

FARMER-SCIENTISTS RDE TRAINING PROGRAM (FSTP) FOR URBAN VEGETABLE-BASED GARDENING AND MARKETING SYSTEM IN CEBU CITY



A partnership project of DOST Region 7 with the urban residents of Cebu City, UPLB-FI, UPLB-CA (ASC,CPC), LGU's, East West SEEDS CO. and others.

THEME: Empowering urban residents in Cebu City with science and technology to grow vegetables and other crops to improve their health and living conditions.

MOTTO: We Gather Knowledge to Scatter.

WHAT IS A SCIENTIST?

“He watches things.
He reads.
He finds out how things
work and how they can be
made better.
He wonders.
He experiments.
He finds out what is true.
He sees that wonderful
things do indeed happen.”

OBJECTIVES

1. To encourage urban residents in Cebu City to engage in Vegetable-Based Gardening to improve their health and living conditions.
2. To train them on the scientific methods of growing vegetables, root and fruit crops for food and for sale to generate income.
3. To identify high-yielding vegetable crops and others that can be grown in their backyards.
4. To organize them as coop/association to sustain the growing of vegetable-based crops in their respective barangays.
5. To develop packaging and marketing strategies for their surplus products.

How the program operates.

There are three phases as follows:

PHASE I

Research Exposure, Technical Empowerment and Value formation for love of God, country and people

PHASE II

Verification and Adoption at Home of their Developed/ Discovered Technologies from Phase I Experiments

PHASE III

Sharing of Technical Knowledge to their Neighbors or friends

MODULE FOR FSTP PHASE I TRAINING

TOPICS/ACTIVITIES	Week Number	RESOURCE PERSON / DESIGNATION
<p>A. Cultivation of the mind</p> <ol style="list-style-type: none"> 1. Orientation and Needs Assessment and Leveling of Expectation 2. Spiritual and moral Value Formation 3. Background of FSTP (brief description, what is a Farmer-Scientist?) 	<p>1</p> <p>1</p> <p>1</p>	
<p>B. Cultivation of the Soil for Vegetable Production</p> <ol style="list-style-type: none"> 1. Experimental Trials, Design and Lay-out Data Gathering, Processing, Analysis and Reporting 2. Seedbed Preparation and Planting 3. Integrated Nutrient Management (INM) 4. Cultural and Water Management Practices of Vegetable Production 5. Integrated Pest Management 6. Farm Record Keeping 7. Harvesting and Postharvest Management 8. Marketing of Vegetable 9. Leadership Management 	<p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p>	

FORMULA ON HOW TO FORCE FARMERS TO GET RICH:

**KKAA + FSTP + MARKET = Forced to get rich
(Pugos ug kadato)**

K – KOGI (sipag, hardwork)

K – KUSOG (lakas, strength)

A – ANTOS (tiis, sacrifice)

A – AMPO (dasal, prayer)

FSTP PHASE I

DOST -7 COMPOUND
LAHUG, CEBU CITY

PLANTING TIME



Preparation of Visual Aid



Reporting





Farmer-Scientists measure growth of eggplants and make records for their report.



Farmer-Scientists take weight of their harvested vegetables.



Farmer-Scientists show their harvested eggplants.



DOST-7 Engr. Tristan Abando delivers lecture on vegetables packaging.



Farmer-Scientists Graduates of Phase I
September 26, 2014

FSTP PHASE II

TECHNOLOGY ADOPTION
IN THEIR HOME GARDENS



DOST Region 7 Director Edilberto L. Paradela and Dr. Romulo G. Davide inspected fruits and plants of Ampalaya grown by Farmer-Scientists Ernemel and Lorena Soco at the back of DOST-7 building.
March 6, 2015.



Dr. Romulo G. Davide is impressed to see the vegetable garden of farmer-scientist Marilou Jumao-as (center) hanging from the side walls of their house at barangay Lahug, Cebu City. Eggplants, ampalaya and tomatoes are grown in recycled plastic containers. *Phase II March 6, 2015.*



Farmer-Scientist Marilou Jumao-as holds her hanging vegetables pepper, pechay, eggplants and others grown in plastic containers beside her house.



Farmer-Scientist Melodia Butal (center) proudly shows Dr. Romulo G. Davide her onions luxuriantly growing on a container filled with soil and organic fertilizer.



FS Carmen Selim points to her Calamansi plants with fruits grown on plastic containers and other vegetable crops grown on hanging containers. Brgy. Luz, Cebu City March 6, 2015.



Farmer-Scientist Ben Arnold Ventura shows his home-made vermi compost (top) to fertilize his vegetables and sweet potato at the porch of his house.



Income of Farmer-Scientists Brgy. Lahug, Cebu City

1. Farmer-Scientists Ernemel & Lorena Soco

Vegetables planted	Yield (kg)	Sales (₱)
Pechay	21	630.00
Eggplant	162	4,935.00
Ampalaya	75	4,072.5
Finger Pepper	12.7	792.00
Upo	65.75	1,361.25
Malunggay	10.5	770.00
Okra	0.30	15.00
Stringbeans	2.35	94.00
TOTAL		11,444.75

2. Farmer-Scientists Melodia & Felimon Butal

Vegetables planted	Yield (kg)	Sales (₱)
Pechay	34	1,245.00
Eggplant	11	300.00
Upo	20.5	290.00
Malunggay	2	115.00
Kangkong	4	120.00
TOTAL		2,070.00



Farmer-Scientists Graduates of Phase II
May 22, 2015

FSTP PHASE III

GRADUATES OF PHSE II
TEACHING FELLOW FARMERS
IN YOLANDA AND SM VILLAGE,
BOGO CITY, CEBU

LIST OF FARMER-SCIENTISTS PHASE III

Farmer-Scientist Teachers	Topics Delivered
1. Mrs. Lorena Soco	Spiritual and Moral Values Formation
	Integrated Nutrient Management
	Cultural and Water Management Practices of Vegetables Production
	Integrated Pests Management
	Farm Record Keeping
	Harvesting and Postharvest Management
	Marketing of Vegetables
2. Mrs. Marilou Jumao-as	Integrated Pest Management
	Harvesting and Postharvest Management
3. Mrs. Susana Servise	Spiritual and Moral Values Formation
	Farm Record Keeping
4. Mrs. Melodia Butal	Seedbed Preparation and Planting
5. Mr. Ernemel Soco	Cultural and Water Management Practices of Vegetables Production
6. Mrs. Ursalina Rapsing	Marketing of Vegetables
7. Mr. Chelomar Jumao-as	Leadership Management

Yolanda Village, Bogo City, Cebu



Farmer-Scientist Teacher Susana Servise (right) delivers lecture on Spiritual and Moral Values to her class.



Ms. Rosela Sinadjan (right) and Mrs. Divina Ganar, farmer-participants show their harvested kangkong plants.



Farmer-Participant Mrs. Arnoco holds a big-sized fruit of eggplant.



Farmer-Scientist Teacher Susana Servise (left) and Mrs. Milagros Brignas (right) farmer-participant hold the pechay plants planted in empty coke bottles.



A Green Onion plants grown in empty coke bottles.

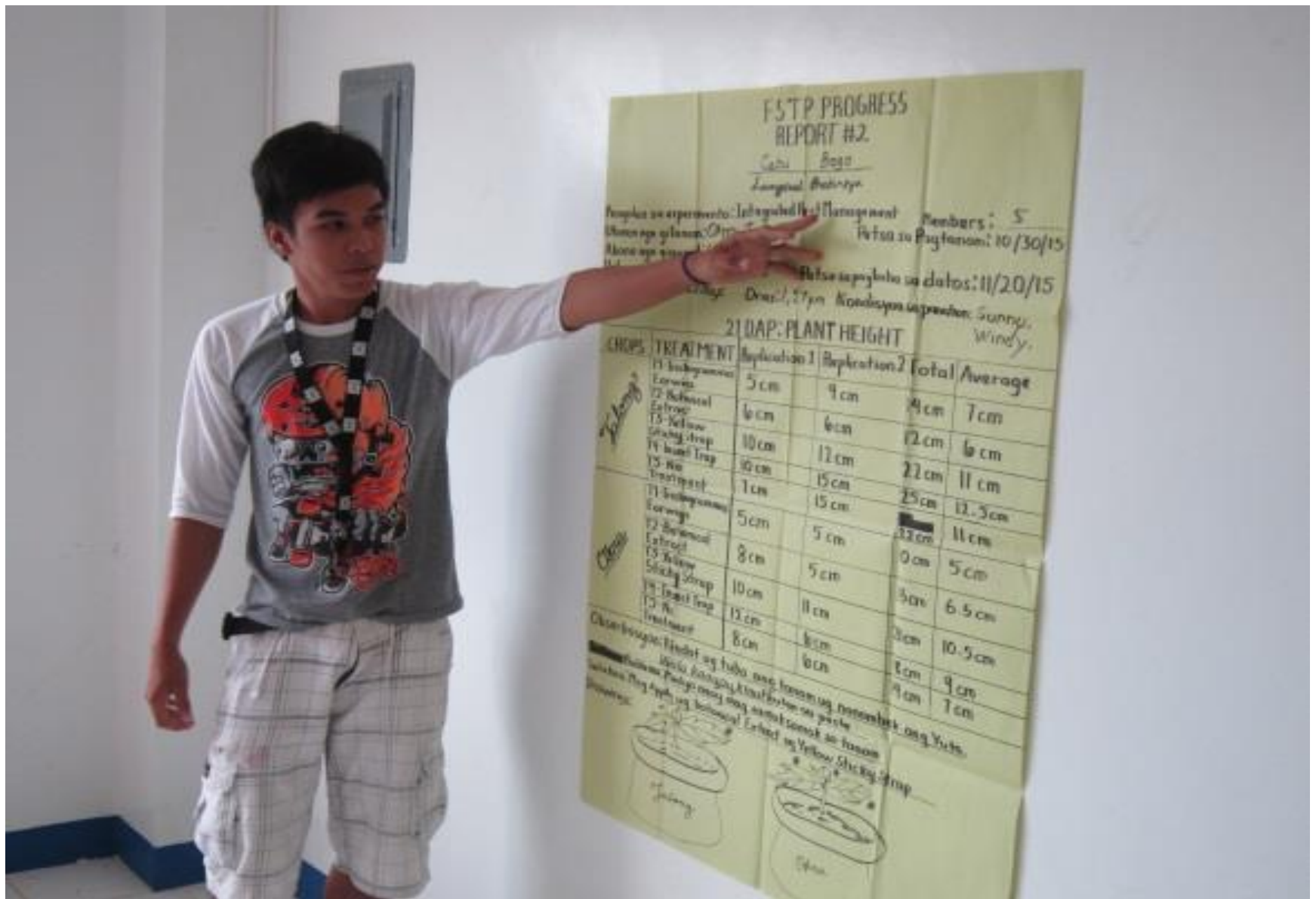


A group picture of FSTP Team together with the farmer-participants in Yolanda Village.

SM Village, Bogo City, Cebu



Farmer-Scientist Teacher Lorena Soco delivers the topic on Integrated Nutrient Management.



Farmer-participant, Mr. Radin Calabia presents their group report.



Mrs. Rowena Cabardo holds a radish root grown in a sack.



A group picture of farmer-participants in SM Village, Bogu City, Cebu with FSTP Staff Mr. A.M. Anuada and Mr. M. Canete. Dec. 11, 2015. *Note: After their graduation they will receive a certificate of Completion as Farmer-Scientists.*

EXPANSION TO:

Brgy. Subangdaku,
Mandaue City, Cebu for street kids
and ex-drug dependents



Mr. Anecito Anuada, FSTP Staff UPLB demonstrates on how to make holes in a plot, mixed with organic fertilizers and sowing of vegetable seeds.



Mrs. Irene R. Obien, (left) AT-Mandaue City and Ms. Maggie Cogtas (right) lead the kids in planting eggplant seeds.



Mr. Anecito M. Anuada, FSTP Staff, discusses how to gather data and make reports.



Mr. Victor Arogante (ex-drug dependent) and Mr. Bernabe Gipgano measure the plant height of the kangkong plants grown at the hanging bamboo slots.



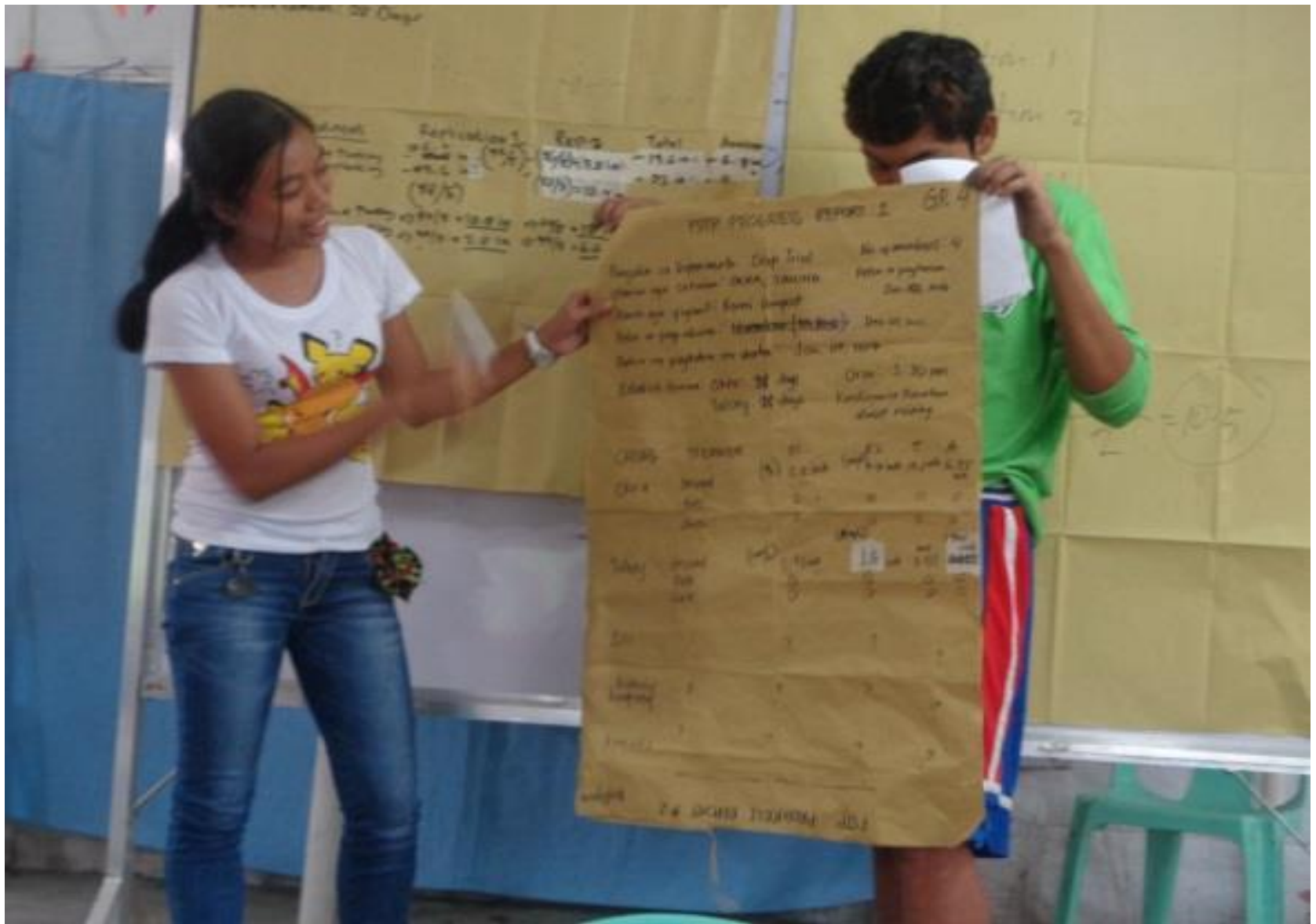
Mr. Mayol (ex-drug dependent) and members of his group examine their string beans for pests infestation.



The two kids from group 2 examine their pechay plants grown on bamboo slot filled with organic fertilizer.



Mr. Gipgano shows the pechay plants grown in the hanging bamboo slot with soil.



Ms. Cogtas gives the report on Group 4 Crops Trial assisted with her group mate.



Dr. RG Davide (center) together with the kids from group 1 examine tomato plants grown in their plot.



Dr. Davide (6th from the left), Fr. Carmelo Diola (7th from the left) and Mrs. Mangadlao (6th from the right) Asst. City Agriculturist, Mandaue City together with the participants pose with their okra plants.



A former drug dependent, Mr. Victor Agravante explains to Fr. Diola how he grows vegetable plants on containers and in ground soils.



Fr. Diola, Spiritual Director of Dilaab Foundation, gives communion to former drug dependents and street kids, scholars of the foundation. Taken before their graduation program.



Former drug dependents, now Farmer-Scientists from Brgy. Subangdaku, Mandaue City, Cebu render a dance for an intermission number during the program.



Street kids from Dilaab Foundation render a song for an intermission number during their graduation program.



Farmer-Scientist graduates together with guests pose for souvenir picture after their graduation. April 28, 2017.

IMPACT OF THE PROGRAM

1. Spiritual conversion and material transformation of FSTP Urban trained farmers were achieved through lectures on moral values formation for love of God, Country, and People. Their characters and personalities have greatly changed since they became more caring and respectful to their fellow farmers creating peaceful communities to live with.

IMPACT OF THE PROGRAM

2. The trained farmer-scientists from the urban depressed areas can now produce vegetable crops in their own backyards using the scientific methods of either growing them in recycled cups, sacks and other plastic containers by hanging or planting them on any available space around the house.

IMPACT OF THE PROGRAM

3. They can now produce more than enough vegetables for food with surplus for sale generating family income.

4. It has demonstrated that even street kids and ex-drug dependents can be trained in FSTP Urban Vegetable Gardening.

IMPACT OF THE PROGRAM

5. Yes, the Hanging Gardens of Babylon can be simulated in depressed urban communities not only in Cebu City but also in other cities of our country.



The creative visualization of the Hanging Gardens of Babylon (580 B.C.) lifted from www.learning-history.com.

The Hanging Gardens which is among the Seven Ancient Wonders of the World serves as the inspiration of the FSTP for Urban Vegetable-based Gardening and Marketing System in Cebu City. (AFBJamias, FSTP Staff)

We hope DOST will continue to support a similar program to overcome so much poverty in urban depressed areas in the Philippines.

Thank you!

IN GOD WE TRUST!