

Country /City	Philippines	
University / School	University of the Philippines Diliman / College of Architecture	
Academic year	2017-2018	
Title of the project	Achieving Garden City Status for Quezon City: A Proposed Ecological Masterplan for the 'Green Lungs' of Metro Manila	
Authors	Michael Abuan, Aicel Mae Alvarez, Jereca Mae Amata, Benedict Martin Caliwara, Franklin Fontanoza Jr., Cindy Pornelos, Maria Monica Pu	ujalte

### **TECHNICAL DOSSIER**

Title of the project	Achieving Garden City Status for Quezon City: A Proposed Ecological Masterplan for the 'Green Lungs' of Metro Manila			
Authors	Michael Abuan, Aicel Mae Alvarez, Jereca Mae Amata, Benedict Martin Caliwara, Franklin Fontanoza Jr., Cindy Pornelos, Maria Monica Pujalte			
Title of the course	L Arch 250: Landscape Design, Construction, and Management			
Academic year	2017-2018			
Teaching Staff	Nappy L. Navarra, D.Eng.			
Department / Section / Program of belonging Environmental Landscapes Studio Laboratory /				
	Master of Tropical Landscape Architecture Program			
University / School	University of the Philippines Diliman / College of Architecture			



#### Written statement, short description of the project in English, no more than 250 words

The garden city concept was created to improve the quality of life in growing urban centers. Several cities in the world (i.e. Singapore) reached its garden city status through a strong political will and participative approach in its conceptualization. The project explores the possibility of achieving a garden city status for Quezon City through a proposed ecological masterplan. The study uses garden city indicators (from Singapore) and landscape metrics as basis for the ecological masterplan in order to formulate solutions that will enhance the existing baseline of Quezon City's indicators. Using geographic information system mapping, landscape metrics were used to determine the different ecological patches of the city. Through a response framework and design interventions, a conceptual master development plan was develop that features connection of the city's ecological cores through several ecological design strategies.

This design endeavor serves as a guide and calls for an integration of multiple disciplines and inter-coordination among government offices, national agencies, private developments, and local government units in prioritizing areas of for conservation and in refocusing community efforts for future development.

For further information

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# Fwhy become a garden city?





**Quezon City?** 









higher revenue higher for the city as productivity landscape rate when exposed to renew business centers as imp land "green economy"

# garden city indicators

indicators	drivers	operators
affordable housing	livable and sustainable housing developments	No. of units shared by persons
land use	valuation effect of green spaces	no. of green patches within 1km radius from a commercial area
strong local jobs	tax collection for green infrastructure	no. of employed individuals
です。 walkable neighborhood	decrease energy consumption	% of residential area within 1km radius of a transport hub
food security	safe and ample food source	no. of urban farms
community engagement	community buy-in	no. of NGO's and volunteer groups for the environment
tree-lined streets	more shaded areas and improve air quality	% of tree cover along streets
integrated transport	accessibility + circulation; less carbon footprint	no. of modes of transportation
stewardship of assets	environmental management	no. of environmentally focused gov't agencies
greenbelts	mitigate urban sprawl	length of longest greenbelt
high-quality gardens	green economics	no. of tourist visitors
generous green space	improved quality of life	green space per capita
connected biodiversity	increase biodiversity	no. of recorded flora and fauna
designed homes	residential land use to add more green spaces	% of open space in residential zones



gives equal opportunity to people from all walks of life to enjoy the surrounding

why

water quality protection

improved air quality

natural resource for conservation

reduce urban heat build up

	renew business centers as "green	exposed to improved landscape	foo
most competitive	economy"		
city in the Philippines			tree stre
<b>"The Green Lungs</b> because of the number of			inte tra
home to the country's			ste

home to the country's largest natural reservoir located in an urban setting

takes lead in green governance through environment management goals

## goals + objectives

design an

ecological masterplan for Quezon City

operationalize the **Garden Citv** indicators







INDIRECT CONNECTION
DIRECT CONNECTION
ADDITIONAL CONNECTION
PRIMARY HABITAT/ EXISTING PATCH
SECONDARY HABITAT/ EXISTING PATCH
SECONDARY HABITAT/ EXISTING PATCH WITH POTENTIAL RISK TO NEAREST PATCH
INTRODUCED PATCH/ STEPPING STONES
NUMBER OF INTRODUCED PATCH
EXISTING PATCH
BARRIER OR DISPERSAL AREA
POTENTIAL EDGES
URBAN MATRIX/ ACTIVE MANAGEMENT ARE
ECOLOGICAL BENCHMARKS/ TRAVERSIBLE MATRIX

