



DISSEMINATION OF EDIBLE LANDSCAPING TECHNOLOGY

Road to Self-Sufficiency

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PHILIPPINES: The Current Status

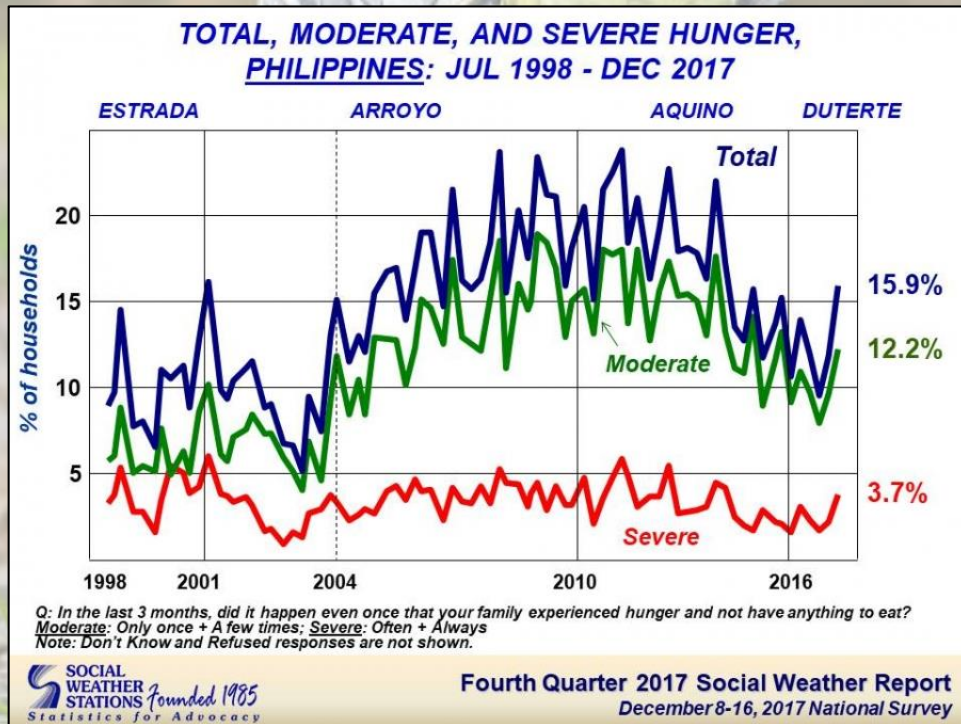


Source: Worldometers, 2018

(<http://www.worldometers.info/world-population/asia-population/>)

- ❑ Philippines population = **1.4%** of the total world population
- ❑ ranked 13th in the list of countries by population
- ❑ population density is 357 per km² (925 people per mi²).
- ❑ **44.4 %** of the population is **urban** (47,278,672 people in 2018)

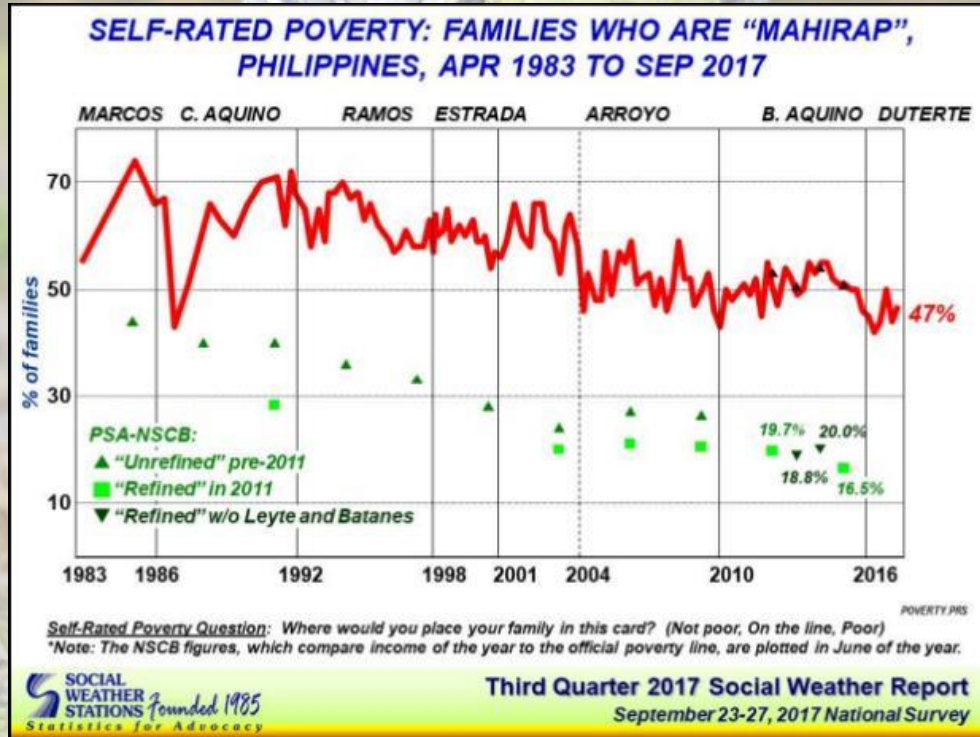
PHILIPPINES: The Current Status



□ a total of **15.9%** of households in the Philippines are experiencing hunger (as of December 2017)

Sources: Development Academy of the Philippines (1983); Bishops-Businessmen's Conference (1985); NSCB Official Poverty Incidence based on Family Income and Expenditure Surveys (1985-1997); Social Weather Stations Surveys (1986-)

PHILIPPINES: The Current Status



□ 47% of the Filipino households were self-rated as “poor” (2017)

Sources: Development Academy of the Philippines (1983); Bishops-Businessmen's Conference (1985); NSCB Official Poverty Incidence based on Family Income and Expenditure Surveys (1985-1997); Social Weather Stations Surveys (1986-)

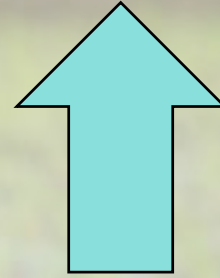
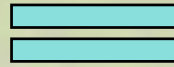
PHILIPPINES: The Current Status



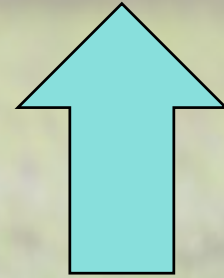
**Population
Rate**



**Land for
food production**



**Hunger
rate**



**Poverty
rate**



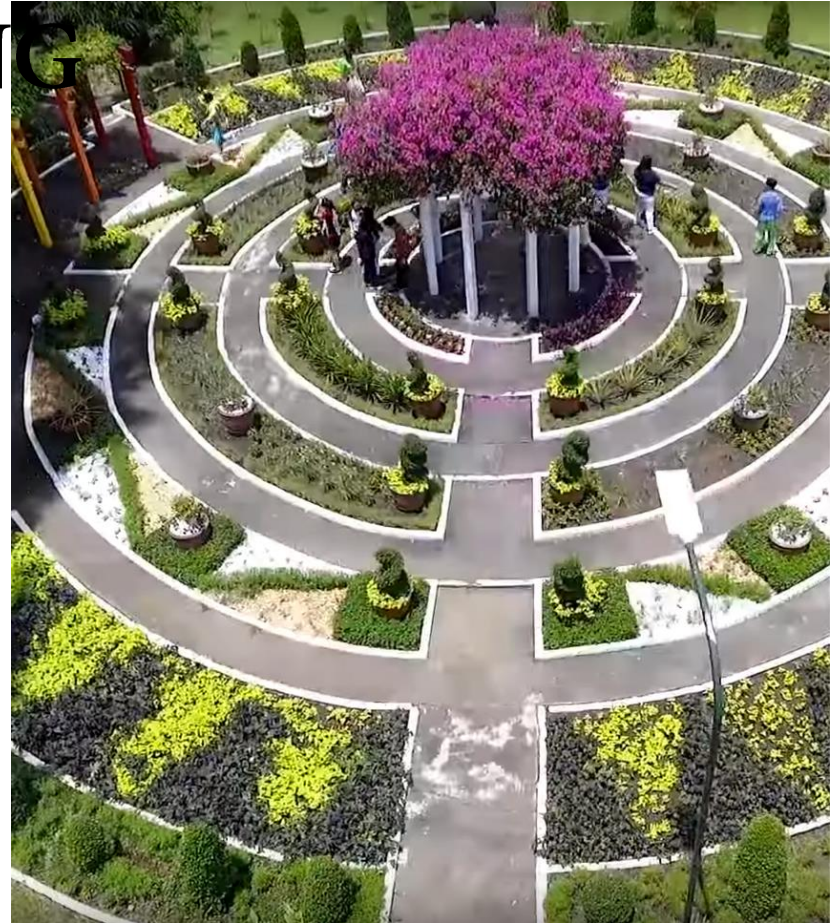
EDIBLE LANDSCAPING

Crop Production

+

Landscaping

✿ Innovative and creative crop production technology



What is Edible Landscaping?

Edible Landscaping is a new approach that merges **science** and **creativity** together to form a revolutionary crop production technology. It gives a twist in the conventional crop production as the basic tenets of landscape designing become its guiding principle.



EDIBLE LANDSCAPING

GOALS

Aesthetics

Functionality

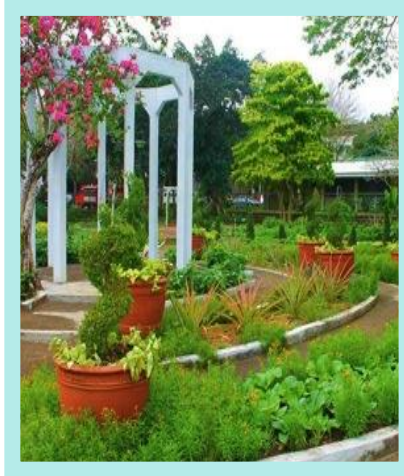
Health & Wellness

Self-sufficiency



EDIBLE LANDSCAPING

1. Aesthetics



EDIBLE LANDSCAPING

2. Functionality



EDIBLE LANDSCAPING

3. Health and Wellness



EDIBLE LANDSCAPING

4. Self - Sufficiency



PROMOTIONAL STRATEGIES

Exhibits

Conferences, Conventions, and Publications

Media

Promotional Products

Demo-garden

Trainings and Seminars

Exhibits

3 Major Local Exhibits



- Agrilink (since 2013)
- National Technology Forum (since 2013)
- Syensaya (since 2015)

Exhibits

2 International exhibits held in Korea



Gwangju Spring Flower Show 2015



Daegu Flower Show @ South Korea, 2016

Exhibits

Others



Edible Landscaping has been a constant fixture during events, wherein it highlights the technology.

Conferences and Conventions



- ❑ Presented in different local and international conferences and conventions.
- ❑ Attended the international conferences and presented the latest status of EL technology in the country.

Scientific Paper

Journal of Developments in Sustainable Agriculture 8: 91-99 (2013)

Edible Landscaping in the Philippines: Maximizing the Use of Small Spaces for Aesthetics and Crop Production

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Edible landscaping (EL) in the Philippines is an innovative concept of combining various principles of landscape design with existing technologies for small-scale crop production. EL utilizes vegetables, herbs, and fruit crops as major softscape materials to substitute for the ornamental plants commonly used in conventional landscaping. It considers the aesthetics and functionality of space in relation to the production of safe and readily available crop products for the family and community.

EL involves various components such as softscape, hardscape, design, and crop production. The design part of EL is very flexible and can vary from one cropping period to another, depending on the planting scheme chosen. Edible crops can assume several landscape functions to create different attractions in each cropping season. The production side of EL follows recommended techniques for seedling establishment up to harvesting while some practices are modified to fit the chosen design. EL also promotes the use of organic pest management and recycling of available on-site resources—particularly those derived from plant residues—to enhance and maintain soil productivity.

Even though EL is focused on food availability at household level, it is also intended to increase interest in the utilization of endemic edible plants and greening of urban spaces to alleviate environmental problems. Moreover, surplus crop products can be marketed to generate additional income. Currently, EL is being intensively promoted in the Philippines and is open for further development to cater for a wider scope of crop production.

Key words: Crop production, Edible crops, Landscaping, Subsistence farming

Introduction

Sustained availability of safe food on the table for every Filipino seems a never-ending concern for the government and has been the focus of most agricultural projects in the Philippines. This concern is aggravated by the increasing population growth rate and decreasing availability of land for food production. Sources of food, and production centers, are relatively far from target populations. This causes additional concern with regard to product quality and increasing health hazards because of the need to add chemicals to prolong the postharvest life of produce.

these zones, no tillable land is readily available and food commonly comes from external sources. These increasing concerns about food availability provide good reason for the government and the public to search for the solutions needed to produce safe and readily available food.

One possible solution is the use of technologies developed for food production under adverse conditions and applicable to household level crop production. If most householders were to utilize the open space within their properties, they could benefit by having their own sources of food even at the smallest scale possible. Such production systems and technol-

□ Paper Published in the
Journal of Developments
in Sustainable Agriculture
(2013)

Media



- A total of 12 TV and Radio Interviews

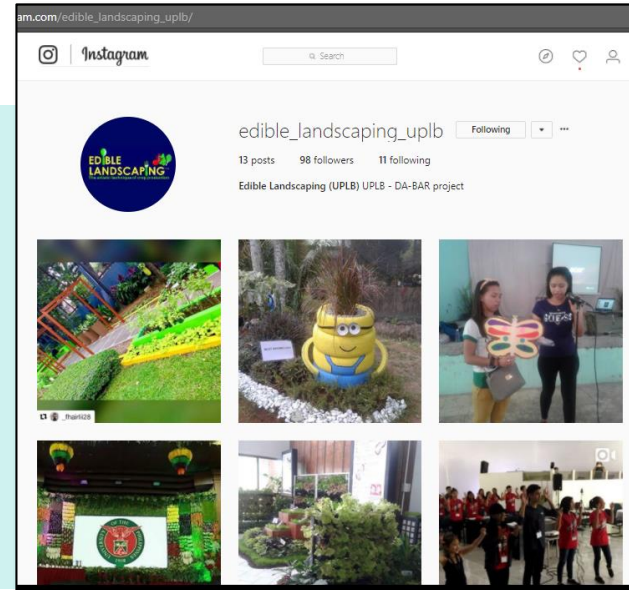


Media

- ❑ Online and published interviews and articles.
- ❑ Over 50 articles on EL were published



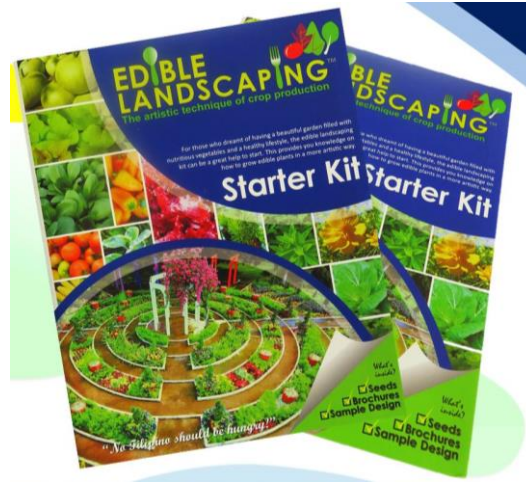
Media



Social media accounts were created to reach a wider audience through Instagram and Facebook.

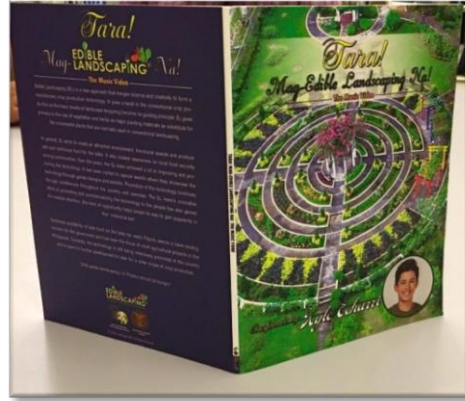
Promotional Products

- ❑ Included in the starter kit are seed packets, brochures and sample designs.
- ❑ Developed to help the adaptors start their own edible landscaping garden.



EL Starter Kit

Promotional Products



Edible Landscaping Jingle music video was produced to further promote the technology in this millennial era.



EL Music Video

Trainings and Seminars

Regular training modules

Training modules for kids.

Trainings and Seminars

- ❑ Over 6,000 individuals were trained.



Trainings and Seminars



Trainings and Seminars



Demonstration of proper implementation during training.

Demo Gardens

Private Adoptors (Household)

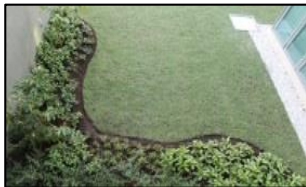
- ❖ Villaluz family showing their creativity using different recyclable materials.
- ❖ Harvested vegetables are used for their own consumption while excess produce are given to relatives and friends.



Demo Gardens

Private Adoptors

✿ Assistance, monitoring and evaluation of adoptors' established EL gardens.



Demo Gardens



Crop	Yield (kg/month)
Eggplant	40
Pechay	20
Kangkong	30
Radish	30
Upo	40
Papaya	50

Location: Regional Dairy Production and Technology Center, Cabid-an, Sorsogon City.

Area: 494 sq.m.

Purpose:

- The concept was to establish a functional park that will serve as a demo garden for future trainings and seminars.
- Produce is abundant and is free for the staff, trainees, and visitors of the farm.

Demo Gardens

Government Offices



Office of the Provincial Agriculturist (Batangas City)

- create interest among local communities
- trainings are conducted among local people by initial trainees

Demo Gardens

Schools



- ❑ Harvests of Grade 1 to 3 students are taken home by their parents
- ❑ Grades 5 to 6 students maintain the EL garden under the project of SEARCA
- ❑ The feeding program of wasted and severely wasted students (132 students)

Majayjay Elementary School, Majayjay, Laguna

Demo Gardens

Schools



- ❑ harvests are used in the canteen, picked by the teachers, and students
- ❑ income from the harvests, as sold in the canteen, are used to buy seeds
- ❑ with greenhouse and rainwater harvesting from SEARCA



Cabuyao Elementary School, Cabuyao, Laguna

Demo Gardens

Schools



- ❑ harvests are used in the feeding program (100 students)
- ❑ leads the training on school gardens in their district
- ❑ with greenhouse and rainwater harvesting from SEARCA



San Andres Elementary School, Alaminos, Laguna

Demo Gardens

Schools



- ❑ won third place during the SEAMEO-Japan Education for Sustainable Development (ESD) out of 56 schools in whole Asia
- ❑ winning edge of the school is the linkage to the community and LGU
- ❑ conducts training for 4P's
- ❑ harvests are used in the feeding program (29 students are wasted to severely wasted; 21 are indigents/no lunch)
- ❑ with greenhouse and rainwater harvesting from SEARCA



Labuin Elementary School, Pila, Laguna

Demo Gardens

Schools



- ❑ features the “pinggang pinoy”
- ❑ harvests are used in the feeding program for 138 students
- ❑ other themes of the garden: herbarium, upland and traditional
- ❑ with greenhouse and rainwater harvesting from SEARCA



Crisanto Guysayko Memorial Elementary School, Nagcarlan, Laguna

The Future of Edible Landscaping

Introduction to a Green City



- Increase biodiversity
- Increase interest
- Increase sustainability

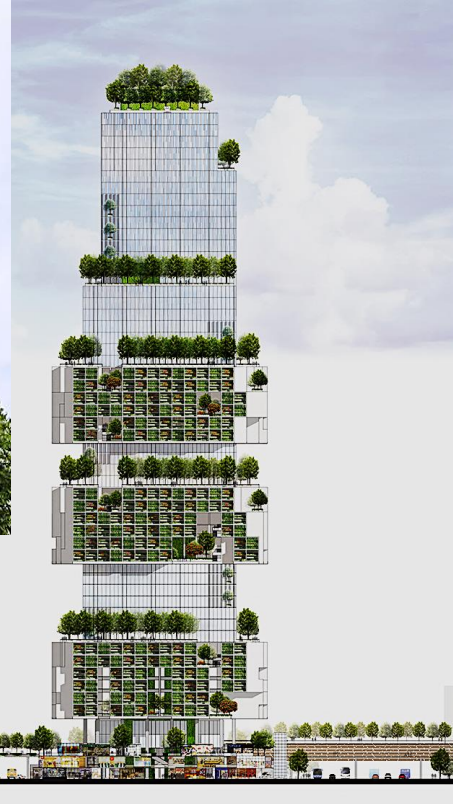


The Future of Edible Landscaping

Vertical Forest



- 1 HOTEL ROOF SKY TERRACE
- 2 HOTEL CLUB
- 3 HOTEL CLUB SKY TERRACE
- 4 HOTEL
- 5 HOTEL SKY TERRACE
- 6 SINO
- 7 SOHO SKY TERRACE
- 8 COMMUNITY AND CIVIC INTEGRATION



The Future of Edible Landscaping

LED Lighting



Plant Factory

The Future of Edible Landscaping

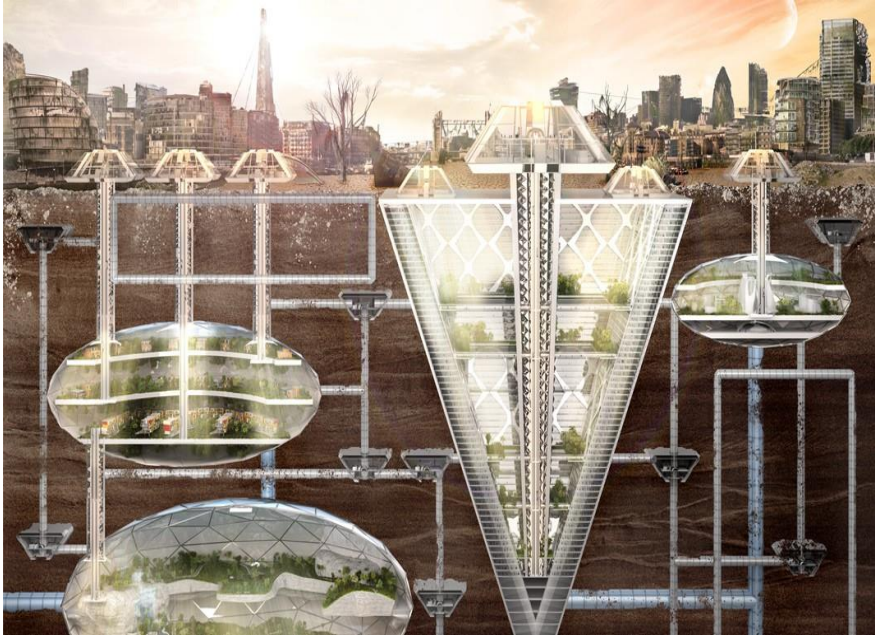
Future Green City



Do We Go UP?

The Future of Edible Landscaping

Future Green City



Do We Go DOWN?

The collective experience and education of the EL team make it uniquely qualified to help the community learn how to live sustainably while making their properties beautiful.



THANK YOU



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