



GLOBAL GARDEN PROJECT

July 9 2019 | SEARSOLIN, Xavier University
July 11, 2019 | Balubal National High School
Cagayan de Oro City



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I. Executive Summary

The Global Garden Project is a collaborative initiative aimed at improving food security, nutrition and livelihoods through vegetable production in peri-urban contexts. The objective is to develop sustainable urban and peri-urban food systems that are inclusive, resilient, safe and diverse to provide healthy and affordable food source. Cagayan de Oro, and its neighboring municipalities was chosen as the pilot area for the project. The Project was facilitated through the collaborative efforts of University of Canberra, the Local Government Unit of Cagayan de Oro City, 1st District of the Province of Bukidnon, Xavier University – Ateneo de Cagayan, Department of Education (DepEd), the Archdiocese of Cagayan de Oro, and the Urban Food International.

The introductory workshop was held on July 9, 2019 at the Southeast Asian Rural Social Leadership Institute (SEARSOLIN) of Xavier University, while the Asset-based community food mapping was conducted on July 11, 2019 at Baluban National High School, Brgy. Balubal, Cagayan de Oro City. Baluban National High School was chosen as the host-DepEd School because of its urban gardening initiatives.

The 2-day workshop was facilitated by experts on the field of urban agriculture and food security.

II. Training Design

(draft prepared by the GGP core team)

General information on “Global Garden Project”

The “Global Garden Project” is a joint initiative of the University of Canberra (Australia), the Local government unit of Cagayan de Oro, Xavier University, Department of Education – City Schools District, the Archdiocese of Cagayan de Oro, 1st district of Bukidnon (all Philippines) and Urbanfood International (Germany).

The objective is to develop sustainable urban and periurban food systems that are inclusive, resilient, safe and diverse, that provide healthy and affordable food to all people in a human rights-based framework, that minimise waste and conserve biodiversity while adapting to and mitigating impacts of climate change by:

- Encouraging Interdepartmental and cross-sector coordination at municipal and community levels, working to integrate urban food policy considerations into social, economic and environment policies, programmes and initiatives, such as, inter alia, food supply and distribution, social protection, nutrition, equity, food production, education, food safety and waste reduction;
- Seeking coherence between municipal food-related policies and programmes and relevant subnational, national, regional and international policies and processes;
- Engaging all sectors within the food system (including neighbouring authorities, technical and academic organizations, civil society, small scale producers, and the private sector) in the formulation, implementation and assessment of all food-related policies, programmes and initiatives;
- Reviewing and amending existing urban policies, plans and regulations in order to encourage the establishment of equitable, resilient and sustainable food systems;
- Initiate a starting point for Cagayan de Oro (and surrounding municipalities) to address the development of their own urban food system and sharing developments with participating cities and our national governments and international agencies when appropriate;

Activity 1 – Introductory Workshop

Schedule of Activities

9 July 2019, Tuesday

SEARSOLIN, Xavier University

08:30 – 09:00 am: Registration

09:00-10:00 am: Preliminaries, Welcome Remarks, Messages, Inspirational Messages from Xavier University, Cagayan de Oro Local Government Unit, Archdiocese of Cagayan de Oro, Department of Education, Representative of 1st District of Bukidnon

10:00-10:20: Rationale and Objectives of the Activity

Ann Hill, University of Canberra, Australia

Road map of the Global Garden Project; Starting from this initial workshop into a suggested bigger project proposal that organizers intend to develop with partners within 2019

10:20-10:40: History of Urban Agriculture in Cagayan de Oro City and the Milan Urban Food Security Pact

Robert Holmer, Urban Food International, Germany

Short overview on how urban agriculture research and outreach commenced in CDO, with the establishment of PUVeP at XU in 1997 as a European Union supported project until 2010; that it was then continued into the urban gardening and school gardening project, but now needs institutionalization at city level, involving neighboring municipalities as well as the church, private and NGO sectors. Emphasis on the global urban agriculture movement and the Milan Urban Food Policy Pact, which is already joined by more than 200 cities worldwide. However, no Philippine city is part of this network, but CDO is actually predestined to be the number one in this.

10:40-11:00: Open forum

11:00-11:20: The Integrated School Nutrition Model (ISNM) of the Department of Education

Dr. Ella Cecilia G.Naliponguit, Director III Bureau of Learner and Support Services; Member, National Nutrition Council Technical Committee; Department of Education, Pasig City, Metro Manila, Philippines

Overview of the Integrated School Nutrition Model, a collaborative project of DepEd, the International Institute of Rural Reconstruction (IIRR), and the Department of Science and Technology – Food and Nutrition Research Institute (DOST-FNRI), which integrates nutrition interventions under DepEd’s School-Based Feeding Program (SBFP), Gulayan sa Paaralan Program (GPP), and Nutrition Education Program, to help improve the nutritional state of school children, and improve their knowledge and attitude towards nutrition and gardening.

11:20-11:40: The School Garden Program “Gulayaan sa Paaralang” at Balubal National Highschool

Mr Cyrill Celetaria, Principal, Balubal National High School BNHS, Cagayan de Oro, Philippines

As part of the K-to-12 reform of the Department of Education, a senior highschool program in agriculture has been established at Balubal National School. An update of its implementation with particular focus on the school garden program will be given.

11:40-12:00: Open forum and Introduction to afternoon session

12:00 noon to 1:00 pm: LUNCH BREAK

01:00-01:30pm: Session 1: Ang Akong Plato

Ms Meiyoshi A Masgon, Sustainable Sanitation Center, Xavier University, Cagayan de Oro

01:30-02:00pm: Session 2: Nutrition and Health

Dr Gina S Itchon, College of Medicine, Xavier University, Cagayan de Oro

Discussion on the increasing double burden of disease among Filipinos, i.e. the rise of non-communicable diseases vs the still high levels of undernutrition; presentation of the recommended Filipino Meal Plate by the Department of Health

02:00-02:45pm; Session 3: What if there is a food crisis in Cagayan de Oro?

Imagine the following scenario: A siege of CDO similar to Marawi, flooding/tsunami, earthquake: what happens if CDO is cut off from food supplies coming from Bukidnon or other areas? How long can we exist without food imports from other areas?

Small group discussion among 3 people and then sharing in the larger whole group

02:45–3:05pm: COFFEE/TEA BREAK

3:10–4:15pm: Session 4 What if there is optimal food and nutrition security in CDO?

Imagine the following scenario: Cagayan de Oro City is thriving. Residents consume fresh nutritious plant-based food. Small holder farmers and gardeners receive fair prices for the produce they grow and sell in local markets. Schools, neighborhoods and households produce and consume their own vegetables and reduce food waste through composting. Neighbors exchange recipes and attend cooking classes to learn how to use vegetable-based proteins such as mung beans as a staple. In all of this, institutions play a key role. They support and enable this thriving city.

Now put yourself, in your current role, into this scenario.

- a) *What aspects of this scenario are already visible to you?*
- b) *What aspects of this scenario would you like to see developed further?*
- c) *What role do you see yourself and your organization playing in the development of this scenario, and in relation to the aspects you identified in b)?*

Brainstorm in groups of 3 and then sharing in the larger group - note taking (need a good note taker to document the discussion, should we employ someone?)

04:15pm - 05:00pm: Synthesis and shared commitments moving forward

Amelia Agbayani, and Global Garden team, Closing Message, Next Steps

05:00pm: Closing message (to be identified)

Global Garden Project

Activity 2: Asset-based community food mapping activity Barangay Balubal, Cagayan de Oro

Schedule of Activities

Thursday, 11 July 2019

9:00 am to 4:00 pm

National Highschool Balubal

Scope of the food mapping activity

Key members of different sectors of Barangay Balubal will be introduced to the concept of Asset Based Community Development (Anselmo B. Mercado, former Director SEARSOLIN); subsequently they will 1) discuss and 2) map their sources of food (home garden, own animals, sari-sari store, from city, etc), their source of water and possibly on major illnesses; 3) what kind of food consume and why (personal preference, cost of food, availability), 4) what role do plant-based foods/ (vegetables, pulses, herbs, fruits) play to see as opposed to meat and processed food in local diets; 4) what happens to the food they source: - is it consumed by the household? - is it sold on at a market or door to door, given away, exchanged, composted, - leftovers thrown out in the trash, given to animals dogs chickens pigs; 5) what community memory exists on the PUVeP project (establishment of school-based allotment garden at National High School with vermicomposting and ecosan toilets) and see how much knowledge is still in circulation in Balubal (whether people are growing their own food at home, in neighbourhood, school, and this links back to food sources and what happens to the food they source etc; was it encouraged by the project etc).

Persons to be invited

Barangay chairman, barangay agriculturist, barangay health workers, representatives of high school and elementary school (principal, school feeding in-charge, nurse, school garden in-charge), representatives of agricultural cooperative, representative of housing projects, others (city reps?, reps of Manolo Fortich?), Asset-Based Community Development Facilitator.

Output of activity

- Asset-based community map of barangay showing major sources of food, water, possibly digitalized later
- information on major illnesses (not personalized)

Flow of activities:

1. Briefing on project and objectives
2. Clarifications
3. Introduction to Asset-Based Community Development
4. Discussion on above issues
5. Community mapping

III. Profile of Speakers

Dr. Ann Hill is an Assistant Professor in Education at the University of Canberra. She teaches and conducts research in Australia and Asia in the areas of community development and community education for sustainable worlds. She is a Human Geographer and Diverse Economies scholar by training and has specific interests in collective ethics and methods for living in a climate and resource-changing world. She is a member of the Community Economies Institute <https://www.communityeconomies.org/people/ann-hill>, an international cross-disciplinary networks of academic and lay-researchers committed to opening the economy to ethical debate and exploring different community development practices and pathways.

She has over ten years of experience in community partnering methods and in conducting empirical research for development in Asia. Ann graduated from The Australian National University (ANU) in 2014. Her PhD entitled “Growing Community Food Economies in the Philippines’ examines collective ethics and methods for growing different economic food futures. It focuses on community food experiments in Manila and urban Mindanao. Prior to her PhD she coordinated a large research project at ANU about community partnering for local economic development in the Philippines and Indonesia.

Ann began her adult working life as a secondary schools Social Sciences teacher in Sydney and worked in that capacity for 10 years. Other professional experiences have included working as a technical assistant of the University of Sydney Plant Breeding Institute, working as a nutrition consultant for Russells Health Foods, and working as a volunteer for aid NGOs Caritas and TEAR Australia.

Dr. Robert J. Holmer, a German national, is presently coordinating the agriculture component for a German Development Bank (KfW) funded project in assisting the Ethiopian Ministry of Science and High Education in supporting Agricultural Technical and Vocational Education and Training (ATVET) schools. Previously, he was holding the position of Senior Advisor of Germany’s GIZ to conceptualize and implement an innovative school feeding and sanitation component in cooperation with the Southeast Asian Ministers of Education Organization (SEAMEO). A special regional focus for implementation was the Autonomous Region in Muslim Mindanao (ARMM) of the Philippines with financial co-financing of the Australian government. Earlier, he served as Regional Director of AVRDC – The World Vegetable Center in East and Southeast Asia, located in Bangkok, Thailand where he managed and coordinated regional development projects for AVRDC in the region with major responsibilities for developing partnerships, capacity building programs and new projects. He joined AVRDC in 2010 from Xavier University, Philippines where he coordinated a multi-awarded research and

development program for urban and periurban vegetable production funded by the European Union and the German government. In recognition of his achievements, the city council of Cagayan de Oro recognized him as “Adopted Son of Cagayan de Oro” in 2003. In 2016, Robert founded the organization “Urban Food International” which provides consultancy services in the agriculture-nutrition-health nexus with particular focus urban and periurban food systems, resilient cities, and sustainable livelihoods. He holds a PhD in Agriculture from the TU München, Germany.

Dr. Gina S. Itchon is a medical doctor by training, presently working as Associate Professor in the Department of Preventive, Family and Community Medicine, School of Medicine Xavier University, where she teaches Epidemiology and Research Methods. Concurrently, she is also the Director of the Sustainable Sanitation Center, an outreach unit of Xavier University. I work with the Northern Mindanao Medical Center, the regional hospital of Region 10, as the Chairman of its Research Ethics Board. As a public health expert in the region, she is involved in many research projects on Water, Sanitation and Hygiene (WaSH), child nutrition, disaster management, public health policy, biosafety and biosecurity.

Dr. Ella Cecilia Gamolo-Naliponguit, a physician, is Director III of the Bureau of Learner Support Services, Department of Education, Philippines. Concurrently, she also serves as a member of the WHO Guidelines Development Group (GDG) for School Health Services, a Research Fellow for Southeast Asian Ministry of Education - Regional Center for Educational Innovation and Technology (SEAMEO INNOTECH), current Chairperson of the Governing Board for Southeast Asian Ministry of Education - Regional Center for Food and Nutrition (SEAMEO RECFON), Member of the Governing Board of the Philippine Indigenous and Traditional and Alternative Health Care (PITAHC) and the Philippine National Nutrition Council (NNC). Her combined 19 years of civic/ non-government organization work and public service experience have focused on health program management in the education sector, which includes enabling health research initiatives, application of research results for health policies and standards, and design and development of national school health programs. Her current challenge now is in the development of programs focused on adolescent and youth development (including reproductive health) in schools and the development of policies/ guidelines for after school sports development.

Mr. Ross Mackay is a Geography and History teacher at Goulburn High School, a regional/rural school in NSW Australia. He has lead a number of programs and implemented a number of subjects with a strong focus on promoting intercultural understanding and facilitating cross-cultural learning. He is currently involved in rewriting the syllabus for a subject called International Studies that focuses on preparing students to be active participants in a globalised, interconnected and just world. He also facilitates an International Studies online professional learning community of educators across NSW. Ross is also the President of the Asia Education Teachers’ Association, an organisation that has been committed to promoting the teaching of Asia literacy throughout schools in NSW for the past forty years.

Ms. Anne Shangrila Y. Fuentes is a Senior Lecturer in the Department of Social Sciences, University of the Philippines, Mindanao. Shang researches on gender, sexuality and reproductive health research, and has provided training on these areas to a number of government and non-government bodies. She has worked with NGOs and People’s Organizations (POs) in Mindanao, including indigenous people. She is currently working on

ACIAR (Partner Organisation) and PCAARRD-DOST-funded research on social capital and agricultural extension in conflict-vulnerable areas of Mindanao.

Ms. Evy Carusos is the Executive Director of the Landcare Foundation of the Philippines, Inc. The Landcare Foundation of the Philippines, Inc. (Landcare Phils.) is a non-profit non-government organization (NGO), based in Cagayan de Oro City. It was established in 2003 as a sustaining mechanism of the Philippines-Australia Landcare Programme to help promote and develop the landcare movement in the Philippines and South East Asia with specific focus in providing extension services in soil and water conservation and livelihoods development for small farmers. Landcare Phils. works in partnership with various organisations including the Australian Centre for International Agricultural Research (ACIAR), and is currently implementing projects in the provinces of Misamis Oriental, Bukidnon, South Cotabato, Maguindanao, Zamboanga Sibugay and Bohol.

IV. Implementation Proper

a. Activity Proceedings

Day 1: 09 June 2019, Introductory Workshop

Over-all Facilitator: Ms Imma Rae Gatuslao
Cagayan de Oro City Local Government

8:30 AM Registration opened, arrival of participants

9:50 AM Opening preliminaries
Opening Prayer – AVP
National Anthem – AVP

Welcoming Remarks

Ms. Gail de la Rita, Asst to the Vice President of XU Social Development Office

- Recognizing that the world we live is in fast changing, there is also a threat in our landscapes: food security landscape, health security landscape, and overarching human security landscape
- Our conventional ways of responding to the challenges of these aspects are greatly challenged. The workshop on the Global Garden Project is an opportunity to generate new ideas and new ways of moving forward to put in a more holistic approach, especially in inclusive community development.
- Alongside these changes, Xavier Ateneo recognizes the need for interdisciplinary approach on responding to challenges, thus stakeholders' consultation in strengthening of programs is helpful.

Messages from Stakeholders

Dr. Alicia Anghay, Asst Schools Division Superintendent, DepEd-CDO

Representing Jonathan S dela Pena, PhD., Schools Division Superintendent, DepEd-CDO

- The Global Garden Project is a gathering for conceptualizing new ways of protecting our children. Acknowledging that there is no abundant supply of resources to operationalize programs (water, sanitation and hygiene), the Global Garden Project has helped in promoting these programs, beginning with its pilot school, *Balubal National High School*.
- Increasing rate of pupils' drop-out mainly for two reasons: 1-they cannot read, and 2-they are hungry. The Global Garden Project is also deemed by the Division to be a part of the solution in combatting these perennial condition.

Ms. Myrna Siose, Coordinator on Peacebuilding, Archdiocese of Cagayan de Oro

Representing Most Rev. Antonio Ledesma, SJ DD, Archbishop of the Archdiocese of Cagayan de Oro

- It's very difficult to promote peace with an empty stomach. We imagine it happening in our archdiocese, especially the conflict areas. The Archdiocese is also trying to respond to this needs by looking for ways, not only to strengthen faith, but also through the program FAITH – *Food Always In The Home* – especially in the conflict affected areas.

Mr. Raul Veraces, Assistant Program Coordinator, 1st District of Bukidnon

Representing Cong. Maria Lourdes Alba Acosta, District Representative, 1st District of Bukidnon

- Urban food security in relation to climate change has been a global concern. Approximately 30 bills were filed to address the subject on food security during the 17th Congress. One of which, the proposed House Bill 9105 or Integrated Urban Agriculture Act, aims to promote urban agriculture by including urban agriculture in the academic curriculum from primary to tertiary levels of education. The proposed law also mandates local government units to enact local legislations to provide for a yearly appropriations in their budget for urban agriculture and for the national government to launch an information campaign promoting the same. Unfortunately, it did not pass as a law.
- We recognize that achieving food security is necessary to achieve economic development. It is quite ironic that for a country teeming with resources, the Philippines is still very far from food security. But we welcome initiatives, such as Global Garden project, to learn across the region's scale. People need food, but there are a lot of challenges in delivering food to the populace (i.e.: population growth, climate change, water scarcity, etc.).

Hon. Oscar S. Moreno, City Mayor of Cagayan de Oro City

- We welcome initiatives such as the Global Garden Project, further grateful that CDO is chosen as pilot area for projects that address significant concerns in the society. This is very timely also as the City prepares for the metropolization of Cagayan de Oro.

Hon. Maria Lourdes Alba Acosta, District Representative, 1st District of Bukidnon

Inserted in the program upon arrival

- Global Garden Project is a response to achieve SDG on food security and improving nutrition.

11:05 AM **Rationale and Objectives of the Activity**

Dr. Ann Hill, University of Canberra, Australia

- Road map of the Global Garden Project: starting from this initial workshop into a suggested bigger project proposal that organizers intend to develop with partners within 2019, with CDO as its pilot project area.
- Documentary film on social entrepreneurship in the Philippines: Butuan, Malaybalay, Cagayan de Oro.
 - Food and agriculture examples where people are developing a local food system that would provide social and environmental benefit to the local community
 - Action Research and Community Partnering: Asset-based Community Development which is building on from what a local community already know and have (physical, geographical, human, infrastructure resources)
 - Workshop: Local Development Needs and Asset Mapping Exercises
 - 2009 Regional Food Workshop: connecting the local gardeners across Mindanao
- Opol Food Project: Connectivity of activities
 - Container and Urban gardening: bringing people together for gaining knowledge and training, harvests are used for the school feeding program
 - LGU has strong support for the project

- Growing our local food economy where there is a connect in the efforts in backyard gardening, communal gardens, school feeding programs, support from the local government and individual families
- Re-orienting local food projects in the face of poverty and increasing climatic uncertainty
 - Shift from an *I* perspective to the *we* perspective
 - Focus on the shared-with others benefits: improving food security, waste handling and sanitation, reducing malnutrition, increasing income generation opportunities, and setting up economic diversification strategies
 -
- CDO Global Garden Pilot Project 2019
 - Developing more resilient local and regional food systems through knowledge exchange
 - Making Vegetables Visible Charter: to make vegetables a more attractive choice than the alternative food source and ensuring food and nutrition security
 - Rethinking supply chains: How would the supply chain look like if the emphasis was on social wellbeing, environmental impact, and supporting small holder livelihood
 - The Global Garden Project will integrate community and GIS mapping techniques for better outcomes at making vegetables more attractive

11:26 AM History of Urban Agriculture in Cagayan de Oro City and the Milan Urban Food Security

Dr. Robert Holmer, Urbabn Food Internationale

- AVP on Milan Urban Food Policy Pact Cities
- Challenges on food insecurity vis-à-vis urbanization and rapid population growth
 - Growth/ Map of urbanization of Manila: 1975, 1988, 2001, 2010
 - Malnutrition and non-communicable diseases co-exist
- Allotment gardens in CDO: Vegetable production in small places
- XU Periurban Vegetable Project (PUVeP), 1997-2010
 - Empowering urban and periurban poor communities through integrated vegetable production in allotment and container gardens
 - 1st EU Project (NCO-DC) with partners from Germany, France, Laos, Vietnam, and Philippines, 1997-2000: integrating socioeconomic analysis, crop improvement, pest management, organic waste management to agriculture/vegetable production
 - 2nd EU Project (AsiaUrbs) with partners from Germany, Belgium, and Philippines, 2002-2004
 - Integrating three components: integrated solid waste management, GIS-based community mapping, community and school-based allotment gardening
 - Project Sites of allotment and container gardens in CDO: 1-Gusa, 2-Sto Nino, Lapasan, 3-Mt Carmel, Carmen, 4-Beatice Niehoff, Macasandig, 5-San Isidro, Kauswagan, 6-Balulang (school-based), 7-FS Catanico (school-based), 8-RUAF Christa Holtz, Macasandig, 9-Hillside, Lapasan, 10-Balubal (school-based), 11-Baluarde (school-based), 12-St Ignatius, Manresa Farm

- PUVeP integrates Asset-Based Community Development (ABCD) as a tool for urban gardening and aid in combating food security
- Milan Urban Food Policy Act: a voluntary framework for recommended action in providing strategic options to cities aiming to achieve more sustainable food systems
 - Factors/ components: governance, sustainable diet and nutrition, social and economic equity, food production, food supply and distribution, and food waste

11:44 AM Most Rev. Antonio Ledesma, SJ DD, Archbishop of the Archdiocese of Cagayan de Oro
Message

- GGP as an initiative to address environmental concerns and climate change
- A response to *laudato si*: GGP's efforts in urban gardening, resource management, and climate resiliency.

11:51 AM **Integrated School Nutrition Model (ISNM) of the Department of Education**

Dr. Ella Cecilia G. Naliponguit, Director III Bureau of Learner and Support Services, Member, National Nutrition Council Technical Committee, Department of Education

- Department of Education's role in providing awareness to students
 - School garden serves as science laboratory for children, a venue to teach them about tree planting, tree growing, and tree caring, and it compliments and augments the need for the school-based relief programs
 - Integrated School Nutrition Model (ISNM) integrates three major components: nutrition education, supplementary feeding, and bi-intensive school garden
 - 2015 Action Research Project conducted to develop and test an integrated school nutrition model in the Philippines.
 - Focusing and looking into three major components creates awareness to learners and parents in improving nutrition of school children, supplement the school-based feeding program, and to increase awareness and love for vegetable gardening so they can garden in the home (Food Always in the Home)
 - Bio-intensive School Gardens (BIG): an agro-ecological approach to gardening which makes the best use of available natural resources and does not rely on chemical inputs
 - Supplementary Feeding: Use school gardens to supplement school-based feeding programs
 - Nutrition Education: provide learners and parents appreciation on proper nutrition based on urban gardening
 - Policy: school gardens should be bio-intensive gardens
- Crop Museums in Schools: Strengthening the implementation of the Gulayan sa Paaralan Program in public elementary and secondary schools
 - Crop museums in schools serves as focal point for saving crop varieties where teachers, learners, and community members can view a diverse range of nutritionally relevant and climate-hardy vegetables
 - Schools serve as custodians of biodiversity heritage in the Philippines, and can also serve as community seed bank

12:18 PM Lunch Break

1:29 PM **School Garden Program: Gulayan sa Paaralan at Balubal National High School**

Mr Cyrill Celetaria, Principal, Balubal National High School

- Profile of Balubal National High School
 - Founded in 2003
 - 1.5 ha lot area
 - Offers program for senior high school
 - Offers Technical Vocational and Livelihood on Agri Fishery Arts with Specialization in Organic Agriculture NC II and Animal Production-Poultry NC II
- Gulayan sa Paaralan Program
 - Recognitions received: 1st place in Agri-Pinoy *Gulayan sa Paaralan* Program in 2012, *Gulayan sa Paaralan Community-based Implementer* in 2017, and recognized as the National Model by the Presidential Commission for the Urban Poor of the Office of the President as initiative on Climate Change adaptation, Mitigation and Food Security in
 - Best Practices: 1-full support from the Barangay Council, 2-support of the parents and community folks through *pahina sessions*, 3-assistance and support from the Department for Agriculture, 4-suport of partners and donors (*DPWH, DA-X, Couples for Christ-GK*)
- Where is the school now?
 - Organic Agriculture Technology Development: vermi-composting, fermentation (FFJ, FPJ, OHN, Calphos), molasses mineral block, organic attractant,
 - Gulayan sa Paaralan in action: daily routine of students to tend to their gardens every 4PM after classes
 - Harvests are sold, profit sharing: 60% goes to the class, 40% goes to the school to be used for feeding program
 - Used as benchmark and models of other DepEd schools

1:46 PM **Ang Akong Plato (workshop)**

Ms. Meiyoshi Mashon, Program Officer, XU-Sustainable Sanitation

- Workshop as observed on the kind and volume of food options the participants took during lunchbreak
- Food served during lunch break are a mix of healthy and high-calorie food, including desserts and drinks
- Observation done on the participants who washed hands prior to eating: 7 out of 48 went to the comfort room, but not identified whether they washed their hands or not

2:00 PM **Nutrition and Health**

Dr. Gina S. Itchon, Director-XU Sustainable Sanitation, Faculty-XU Jose P. Rizal School of Medicine

- The public health dimension of non-communicable diseases (NCD) and its implications to Filipinos

- MDG 2000-2015: Focused on child and maternal health and reducing deaths from infectious diseases(HIV-AIDS, tuberculosis, malaria); SDG: include target on reducing mortality from NCD (cardiovascular disease, diabetes, chronic pulmonary diseases, cancers)
- Common NCDs in the Philippines: hypertension, diabetes mellitus type II
- The science on the connection of nutrition and NCDs
 - Forms of malnutrition: stunting, wasting, obesity
 - Good nutrition to combat NCDs: dietary patterns, food and nutrient, body composition
- Challenges for growing NCDs in the Philippines

2:35 PM **Workshop 2: Food Security in CDO**

- What if there is a Food Crisis in CDO?
 - How long can we exist without food in our area?
 - How will we manage food appropriation and resources?
- What if there is optimal food and nutrition security in CDO?
 - What aspects of this scenario are already visible to you?
 - What aspects of this scenario would you like to see developed further?
 - What role do you see yourself and your organization playing in the development of this scenario, and in relation to the aspects you identified in previous question?

4:35 PM **Synthesis and shared commitments on moving forward**

Ms. Amelia Agbayani, Global Garden core team member

- Key is to leverage resources with other group's resources, considering the rapid growth in population
- Efforts in production:
 - Available nutritious, resilient, indigenous vegetables and food varieties that can be found in crop museums
 - Increase income of the vegetable livelihood small workers
 - More community members be involved in vegetable and food production
 - Locally produced vegetables and fruits meet local food demands even without food import
- Two aspects of food security: physical access and economic access
 - Food security should factor in not only physical accessibility, but also economic access
 - Economic access: are the available food source affordable for the people?
- Food Nutrition
 - Spread awareness for available healthier food options and choices for members of the community
 - Integrated food nutrition model be implemented in school to ensure the food nutrition needs
 - Awareness on non-communicable diseases that is greatly affected by the choices of food intake
- Institutional support: How does the institutions support the practice of urban gardening and awareness on food and nutrition?
- How do we move forward?

- Global Garden Project with external support: geared towards
 - * learning through knowledge sharing (academe to academe)
 - * building bridges with local organizations
 - * prioritizing
 - * making vegetables accessible
 - * local knowledge exchange
 - * ABCD as approach to food security
- Global Garden Project with internal resources:
 - * possibility of creating a technical work group on global garden as an initiative for food security
 - * Request commitment from City LGU to facilitate program: there is an existing board for the *City Inter-Agency Committee*

5:35 PM End of Day 1

Day 2: 11 June 2019, Asset-based community food mapping activity in Brgy Balubal

Over-all Facilitator: Ms Amelia Agbayani
Global Garden core team member

8:30 AM Registration opened, arrival of participants

9:30 AM Opening Preliminaries
Opening Prayer – AVP
National Anthem – AVP

Welcoming Remarks

Hon. Pablo M Bactong, Punong Barangay, Brgy Balubal, Cagayan de Oro City

- Profile and history of Brgy. Balubal, as one of the hinterland barangays in Cagayan de Oro
 - Economic Indicators: agriculture, fisheries, and livestock
 - Major Cop: Cassava, corn
 - Livestock: Backyard piggery and backyard poultry
- 5 BLGU Agenda: 1-education, 2-sustainable livelihood, 3-health, 4-peace and order, and 5-infrastructure
- Global Garden Project as an effort to update sustainable agricultural approach

Messages

Mr Cyrill Celetaria, Principal, Balubal National High School BNHS, Cagayan de Oro, Philippines

- Translation of ideas into practice: Gulayan sa Paaralan
- Gardening as part of the culture of the students
- Partnerships and collaboration to popularize and sustain the efforts on urban gardening and organic agriculture
- Hope: School gardening be translated into home gardening

Dr. Ann Hill, University of Canberra, Australia

- Rationale and objectives of Global Garden Project

- Learning and gaining from the garden: livelihood, health and nutrition, education, develop resilience
- GGP serves as a network to transfer and share ideas and technologies across countries
- Connecting the home-to-school-to-community and garden-to-garden

10:57 AM **Session: Assets-based Community Development**

Dr. Anselmo Mercado

- ABCD: Assets-Based Community Development (ABCD)
 - An approach/ method/ strategy on planning and making use of the local resources to attain growth, development, and sustainability
 - Development Formula began in the 1950's

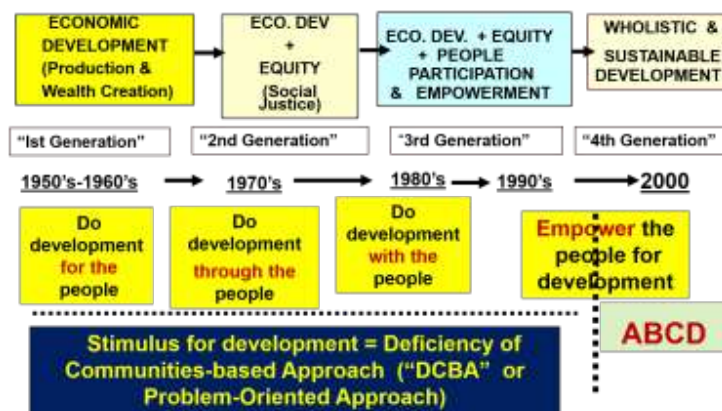


Figure 1: Evolving Formula of Development

- From *traditional* to ABCD approach on people/community development
 - Assets-based and internally-driven for community empowerment
 - *I* to *we*: transcend the concept of *I* to the inclusive *we*

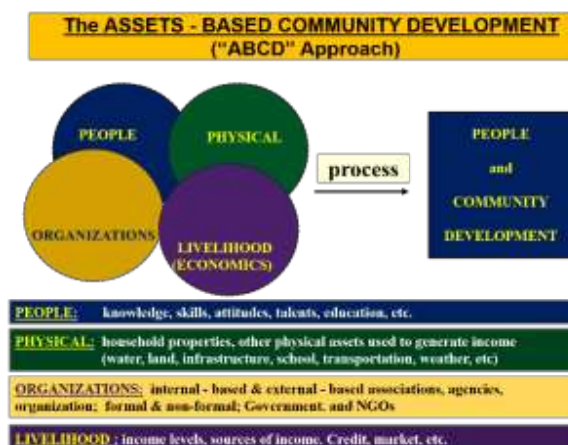


Figure 2: ABCD Approach

- Begin with what you have: local resources
- Assets mapping: people, physical resources, economic resources (livelihood), and external organizations

12:05 PM Lunch Break

1:00 PM **Case Analysis**

Ms. Shiela de Lima, Xavier Science Foundation-KKKK

- Case Analysis:
 - Group 1, Agutaya, Palawan: Sustaining high quality production of seaweeds
 - * Assets:
 - Top-producer for seaweeds: rich physical resources
 - Rich with human resources
 - High quality of seaweeds: production management
 - Knowledge sharing
 - * How did they mobilize?
 - Multi-stakeholder problem solving: involving farmers, LGUs, and trainers
 - Formation of a council for production management
 - LGUs support through installation of seaweed laboratory
 - * How did they leverage resources?
 - Good will of the people to help
 - Political will of LGU to assist
 - Group 2, Argao, Cebu: Abaca production technology demonstration program
 - * Assets:
 - Hablon: Traditional method of weaving, even the tourists come to their community to see the process of weaving
 - Human resource
 - Support of LGU: provision of land to grow abaca
 - * How did they mobilize?
 - Profiling of the abaca farmers
 - Training the younger generation for knowledge transfer
 - Showcasing the productivity and profitability of the abaca
- Synthesis of the workshop: Dr. Anselmo *Boy* Mercado
 - Identified local resources to respond to problems
 - Agricultural foundation in support to residential
 - Behavior of the community members: instill appreciation of the resources and process, their skills and knowledge on the process
 - Challenge: existing behavior of the community
 - Changing paradigms and way of thinking to achieve goals

2:05 PM **Geographic Information Systems (GIS) Maps**

Engr. Jan Carlos Vincent Arquiza, XU-Engineering Resource Center

- Maps
- Data collection and its importance in processing maps
- Sample maps

- Purpose and what can be developed through GIS

2:25 PM **Workshop 2: GIS Mapping of Resources**

Ms. Shiela de Lima, Xavier Science Foundation-KKKK

- Resource Mapping: Identify the resources in Brgy Balubal (physical, socio-economic, institutional)
 - Draw/ mark the resources available in Brgy Balubal
 - Identify the livestock area
 - Indicate water resources
- Food mapping: Identify the food resource
 - Identify daily food options
 - Identify the food sources
 - Write down/ mark in the map
 - Color code according to color of the sticker

4:30 PM **Synthesis**

Ms. Shiela de Lima, Xavier Science Foundation-KKKK

- Balubal as an agricultural barangay is rich in natural resources, most of the food resources are found internally and can also supply outside the barangay
- Appreciation of the ABCD process:
 - Efficient tool to map food sources, especially to encourage communities that lack internal food source to grow local food sources through urban gardening
 - Inventory of the local food sources that affirms the richness of the resources of the community one belongs to vis-a-vis lack of sources
 - A good activity to spread awareness and education

4:45 PM **Closing Remarks**

Dr Anselmo Mercado

- Influx of relocates is not a threat, but an opportunity for food production and creation of livelihood
- Indigenous food re are found in Balubal, explore application of technology to create new products

Mr Cyrill Celetaria, Principal, Balubal National High School BNHS,

Dr. Robert Holmer, Urban Food Internationale

- Creation of a core group to push urban gardening forward, with Archdiocese of Cagayan de Oro as the lead for the hub

Dr. Ann Hill, University of Canberra, Australia

4:55 PM **End of Day 2**

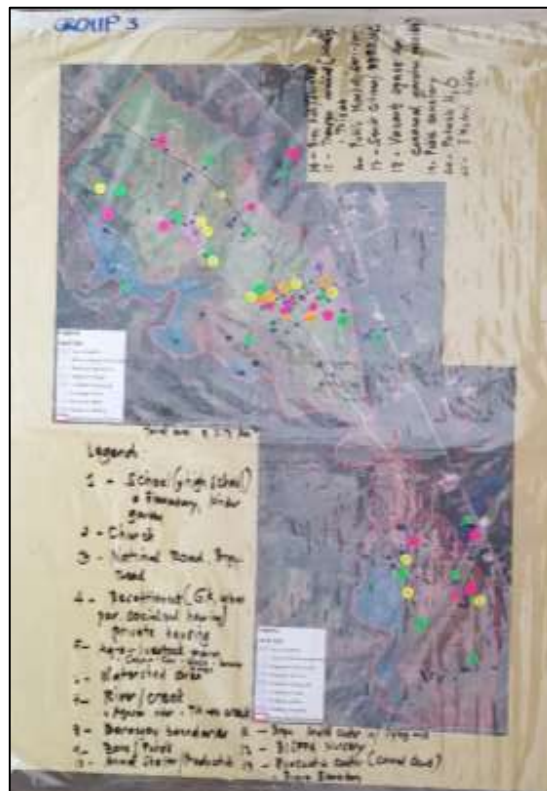
b. Workshop Output

Workshop 1: Food Security in CDO

See Attachment a-Synthesis of Workshop 1



Workshop 2: GIS Mapping of Resources



V. Attachments

a. Synthesis of Workshop 1

- See attached PDF File: **Attachment A-Synthesis of Workshop 1** prepared by Ms Amelia Agbayani

b. Photos from the activity



Speakers and Stakeholders for the GGP



Day 1 Participants, Speakers, and Stakeholders



Group Discussion during Workshop 1 of Day 1



Dr Gina Itchon, Director for XU-Sustainable Sanitation, gives her presentation on Nutrition and Health, Day 1



Presentation of output for Workshop 1, Day 1



Group Photo for Day 2



Dr. Boy Mercado as resource person for the input ABCD approach



Engr. JC Arquiza as resource person for GIS Mapping



Case Analysis 1 and presentation of output



Workshop 2, GIS Mapping for Resources and presentation of outputs

c. Materials/ Handouts

- See attached zip folder **Attachment C-Materials/ Handouts**

- A Milan Urban Food Policy Pact
- B Program Plan
- C Case Study 1: Agutaya, Palawan
- D Case Study 2: Argao, Cebu

d. Registration Sheets

- See attached zip folder **Attachment D-Registration Sheets**

- A Day 1
- B Day 2

e. Presentations of the Speakers/ Sessions

- See attached zip folder **Attachment E-Presentation Copies**

- A Global Garden Project, Dr. Ann Hill
- B History of Urban Gardening and the Milan Food Pact, Dr. Robert Holmer
- C Bio-intensive Gardens Primer
Crop Museum Primer
Integrated School Nutrition Model
Nutrition Education Guidelines
- D Gulayan sa Paaralan, Balubal National High School
- E Nutrition and Health, Dr. Gina Itchon
- F Ang Akong Plato, Ms. Meiyoshi Masgon
- G ABCD Approach, Dr. Dr Anselmo Mercado
- H GIS Mapping, Engr JC Arquiza

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