Eclosio

Agroecology Garden for the Future (AG4F) Project

Improve Access of Public School Students in Phnom Penh City to Greenspace and Knowledge on Agroecology and Public Health



The Project

Project Overview

- The AG4F project is funded under the U.S.-ASEAN Smart Cities Partnership (USASCP) program of the US Department of State in collaboration with Cherokee Nation.
- The USASCP is a climate finance mechanism provided to stakeholders to develop and implement sustainable net-zero/low carbon solutions to address urban challenges.
- The AG4F was one among the 6 selected awardees from the 72 applicants in the ASEAN nations in 2022.
- The project budget is 147,000 USD for a duration of 2 years from May 2022 to April 2024.
- The project is currently extended to December 2024.



Project Rationale

- The lack of urban green space (UGS) in Phnom Penh is a growing challenge.
- According to the WHO, every city should provide its citizens with at least 9 square meters of UGS per capita.
- In 2019, Global Green Growth Institute estimated that Phnom Penh city offered only 1.1 square meters of UGS per capita.
- A study by MDPI (2016) showed there was a widespread desire for more public green spaces among youths in Phnom Penh city.

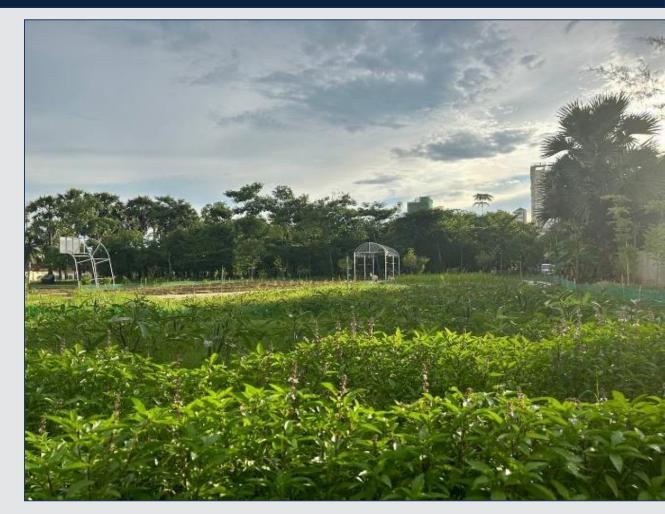


Source: Phnom Penh Post News.



Project Objectives

- Increase access of school students and staff to UGS through the establishment of one agroecology (AE) garden at each school.
- 2. Empower students in acquiring environmental stewardship skills.
- 3. Educate students on nutrition and noncommunicable diseases (NCDs) prevention.
- 4. Promote the adaptation of agroecology garden development at other schools in urban areas.





Components and Activities



AGROECOLOGY

- 1. Transfer knowledge on AE garden establishment and management to teachers and students.
- 2. Create a model AE garden at each school.
- 3. Develop a manual for the establishment and management of AE garden for schools.
- 4. Promote the adaptation of AE gardens by other schools in the urban areas.



PUBLIC HEALTH

- 1. Provide training to school teachers on nutrition and NCDs prevention.
- 2. Support trained teachers to raise public health awareness to students.



Project Stakeholders

	IMPLEMENTING PARTNERS:	RESPONSIBLE COMPONENTS:
Eclesio	Eclosio	Agroecology
LOOPERATION	Louvain Coopération	Public Health
	The Faculty of Agricultural Science (FoAS) of the Royal University of Agriculture (RUA)	Agroecology
IN COLLABORATION WITH:		
Hitereit revers kerkes	Department of School Health (DSH) of the Ministry of Education, Youth and Sports	Public Health
	Department of Preventive Medicine (DPM) of the Ministry of Health (MoH)	Public Health



The Outcomes

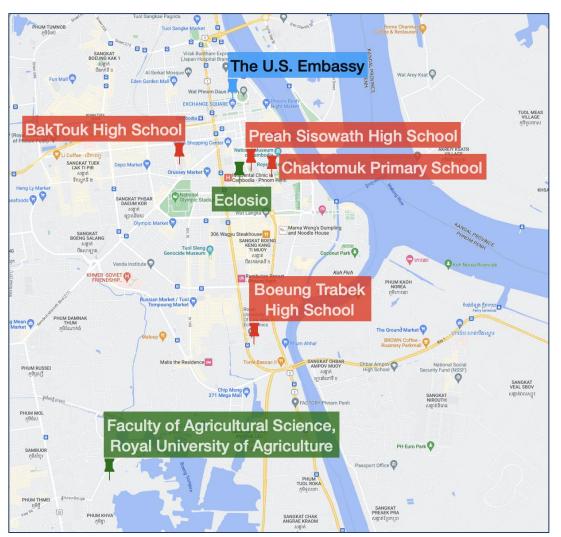
Seeking Collaborations with Public Schools



- 7 schools were visited, and 4 were selected for the project implementation including:
 - 1. Preah Sisowath High School
 - 2. Baktouk High School
 - 3. Boueng Trabek High School
 - 4. Chaktomuk Primary School



Project Locations



Source: www.googlemap

- Baktouk, Preah Sisowath and Chaktomuk schools are located around the city center.
- Boueng Trabek High School is in the southern part of the city.



Building of Infrastructures



 Infrastructures were built and installed in the gardens including tube-wells, irrigation systems, drainage systems, nurseries, garden fence, wooden boxes...



Agroecology Training to Teachers



Extended Training from Teachers to Students

• Supported trained teachers to extend the capacity building to students at their schools.







Ongoing Activities in the Gardens





 Promoted ownership of the garden to responsible teachers and increased participation from students.



Ongoing Activities in the Gardens

• Promoted the transparent distribution of the produce from the gardens.





School Peer Evaluation Program







 Organized 3 peer-evaluation sessions to create sense of competition among partner schools.



Training on Nutrition and NCDs Prevention to Teachers

• Organized 4 training sessions on Nutrition and Non-Communicable Diseases Prevention to 75 teachers.





Training on Nutrition and NCDs Prevention to Students





 Supported trained teachers to organize in-class knowledge sharing sessions to students on NCDs prevention and nutrition using a leaflet developed by the project.



The Promotional Event





Agroecological Gardens: Before and After

1. Preah Sisowath High School





Agroecological Gardens: Before and After (Cont.)

2. Baktouk High School





Agroecological Garden Before and After (Cont.)

3. Boeung Trabek High School



Agroecological Garden Before and After (Cont.)

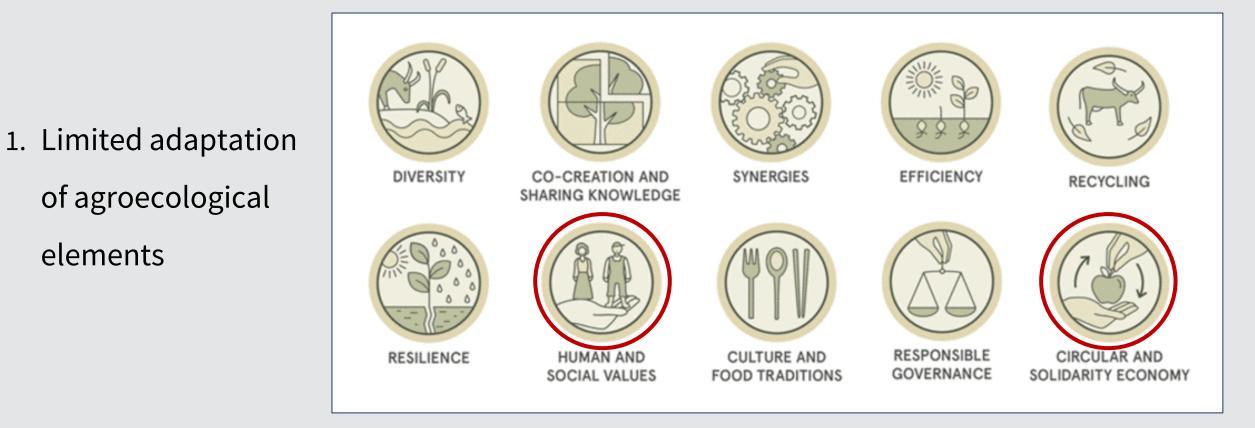
4. Chaktomuk Primary School





The Challenges

Challenges



Source: www.fao.org

elements



Challenges (Cont.)



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2. Limited ownershipof the gardens bythe partner schools

Challenges (Cont.)



3. The gardens require high maintenance



Challenges (Cont.)

4. Extreme weather conditions







The Future

The Way Forward

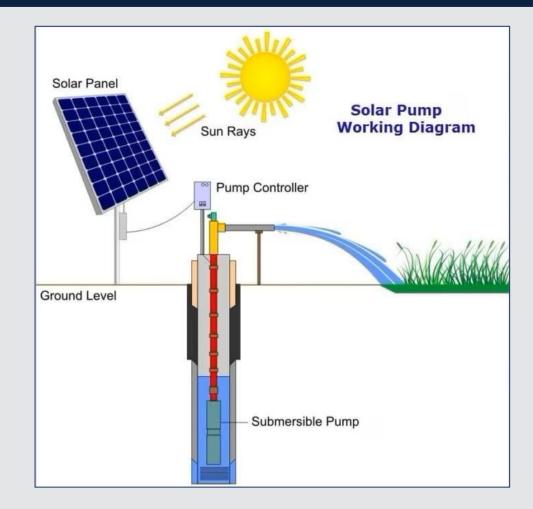
- Include more social and business components to the project:
 - Human and Social Values (especially gender)
 - Circular and Solidarity Economy (especially entrepreneurship)





The Way Forward (Cont.)

- Incorporate more climate-smart agricultural technologies
 - a. Solar pump
 - b. Irrigation systems controlled by a smart sensor





The Way Forward (Cont.)

- 3. Incorporate more climate-resilience agriculture techniques in the gardens:
 - Rain water collection systems
 - Applying Food Forest concept
 - Biological Carbon Sequestration





The Way Forward (Cont.)

4. Increase involvement of teachers and students through competitions (STEM competitions, Cooking competitions, Video competitions...)







Thank You!

