

Analyzing Stakeholder Engagement in Cebu, Philippines during Typhoon Odette

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Introduction

Over the last decade, the province of Cebu, Philippines has emerged as one of the most vulnerable regions to climate change impacts^{1,2,3}. In 2013, Cebu was victim to super Typhoon Yolanda and the Bohol Earthquake, and more recently in 2021, Cebu was hit by super Typhoon Odette^{1,4}. Given the growing severity of climate-related risks and disasters, as well as the significant role of private sector actors in Cebu's disaster risk management and reduction, this research seeks to characterize the contribution of private sector actors in the immediate relief operations following the 2021 super Typhoon Odette within the province's capital of Cebu City. Over the course of five months, we conducted and analyzed 17 semi-structured interviews with private relief providers to identify the risks and benefits of private sector-led climate resiliency within the context of limited public resources.

Background

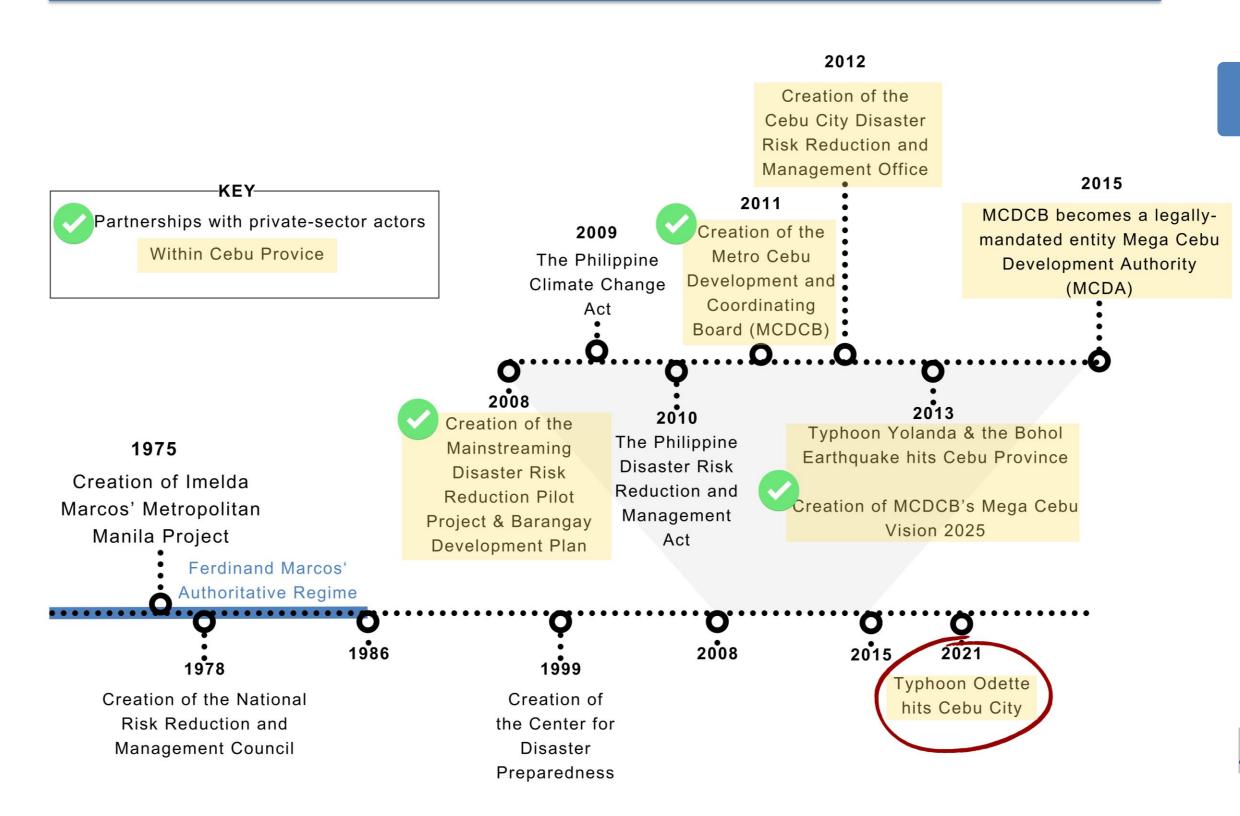


Figure 1: Timeline of Public & Private-led Disaster Risk Reduction & Management in the Philippines

Cebu & Climate Vulnerability

- Susceptible to "slow-onset climate change impacts" but most vulnerable to **flood risk, landslide risk, and fire risk**, exacerbated by inadequate sewage drainage systems and energy supply. 1, 3
- Informal settlement dwellers (30 percent of households in the city) are at highest risk.³

Methodology

The research question is addressed through the implementation and analysis of **semi-structured interviews**^{5,6} with private sector immediate relief providers. A snowball approach⁷ was utilized to identify and engage with interview participants abroad.

I. ACTIONS TAKEN TO DISTRIBUTE EMERGENCY RELIEF GOODS

II. PREPARATION & METHODS FOR SELECTING RELIEF RECIPIENTS

INTERVIEW SURVEY OBJECTIVES

III. INTERACTIONS
WITH RELIEF
RECIPIENTS

IV. MOTIVATION & BUSINESS IMPACT

Note: In cases where public-sector stakeholders were interviewed, the survey was modified slightly to address the policy and partnerships underlying public action.

Research Guidelines

Interviews were conducted both in person and via Zoom.

One-on-one interviews were preferred, but group interviews were conducted in cases where the primary interviewee felt more comfortable sharing their perspectives with a group of their peers.

Each interview was scheduled to fit within a 30-to-45-minute time frame.

Each interview was conducted in English. *Bisayat* was used where interviewees did not know the English translation for a word. In these cases, we consulted a native translator and used context clues for interpretation.

Analysis Process

Transcribe recorded data through Otter.ai.

Identify and analyze keywords to identify three major themes (Open Coding⁸).

Perform Closed Coding⁸ analysis.

Works Cited

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Analysis

The sample includes 19 audio recordings, 17 of which consisted of dialogue encompassing the survey questions in its entirety. Eight interviews were conducted in an online capacity, while nine were conducted on site in Cebu City, Philippines. The interviews cover 13 relief distribution initiatives: nine private-led during Typhoon Odette, one public-led during Typhoon Odette, and two private-led during Typhoon Yolanda.



Club of Cebu



Figure 2: On-site Data Collection

-Records for Public Assistance

Collection – Visit to the Rotary
Club office

Figure 4: On-site Data Collection – Interviewing Individuals

Collaborations Among Private & Government Entities

- **Private-private collaborations:** to organize resource accumulation and distribution methods.
- Public-private partnerships: to deliver relief goods the island of Cebu and to identify need.

Addressing Major Distributional Challenges

- Logistical complications due to infrastructural damage and the Covid-19 Pandemic.
- Maintaining **political neutrality** during distributions to overcome the perception of political bias within the public relief distribution system.

Sentiments Motivating Involvement

- Religious motivation, positive business perception, familial ties with specific organizations, and community expectation.
- Action-driven cultural upbringing was the primary basis of most answers to this question.

Conclusion & Future Discussions

As climate change impacts have continued to grow in severity, Cebu City continues to be extremely vulnerable to natural disasters. Amidst the localization of disaster management within the country and given the strength of the city's local private sector, these stakeholders play an essential role in providing short-term aid to target communities, specifically as private networks facilitate the collection, transit, and dissemination of short-term relief goods. **Future research** may expand the population of interest to compare the perceived contributions of private sector relief providers with that of aid recipients and explore the long-term impact that these providers may have in the creation of climate resiliency.