





Final Impact Report





- What is Climate Solutions Lab
- 2 Program Outcomes
- Cities's Impact Overview
- 4 Partnership
- Validation and Design Challenge Workshops

- 6 Local Showcase
- Mentoring and Ongoing Support
- Regional Showcase
- Participant's Learning Outcomes





What is the Climate Solutions Lab?

Unique to any other program offering we offer in Impact Hub, the Climate Solutions Lab is a program that will allow cities to identify their climate action agendas and connect them with innovators that can help to address them.

Innovators we look for:

Location of Residence: Based in any of the three (3) participating cities of the program: Jakarta, Kuala Lumpur, and Taipei.

Venture Phase: Mid to growth stage entrepreneurs Focus: SDG focused entrepreneur working on urban climate solutions



Climate Solutions Lab Timeline (UPDATED)

March 2023
Program
Kickoff,
Analyse CRVA

03 July - 11 Aug 2023 Workshop: Validate & Design Challenge Statements

02 Oct - 06 Oct 2023 Application screening and selection

16 Oct 2023 – 13 Nov 2023 Solutions support pre-local showcase 20 Nov 2023 – 26 Feb 2024 Ongoing Technical Support for Each Winner **26 Feb 2024**CSL Regional
Showcase Day



April - May 2023 Establish City Partnerships & Steering Committee 14 Aug - 29 Sep 2023 Outreach / Open Call for Solutions

21 Aug - 10 Nov 2023 Local Showcase Prep 01 Dec - 26 Feb
16 - 24 Nov 2023
Local Showcase Regional
& Winners Showcase Prep
Announced

Program Outcomes

Program Target Highlight from the 3 Cities



25,437

Quality reach through online campaigns (excluding Taipei)



52

quality
applicants/entreprises
received from across
the 3 cities



23

shortlisted entreprises received business and pitch preparation support for the Local Showcase



19

City Partnerships established



4 enterprises & 1 consortium

awarded a \$3,000 cash prize each and on-going tailor-fit technical support

Program Delivery



3

Validation and Design Challenge Workshop Sessions conducted



3

Local Showcase Sessions conducted



1

Regional Showcase Sessions conducted



112

Event attendees for the local showcase and regional showcase

Total number of events/activities held:

- April 6th, 2023, training on how CRVA Data and how to analyze them, by CDP.
- May 16th, 2023, training on impact measurement, by Impact Hub Global.
- Since March 2023, we have hosted 11 on-going monthly meetings between project managers from each local Impact Hub to keep each other updated on the progress, challenges and lesson learns.
- 3 Validation and Design Challenge Workshops hosted by three Impact Hubs:
 - 3rd August 2023 for Taipei
 - o 10th August 2023 for Kuala Lumpur
 - 21st July 2023 for Jakarta
- 3 Local Showcases hosted by the three Impact Hubs:
 - o 16th November 2023 for Taipei
 - o 24th November 2023 for Kuala Lumpur
 - 16th November 2023 for Jakarta
- From 1st December 2023 to 26th February 2024, on-going technical support for the ventures.
- Regional Showcase hosted by the three Impact Hubs and Impact Hub Asia Pacific:
 - o 26th February 2024







Impact in Number: Taipei



Applications

Representative team
At Regional Showcase

Climate Change Experts

5 Competing Teams At City Showcase

Meeting with Taipei City Government

2 Workshops

5 Mentor sessions

17,497 Social Media Reach

2 Key Topics Revealed



How might we Mitigate the threats of climate change through affordable green building materials to change the cultural narratives of "green is expensive." Or providing behavior changing low-carbon transportation and zero-waste products.

How might we disrupt innovative Adaptation measures to tackle climate change? For example, an accessible disaster warning system to make sure no one is left behind; or an affordable and quality emergency kit or education materials to raise public awareness of emergency preparedness.

5 Teams form City Showcase



Homemakers United Foundations
Mitigate



Ridey Mitigate



Green Hope
Mitigate



RiiVERSE

Mitigate



CO2uptake

Mitigate



Meeting



@Department of Economic Development, Taipei City Government



What we have achieved



Integrate environmental concepts from Green Hope into Taipei City Government's Friendly-Shop Platform

Improve presentation skills of participants

Create networking opportunities with climate change experts



作伙來共乘 2023年12月30日 - €

Use reusable tableware during workshops and city showcase

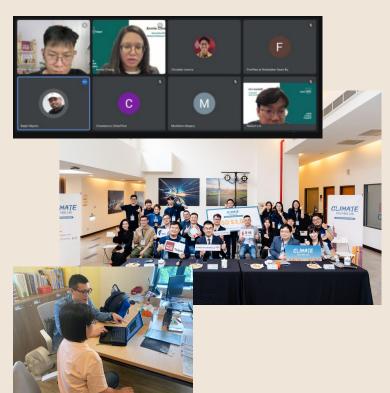
What we have learned CLIMATE



Monthly meetings is a good platform for peer learning.

Use CDP report as a tool to leverage more public resources

This program create opportunities for us and the team to have tighter connection with Taipei city government





Impacts Report Jakarta



34 Applications

Representative team At Regional Showcase

Climate Change Experts

Competing Teams
At City Showcase

Meeting with Jakarta City Government

2 Workshops

5 Mentor sessions

8,003 Social Media Reach

Meeting Jakarta Government

Meeting Jakarta Rusunawa Pesakih Local Government





Meeting Jakarta Government

Meeting Jakarta Government Cooperation Bureau and Climate Advisors



2 Key Topics Revealed



How can Circularity further mitigate the climate crisis through reducing carbon emission cooperating with Urban Development, Transitioning current Jakarta Initiatives smoothly for Government, Private Sectors, and Citizens through: Waste Management, Cycle Assesment, Agriculture, Renewable Energies and more

Realizing the importance of Water resiliency from its Supply to access, raising the urgency of Sinking cities and accessible, affordable, and drinkable water for everyone through innovation and reducing water consumption based emission

17 Teams form City Showcase







MallSampah





























Rusunawa Pesakih Site Visit









Meeting



With Jakarta Government (Cooperation, Development, and Regional Asset Bureau









Coordinate and strengthened Government initiatives in Climate Initiatives and private sector through the workshop and Startup Solutions

Improve Business strategy and pitch skills of participants

CSL through its partners BoA and CDP allow further cooperation with Governments (National and International)



Use reusable tableware during workshops and city showcase fron our ecosystem

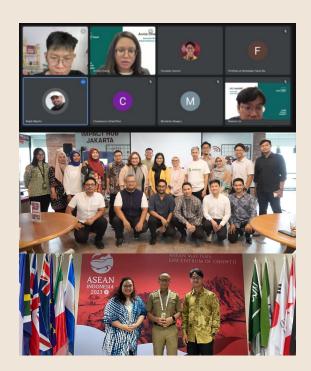
What we have learned CLIMATE



Monthly meetings allows sharing of best practices to learn and develop together

Leveraging CDP local staffs and manager to maximize relations and cooperation

This program create opportunities for us and the team to have tighter connection with Jakarta government





Impact In Number: Kuala Lumpur

12 Number of applicants

23 Organisations connected during the programme

52 Attendees attended the local showcase

2 Needs assessment sessions

Teams competed at the local showcase

3 Pre-event workshops were hosted

32,451

Social media reach through smajor online platforms

6 Outreach partners

Strategic Partnerships

Third Sector Organisations

- NGOs
- Advocacy groups



Private Sector/Academia

- Companies
- GLCs/GLICs
- Investors
- Universities

Multiple partners were mapped and identified as potential stakeholders and community partners to support the implementation of the Climate Solutions Lab in Malaysia.

Partners were invited based on their knowledge, experience and priority focus to climate action initiatives in Malaysia.



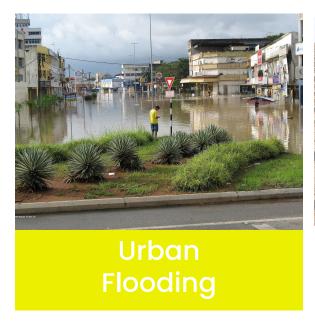
Government Sector

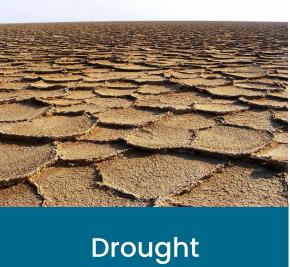
Local councils

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Kuala Lumpur Climate Challenges

During the ideation workshop with key stakeholders, 3 main challenges were identified based on the data submitted via the CDP Climate Risk Vulnerability Assessment by the City of Kuala Lumpur. The 3 climate-related challenges would form the basis of the call for solutions in Kuala Lumpur, Malaysia.







Extreme Temperature

Finalists

4 early stage ventures were selected to present their ideas on stage during the local showcase event.



<u>Umorie</u>

A graphene replacement to traditional batteries, which is cost and energy efficient



Re:Kayu

Recyclable furnitures made from industrial waste



Bina BioX

A mycelium packaging replacement to single use plastic



<u>Mimba</u>

Smart urban farming for livestocks in urban areas.

Partnerships

Catalytic impact from connections to industry and policy



In Jakarta, partnerships with organizations like BofA, CDP, C40, and Bappeda have **enabled teams to engage with key stakeholders, addressing urban challenges and fostering potential collaborations**. This has led to sustainable solutions tailored for Jakarta's unique needs.



In Taipei, the collaboration with the Department of Economic Development has empowered businesses to refine their solutions and find valuable niches. This partnership not only boosts business success but also aiming to contributes to the city's economic and social development.

Validation and Design Challenge Workshops



Jakarta 21st July 2023

The workshop improves understanding of Jakarta Government's priorities and fosters cooperation for greater program impact. It involves diverse stakeholders, aiding in identifying urgent areas such as water resilience and reducing emissions where the private sector can assist.



Taipei 3rd August 2023

The workshop focused on identifying key interests like renewable energy and shared transportation, stressed the importance of adaptation strategies like high-temperature warning systems, and highlighted the need to increase public awareness about power plants and personal carbon footprints.



Kuala Lumpur 10th August 2023

The workshop highlighted three main issues: the fragmentation of climate efforts across sectors, the limited sustainability of existing initiatives, and the slow policy response to urgent urban climate risks, prompting a need for more effective strategies.



The goal of the local showcase aim to get all the shortlisted solutions and innovators from the 3 cities to pitch their solutions in front of the panel of judges.

One winner is chosen from each city (except in Jakarta where they are experimenting with selecting multiple solutions and consortium as winner) to get a cash prize of 3,000 USD and on-going technical support by their local Impact Hub on the topics that they need support on.



Local Showcases



Winner from Taipei: **GreenhopeBCTW**

GreenhopeBCTW, a Blockchain technology firm, offers a platform called "Beautiful City" for trading Carbon Digital data. Users receive a "Green Pass," a carbon passbook, which functions as a public VIP card. Showing the Green Pass at participating stores provides discounts and helps accumulate carbon assets.



Winner from Malaysia: Bina BioX

Bina BioX, a Malaysian biomaterials firm, develops mycelium-based bio-composites to replace plastics and foams. Currently in R&D (TRL 3), their initial products are packaging, acoustic panels, and wall tiles, targeting direct sales to businesses.

Local Showcases



Winner from Jakarta: **AfterOil**

AfterOil supports communities in collecting local biomass to produce Biochar pellets using ASP technology. These pellets are used in EcoGas SmartTubes to generate Carbon-Neutral Synthetic Gas and Renewable Electricity. The business model, inspired by blockchain, creates an EcoGas On-Demand ecosystem.



Winner from Jakarta: Karma Bumi

Karmar Bumi's subscription model connects customers with farmers for monthly vegetable boxes, promoting local agriculture and sustainability. This approach reduces distribution chains by offering weekly deliveries and local pickups, strengthening community ties.



Winner from Jakarta: Rezycology.id & Gamma Waste

Rezycology is a B2B plastic recycling company using a mobile app for traceability and efficient sorting, working with 3,500 waste contributors across 7 stations in Java and Bali to process and supply pressed plastic for recycling.

Gammawaste is a platform dedicated to upcycling plastic waste into innovative, sustainable products for daily use.

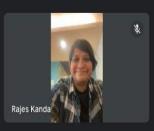
Mentoring and Ongoing Support



The one-on-one mentor meetings and workshops provided targeted professional guidance on core issues, while the Presentation Skill workshop enhanced the structure and effectiveness of the teams' presentations.

Jakarta







Kuala Lumpur





The Regional Showcase of the Climate Solutions Lab program is a premier online event designed to highlight the groundbreaking work in environmental innovation and sustainability.

After 4 months of on-going technical from the three local Impact Hub, this half-day showcase, brought together a diverse group of businesses with innovative solutions that aim to solve some of the climate challenges in the three cities, namely Jakarta, Kuala Lumpur and Taipei.

4 enterprises & 1 consortium

Showcased their innovative climate solutions

35
Event attendees



Regional Showcases







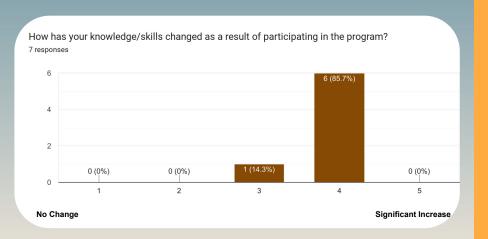






A post-program survey has been conducted to accessed the winning team member's learning outcomes from the Climate Solutions Lab. A total of 6 participants from 2 cities have participated in this survey.

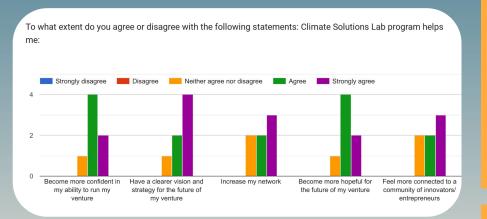
Knowledge and Skills:



The knowledge/skills that have changed the most:

- Navigating government bureaucracy requires patience, strategic thinking, and adherence to procedures.
- Understanding local startups' innovations for climate change, carbon reduction, and nature protection.
- 3. Addressing challenges and improvement strategies for pitching in Kuala Lumpur.
- 4. Developing better pitching skills.
- Insights on structuring pitches, measuring impact clearly, and managing stakeholders, including government bodies.
- 6. Exploring collaboration opportunities with other startups for consortium solutions.

Help and Support:



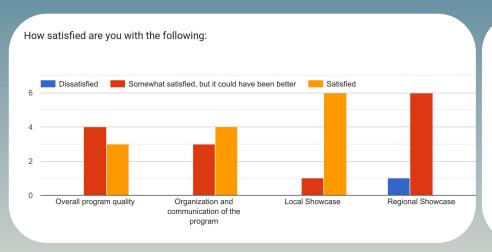
The program help you and/or your team grow:

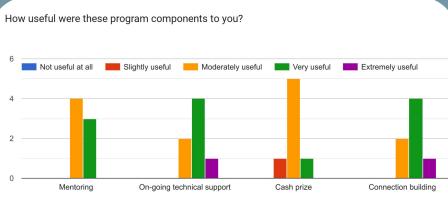
- 1. Maintaining focus, innovation, and persistence.
- 2. Understanding significant public-private investment opportunities for a sustainable future.
- 3. Improved identification and resolution of key challenges.
- 4. Enhanced pitching techniques and structure.
- Broadened business networks and skillset in pitching, communication, and business strategy.
- 6. Opportunities for refining and piloting innovative business models, inspired by successful startups.
- 7. Strengthened government networking and communication.

The funding and the technical support helped:

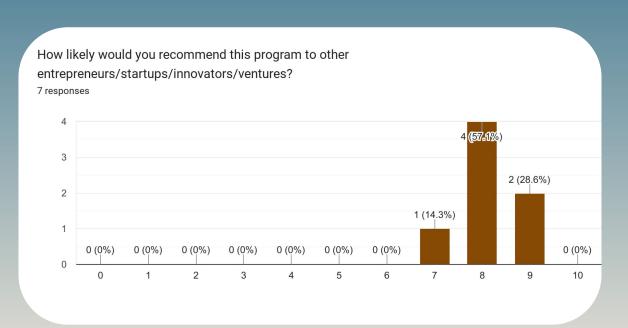
- 1. Benefitted from exceptional technical support.
- 2. Small-scale funding kickstarted our MVP development.
- In-depth technical support provided insights into government workflows in our country.

Usefulness and Satisfaction:





The NPS score is 28.57



Quote from participants:

Thais Lewnegie (Bina BioX)

"CSL has been a life changing for a startup company like us"



Jeffri Ricardo (Karmabumi)

"No matter how big or small the project and the impact, this program has provided us with opportunity to act and start."





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Thanks

