U.S.-ASEAN Smart Cities Partnership

Promoting sustainable, resilient, and inclusive solutions to advance urban quality of life in Southeast Asian nations

Vientiane Symposium July 2024 <u>Day 1: July 17</u> Helen Santiago Fink | USASCP Program Manager <u>SantiagoFinkH@state.gov</u>





https://www.usascp.org

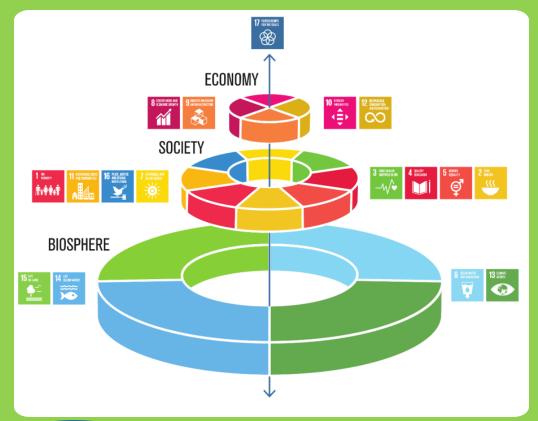
USASCP USASCP Whole of Government Approach

- **\$12+ million portfolio** launched in 2018
- 20+ projects with U.S. government agencies and implementing partners
- Projects address ASEAN urban challenges to improve quality of life through knowledge sharing, innovative industry practices, technical assistance, and peer partnerships across urban sectors
- **Climate Action and Finance:** Provide seed capital and mentoring to catalyze sub-national climate actions through net-zero, innovative solutions for climate mitigation and urban resiliency
- **Green Economic Recovery:** Promote circular economy for resource efficiency and reuse to reinforce local sustainability and resilience; facilitate professional exchanges for circular waste management
- **Private Sector Engagement:** Support reverse trade missions, technical/trade shows, and conferences with the Department of Commerce





Smart Sustainable Cities



Connected/Integrated

Holistic & Equitable

Green/Biophilic

Resource Efficient & Circular

Sustainable & Resilient

USASCP USASCP USASCP USASCP



U.S. Green Buildings Programs



<complex-block>

Green Building Innovation Program: University of North Carolina at Charlotte developed <u>15 course</u> <u>modules</u> it is delivering to ASEAN Partner Universities:

- Gadjah Mada University, Indonesia
- Chulalongkorn University, Thailand
- Ho Chi Minh City University of Technology, Vietnam

U.S.-Singapore Third Country Training Program:

A partnership between the Singapore Ministry of Foreign Affairs and the U.S. Department of State to jointly conduct capacity building courses for Southeast Asian countries to promote sustainable urban development and resiliency and decarbonization in the built environment

Smart Cities Business Innovation Fund 2022 Awardees

Climate finance mechanism supporting sustainable net-zero solutions to urban challenges



Agroecology Garden for the Future Phnom Penh, Cambodia

Establishes urban school gardens and provides ecology education curriculum to promote youth environmental stewardship



A women-led biodegradable seaweed packaging manufacturer that aims to reduce single-use plastic pollution



Patihoub

Luang Prabang, Laos

Shreds, presses, and molds unrecycled plastics into new products for school and construction materials



Greener Wheels Penang, Malaysia

Develops a mobile climate application and 3-D printable hydrologic monitoring/early warning systems for rising sea levels and urban flooding



Kloudtech

Balanga City, The Philippines

Develops a mobile climate application and 3-D printable hydrologic monitoring/early warning systems for rising sea levels and urban flooding



Solar Panel Recycling Project Da Nang, Vietnam

Seeks to improve reuse of panels and recycling of panel components using robotics and technology solutions

Circular Economy Initiatives

U.S.-Singapore Circular Waste Study Tour 2022



- ASEAN Participants
- Location: Singapore & Washington D.C.



Rochester Institute of Technology Circular Entrepreneurship Program



- Develop education and deliver training on circular economy principles and for target sectors (e.g. textiles, e-waste)
- Provide seed funding form sustainable startups
- Establish regional partnerships and networks among universities, business incubators, and accelerators

U.S.-Japan E-Waste Initiative



- Socialize importance of sustainable ewaste management and build local capacities to advance e-waste actions in ASEAN
- Identify electronics repurposing, recycling, and recovery opportunities in ASEAN cities
- Establish multi-sector partnerships and local e-waste ecosystems

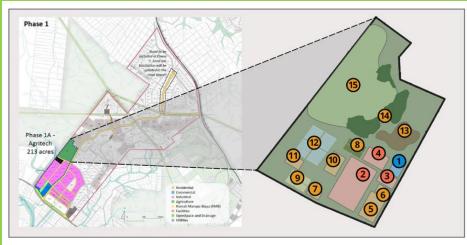
Integrated Urban Services

NREL-Intl-IUS-Program Impact Brochure-FY24-CS-v2.pdf

- Technical assistance to 2 ASEAN city pilot projects to support resilient, circular, and regenerative food, energy-water and waste systems to address food security and community resiliency
- Demonstrate the socioeconomic benefits of integrated systems planning to advance <u>agritech</u>
- Engage stakeholders and build organizational capacity on <u>circular</u> <u>economic approaches and resilient planning models</u>
- Attract private sector participation within project governance, finance, and implementation.



The interconnections between food, energy, and water systems. Illustration by Christopher Schwing, NREL.





Research & Innovation: National Science Foundation Grants



Thank You

Helen Santiago Fink Program Manager SantiagoFinkH@state.gov





