OPEN BANGSAMORO

Open Data for the Transition from the ARMM to the BARMM





Overcome Development Challenges through Visualization Dashboards

An Entry for Bangsamoro Data Challenge by Amistad, Adam and dela Cruz, Karlo

Outline



- Introduction
- Motivation
- Dashboard



Introduction

Our Team

Our Team



Adam Senior Data Analyst



KarloData Scientist

Outline



- Introduction
- Motivation
- Dashboard



Motivation

Development Challenges
Solution

Bangsamoro



The Bangsamoro Organic Law or BOL (Republic Act No. 11054) provides for the creation of the Bangsamoro Autonomous Region in Muslim Mindanao (BARMM), and it covers the provinces of Basilan, Lanao del Sur, Maguindanao, Sulu, and Tawi-Tawi, the same provinces as ARMM.

Will the BOL usher the start of poverty reduction in the region?

Bangsamoro Challenges

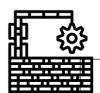
Some Development Challenges Identified:

Some **Persisting** Development Challenges Identified:

- 1. Low economic base
- 2. Limited access to credit
- 3. Weak support to the Halal industry
- 4. Insufficient irrigation systems
- Inadequate infrastructure support facilities (connective, water, electricity)
- 6. Weak revenue generation
- 7. Weak functionality of some LGUs
- 8. Insufficient delivery of services

- 9. Low education outcomes
- 10. Public order, peace, and security challenges
- 11. Vulnerabilities due to disasters (manmade and natural, climate change)
- 12. Low infrastructure density
- 13. Encroachment into forested and protected areas due to unmanaged population growth and unregulated urbanization
- 14. Uneven local governance performance and service delivery

Bangsamoro Challenges



Group 1: Infrastructure

- 1 Low economic base
- 4 Insufficient irrigation systems
- 5 Inadequate infrastructure support facilities (connective, electricity, water)
- 12 Low infrastructure density
- 13 Encroachment into forested areas due to unmanaged population and unregulated urbanization trends



Group 3: Social

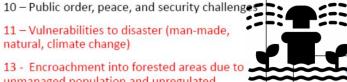
- 8 Insufficient delivery of services
- 9 Low education outcomes
- unmanaged population and unregulated urbanization trends
- 14 Uneven local governance performance and service delivery



Group 2: Economic

- 1 Low economic base
- 2 Limited access to credit
- 3 Weak support to the Halal industry
- 4 Insufficient irrigation systems
- 6 Weak revenue generation capacity
- 13 Encroachment into forested areas due to unmanaged population and unregulated urbanization trends

- 13 Encroachment into forested areas due to



13 - Encroachment into forested areas due to unmanaged population and unregulated urbanization trends

Group 5: Governance,

Peace & Order

6 - Weak revenue generation capacity

7 - Weak functionality of some LGUs 8 - Insufficient delivery of services

natural, climate change)

14 - Uneven local governance performance and service delivery

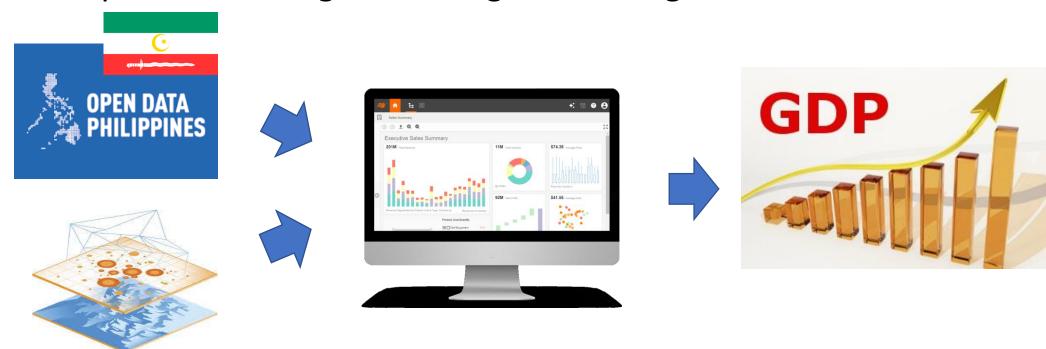


- 11 Vulnerabilities to disaster (man-made, natural, climate change)
- 13 Encroachment into forested areas due to unmanaged population and unregulated urbanization trends

Current Development Challenges are Grouped into these Categories

Solution

• Develop Generation Visualization Dashboard that address current development challenges for Bangsamoro Region.



"Proper Governance Guided by Data"

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Dashboard

Visualization Dashboard - Education

Sources

Note

Visualization Dashboard

Education



This Dashboard address social concerns on low education outcomes in Bangsamoro region. Using the spatial and school data, the dashboard presents the current progress of education in the region.

This Dashboard guides LGUs on how to mitigate problem in Public Education, such as building schools at the right location, hire right number of teachers, etc.





School Type

- ☐ Private Public
- ☐ SUC

School Category

- Elementary ☐ High School
- ☐ MD
- ☐ SUC

2,643

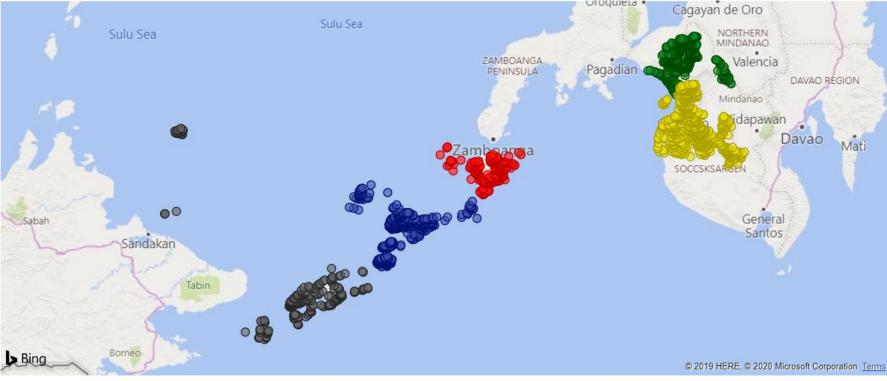
2,505

Number of Schools No. of Mapped Schools

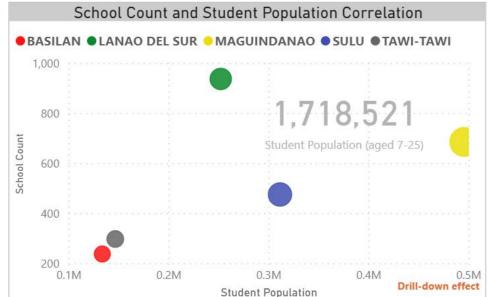
1,570

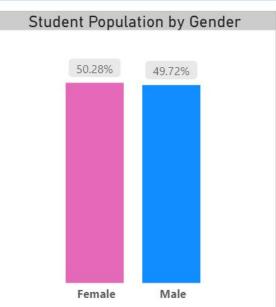
118

Number of Barangays No. of Municipalities

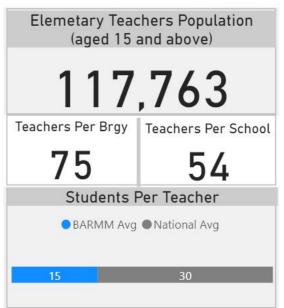








Oroquieta •



DAVAO RÉGION

Mati

Davao

General Santos







▶ ■ Lamitan City

Sources

https://app.powerbi.com/view?r=eyJrljoiNzRkZTA 2ZmQtMWQ4NS00YmE5LTllZGUtZGI1MzU0Mzc1Y Tk2IiwidCl6ImE2NTFIM2M3LTU1M2ItNGNmNy05 Y2I3LTFIMDZjYjQ0MWIwYSIsImMiOjEwfQ%3D%3 D

Note

Given a Chance to be Selected, we can expand our topic on other development challenges, such as Infrastructure, Peace & Order, Economic and Environmental.











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DATA ETHICS PH



An Entry for Bangsamoro Data Challenge **END**