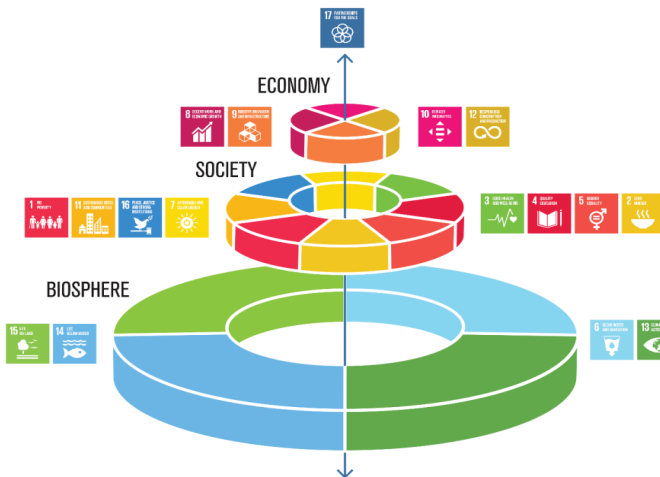


U.S.-ASEAN Smart Cities Partnership (USASCP) is a Department of State initiative that aims to promote **sustainable, resilient, and inclusive solutions** to advance urban quality of life in Southeast Asian cities. The USASCP works across urban sectors to address local challenges through knowledge-sharing 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 enables 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, sub-national authorities and cities, university institutions, and private sector partners.



Water Smart Engagements

- U.S.-ASEAN city pairing model promotes the delivery of essential water services and addresses issues of potable and wastewater management, non-revenue water, water reuse, storm water management, and climate resiliency.
- City partnerships include:
 - Johor Bahru - Washington, D.C.
 - Phuket - Milwaukee, WI
 - Vientiane - Hillsboro, OR
 - Cebu - Miami Dade, FL
 - Ho Chi Minh City - San Francisco, CA



Integrated Urban Services

- The U.S. National Renewable Energy Laboratory (NREL) promotes systems integration in the food, energy, and water sectors to increase resource efficiency and enhance climate resiliency and food security.
- Two pilot projects focused on agri-tech in Cagayan de Oro, Philippines, and Iskandar, Malaysia, will provide prototypes and lessons to be shared across the ASEAN region to advance resource-efficient, regenerative approaches to urban agriculture.



Smart Cities Business Innovation Fund

- The fund finances net-zero and low carbon solutions to urban challenges
- The program includes \$1 million total capitalization
- We received 72 proposals received totaling \$14 million in demand for financing
- The 6 winning proposals included:
 - Sustainable seaweed packaging
 - Product/furniture from re-purposed marine plastics
 - Solar panel recycling facility
 - 3D printed early warning stations
 - Carbon foot printing of corporate fleets
 - Agroecology education and creation of gardens in public schools



Circular Entrepreneurship

- Rochester Institute of Technology (RIT) is conducting an e-waste material flow analysis to identify circular entrepreneurship (CE) opportunities. RIT will develop CE curriculum and partner with incubators and universities to deliver this curriculum throughout the ASEAN region.



Energy Modeling

- USASCP funded the Department of Energy's Pacific Northwest National Laboratory to utilize the Global Change Assessment Model to gauge future demand energy, capacity of the grid to incorporate renewables, and the potential of GHG reductions in Kuala Lumpur and the Bangkok metro area.



Smart Sustainable Transport

- This program employs a U.S.-ASEAN city pairing model to strengthen policy, planning, and technology for smart mobility solutions, such as complete streets, multi-modal options, bus rapid transit, and streamlined payment systems.
- City partnerships include:
 - Jakarta - Los Angeles, CA
 - Johor Bahru - Portland, OR
 - Phnom Penh - Boston, MA
 - Phuket - Las Vegas, NV



Green Buildings Innovation

- The USASCP Partnership with University of North Carolina-Charlotte is developing building innovation education for future architects, city planners, designers, and engineers through capacity building and site visits with participants throughout the ASEAN region.
- Virtual classes will be offered in
 - Life cycle assessment (LCA)
 - Building resiliency
 - Bio-climatic design



Ten Pillars of USASCP Programming

<https://www.usascp.org>



Business Innovation Fund (BIF)

- Climate finance for net-zero urban innovation
- Capitalization of \$1M
- Department of Commerce: International Trade Association
- Phnom Penh, Cambodia
Tangerang, Indonesia
Luang Prabang, Laos
Bataan, Philippines
Da Nang, Vietnam

Business Promotion & Cybersecurity

- Business engagements, reverse trade missions, and networking
- Department of Commerce: International Trade Association
Cherokee Nation Solutions
- ASEAN Region

Circular Waste Management

- Professional Exchange Program
- Department of State/ Bureau of Educational and Cultural Affairs
Center for Liveable Cities (Singapore)
- ASEAN Region

Green Buildings Innovation

- Capacity building and site visits; Building innovation education for future architects, planners, & engineers
- Government of Singapore
University of North Carolina - Charlotte
- ASEAN Region
University Partners
- Yogyakarta, Indonesia
- Bangkok, Thailand
- Ho Chi Minh City, Vietnam

Circular Entrepreneurship

- E-waste material flow analysis, circular entrepreneurship, curriculum development and training, hackathons
- Rochester Institute of Technology
- ASEAN Region

Integrated Urban Services (IUS)

- Systems integration for resource efficiency and reuse in the food, energy, and water sectors
- Department of State/OES
National Renewable Energy Laboratory
- ASEAN Region (Peer Learning) Pilot Cities
- Iskandar, Malaysia
- Cagayan de Oro City, Philippines

Energy Modeling

- Forecasting pathways towards carbon neutrality in cities and energy systems
- Department of State/ Bureau of Energy Resources
Pacific Northwest National Laboratory
- Kuala Lumpur, Malaysia
Bangkok, Thailand

Research & Innovation

- Urban Innovation
- National Science Foundation
U.S.-ASEAN University Partners
- Jakarta, Indonesia
Makassar, Indonesia
Kuala Lumpur, Malaysia
Manila, Philippines
Singapore
Thailand

Smart Sustainable Transport

- Policy, planning, and technology solutions
- Department of Transportation
U.S.-ASEAN City Partners
- Jakarta - Los Angeles, CA
Johor Bahru - Portland, OR
Phnom Penh - Boston, MA
Phuket - Las Vegas, NE

Water Smart Engagements (WiSE)

- Drinking water and wastewater treatment
- Department of State/OES
Global Environment & Technology Foundation
Water Environment Federation
- Cebu - Miami Dade, FL
Ho Chi Minh Ciy - San Francisco, CA
Johor Bahru - Washington D.C.
Phuket - Milwaukee, WI
Vientiene - Hillsboro, OR