



Symposium on Accelerating Science, Technology, and Circular Innovation in Southeast Asia

September 5-7, 2023

Park Hyatt Hotel Jakarta, Indonesia

As a strong, reliable, and durable partner of ASEAN, the United States supports initiatives that promote cooperation in science and technology and foster sustainable economic growth. The U.S.-ASEAN Smart Cities Partnership (USASCP), Arizona State University, and the Rochester Institute of Technology, are collaborating to host the Symposium on Accelerating Science, Technology, and Circular Innovation in Southeast Asia.

The Symposium is structured in three mutually reinforcing tracks: smart sustainable cities, cooperation in science, technology, and innovation, and circular economy and entrepreneurship. It will bring together public and private sector actors involved in programming across multiple disciplines and urban sectors.

Tuesday, September 5, 2023



The first day of the symposium will feature parallel programs by the U.S.-ASEAN Smart Cities Partnership (USASCP), and Arizona State University's US-ASEAN Science Technology and Innovation Cooperation (STIC)

U.S.-ASEAN Smart Cities Partnership

8:00-8:30

Ballroom 1 & 2

Check-In

8:30-9:00

Ballroom 1 & 2

Opening Remarks: U.S. Embassy in Jakarta

Michael F. Kleine, Deputy Chief of Mission

- 9:00-10:00** **Climate Finance: Smart Cities Business Innovation Fund**
Ballroom 1 & 2 *Awardees will present innovative low-carbon products and services*
- 10:00-10:30** **Coffee/Tea Break**
- 10:30-12:00** **Green Buildings: Lifecycle Assessment and Net-Zero Innovation (virtual)**
Ballroom 1 & 2 *Presented by Dr. Weimin Wang, University of North Carolina – Charlotte*
- 12:00-13:30** **Joint Lunch** (90 minutes)
- 13:30-15:00** **Integrated Urban Services: Pilot Projects and Peer Learning**
Ballroom 1 & 2 *Public authorities from Iskandar, Malaysia and Cagayan de Oro, Philippines, will present their agri-tech pilot projects to advance food security together with experts from the National Renewable Energy Laboratory (NREL) and Regenerative Impact Ventures (RIV)*
- 15:00-15:30** **Coffee/Tea Break**
- 15:30-16:00** **Smart Mobility in Jakarta and ASEAN**
Ballroom 1 & 2 *Presented by Mr. Roshan Desai, U.S. Department of Transportation
Mr. Juan Intan, Jakarta Smart City Administration*
- 16:00-17:00** **Research/Innovation: U.S. National Science Foundation Green Garden Alleys: Makassar Pilot Project**
Ballroom 1 & 2 *Presented by Professor M. Donny Koerniawan, Institut Teknologi Bandung*
- 18:00-20:00** **Joint Welcome Reception**
Observatory *Opening remarks from Daniel Kritenbrink, Assistant Secretary, Bureau of East Asian and Pacific Affairs, U.S. Department of State*



U.S.-ASEAN Science, Technology, and Innovation Cooperation

08:00-8:30

Check-In

Residence 3

The Entrepreneurship and Innovation (E&I) participants will be asked to gather in the waiting lobby (Residence 3). The Science and Technology (S&T) participants are invited to attend the Smart Cities Conference which will be running in parallel to the STIC pitch competition.

08:30-12:00

STIC Startup Pitch Competition Round 1

Residence 1&2

The group will be split into 2 subgroups and will be assigned to a pitch room. Each participant will be called one by one from the waiting lobby to their assigned pitching room, where they will deliver a 5-minute pitch to a panel of 3 judges. There will be 5 minutes for questions from judges, who will score the participant's pitch using a standard rubric. The top 4 ventures from each room will be selected to advance to the Final Round. Waiting Lobby: Residence 3

12:00-1:30

Joint Lunch (90-minutes)

Ballroom 1 & 2

During this time, judges will deliberate and select the top 4 pitches from each room to advance to the final round.

13:30-15:00

STIC Pitch Competition Round 2

Residence 3

The top 8 ventures that were selected from the parallel pitch competition will each get 10 minutes to deliver their final pitches and 5 minutes for Q&A before a panel of 6 judges. The participants not selected for the final round will also be in attendance during the final pitches and can ask questions.

15:00-18:00

STIC Research and Publishing Poster Showcase

Lobby - Ballroom

Thirty five participants from six countries in Southeast Asia were competitively selected to present their proposals for a science and technology research project, aligned with the nine technical academies of STIC. The posters will be evaluated by a committee of subject matter experts to select four projects that will receive \$12,500 USD each in grant funding to jump start their research and publishing projects.



18:00 - 20:00 Joint Welcome Reception
Observatory

Wednesday, September 6, 2023



The second day of the symposium will feature parallel programs by the U.S.-ASEAN Smart Cities Partnership (USASCP), and Arizona State University's US-ASEAN Science Technology and Innovation Cooperation (STIC)

U.S.-ASEAN Science, Technology, and Innovation Cooperation

06:00 – 08:00 Breakfast

Participants from the Science and Technology (S&T) track who are presenting a poster will be asked to set up their poster during this time.

08:00 – 08:30 STIC Check-In and Networking

Attendees are invited to visit the poster session area

08:30 – 09:00 STIC Opening Ceremony and Welcome Remarks

Ballroom 1 & 2

Speaker: TBC, U.S. Department of State

Group Photo

09:00 – 09:30 STIC Program Overview

Ballroom 1 & 2

Speaker: Jose Quiroga, STIC Program Director, ASU

This presentation will provide an overview of the U.S. – ASEAN Science, Technology, and Innovation Cooperation (STIC) Program.

09:30 – 10:00 Keynote: Advancing Science and Technology in

Ballroom 1 & 2

Southeast Asia: Opportunities and Challenges

Speaker: Zurina Moktar, Assistant Director/Head of Science and Technology Division, ASEAN Secretariat

This keynote presentation will explore the dynamic landscape of science and technology in Southeast Asia. The speaker will discuss the boundless opportunities these domains offer for regional advancement, as well as the challenges that underscore the need for innovative solutions. How can



ASEAN shape a path toward a thriving future driven by scientific progress and technological innovation?

10:00 – 10:30 Coffee/Tea Break and Networking

Attendees are invited to visit the poster session area.

10:30 – 12:00 Panel Discussion: Building Resilient and Secure Digital Infrastructure in Southeast Asia

Ballroom 1 & 2

Moderator: **Mr. Arthur Glenn Maal**, Senior ICT Officer, ASEAN Economic Cooperation, ASEAN Secretariat

Panelists:

- **Dr. Hoang Anh Tuan**, Lecturer and Research Manager, Tech and Cybersecurity, Institute for Nontraditional Security (INS) under HSB, VNU, Vietnam (TBC)
- **Mr. Thy Try**, Executive Director, Open Development of Cambodia, Cambodia
- **Mr. Kamarudin bin Abd. Rani**, Under Secretary, Control and Compliance Division, Ministry of Communication and Digital, Malaysia (TBC)

This panel will explore the importance of resilient and secure digital infrastructure in Southeast Asia. Panelists will discuss strategies for strengthening ICT infrastructure, including broadband connectivity, data centers, and cloud services. They can also address the evolving cybersecurity landscape and ways to ensure the robustness and resilience of digital systems against cyber threats.

The panelists and moderator participated in the STIC Cybersecurity Study Tour in Washington DC during March 2023 and will also share their experiences in the program.

12:00 – 13:30 STIC: Lunch and Networking

Ballroom 1 & 2

Attendees are invited to visit the poster showcase area.



13:30 – 15:00 Parallel Workshops

Residence 1 & 2

Attendees can choose to participate in one of two parallel workshops according to their interests.

Room: Residence 1

From Concept to Capital: Essential Insights for the Startup Founder's Journey

Presenter: Christopher Gresham, Technologist and Serial Entrepreneur

This session explores the pivotal stages that drive a startup founder's path to funding success. Delve into the initial phases focusing on customer discovery and achieving product-market fit that lays the foundation for a compelling business proposition. Discover valuable strategies for identifying the best-fit, value-aligned angel and venture capital investors to make your dream a reality. You will leave with an understanding of how to validate your idea, capitalize your business, and practical next steps for your venture.

Room: Residence 2

Publishing a Scientific Research Paper: From Selecting the Right Journal to Dealing with Peer Review.

Presenter: Subagio Effendi, Ph.D., Head of Data and Revenue Potential Subdivision at Direktorat Jenderal Pajak

This workshop guides early career scientists through the journal submission process. It covers strategies for selecting an appropriate journal, understanding the peer review process, writing effective cover letters, addressing reviewer comments, and handling rejection. Participants will gain insights into navigating the publication process and increasing their chances of successful publication.

15:00 – 15:30 Coffee/Tea Break and Networking

15:30 – 16:00 Awards Presentation

Ballroom 1 & 2

Attendees will be invited back to the main room where the winners of the 2023 STIC pitch and research poster competitions will be announced.

16:00 – 16:30 Closing Remarks

Ballroom 1&2



Wednesday, September 6, 2023

U.S. ASEAN Smart Cities Partnership: ASEAN Circular Economy Seminar

14:00-14:15

Residence 3

Opening Remarks

ASEAN Secretariat: Ms. Latifahaida Abdul Latif, Assistant Director of Finance and Sustainability

14:15-14:45

Residence 3

Circular Economy for Smart Sustainable Cities

Dr. V Anbumozhi, Director of Research Strategy and Innovations, Economic Research Institute for ASEAN and East Asia (ERIA)

14:45-15:00

Residence 3

Indonesian Commitments to Smart Cities

Dr. Yudhistira Nugraha, Director of Jakarta Smart City

15:00-15:15

Coffee/Tea Break

15:15-15:30

Residence 3

Promoting Circularity at the Regional and Sub-National Scale

Ms. Helen Santiago Fink, Program Manager, U.S.-ASEAN Smart Cities Partnership

15:30-16:00

Residence 3

Strengthening the Enabling Environment for Circular Economy in ASEAN

Mr. Takuya Nomoto, First Secretary, Embassy of Japan
Mr. Hiroyuki Sato, Vice-Chairman and Chief Engagements and Partnerships Officer, AMITA Holdings Co. Ltd.

16:00-16:15

Residence 3

Identifying Economic Opportunities through Material Flow Analysis

Dr. Eric Williams, Rochester Institute of Technology



16:15-16:45

Residence 3

Panel Discussion: ASEAN Cities Decarbonization and Dematerialization Activities: Market Opportunities and Operational Challenges

Moderator: Helen Santiago Fink, USASCP

Hear from three USASCP Smart Cities Innovation Fund Awardees:

- 5RTECH, a solar panel recycling facility in Da Nang, Vietnam
- PatiHoub, a plastics recycler in Luang Prabang, Laos
- BioPac, a seaweed packaging company in Tangerang, Indonesia

16:45-17:00

Residence 3

Private Sector Commitment to Circular Economy

Mr. Jim Salzano, CEO of Jones & Vining

17:00-17:30

Residence 3

Panel Discussion: Investment and Finance for Circular Entrepreneurship

Moderator: Dr. Clyde Erikur Hull, Rochester Institute of Technology

Panelists:

- U.S. Trade Development Agency

17:30-18:00

Residence 3

Q&A and Discussion

Thursday, September 7, 2023

RIT

Saunders
College of
Business

The third day of the symposium will feature a programs by the Rochester Institute of Technology's Saunder's College of Business on Circular Economy Entrepreneurship

Circular Economy Entrepreneurship

8:00-8:30

Observatory

Event Check-in

8:30-9:00

Observatory

Opening Remarks

Helen Santiago Fink, Program Manager, U.S. Department of State



9:00-9:30

Observatory

**Circular Economy Entrepreneurship Project Launch
Presentation**

Clyde Eiríkur Hull, Professor, Rochester Institute of
Technology

*This presentation introduces the project to promote circular economy in
the ASEAN region through training of trainers of entrepreneurs and
research.*

9:30-10:00

Observatory

**Circular Economy Entrepreneurship Curriculum for
Incubators and Universities and**

Israa Thiab, Visiting Asst. Professor, Rochester Institute of
Technology

*This presentation summarizes the educational curricula being prepared
to support the training of circular economy entrepreneurs.*

10:00-10:30

Coffee/Tea Break

10:30-11:00

Observatory

**Circular Economy Case Study: Electronic - Waste
Opportunities in ASEAN Countries**

Eric Williams, Professor & Shenying Zhang, PhD student,
Rochester Institute of Technology

*This presentation discusses the current state of e-waste in the ASEAN
region, and discusses policies and interventions to improve circularity in
the sector.*

11:00-11:20

Audience Q&A

11:20-12:00

Observatory

Transforming Business to Circularity

Jim Salzano, CEO, Jones & Vining

*Mr. Salzano will discuss how Jones & Vining transitioned from a linear
business to a much more successful circular business under his
leadership.*

12:00-13:30

Lunch

13:30-13:40

Teaching Circular entrepreneurship: a showcase



Observatory

Israa Thiab, Visiting Asst. Professor, Rochester Institute of Technology

Introduction to the workshop

This workshop engages young entrepreneurs over the course of 3.5 hours to teach them how they can innovate products and services which achieve the principles of circular economy. Observers from universities and incubators are welcome to join and engage in this workshop.

13:40-13:50

Observatory

Networking activity

This activity aims to establish initial connections among the participants in the session.

13:50-14:00

Observatory

Brainstorming activity

This activity teaches students to effectively brainstorm within their groups/teams

14:00-15:00

Observatory

Circular economy - definition, principles and strategies

The definition, principles, strategies and business models of circular economy will be presented and explained. The use of circular economy business modeling tools will be explained.

15:00-15:30

Observatory

Coffee/Tea Break

15:30-16:30

Observatory

Breakout Group/ Group work

Teams will break out and work on applying the knowledge they gained during the previous presentation to a business model.

16:30-17:00

Observatory

Show and tell

Each group will present the outcomes of their work for 5 minutes.

17:15-17:10

Observatory

Closing Remarks

Clyde Eiríkur Hull, Professor, Rochester Institute of Technology



About the STIC Program

Sponsored by the U.S. Department of State's Bureau of East Asian and Pacific Affairs Office of Multilateral Affairs (EAP/MLA) and implemented by Arizona State University (ASU), STIC aims to strengthen science, technology, and innovation cooperation between the U.S. and the ASEAN member states. This 3-year program (2022 - 2025) focuses on three major activities:

Science, Technology, and Innovation Policy Study Tour in Washington D.C.

The STIC Study Tour convenes policymakers and technical experts from ASEAN-member states in Washington D.C. to participate in an intensive 1-week program to promote collective action around policy, best practices, and the adoption of shared standards and capacity-building strategies to foster cooperation in science, technology, and innovation in the ASEAN region.

STIC Education Portal

In partnership with Coursera, the STIC Portal provides access to hundreds of upskilling and reskilling courseware developed by top universities in the United States that specifically align with the priority areas identified in the ASEAN Plan of Action on Science, Technology, and Innovation (APASTI 2016-2025). The courses available in the STIC Portal have been carefully curated and grouped into three learning tracks:

- **Science and Technology (S&T) Track**

The S&T Track includes 9 technical academies aligned with the priority areas identified by APASTI 2016-2025. Each year, participants will be invited to submit research concepts and 35 will be competitively selected to present at the annual conference where \$50k will be awarded in research grants.

- **Entrepreneurship and Innovation (E&I) Track**

The E&I Track has curated content to develop skills around ideation, prototyping, financial literacy, and business growth. Each year, 35 participants will be selected to join an online business venture incubator leading to the pitch competition during the annual conference where \$50k will be awarded in seed funding.

- **Industry Professional Credentials (IPC) Track**

The IPC Track includes content from companies like IBM, Google, Meta, and Microsoft. This track provides certification courses on skills that are in high demand such as cloud computing, AI, machine learning, cybersecurity, etc.

STIC Regional Conference

Each year, the program will host a 2-day regional conference with keynote speakers and panel discussions with international subject matter experts, networking opportunities, roundtable discussions, collective projects, and advanced skill-building workshops. The conference will host a research seed grant competition and a business venture creation pitch competition. Annually, \$100,000 will be awarded to 4 research projects and 4 business ventures through a competitive process.



About the U.S.-ASEAN Smart Cities Partnership

The U.S.-ASEAN Smart Cities Partnership (USASCP) is a Department of State initiative that aims to promote sustainable, resilient, and inclusive solutions to advance urban quality of life in Southeast Asian cities. The USASCP works across urban sectors to address local challenges through knowledge-sharing and capacity building, systems modeling and data collection, research and innovation, catalytic financing, and private sector engagement.

- Since 2018, USASCP has committed over \$10 million to over 20+ projects in ASEAN member states to strengthen cities' capacities to improve critical urban services. A focus on climate action, circular economy, and net-zero innovation reinforces ASEAN cities to better address socio-economic and environmental challenges and global trends.
- USASCP engagement strategies include U.S.-ASEAN city partnerships/pairings, U.S.-ASEAN academic pairings, ASEAN targeted pilot cities, ASEAN demand-driven alliances, innovation funding, and regional knowledge sharing.
- USASCP's whole of government approach works with U.S. government agencies, national labs, NGOs, subnational authorities and cities, university institutions, and private sector partners.

About the RIT Circular Entrepreneurship Program

This U.S. Department of State's Bureau of East Asian and Pacific Affairs Office of Multilateral Affairs (EAP/MLA) funded, two-year project, led by two Rochester Institute of Technology (RIT) professors, Clyde Eirikur Hull and Eric Williams, aim to help the Southeast Asian region establish entrepreneurship based on the circular economy (CE). The \$1 million grant will identify ASEAN incubators and other organizations in the region committed to advancing sustainable business development through employing circular economy practices. Through education on circular economy business models and knowledge sharing with local partners, the project aims to both lead the incubation of new CE businesses in cities and communities to address local challenges and spur existing businesses to migrate to circular economy technology and interdisciplinary solutions.

