Liveable Cities Lab on Green Buildings and Open Spaces

August 25, 2021

Sense of Place:

The Value of Green
Buildings in LiveableCities

By Arch. Cathy S. Saldaña

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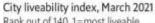






NCR | METRO MANILA







- Auckland, NZLD
- Osaka, JPN
- Adelaide, ASTL
- Wellington, NZLD
- Tokyo, JPN

- Perth, ASTL
- Zurich, SWTZ
- Geneva, SWTZ
- Melbourne, ASTL
- 10. Brisbane, ASTL

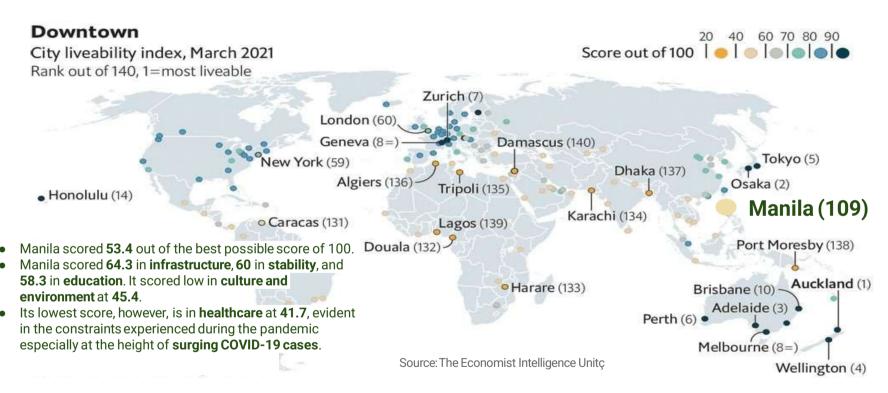






20 40 60 70 80 90

MANILA IN THE GLOBAL LIVEABILITY RANKINGS (EIU, 2021)













WELL-KNOWN CITIES IN THE PHILIPPINES

MANILA

Manila is the capital and remains as the most densely populated city in the Philippines

BAGUIO

Baguio City has been and continues to be one of the most established cities in the country, with UNESCO recognizing it as a Creative City of Crafts and Folk Art in 2017



DAVAO

Davao City continues to emerge and is currently the largest city in terms of landarea

CEBU

Cebu remains as avibrant and festive city, recognized as a UNESCO Creative City of Design in 2019











CLARK



NEW CLARK CITY

New Clark City is a development located within the Clark Special Economic Zone that houses various facilities for sports, academics, commercial, and residential. It is positioned to be an evergreen city that will serve as a central hub, assisting in the decongestion of Metro Manila.

Athletic Stadium and Aquatics Center Photographed by Ed Simon.

CLARK GLOBAL CITY

Clark Global City is the second biggest commercial real estate market in the Philippines. It is a mixed-use central business district. development at the Clark Freeport Zonein Mabalacat and Angeles City. Photo from The Midcounty Post.









A recent study among the 33 highly-urbanized cities in the Philippines was conducted by Dr. John Vianne Murcia, specialist of the University of Mindanao's Institute of Popular Opinion (IPO). The academic dissertation determined the liveability of Philippine cities based from their scores in the following dimensions:

PHYSICAL

Indicators under the physical dimension include population density, household size, and forest cover on total landarea

ECONOMICAL

Households owning house and lot tototal household population employment rate, poverty incidence, and annual per capita food threshold aresome of the indicators considered in the economical dimension.

SOCIAL

The social dimension covers aspects such as fatal road accidents per 100,000 population, crime index, and public hospital bed capacity

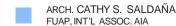


Indicators under the governance dimension include the ratio of electorate to population and Internal Revenue Allotment (IRA) percapita.











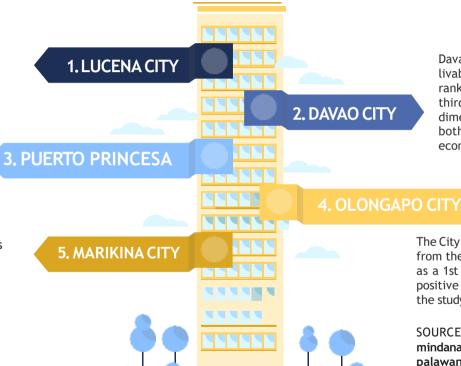
5 MOST LIVEABLE CITIES IN THE PHILIPPINES

(according to the study of Dr. John Vianne Murcia)

Lucena topped the physical/ environmental category (7.187), which comprised the highest weighted value among thefour indicators

According to Dr. Murcia, Puerto Princesa definitely gained advantage in the governance and physical/environmental dimensions.

The local government of Marikinahas exhibited its commitment in preserving the quality of its human and physical resource through the formulation and implementation of innovative policies and programs.



Davao City ranked second most livable due to its relative second rank in terms of social dimension. third in terms of physical dimension, and performed fairly in both governance (11th) and economic (16th) dimensions.

The City of Olongapo is governed independently from the province of Zambales, now recognized as a 1st class highly urbanized city. It gained positive scores in all the dimensions specified in the study.

SOURCES OF INFORMATION: mindanaotimes.com, lucena.gov.ph, palawandailynews, wikipedia, codatu.org











LIVEABILITY





BGC, Taguig City





Rockwell Center, Makati City









LIVEABILITY



ARCH. CATHY S. SALDAÑA

FUAP, INT'L ASSOC. AIA



Greenbelt Ayala Center, Makati City





Iloilo City











MOST LIVEABLE CITIES





Singapore City-State



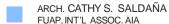


Auckland City, New Zealand











MOST LIVEABLE CITIES





Adelaide City, & Sydney City, Australia



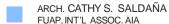


Zürich City, Switzerland













LIVEABLE BUILDINGS









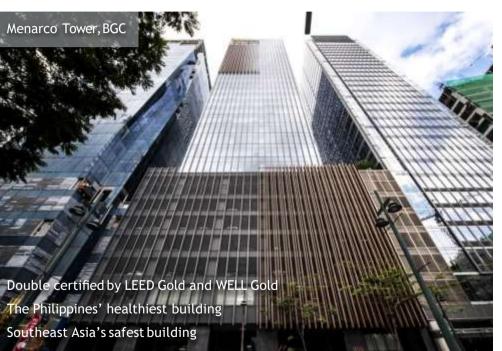








LIVEABLE BUILDINGS



















CRITERIA FOR LIVEABILITY OF CITIES

STABILITY

HEALTHCARE

EDUCATION

CULTURE

ENVIRONMENT

SOURCE:

The Economist Intelligence Unit (EIU)

















GREEN BUILDING FRAMEWORK from

The Philippine Green Building Council:
Building for Ecologically Responsive Design
Excellence (BERDE)

CALL TO ACTION

URBAN DESIGN CHARACTER

LEGISLATION (NATIONAL)

TAX INCENTIVES ARCHITECT'S OR PLANNER'S STAND

LGU ordinances SENSE OF PLACEMAKING (CITY/MUNICIPAL LEVEL)

EMBODIMENT IN CULTURE PUBLIC RESPONSIBILITY











INDOOR ENVIRONMENT QUALITY

DAYLIGHT AND OUTDOOR VIEWS ACCESS thermal comfort VISUAL COMFORT acoustic comfort LOW VOC indoor air quality ENVIRONMENT

Microbial Contamination Prevention











TRANSPORTATION

Key Establishments Proximity Cyclists and Pedestrians Amenities Preferred Parking MASS TRANSPORTATION ACCESS











GREEN MATERIALS

GREEN **PROCUREMENTS** Local Materials











USE OF LAND AND ECOLOGY

Land Reuse

VEGETATED OPEN SPACES PROMOTION Ecological Features Improvement

PROMOTION Heat Island Reduction











MANAGEMENT & WASTE MANAGEMENT

CERTIFIED GREEN BUILDING
Green
Building
Professional

WASTE MANAGEMENT











ENERGY EFFICIENCY AND CONSERVATION

RENEWABLE ENERGY SOURCE

Energy Consumption Reduction











WATER EFFICIENCY AND CONSERVATION

WATER CONSUMPTION Rainwater REDUCTION Collection Grayway Reuse











EMISSIONS

Greenhouse Gas Inventory REFRIGERANTS











GREEN BUILDING FRAMEWORK



SOURCE:

Philippine Green Building Council: Building for Ecologically Responsive Design Excellence

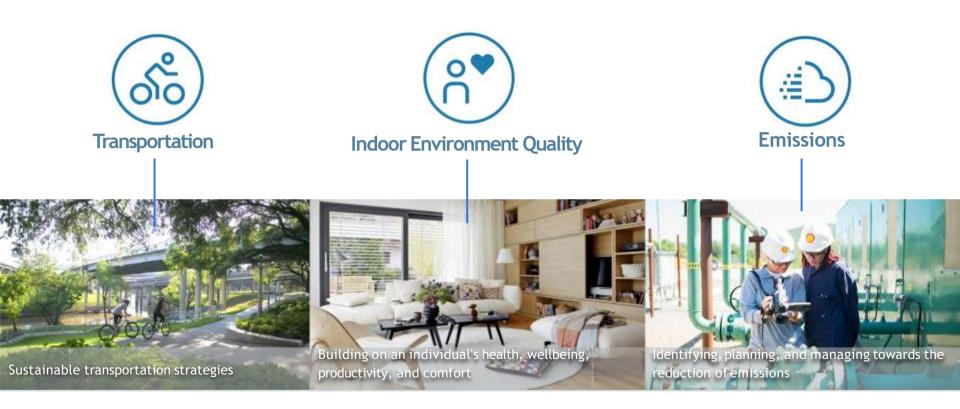
GREEN BUILDING FRAMEWORK



SOURCE:

Philippine Green Building Council: Building for Ecologically Responsive Design Excellence

GREEN BUILDING FRAMEWORK



SOURCE:

Philippine Green Building Council: Building for Ecologically Responsive Design Excellence

GREEN BUILDING ELECTIVES



DIFFICULTIES IN URBAN AND RURAL LIVING

















DIFFICULTIES IN URBAN AND RURAL LIVING























































United Nations: 17 Sustainable Development Goals

OUR GOAL FOR THE FUTURE

PEOPLE **HEALTH AND work-life balance** WELLNESS FUTURE **EFFICIENCY EFFECTIVITY** children COMMUNITY











Thank you!







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