

Traditional Homegarden (Pekarangan) as Agriculture Heritage System







Japanese Satoyama and Homegarden

- TRADITIONAL AGROFORESTRY --- PEKARANGAN BAMBOO-TREE GARDENS --- IS CLASSICALLY SAID TO BE SOUND, EFFICIENT AND SUSTAINABLE LANDS USE SYSTEMS
- THESE PRACTICES WERE IN VOUGE SINCE TIME IMEMMORIAL AND ARE STILL PREDOMINANT
- THE STRUCTURE OF TRADITIONAL AGROFORESTRY IN THE MOST PART RESEMBLE FORESTS WITH A MULTI-LAYERED CANOPY STRUCTURE
- COMBINING THE NATURAL ASPECTS OF WITH THOSE FOR FULFILLING THE SOCIO-ECONOMIC FUNCTIONS OF THE PEOPLE IN WHICH REPRESENT A VARIETY OF NATURE-HUMAN RELATIONS

Traditional Homegarden (Pekarangan) as Agriculture Heritage System



PROVIDES A MULTITUDE OF PRODUCTS THAT FULFILL HUMAN NEEDS FOR SUPPLEMENTARY INCOME, FIBERS, SPICES, FOOD, FUELWOOD AND MEDICINE:

Traditional homegarden or *Pekarangan* is well known that this garden has a **multiple function**, such as conservation of genetic resources, soil and water, crop production, and socio-cultural relationship pre-dominate in Agrobiodiversity

Agroforestry **potential to store and remove car**bon from the atmosphere it has high carbon storage (sequestration) potential; it help in conservation of C stocks in existing forest by alleviating the pressure on forest; it can function as carbon subtitution of energy demand—fuelwood production



PROVIDE SOCIAL FUNCTION: LANDLESS OR POOR FARMERS ARE ALLOWED TO TAKE FALLEN BRANCHES AND TWIGS OR TO CUT DEAD WOOD FOR FUELWOOD.

ECOLOGICAL SERVICES



VARIOUS DOMESTICATED AND WILD PLANT SPECIES ORIGINATED FROM THE FOREST USUALLY INHABIT DIFFERENT VEGETATION STRATUM.—HIGH-DIVERSITY AND HYDROOROLOGICAL FUNCTIONS

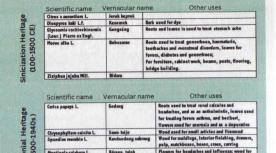
The Similarities Pekarangan with Tokyo Urban Agriculture Heritage in Recycling and Waste Minimization Function



Japanese Homegarden



Bouea macrophylla Griffith	lataké	Wood for house building, tool handles
Garcinia colebica L.	Manggu leaweun	g Wood for contemporary construction, poles, interior trim, furniture, fencing
Mangifera laurina Blume	Buah paré	Construction, outdoor application
Spondias pinnata (L.f.) Kura	Kadondong leaweung	For muldings, interior finishing, drawers, pulp, matchboxes, boxes, craes, carving
Stelechocarpus burahol (Blume) Hook.f. & Thomson	Burahol	Wood is used for household article, house building
Scientific name	Vernacular nam	e Other uses
Averbos bilimbi L.	Calingcing	Leaves for fevers and intestinal problems fruit for coughts and aphthae
Diospyros blancoi A.DC.	Bisbul, bihbul	Wood is used for handicrafts
Durio zibethinus L	Kadu, durén	Roots used for treating fevers; Wed for indeor construction and cheaper types of furniture
Garcinia mangostana L.	Hanggu	
Mangifera foetida Lour.	Limus piit (small-fruit variety), limus tipung (large-fruit variety)	
Scientific name	Vernacular na	
Citrus maxima (Burm.) He	rr. Jeruk bali	Leaves used for swelling and chancres, flowers for perfume and treating cardiodynia
Limonia acidissima L.	Kawista	Timber for house construction, posts, agricultural tools.
Mangifera indica L.	Buwah, mangga	Construction, outdoor application
Tamarindus indica L.	Asem jawa	Medicine
		Wood for musical instruments







Ethnobotanical Heritage

Preserving Bio-cultural Diversity

THE CURRENT DEVELOPMENT OF TRADITIONAL HOMEGARDEN AS AGRICULTURE HERITAGE SYSTEM



INTENSIVE AGRICULTURAL DEVELOPMENT PROGRAMES HAS ENGINEERED CONSIDERABLE TRANSFORMATION OF THE TRADITIONAL SUSTAINABLE AGRICULTURAL SYSTEMS TOWARD MORE COMMERCIALIZED MONOSPECIFIC PRODUCTION SYSTEMS.

IN THE LAST DECADES THE CHANGES IN THE ROLE OF THE HOMEGARDENS WERE CAUSED BY SEVERAL FACTORS, SUCH AS SOCIAL AND ECONOMIC CONDITIONS, AND URBANIZATION



COMPLEX VEGETATION LAYERING HAS BEEN REPLACED BY A SIMPLE VEGETATION LAYER HAS THE MAIN FUNCTION FOR ECONOMIC PURPOSE

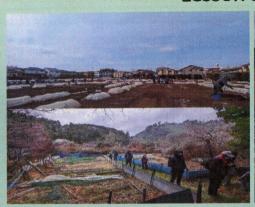
BRING EFFECT TO THE COMPOSITIONAL AND STRUCTURAL PATTERN---EFFECT PLANT AND FAUNAL DIVERSITY---LOW DIVERSITY...HOMOGENIZATION OF AGRICULTURAL LANDSCAPE---AGROBIODIVERSITY LOSS---LOSS OF HERITAGE CONTEXT



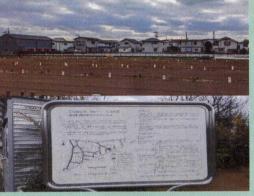




Lesson Learned



Kokubunji and Hachioji were the efforts that need to be in Nerima City make it possible for some restriction and built, as an insightful institutional development that could promoting inherit agricultural practices be encourage in Bandung City



Community engagement built and develop in Nerima, Some Local Policy regarding spatial arrangement and land use

Lesson Learned



The way in Preserving Edo traditional Vegetables, is what that need to be learn how the stakeholder hand in hand to promoting this

Koku-Vege was an inspiring local supply-chain and network that could we encourage together with the UA enablers through the BUAH living lab as the Hub

Co-creation with the community at the Living Lab as we saw from the Koku-Vege, could improve to preserve the heritage that could lead the sustainable practices

Feedback

Need to revisit the profitable practice regarding the low income, and also the urban dynamic that in the future could be the potential pressure for the urban agriculture practices.



Community member selects



Member eats vegetables and



Feedback

More low carbon practices could be feasible regarding the commercial agricultural that lead into fossil based agriculture practices





The future planning need to be arrange for the underused land revitalization regarding the urban development, land ownership and mutual benefit between the community and the landowner









Thank You

learn from the past for sustainable future

nyawang masa ka tukang | pikeun neuteup ka hareup | ku bukti nu ayu kiwari looking back in time | to look ahead | with the evidence today