

DIGITAL TRANSFORMATION AND GOVERNANCE IN THE PHILIPPINES

Francisco A. Magno, PhD

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Nature of Digital Transformation

Digital
Technologies
(Traditional &
New)

Strategy

Business Models

Customer
Experience

Managing
Change

Dx Layers of Engagement

Policy & Institutional Level

Revision of PDTS 2022

Harmonization of other DICT policies and plans (e.g. EGMP 2022, NICTES, etc.)

Strengthening the DICT as an organization

Infrastructure & Secure Environment

Improve the PH internet connectivity

Cyber Defense & CS Governance Model

Applications Development & Procurement

Fast track the implementation of IGOVPhil

Development of common standards for interoperability in government

Good Governance and Citizen Engagement

Push for Open Government

Mechanisms for citizen engagement to foster innovation

Riesgo

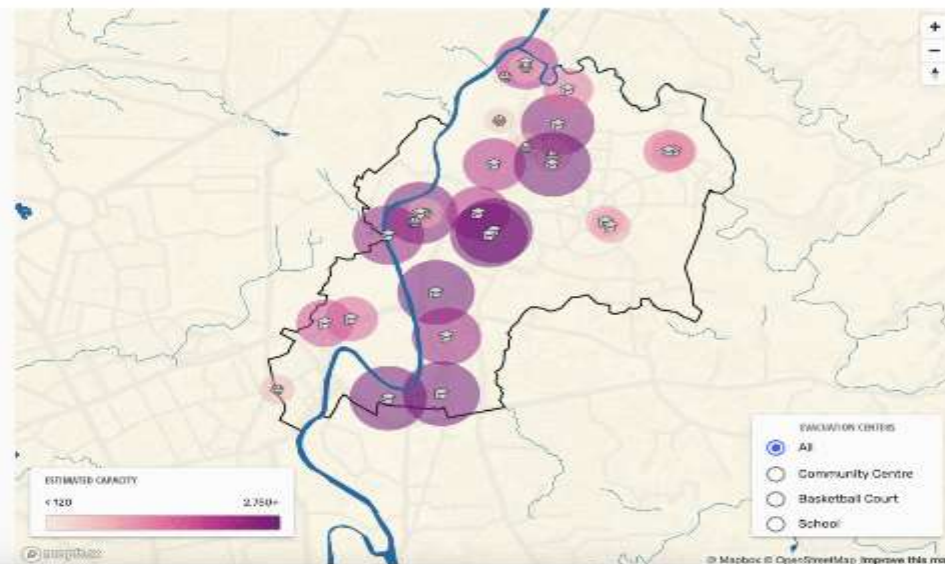
Visualizing Marikina's Flood Hazards

Estimated Capacity

Now that we know the ideal number of people that each evacuation should serve, **how many can they actually fit?** We got the total floor areas and computed for the estimated number of people that can comfortably stay in these shelters (5 sqm of space per person). All locations had an estimated capacity **way below their ideal coverage**, which means there won't be enough space if everyone within close proximity have to evacuate. On average, there is a sizeable difference of **10,416 people** that will underserved per evacuation center.



To illustrate some of these differences, **Sempaguita Gym** has an estimated capacity of only **123 people** evacuating and staying comfortably in its vicinity. However, because of the dense population within close proximity, it needs to



<https://comet.dlsu.edu.ph/riesgo-vis/>



Platforms like these can be built to showcase the disaster risk reduction efforts of different local government units.

Moving closer to home, a couple of our assistant professors from the College of Computer Studies extended the undergraduate thesis of their alumni and created a storytelling visualization tool showcasing the flood hazards of Marikina City. The visualization was submitted to #VizRisk - a disaster data and map design challenge last July 15, 2019. The challenge is hosted by the World Bank, the Global Facility for Disaster Risk and Reduction (GFDRR), Mapbox and the Data Visualization Society. This entry won the Grand Prize for overall best visualization and also a category prize of Best Interaction Design. This project was limited because it was built utilizing only publicly available data - such as maps from NAMRIA and point of interest data from OpenStreetMap.

Provided we can gain access to other government data that can eventually be published as open data, we can develop other interactive visualization tools that can tell a story, monitor progress, inform decisions and many more.

City-University Innovation Hubs

- DICT as an integrator or conduit for other sectors to participate and contribute
- Major SHs and players are the following: Telecoms, IT companies, MSMEs, LGUs, Academe and CSOs
- Problem-centric/ needs-based approach to innovation through RDxIH hubs or labs
- Need for strategic communication

