PSA's Experiences on Citizen-Generated Data and Other Non-Traditional Data in support of the Sustainable Development Goals

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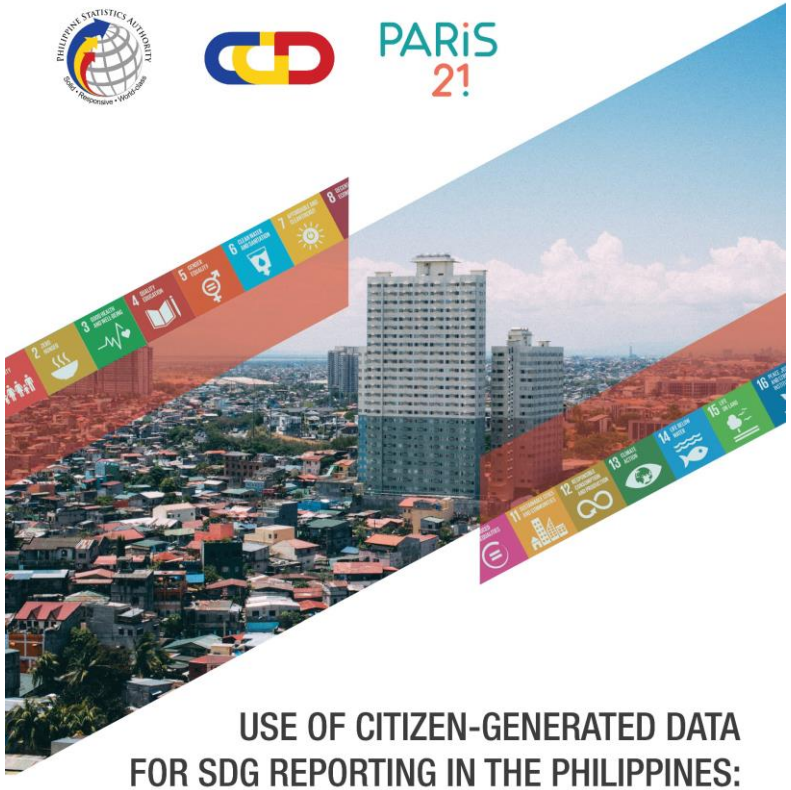
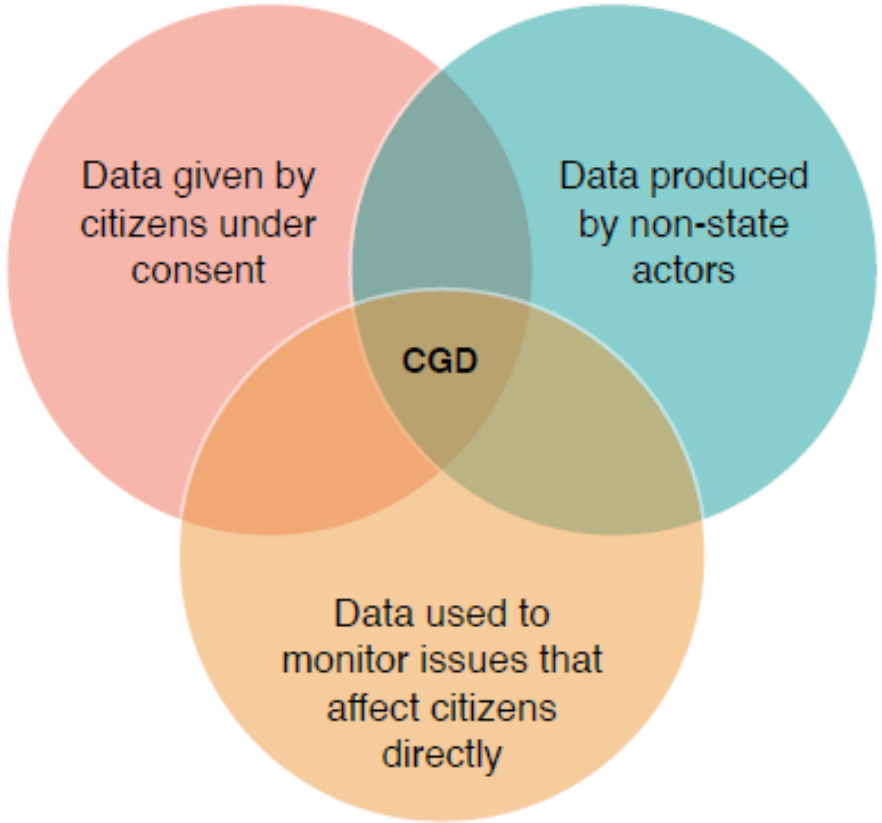
52nd Session of the UN STATCOM side event:
BIG DATA FOR THE SDG – WHAT IS THE WAY FORWARD
09 March 2021

1. Use of citizen-generated data (CGD) to address data gaps in SDG monitoring





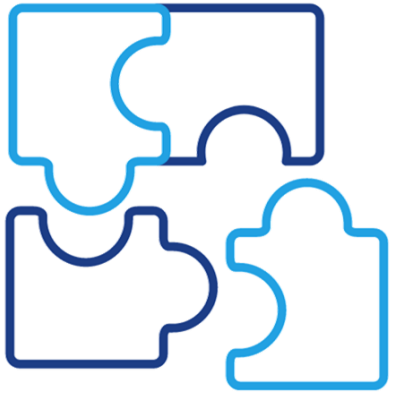
Source: Authors' own elaboration

1. Use of citizen-generated data (CGD) to address data gaps in SDG monitoring

TIER 2

24

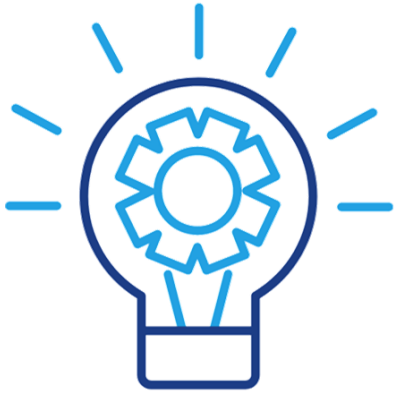
INDICATORS



TIER 1

36

INDICATORS



TIER 3

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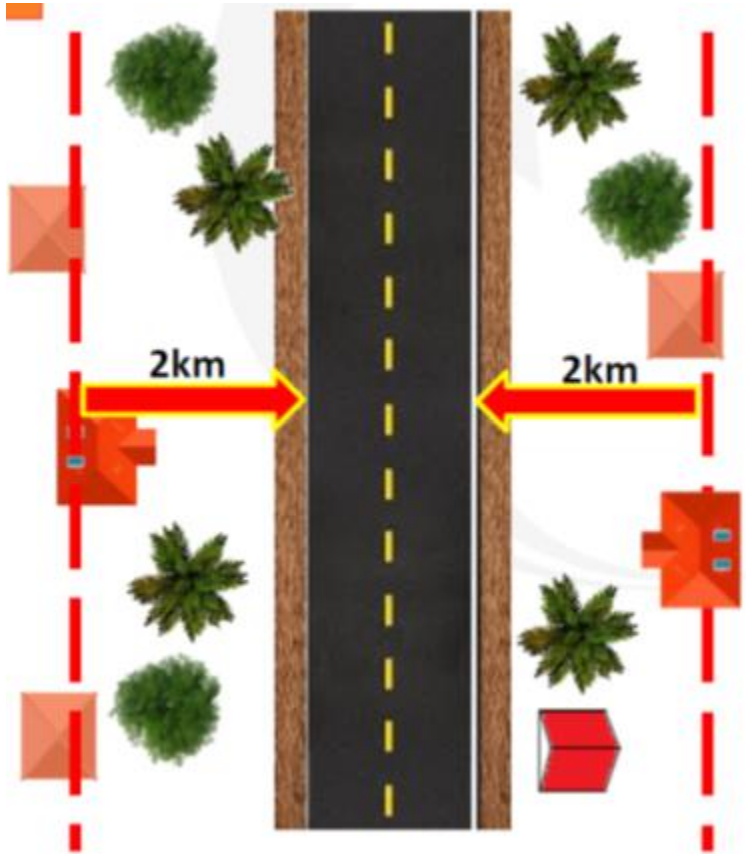
INDICATORS

2. Rural Access Index (RAI)



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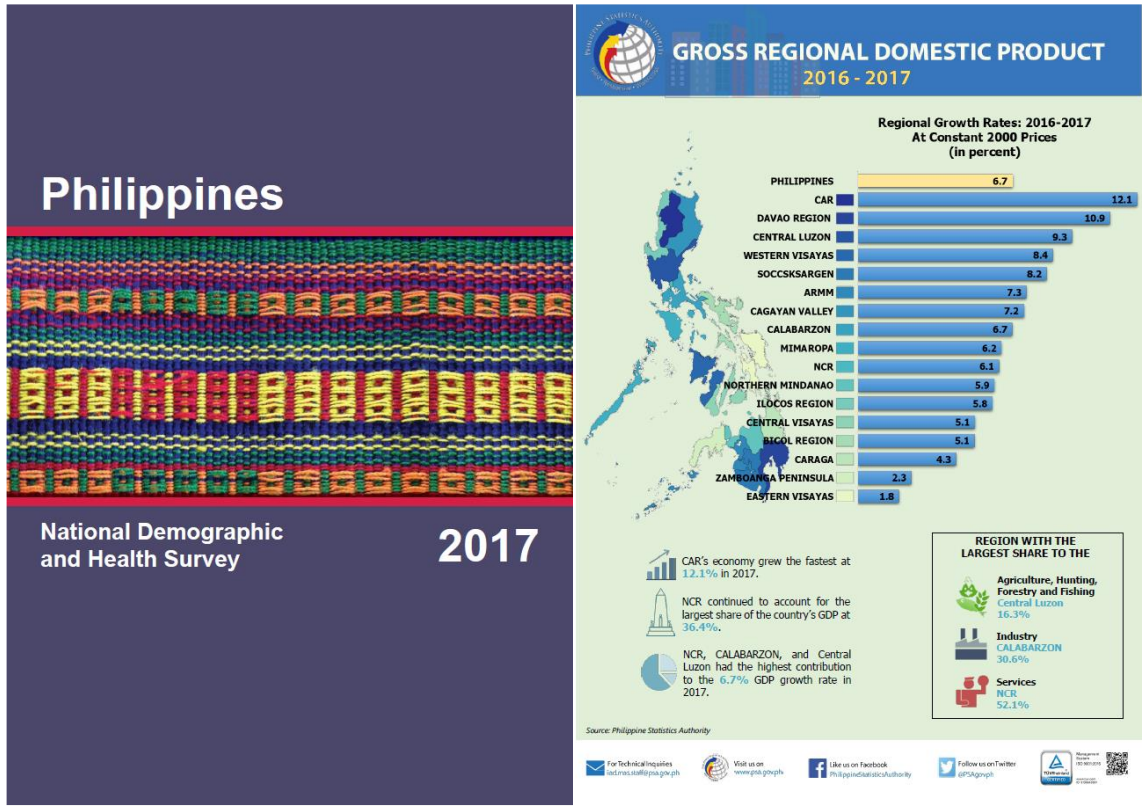
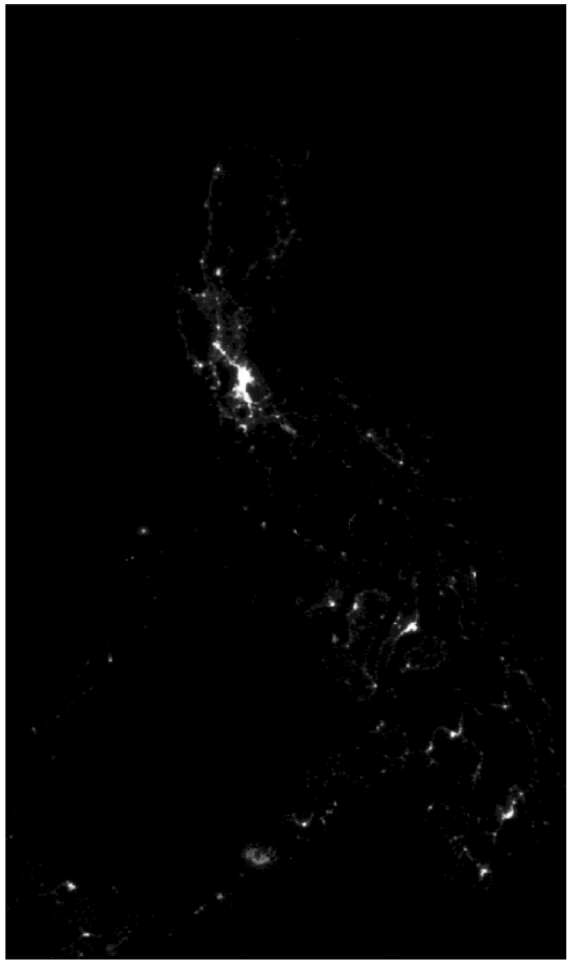


3. Enhancement of SAE incorporating night time lights from satellite images

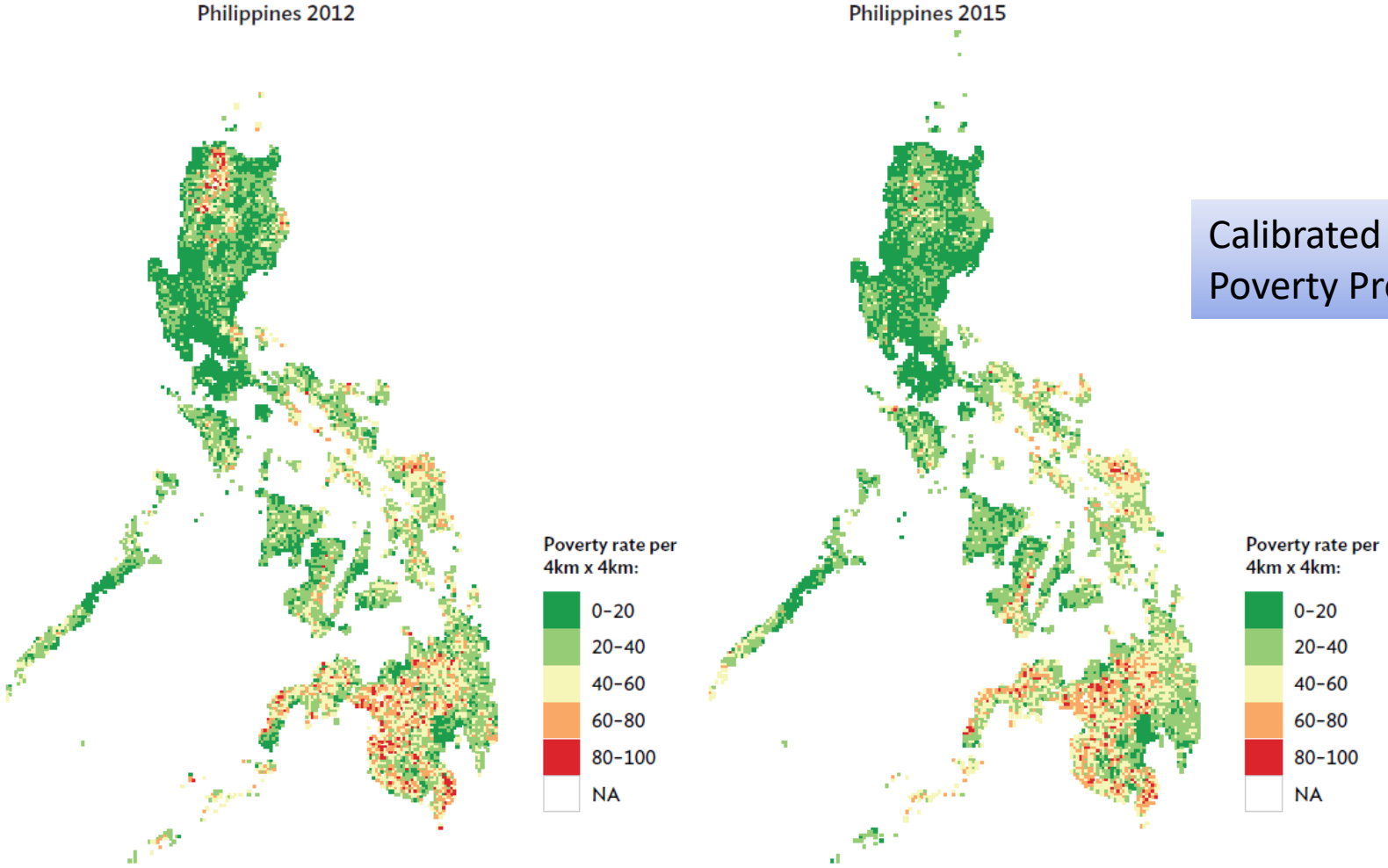
Philippines 2012



Philippines 2015

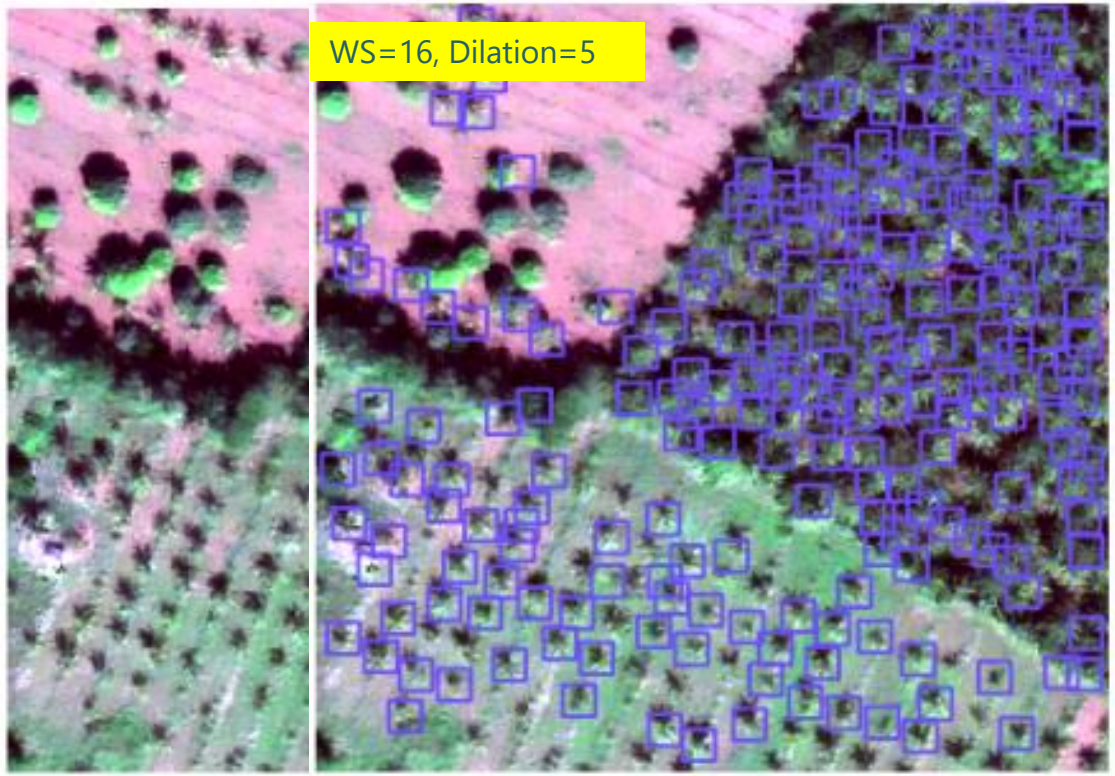
Night Light Image Tiles

3. Enhancement of SAE incorporating night time lights from satellite images



Calibrated Machine-Learning Poverty Predictions

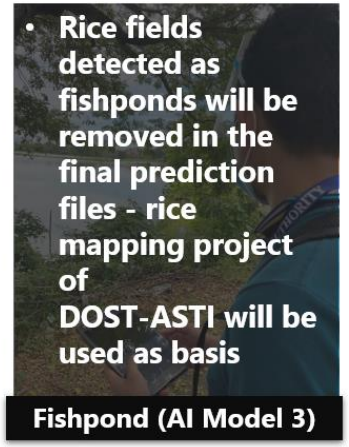
4. Artificial Intelligence for the Census of Agriculture and Fisheries (AI4CAF)



Accuracy Assessment from Ground Truthing

95.95%
Overall Accuracy

85.35%
Overall Accuracy



85.86%
Overall Accuracy

Note: At least 85% accuracy rate is considered acceptable.

4. Artificial Intelligence for the Census of Agriculture and Fisheries (AI4CAF)

1
2
3

PREDICTION MODELS

GROUND TRUTHING

CAPACITY BUILDING

References:

Relating Rural Access Index and Poverty in the Philippines

Justin Angelo O. Bantang, Statistical Specialist II, Philippine Statistics Authority

Measuring the Rural Access Index (SDG 9.1.1) for the Philippines

Candido J. Astrologo, Jr., Censuses and Technical Coordination Office, Philippine Statistics Authority

Going Beyond Measuring the Rural Access Index in the Philippines

Justin Angelo O. Bantang; Patricia Anne R. San Buenaventura; Joy Angiela H. Garraez

Philippine Statistics Authority

Use of Citizen-Generated Data for SDG Reporting in the Philippines: A Case Study

PARIS21, Philippine Statistics Authority, Philippine Statistical Research and Training Institute (PSRTI)

Mapping Poverty through Data Integration and Artificial Intelligence: A Special Supplement of the Key Indicators for Asia and the Pacific 2020

Asian Development Bank

Artificial Intelligence for Census of Agriculture and Fisheries (AI4CAF) Project

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Thank you

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