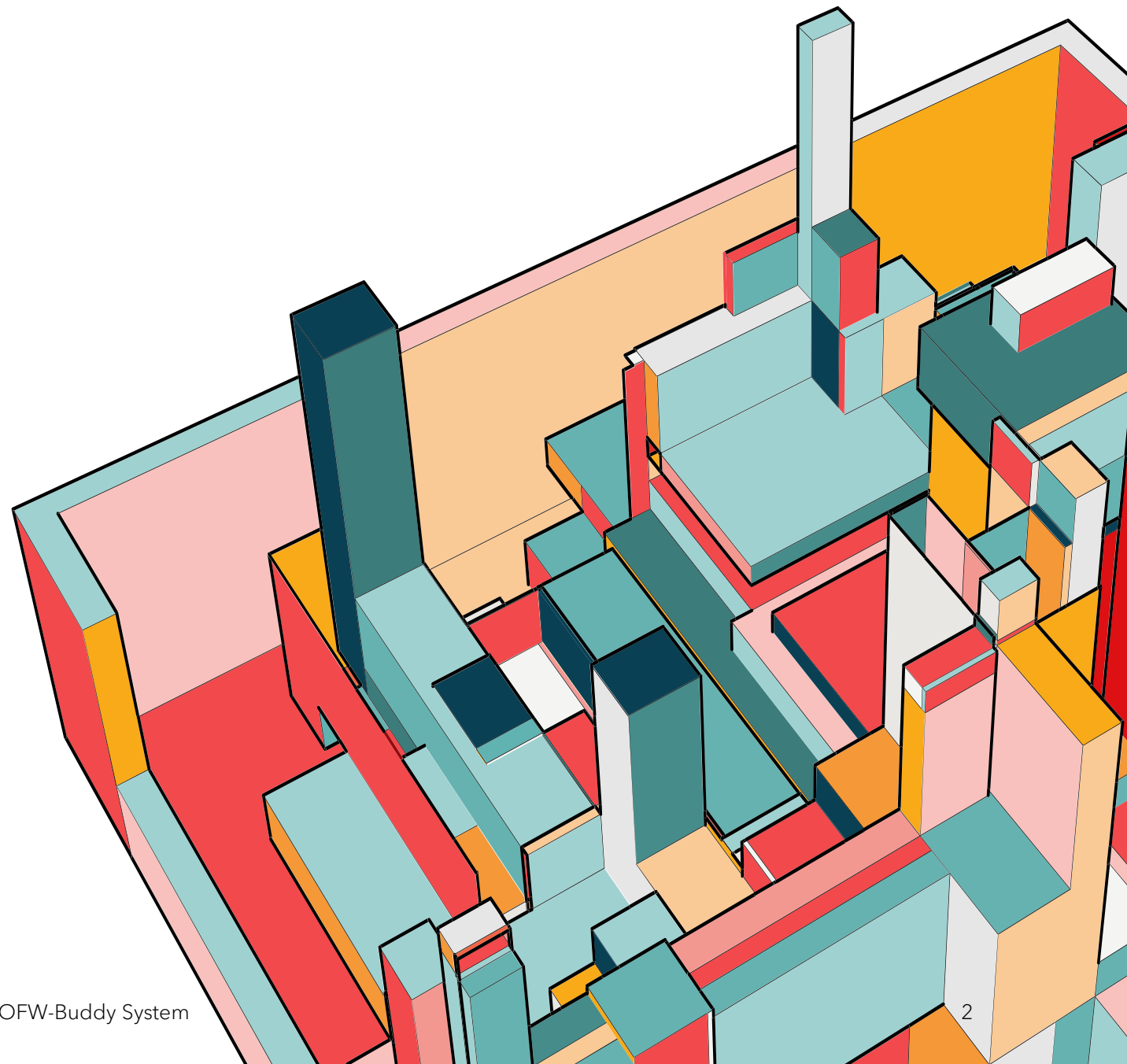# "MARE-TES" OFW-BUDDY SYSTEM

Cynthia A. Duque

Beulah Grace A. Duque

ABOUT US

Mikas68 is still a business and domain name.

Our aim is to harness the potential of data analytics and machine learning technologies in solving lingering issues that are generally attributed to late reporting and under-utilized data.

"Mare-tes" OFW-Buddy System

PROBLEM

GAP

Fair, ethical and gender-responsive recruitment of OFWs

COSTS

Early detection of potential danger is difficult and late intervention is costly

CUSTOMERS

Lack of an automated peer reporting mechanism for timely monitoring of the OFW status

ALTERNATIVE SOLUTIONS

Currently known solutions are apparently reactive:

- DFA's Assistance to Nationals (ATN) system
- DOLE-POLO's "Kumusta, Kabayan" health monitoring app originally developed by WHO
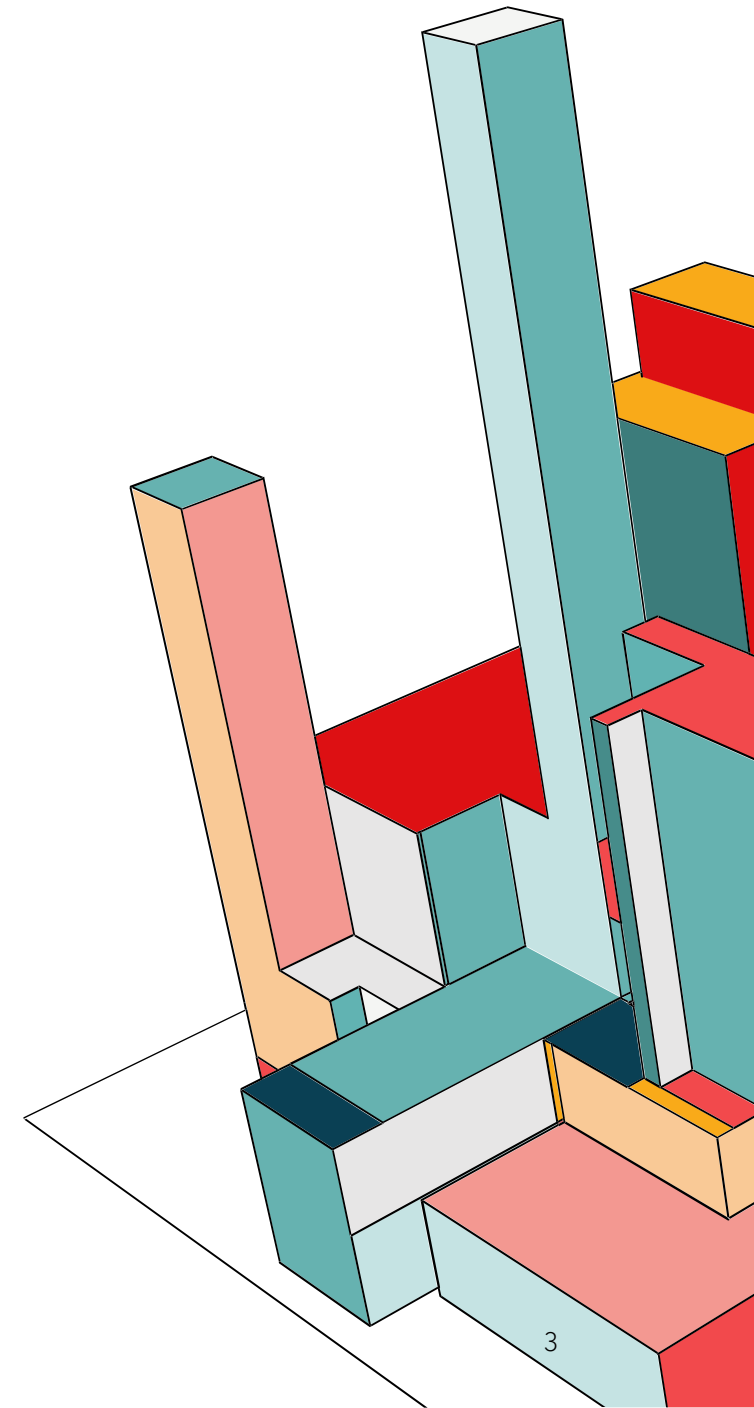
SOLUTION

CLOSE THE GAP

MOBS is an automated OFW-buddy system and a machine learning model that would enable early detection of potential danger

TARGET AUDIENCE

Overseas Filipino Workers, the Philippine Consulate

COST SAVINGS

Reduce the costs of late interventions

EASY TO USE

A homey and diagnostic mobile app for timely peer reporting of danger hunches and an intuitive Data Analytics Dashboard for the Philippine Consulate

PRODUCT OVERVIEW

UNIQUE

It is a digital "safe-room" in a foreign land that is shared by the OFW, the OFW-buddy, and the Philippine government

PROMPT

Signals from regular "Mare-tes" or "Kumustahan" can promptly reach the government agencies through a mobile app

TESTED

Buddy system has long been an effective support system in the military; and generally, Filipinos have natural fondness for "Mare-tes" or "to snoop around" other people's business

AGILE

It is both adaptable and applicable to other similar problems (e.g., harassment in school and work, etc.)

PRODUCT BENEFITS

1 **MOBS Mobile App**

MOBS mobile security features:

- KYC registration
- TLS/SSL
- Notification bell for feedback

MOBS assessment features:

- Self-Assessment
- Emoji Validation
- Buddy-Assessment

MOBS diagnostic features:

- "Usap tayo" chatbot
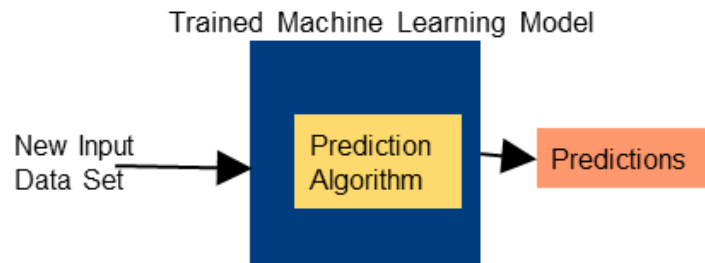- "Balita" links to important news
- Doodle Pad

MOBS Buddy feature

- Information about the app and warning against abuse
- Button to choose/ replace a buddy
- Unsubscribe button

PRODUCT BENEFITS

2

MOBS ML Solution

Trained Machine Learning Model

New Input Data Set → Prediction Algorithm → Predictions

gartner.com

Status Scoring is vital to the generation of insights

- would guide policy analysis,
- support decision making, and
- drive preventive interventions

MOBS is highly dependent on the completeness of the three scores:

- Self-Assessment
- Emoji Validation
- Buddy-Assessment

Hence, a missing Buddy-score will be predicted using the other two scores and the following important diagnostic features and system logs:

- "Usap tayo" chatbot – a click could manifest the desire to communicate
- "Balita" links – a click may show mental state and need
- Doodle Pad – a click may present a need to allow pressure to be dispelled in a playful and creative way
- Minimum Interval of reports
- Frequency of reporting

Limitation

- Situations where the missing value is the self-score, was not considered nor handled in this version.

PRODUCT BENEFITS

3
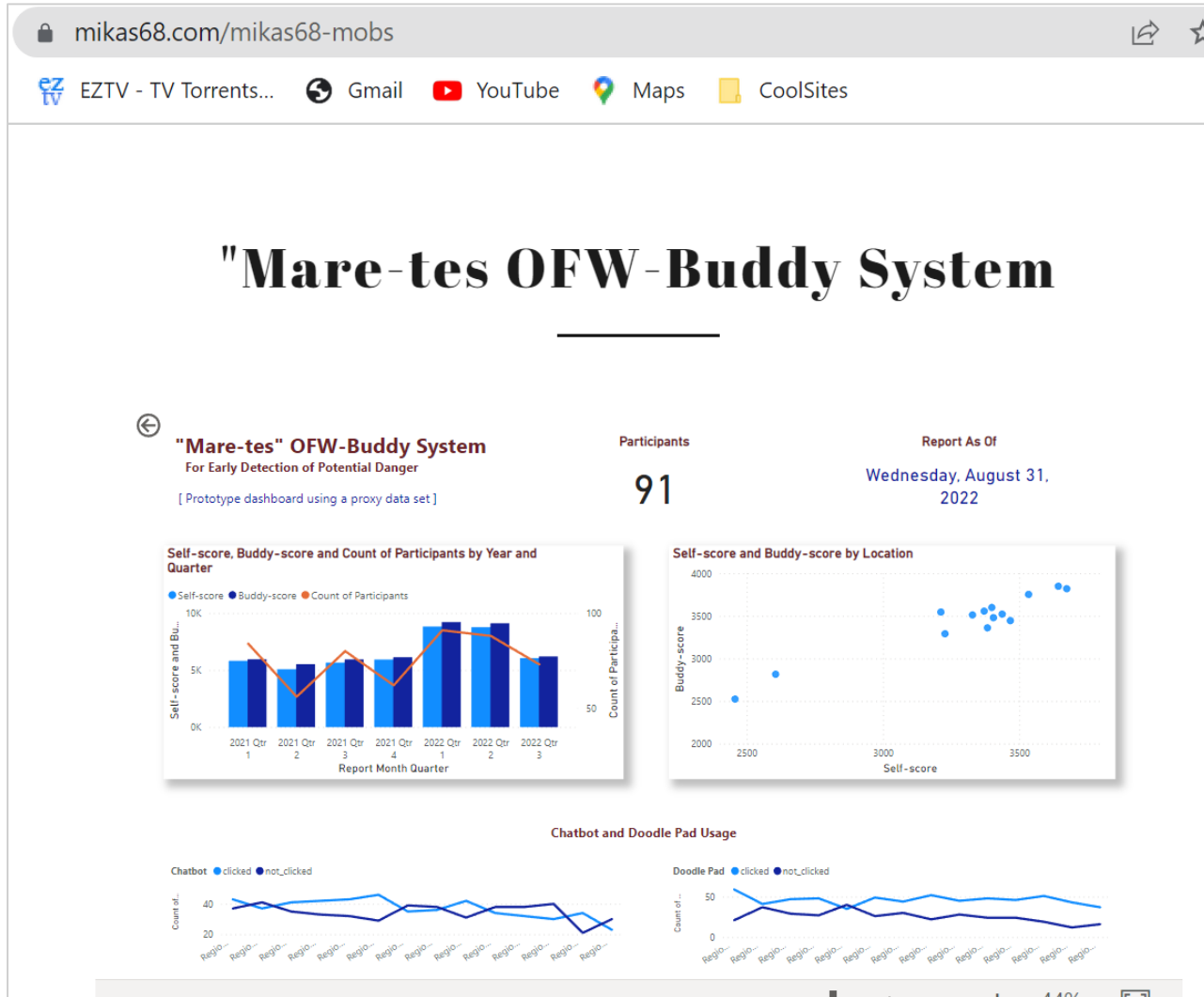
MOBS Analytics Dashboard

The dashboard is a tool that could

- Guide policy analysis
- Support decision making
- Drive preventive interventions that may include a smooth and well-prepared reintegration process in order to rebuild and strengthen the Filipino homes

Prototype link:

https://www.mikas68.com/mikas68-mobs

BUSINESS MODEL

RESEARCH

We based our research on existing data, observations, and OFWs' testimonies

DESIGN

We believe that an ultimate improvement of the OFWs' lives is one that is perfected by a healthy and early reintegration process
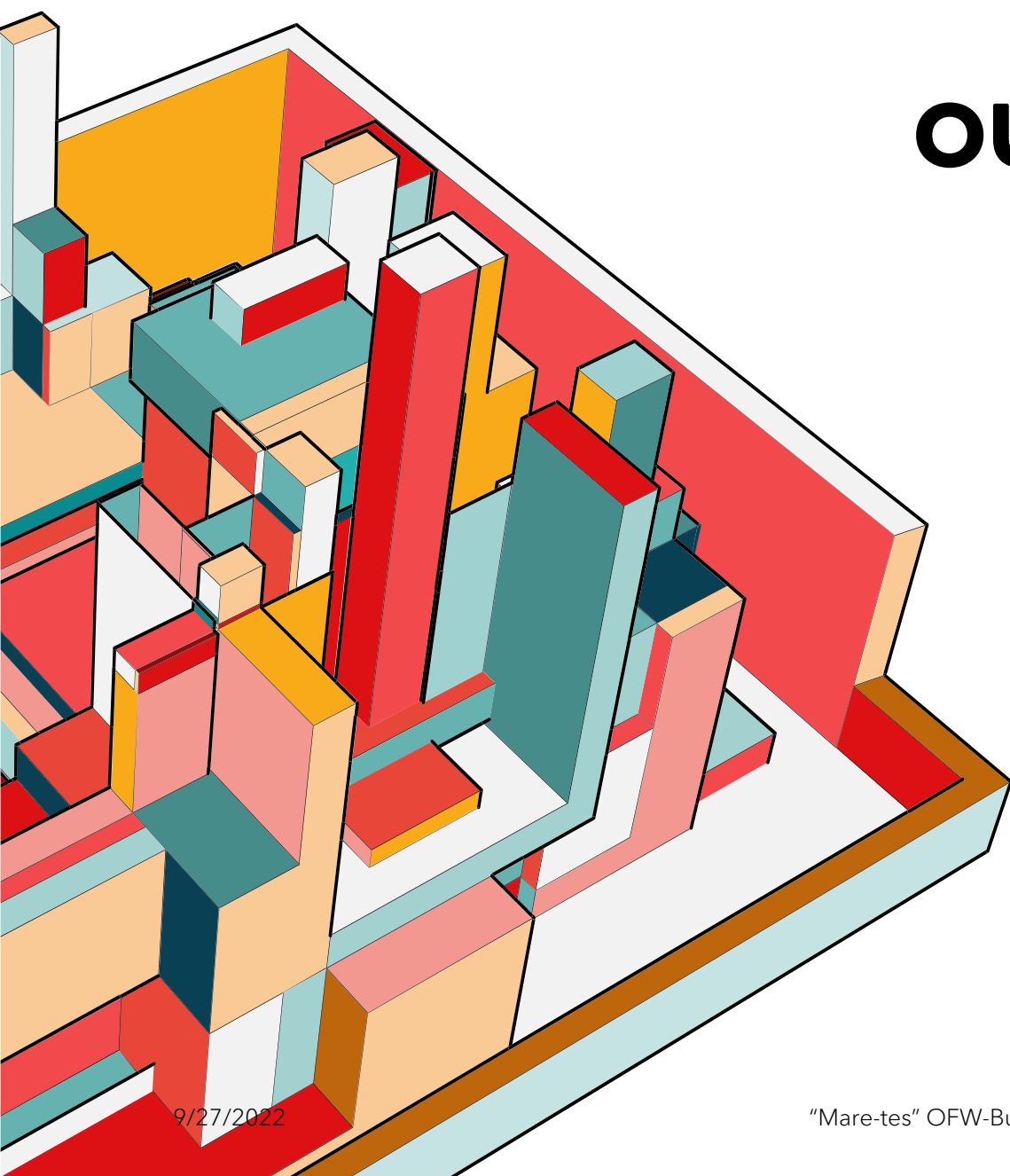
ABSTRACT

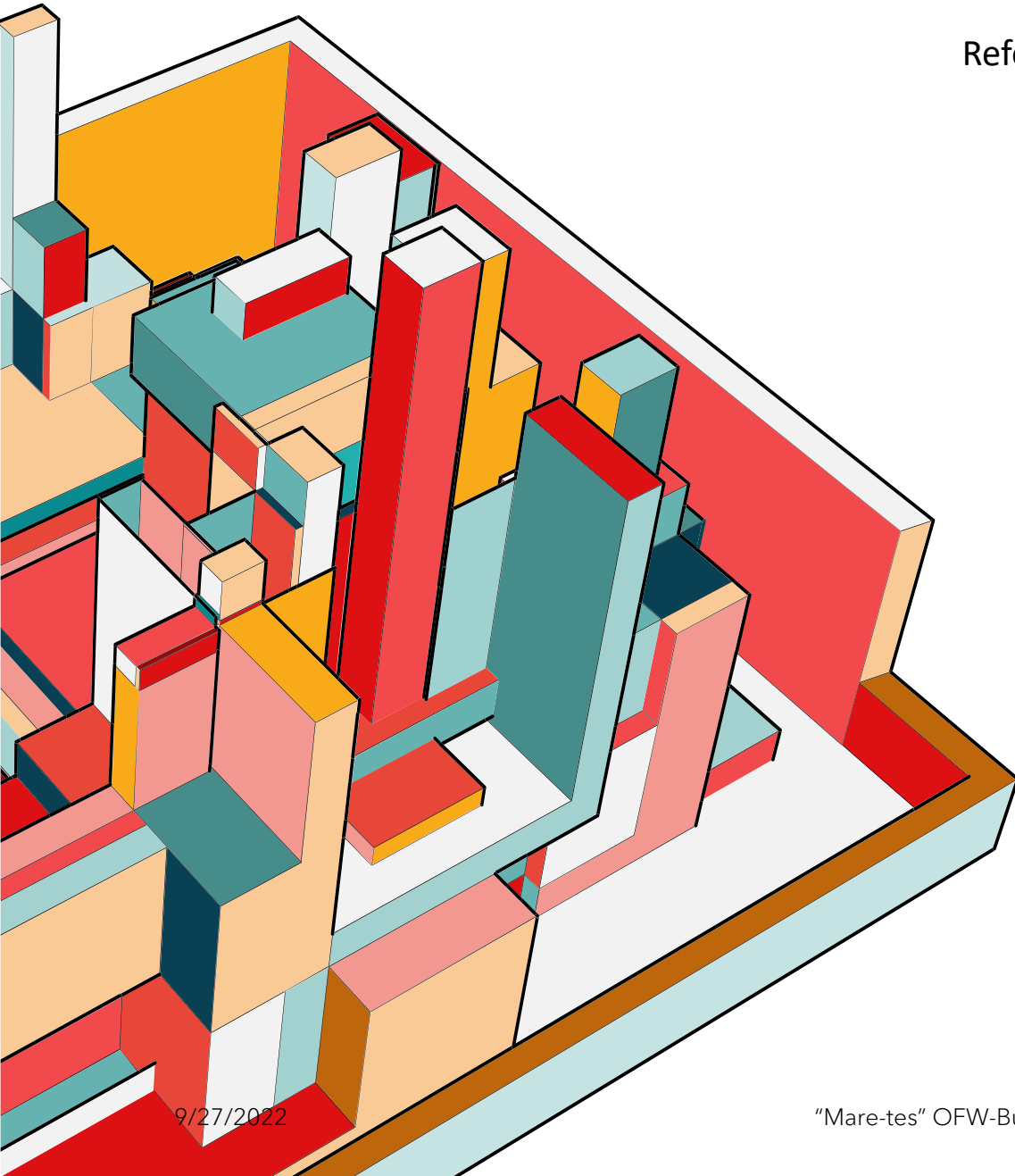Minimalist design and accurate data models

FUNDING

- API/ Data Services

- Grants

- Donations

- Consulting Services

OUR CODE

ACT JUSTLY,
LOVE MERCY,
WALK HUMBLY
with your God.
Micah 6:8

createspacetogo.com

References:

Philippine Identification System. https://www.philsys.gov.ph/

Assistance to Nationals. https://www.philippine-embassy.org.sg/consular/assistance-to-nationals/

Statista. Number of reported cases of maltreatment against overseas Filipino workers (OFWs) in 2020, by region of employment. https://www.statista.com/statistics/1271337/philippines-abuse-incidents-against-ofws-by-region-of-employment/

Toshniwal, R.Machine Learning Project | Predicting Student Marks | Python. https://github.com/rachittoshniwal/ML-projects/

THANK YOU

Cynthia and Beulah

duquecyndi@gmail.com

beaduque88@gmail.com