plug into EHub's space, funding, university links, and listing pipeline to convert ESG-aligned technologies into scaled market deployments. Science parks were framed not only as compliance guides but as institutional intermediaries that turn sustainability into strategic advantage.

SESSION THREE

28TH ASPA ANNUAL CONFERENCE 2025

PUBLIC FUNDING FOR ESG-DRIVEN INNOVATION

Ms. Pitcharee Keeratithakul is a Senior Innovation Developer at the National Innovation Agency (Public Organization) under Thailand's Ministry of Higher Education, Science, Research and Innovation. A graduate of Stanford University with a Master of Science in Environmental and Energy Engineering, she has over nine years of experience in advancing international collaborative projects in biotechnology, renewable energy, and industrial automation. Her work also includes promoting Thailand's startup ecosystem through partnerships with global agencies and developing innovation support mechanisms that strengthen sustainable and inclusive growth.

SUMMARY

Thailand's National Innovation Agency presented its role as the focal conductor of the country's innovation system, built around four levers: Groom, Grant, Growth, Global. Groom develops talent pipelines with universities and programs that move student teams from ideas to ventures. Grant provides a structured ladder of support that lowers commercialization risk, including market validation and testing grants, technical assistance, manufacturing and standards funding, user testing, liquidity support, and recoverable grants for scale-up. Growth operates sector accelerators such as ClimateX for climate and energy, S Impact for social innovation, SpearH for health and wellness, and Space-F for food tech. Global connects founders to investors, markets, consultation, partner networks, Smart Visa fast track, and tax incentives so Thai startups can expand and international partners can land in Thailand.

The ESG focus targeted two priority areas. Circular and Low Carbon Economy funds entrepreneurs who create value from industrial and municipal waste so that the waste becomes feedstock for new products and circular supply chains. Clean Energy supports renewable, bio, and biomass energy, and more efficient energy use in factories and buildings. To make these ambitions real, NIA applies clearly specified instruments with budgets and outcomes for market validation, testing and certification, user trials, and growth finance, including a recoverable grant for longer runway and co-funding with accredited investors. PET Wood illustrated plastic upcycling into marketable products under the circular agenda. A separate solar panel nano coating case from the NANOTEC by Nano Coating Tech Co., Ltd.

pathway showed about a five percent electricity gain with reduced cleaning frequency and lower operational emissions, supported by references to ISO and OECD safety standards that signal readiness for broader commercialization. The overall message was that NIA's Groom, Grant, Growth, and Global pathway gives Thai startups a route from prototype to certified product and offers international partners a practical way to collaborate through Thai leads while advancing the Bio-Circular-Green agenda in Thailand and across APAC.

NIA has moved from conventional research grants to mission-oriented programs that embed ESG criteria from early prototyping through piloting and commercialization. The architecture is multi-tier, with clear instruments and outcomes that carry projects from lab to market. The discussion also acknowledged system challenges such as regulatory complexity, limited ESG measurement capacity among SMEs, and the need for capability building across the ecosystem. The call to action asked partners to utilize NIA's Groom, Grant, Growth, and Global pathway to move solutions from pilot to certified product, match Thai leads with international collaborators for faster market entry, and advance the Bio-Circular-Green agenda with measurable impact in Thailand and across APAC.

SESSION FOUR

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INNOVATION AND TECHNOLOGY IN HONG KONG: GOVERNMENT'S ROLE, FUTURE PATHWAYS AND OPPORTUNITIES

Mr. Parson LAM joined the Administrative Service of the Government of the Hong Kong Special Administrative Region in 2005. He has served in various bureaux and departments including the Efficiency Office, Security Bureau in 2016 and Principal Assistant Secretary of Food and Health Bureau/Environment and Ecology Bureau in 2021 until assuming the current post of Director, Hong Kong Economic and Trade Office, Bangkok, on 12 September 2023.

SUMMARY

Mr Parson Lam highlighted Hong Kong's leading position as a global I&T hub, ranking the fourth in the 2025 IMD World Digital Competitiveness Ranking and topping the charts with the Shenzhen-Hong Kong-Guangzhou innovation cluster as the world's No. 1 in the 2025 Global Innovation Index.

He gave an account on the city's strengths under the "one country, two systems" framework, with its world-class universities, strong intellectual property protection and its status as a leading international financial center.

He also highlighted the Hong Kong SAR Government's I&T policy framework, with a streamlined institutional framework, substantial investment in public-private collaboration, applied research and flagship infrastructures such as the Hong Kong Science Park and Cyberport, etc.

Mr. Lam also outlined Hong Kong's latest initiatives, including the new research institutes in artificial intelligence and life sciences, the InnoHK Research Clusters, a series of programmed promoting commercialization and new industrialization, as well as the Hetao Shenzhen-Hong Kong Science and Technology Innovation Cooperation Zone. Mr Lam appealed to attendees to explore the ample opportunities in the I&T industry in Hong Kong, the world's super-connector and super value-adder.

SESSION FIVE

28TH ASPA ANNUAL CONFERENCE 2025

EMERGING SOLUTIONS TO REAL-WORLD USE CASES


MR. JIGME TASHI NAMGYAL

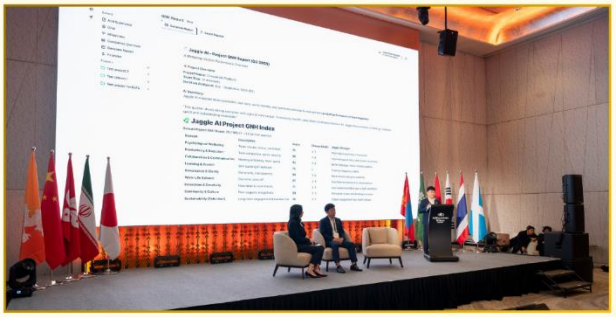

DR. EKASIT PHERMPHOONPHIPHAT

Dr. Ekasit Phermphoonphiphat is the Chief Technology Officer of VEKIN (Thailand) Co., Ltd., where he leads research and development in artificial intelligence (AI), machine learning, and sustainability technology. With a Ph.D. in Information Science from Osaka University, and prior degrees from Chulalongkorn University and Thammasat University, he specializes in climate forecasting models, AI-driven carbon auditing systems, and IoT integration for sustainable business ecosystems. Beyond his corporate leadership, Dr. Ekasit has served as an AI mentor, research consultant, and industry speaker on emerging technologies for environmental innovation. His applied research and technology solutions exemplify how data science and deep learning can accelerate real-world sustainability transitions, linking advanced computing with measurable environmental impact.

Mr. Jigme Tashi Namgyal is the Chief Executive Officer and Co-Founder of Jaggle AI Private Limited, a Bhutan-based artificial intelligence company advancing responsible and human-centered innovation. His work integrates Gross National Happiness (GNH) values into data-driven governance, wellbeing analytics, and organizational performance systems. With international experience across the United States, Japan, South Korea, and Switzerland, Mr. Jigme has led diverse teams in developing AI, fintech, and blockchain solutions that bridge technology and social impact. Recognized as Bhutan's National Student Entrepreneur of the Year and a Global Student Entrepreneur Awards quarterfinalist, he represents a new generation of innovators aligning digital transformation with wellbeing-oriented development. Through his leadership at Jaggle AI, he continues to promote ethical, inclusive, and purpose-driven applications of AI to foster sustainable growth and good governance.

SUMMARY

This session brought two complementary tracks that showed technology moving from slideware to field deployment. First, VEKIN Thailand walked through a production grade ESG measurement stack that turns climate and operational data into verifiable reductions. The platform fuses satellite observation, smart meter and utility feeds, IoT and SCADA telemetry, OCR and APIs, and anchors records on a hybrid blockchain so the audit trail remains trustworthy. Outputs follow accepted formats such as ISO 14067 for product carbon footprint and ISO 14064 for organizational inventories and crediting, with results surfaced in dashboards and registries for



monitoring, reporting, and verification at scale. Two flagship tools were highlighted. AI Carbon Auditor by Satellite accelerates verification while lowering cost and increasing accuracy, positioning exporters for policies like the Carbon Border Adjustment Mechanism. AI Energy Auditor, developed with the Metropolitan Electricity Authority, uses predictive analytics to optimize building level and process energy. Together these systems are designed to make high quality

SESSION FIVE

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ESG measurement feasible for SMEs and local governments, not only large enterprises.

VEKIN also located these tools in a research lineage. Dr. Ekasit outlined prior work on periodic representation in climate data and deep learning models such as ConvLSTM to capture seasonal and nonstationary patterns, explaining how that science informed faster, more accurate forecasters inside the MRV pipeline. The takeaway was not academic novelty but conversion of climate AI into reliable industrial services that reduce time, cost, and uncertainty in carbon accounting.

The second talk, by Mr. Jigme from Jaggle AI, reframed digital transformation through Bhutan's Gross National Happiness philosophy so efficiency gains are balanced with wellbeing, culture, environment, and good governance. He demonstrated a human centered work platform that measures not only outputs but the experience and impact of work. The platform begins with an AI writing and research assistant that drafts product requirements, user stories, and research memos, pulling current information from the web and reading public sentiment. Text can be converted into visual artifacts such as Business Process Model and Notation (BPMN) diagrams and flowcharts for teams that understand better through visuals. Work runs on an integrated board with sprints and milestones, where progress can be tracked manually or automatically. Under the hood, the system learns from tasks, schedules, and throughput to surface early signals of burnout risk, uneven workload, collaboration gaps, and misalignment between activity and purpose.

Managers see both outputs and how work feels, enabling interventions that protect teams while improving delivery. A government case during the COVID period showed the shift from roughly 20 people over 30 days on administrative tasks to a few people over a few hours once automation and analytics were deployed. The closing argument was that the next frontier is aligned intelligence, where technology reflects human values and organizations track happiness and wellbeing alongside performance so that progress is sustainable and inclusive. The goal is to align performance with purpose and to let agencies and enterprises optimize delivery while protecting people and culture.

SESSION SIX

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FROM LOCAL ROOTS TO GLOBAL REACH: THAI-BISPA'S ROLE IN CONNECTING INNOVATION ECOSYSTEMS FOR ESG IMPACT

Ms. Watcharin (Lhing) Witthayaweerasak is an experienced professional in technology and innovation management, with more than 18 years of work advancing Thailand's science and innovation landscape. She currently serves as Director of the Thai Business Incubators and Science Parks Association (Thai-BISPA), where she provides strategic leadership in capacity building and stakeholder collaboration across academic, public, and private sectors. Throughout her career, she has been deeply involved in strengthening innovation ecosystems, promoting technology transfer, and nurturing the growth of innovation-driven enterprises. Her expertise lies in connecting policy frameworks with practical implementation to ensure sustainable and inclusive innovation outcomes.

SUMMARY

The session spotlighted Thailand Business Incubation and Science Park Association (Thai - BISPA) as the national backbone that turns Thailand's BCG Economy into practical innovation and ESG results. Ms. Lhing introduced Thai BISPA as a nonprofit alliance of science parks, incubators, and accelerators and explained how the network has been built for resilience, meaning startups are supported to absorb shocks, adapt quickly, and grow through access to capital, technology adoption, markets, and regulatory guidance.

The landscape today counts more than 80 incubators and accelerators, 17 university based science parks, and 3 research and technology parks, with regional science park communities acting as hubs that connect university labs, talent, testing facilities, and pilot plants to SMEs and founders. Thailand Science Park provides national scale capability, Software Park Thailand nurtures the software industry, and the Eastern Economic Corridor of Innovation brings corridor level momentum under NSTDA.

The operating model is simple and rigorous. Link founders to R&D facilities and expert mentors, connect them to buyers and supply chains that value ESG, shorten the path from prototype to paid pilot, and open global channels once products are validated.

Three cases grounded the story. Biocircuit's bio electro chemical system for industrial wastewater shows how deep tech can deliver clean, reliable, and affordable treatment in one integrated platform. A climate smart cattle feed created with cocoa extract reduces methane while improving animal growth and gives tropical farmers an immediate path to measurable climate gains. Ricult's digital finance and farm data platform serves hundreds of thousands of smallholders across two countries, improving cash flow and decision making with analytics and AI. The call to action was clear. Use the Thai - BISPA collaboration model to move local solutions to global markets across APAC, government policy through BCG, networked infrastructure through Thai-BISPA, and resilient startups delivering measurable ESG impact. Partners are invited to use this collaboration model to take local solutions to global markets.

SESSION SEVEN

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SOFT LANDING PROGRAM: HOW SCIENCE PARKS CAN ATTRACT GLOBAL STARTUPS

Mr. Tang Hao is a distinguished innovation strategist and global connector in the science park and startup ecosystem. He currently serves as Managing Director of Jiangsu Tuspark, one of China's leading national-level innovation hubs and accelerators, and also represents the International Association of Science Parks and Areas of Innovation (IASP) in Jiangsu Province. With dual MBA degrees from the University of Missouri and Nanjing University, and professional experience spanning Philips (Netherlands), Indra (Spain), and IBM (USA), Mr. Tang brings a unique international perspective to technology transfer and ecosystem development. His leadership has been pivotal in building bridges between China and global innovation communities through initiatives such as the Soft Landing Program (SLP), which supports international startups entering the Chinese market. Known for his cross-border vision and commitment to sustainable innovation, Mr. Tang continues to promote global collaboration, knowledge exchange, and ESG-aligned growth through the Tuspark network.

SUMMARY The session addressed and explored strategies and models for science and technology parks to attract and support global startups within innovation ecosystems. The presentation began with an overview of TusHoldings, China's leading technology services enterprise, which has developed an extensive innovation network of over 300 incubators and science parks worldwide, managing assets exceeding 200 billion yuan. Its multi-dimensional model integrates technology, industry, and finance, creating clusters in key emerging sectors such as environmental protection, clean energy, healthcare, digital economy, and new materials.

Additionally, the addressing of the outlined major global trends shaping startup ecosystems, particularly the acceleration of technology-driven innovation in AI, biotechnology, and clean energy, and identified the top five startup needs: industrial resource matching, policy support, talent accessibility, infrastructure, and cost efficiency.

TusHoldings presented five strategic pillars for science parks to attract startups globally: (1) building vertical industrial ecosystems, (2) developing customized policy support, (3) establishing global talent service systems, (4) investing in intelligent infrastructure, and (5) strengthening international branding. Benchmark cases from Singapore's One-North, Australia's Brisbane Technology Park, and Suzhou Industrial Park demonstrated how these approaches can drive cross-border innovation and investment.

A key highlight was TusHoldings' Sustainable Development Goals (SDG) Plan, designed to help overseas technology enterprises enter the Chinese market through "soft landing" programs combining business empowerment, cultural immersion, and one-on-one matching with investors and partners. Tang Hao emphasized that attracting global startups requires a strategic blend of support mechanisms. This includes hard support, such as robust industry foundations, enabling policies, and advanced infrastructure soft services, like access to skilled talent and strong branding; and local adaptation, which involves leveraging regional strengths to foster global connectivity. To guide science and technology parks in this effort, he recommended a focused path: "Take vertical breakthroughs, offer targeted services, and build cross-border linkages." This approach positions innovation ecosystems to meet the evolving needs of startups and drive sustainable international collaboration.

SESSION EIGHT

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INCENTIVIZING ESG-ALIGNED INVESTMENT: BOARD OF INVESTMENT THAILAND (BOI)'S POLICY & STRATEGIC DIRECTION

Ms. Suphanaree Pho-Ong is an Investment Promotion Officer (Professional Level) at the Investment Strategy and Policy Division, Thailand Board of Investment (BOI), specializing in innovation and digital industry policy development. She has extensive experience in evaluating investment projects in the digital and startup sectors, supported by in-depth industry and market analysis.

Through her role, she has developed a strong understanding of how innovation policies can address societal challenges and enhance Thailand's competitiveness. The BOI, operating under the Office of the Prime Minister, serves as Thailand's principal agency for promoting and facilitating investment, offering incentives and policy support to foster industrial development, technology transfer, and sustainable innovation.

SUMMARY

THIS session provided an in-depth overview of the global biotechnology landscape and its integration into Thailand's Bio-Circular-Green (BCG) economic model. It began by highlighting global biotechnology trends, including the rise of artificial intelligence, big data, gene editing, synthetic biology, and biomanufacturing, each driving innovation across medical, agricultural, and industrial sectors. These technological shifts have accelerated bioproduct development and created opportunities for sustainable industries worldwide.

Focusing on Thailand, the presentation emphasized the nation's strong biodiversity as a strategic asset supporting the BCG model. With over 15,000 plant species and rich marine and terrestrial ecosystems, Thailand is positioned as one of the most biologically diverse regions in the world. Biotechnology plays a vital role in transforming this natural wealth into economic value through applications in biochemicals, biofuels, bioplastics, and biopharmaceuticals. The sector is further integrated across Thailand's supply chain from

agricultural biomass and primary industries to advanced bio-refineries, enabling higher-value production and circular resource use. BOI outlined a comprehensive package of tax and non-tax incentives designed to promote sustainable and ESG-aligned investment. These include corporate income tax exemptions of up to 13 years, import duty exemptions for machinery and R&D materials, and full foreign ownership rights. The five-year BOI strategy (2023–2027) aims to position Thailand as an international business hub, accelerate industrial transformation, and strengthen innovation-driven growth under the BCG framework.

Lastly, the session showcased Thailand's supportive ecosystem for biotechnology investors, anchored by collaboration among NSTDA, BIOTEC, and national innovation networks. Together, these institutions provide research, technology transfer, and commercialization support, ensuring Thailand remains a competitive destination for global biotech investment and sustainable development.

PANEL DISCUSSION

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EXPLORING COLLABORATION OPPORTUNITIES IN ASIA'S 7 KEY TARGET TECHNOLOGIES


ASST. PROF. DR. PAPHAKORN PITAYACHAVAL


ASSOC. PROF. DR. PITIWAT WATTANACHAI


DR. CHAI WUTIWIWATCHAI


DR. VORASAN SOBHON

Assoc. Prof. Dr. Pitiwat Wattanachai is the Director of the Science and Technology Park, Chiang Mai University (STeP CMU). He holds a Doctor of Engineering in International Development Engineering from the Tokyo Institute of Technology, Japan, and has extensive experience in innovation management and civil engineering. He has been instrumental in developing Northern Thailand's Regional Science Park (RSP North) as a key platform linking academia, industry, and government to drive regional innovation and economic growth.

Asst. Prof. Dr. Paphakorn Pitayachaval is the Director of the Northeastern Regional Science Park 2, Suranaree University of Technology. With a Ph.D. in Design and Manufacturing Engineering from the Asian Institute of Technology, she has over two decades of experience in engineering design and innovation management. Her leadership has strengthened regional science and technology infrastructure and fostered collaboration between universities and local industries in Thailand's Northeastern Economic Corridor.

Dr. Vorasan Sobhon serves as Deputy Director of the Prince of Songkla University Science Park, where he leads innovation management and technology transfer connecting academic research with industrial application. With a background in biotechnology and environmental sciences, he has over 20 years of experience promoting regional innovation and entrepreneurship in Southern Thailand and advancing technology commercialization.

Dr. Chai Wutiwiwatchai is the Executive Director of the National Electronics and Computer Technology Center (NECTEC) under the National Science and Technology Development Agency (NSTDA). He holds a Ph.D. in Computer Science and Engineering from the Tokyo Institute of Technology and is recognized for his expertise in digital signal processing and artificial intelligence. Dr. Chai has led national and international collaborations in language and speech processing and contributes to shaping Thailand's AI and digital governance policies.

AI AND DIGITAL TECHNOLOGY | MICROELECTRONICS AND SENSORS | CREATIVE DIGITAL | OLEOCHEMICALS
BIOREFINERY AND BIOTECHNOLOGY | DRONES AND SMART ELECTRONICS | EXTRACTIONS AND PLASMA TECHNOLOGY

PANEL DISCUSSION

The session opened with an overview of Thailand's science park architecture, framed as a coordinated national system. Assoc. Prof. Dr. Pitiwat explained how Thailand expanded from its first science park to a network of 44 university based parks, supported by cabinet approval in 2013. These parks act as regional hubs that embed science, technology and innovation into provincial development. He outlined a demand side model that links university research with industry and community needs, starting from small startup pilots and scaling to larger enterprises, with outcomes tracked through 3 and 5 year growth analysis, resource mapping, GDP contribution, investment attraction and higher skilled employment.

Assoc. Prof. Dr. Paphakorn then illustrated how this works in practice through the Northeastern Economic Corridor, which operates two regional parks in Khon Kaen and Nakhon Ratchasima within Suranaree University of Technology. She highlighted two enabling platforms for the corridor: bio refinery, and drone or smart electronics for agriculture. Through collaboration among researchers, SMEs, local governments and international partners, the corridor is converting lab results into tangible products such as prebiotic energy drinks, bio based cosmetics, bio fertilizers, bioplastic and bio packaging prototypes, and smart farming drones. She acknowledged that technology transfer is often seen as difficult but emphasized that the network is addressing this through joint development, shared pilot plants and open facilities, and invited collaboration from other Thai regions and foreign partners interested in agriculture, biotechnology and food security.

Bringing in the southern perspective, Dr. Vorasan stressed that contacting any one park effectively connects a partner to the entire 44 park network. The southern network consists of ten university based parks focused on food and agriculture, health and wellness, and cultural and creative industries, and is positioning itself as a leader in oleochemical technology. By converting palm oil into high value chemical ingredients for cosmetics, food and sustainable materials, and by following RSPO standards for environmental and social responsibility, the south is building an end-to-end biochemical corridor aligning farmers and industries. He illustrated cross border cooperation through work with Malaysian companies and agencies, including a Malaysia Showcase in September that brought Thai wellness and halal businesses to meet partners, learn market requirements and understand halal and export regulations. The message was that collaboration covers both technological capability and cultural understanding.

Representing the central corridor and the national digital layer, Dr. Chai described how Thailand Science Park, National Electronics and Computer Technology Center (NECTEC) and the National Science and Technology Development Agency (NSTDA) drive adoption of AI, microelectronics and sensors across priority industries that include electronics and electrical systems, agriculture and food. He outlined a strategic plan with goals in smart agriculture, high value manufacturing, quality of life, technology driven learning and new value creation models, and he underscored that these are not abstract plans. The smart city service platform already allows citizens to request public services through digital channels and is in use by many thousands of agencies and more than a million citizens, with a high proportion of cases resolved. Smart farming solutions, built on national data platforms and delivered with the help of more than forty entrepreneurs, now operate in thousands of farms. The KidBright microcontroller program has placed more than two hundred thousand boards into schools, giving students hands-on coding and electronics. These examples show how digital infrastructure, when coupled with regional strengths, becomes a scaling mechanism for the entire network.

In closing, the panelists converged on a clear invitation. Thailand’s science parks operate as one connected engine, with regional specialization, shared pilot plants and facilities, and national digital platforms. The south is building ASEAN facing biochemical value chains with Malaysia, the northeast is industrializing bio refinery and smart agriculture tools, the central corridor is wiring AI and sensors into cities, farms and schools, and the north contributes capabilities such as extraction technologies. The ecosystem is not waiting for plans to mature, it is running programs, producing products and opening doors for co development, co investment, talent exchange and regulatory readiness. Partners who enter through any park gain access to all 44, along with a map of target industries and technologies, measurable outcomes and a shared commitment to move beyond theory into inclusive growth and commercialization through ASPA.

CLOSING CEREMONY

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APPRECIATION SPEECH

Good afternoon,

Ladies and gentlemen!

We're already at the end of this great annual conference. I believe all of you have enjoyed this annual conference entitled "The Role of Science and Technology Parks in Facilitating Corporates on the ESG Journey." I think we had wonderful keynote speech, session presentations and panel discussion. I also think this conference was well organized by Thailand Science Park in collaboration with the Regional Science Parks, The National Science and Technology Development Agency (NSTDA), and the Thai Business Incubators and Science Parks Association (THAI-BISPA).

On behalf of ASPA members I appreciate all members of the hosts and organizers: Thailand Science Park, Regional Science Park Thailand, NSTDA and THAI- BISPA. I also appreciate all participating members.

On Monday, November 3, we had ASPA board of directors meeting. One important decision was made at the meeting. The Board of directors decided the host organization for the 30th ASPA Annual Conference in 2027. The 30th ASPA Annual Conference will be hosted by Danang Specific Economic Zones Authority, Vietnam. Congratulations to Danang Specific Economic Zones Authority. I hope everyone enjoy technical and cultural trip tomorrow.

I look forward to seeing all of you again at the 29th ASPA Annual Conference in Saudi Arabia which will be hosted by King Abdullah University of Science and Technology (KAUST) Research and Technology Park next year.

Thank you.
Dr. Kwon Sun Kook
Secretary-General, Asian Science Park Association

CLOSING CEREMONY

28TH ASPA ANNUAL CONFERENCE 2025

THE ASPA Annual Conference concluded with a heartfelt closing address by **Dr. Kwon Sun Kook**, Secretary-General of ASPA. He expressed gratitude to all participants and organizers. The 30th ASPA Annual Conference will be hosted by the Danang Specific Economic Zones Authority, Vietnam in 2027. Miss Reem Philby, Head of the King Abdullah University of Science and Technology (KAUST), Research and Technology Park, delivered a welcoming speech on behalf of the 29th ASPA Annual Conference host.

ASPA FINALISTS

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THE ASPA Awards honor outstanding SMEs demonstrating exceptional management and technological innovation, with the aim of promoting strategic growth and knowledge exchange across Asian Science and Technology Parks (STPs). Winners gain exposure through presentations at the ASPA Annual Conference and features in the ASPA Webzine, along with one year of complimentary ASPA membership and exclusive access to ASPA Business Matching Events across Asia. This year, the ASPA Award Four Finalists were Paya Sanat Sama Company, Mediden Co., Ltd., Greenyn Biotechnology Co., Ltd., and Nano Coating Tech Co., Ltd. Congratulations to **Greenyn Biotechnology Co., Ltd.**, recipient of the Grand Prize, and to Paya Sanat Sama Company, Mediden Co., Ltd., and Nano Coating Tech Co., Ltd., recognized as Excellent Prize Winners for their inspiring contributions.

GREENYN BIOTECHNOLOGY

Country: Taiwan
From Central Taiwan Science Park
Website: https://www.greenynbio.com/en/

PAYA SANAT SAMA

Country: Iran
From Isfahan Science & Technology Town
Website: https://payasanat.ir/

MEDIDEN

Country: South Korea
From Gwangju Technopark
Website: https://www.mediden.kr/

NANO COATING TECH

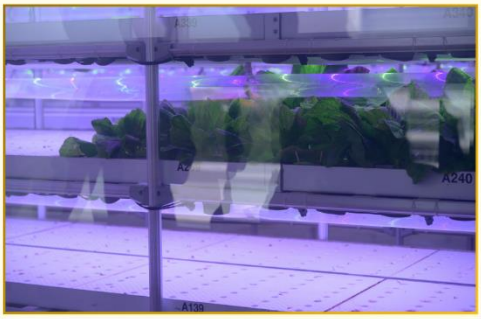
Country: Thailand
From Thailand Science Park
Website: https://www.nanocoatingtech.co.th/

GALA DINNER

28TH ASPA ANNUAL CONFERENCE 2025

TECHNICAL VISITS

28TH ASPA ANNUAL CONFERENCE 2025



As part of ASPA 2025, participants joined curated technical tours showcasing Thailand's innovation infrastructure across three key domains: food and agriculture, environmental biotechnology, and digital-material innovation in Thailand Science Park (TSP). Before embarking on the technical tours, participants gathered for an overview session introducing TSP, the country's first and largest science and technology park. These visits offered firsthand insights into how research is translated into practical solutions that support national development and global collaboration.

ROUTE A: FOOD & AGRICULTURE TECHNOLOGY

- **BIOTEC Bioprocessing Facility (BBF)** – A pilot plant providing end-to-end R&D services for microbial-based production, from fermentation to prototype and product testing, all following international quality standards.
- **NPV Lab (Biotec Pilot Plant)** – A semi-industrial facility producing biological pest control viruses (NPV) for safer, more sustainable agriculture.
- **AQUA Culture Biotec Pilot Plant** – Conducts applied research on aquatic disease control, vaccine development, and sustainable aquaculture systems.

TECHNICAL VISITS

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ROUTE B: ENVIRONMENTAL & BIOTECHNOLOGY

- **National Biobank of Thailand (NBT)** – Conserves and develops Thailand's genetic and microbial resources, supporting national research and bioeconomy development.
- **Thailand Bioresource Research Center (TBRC) –** A central hub for managing microbial and biological materials, enabling research and industrial applications.
- **Plant Factory** – A 910 m² closed-system facility using LED-controlled light spectra and precise environmental settings for pesticide-free, year-round cultivation.

ROUTE C: DIGITAL & MATERIAL INNOVATION

- **Magik Growth & Medical Product Innovation Research Team –** Magik Growth Series: Smart agricultural materials that use light management to enhance plant growth and reduce pest activity.
- **Medical Product Innovation:** Thai-developed medical technologies including M-Bone synthetic bone grafts, anatomical locking plates, and hybrid digital dentures designed for precision, speed, and accessibility.
- **NSTDA Supercomputer Center (ThaiSC) –** The national hub for high-performance computing, supporting AI, bioinformatics, climate modeling, and data-intensive research across multiple scientific domains.

CULTURAL TOURS

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As a closing highlight of the 28th ASPA Annual Conference, delegates were invited to unwind and reconnect through a curated cultural wellness experience at Wat Pho, one of Thailand's most revered landmarks and the birthplace of traditional Thai massage. The tour began with a scenic transfer from Thailand Science Park to Wat Pho, where participants engaged in two immersive activities:

- Thai Herbal Inhaler (Ya Dom) Workshop: A hands-on session crafting personalized herbal inhalers using traditional Thai ingredients, promoting respiratory wellness and mental clarity.

- Traditional Thai Head & Shoulder Massage: A rejuvenating treatment rooted in centuries-old techniques, offering relaxation and stress relief after an intensive week of conference sessions.

Guided by local experts, the experience blended history, architecture, and wellness, allowing delegates to explore the temple grounds, reflect in serene surroundings, and deepen cross-cultural connections in a relaxed setting











MEET OUR PARTNERS

28TH ASPA ANNUAL CONFERENCE 2025

28th ASPA Annual Conference 2025 was made possible through the collaboration of key partners who share a commitment to advancing innovation and regional development. Their support contributed to the success of the conference. We extend our sincere appreciation to all partners for their continued cooperation and shared vision.

JDC 제주국제자유도시개발센터 Jeju Free International City Development Center	**Jeju Free International City Development Center (JDC)**
NIA สำนักงานนวัตกรรมแห่งชาติ	**NATIONAL INNOVATION AGENCY (NIA)**
วช. NRCT	**National Research Council of Thailand (NRCT)**
nxpo Office of National Higher Education Science Research and Innovation Policy Council	**Office of National Higher Education Science Research and Innovation Policy Council (NXPO)**
PMU-B	**Program Management Unit for Human Resources and Institutional Development, Research and Innovation (PMU-B)**
Thai BISPA	**Thai Business Incubators and Science Parks Association (Thai-BISPA)**
RSP Regional Science Park Thailand	**Regional Science Parks (RSPs)**
วว.TISTR	**Thailand Institute of Scientific and Technological Research (TISTR)**

28th ASPA
Annual Conference 2025

Thank You Message

Dear Colleagues and Friends,

As Director of Thailand Science Park (TSP) and Executive Vice President of the National Science and Technology Development Agency (NSTDA), I would like to express my heartfelt gratitude to all of you for being part of the 28th ASPA Annual Conference 2025 in Bangkok, Thailand during 3-6 November 2025.

Your active participation, insightful discussions, and enthusiasm over the past four inspiring days have made this conference truly remarkable. ASPA 2025 marks not only a milestone event but also a new beginning, a shared starting point for all of us working in science parks, innovation canter, and startup ecosystems across Asia and beyond to strengthen collaboration and accelerate the growth of technology-based businesses.

It was wonderful to witness genuine curiosity, open exchange, and the formation of new partnerships and friendships throughout the Conference. TSP stands ready to help connect and foster future collaborations through the CONNEX Platform (connex@nstda.or.th), linking partners in Thailand and abroad for sustainable innovation and growth.

Thank you once again for your presence, engagement, and trust. I look forward to staying connected and working with you all towards our common vision of a thriving science and technology ecosystem.

Sincerely yours,
Dr. Chularat Tanprasert
Executive Vice President of National Science and Technology Development Agency
Director of Thailand Science Park