

# BUILD BACK BETTER ANALYSIS

Date: 05-05-2020

Author: Ma Jealyn Valenzuela, Dr Sandeeka Mannakkara, Shankar Neeraj

Affiliation: The University of Auckland

## What is Build Back Better?

Building Back Better (BBB) as a holistic concept using post-disaster reconstruction and recovery as an opportunity to improve a community's physical, social, environmental and economic conditions to create a more resilient community effectively and efficiently. A framework (Figure 1) developed by Mannakkara and Wilkinson (2014) presents a holistic approach to reconstruction and recovery identifying it as a three-pronged approach including Disaster Risk Reduction, Community Recovery, and Effective Implementation.



Figure 1: Build Back Better Framework © Mannakkara and Wilkinson, 2014,2016

### Purpose of the study:

This study helps the researcher to determine the recovery status of Salcedo, Philippines using recently developed Build Back Better Tool. Also, this study aims at identifying the areas that need improvement and suggesting the best practices to enhance the recovery process.

### Data Collection:

A tool developed by Neeraj, Mannakkara and Wilkinson (2018) based on the above BBB framework (Figure 1) was used to collect data on the recovery process. The BBB tool was presented to experts to rate the indicators based on the current recovery status of Salcedo, Philippines after Super Typhoon Haiyan. Along with BBB tool ratings, the researcher conducted interviews and reviewed official documents on recovery to have a better view of the recovery process.

# Is Salcedo Building Back Better after the Super Typhoon Haiyan?

According to the survey results, Salcedo is Building Back Better after Super Typhoon Haiyan.

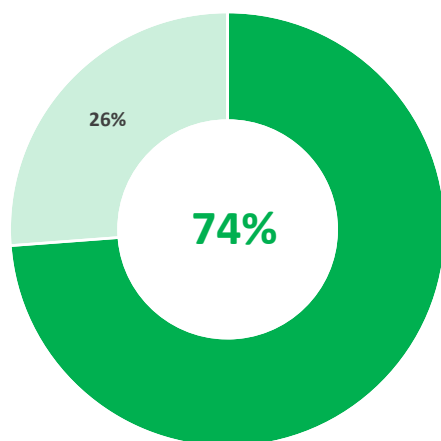
This was concluded after reviewing the official articles on recovery, transcribing the interviews and the BBB tool ratings provided by the experts.

## Survey Results:

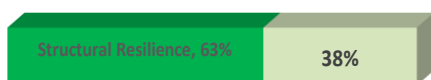
The analysis below will help you understand how Salcedo, Philippines is performing under the three dimensions of BBB framework. Performance ratings are calculated using the actual recovery to the ideal recovery.

### Disaster Risk Reduction

Though Disaster Risk Reduction scored low in overall performance ratings than other dimensions of the BBB framework, the principle Early warning and DRR education(EW) under this dimensions achieved more than 90% of performance ratings. Structural Resilience (SR) stood last amongst all other principles with a performance rating of less than 65% and Multi-hazard based Land-use planning (MH) scored just 85%. Please find the below recommendations to improve the recovery process:



Disaster Risk Reduction



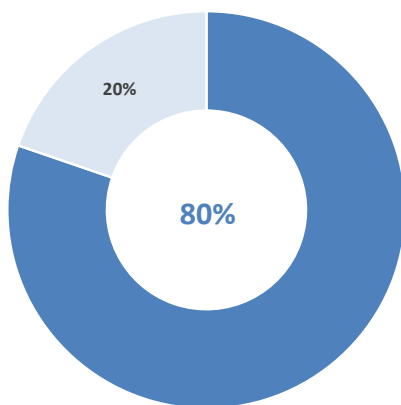
### Recommendations:

- **SR4- Communication with stakeholders regarding regulation changes** – Provide education to relevant stakeholders on post-disaster building regulation changes prior to commencing rebuilding work.
- **SR6- Incentives to promote structural improvements** – Plan and provide incentives (e.g. funding, resources, low-interest loans, tax discounts etc.) to promote adoption of structural improvements in homes, buildings and infrastructure
- **SR8-Improve redundancy and transitional arrangements** – Plan and put in place redundancies and transitional arrangements prior to disasters to relieve pressures on fast and reactive rebuilding activities (e.g. transitional accommodation, alternative travel routes etc.)
- **SR10- Incentives to attract skilled builders**– Plan incentives or special arrangements prior to a disaster (e.g. alliance or public-private partnerships, facilities for builders, discounted goods etc.) to attract skilled certified builders to meet reconstruction demands
- **SR11- Professional supervision**– Enforce and arrange professional supervision for owner-built homes for quality assurance

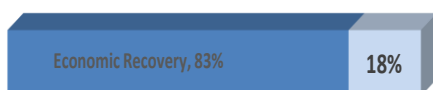
- **SR12- Recovery advisory services**– Put in place a free rebuilding advisory service with qualified rebuilding advisors to support, educate and assist home-owners who are rebuilding
- **LP1- Risk Zone Maps**– Obtain an accurate, up-to-date understanding of all hazards in your community by conducting multi-hazard assessments and develop clear risk zone maps
- **LP5- Educating stakeholders and community regarding revised land-use plans**– Provide education to stakeholders and the community on disaster risk and revised land-use plans prior to rebuilding
- **EW1- Hazard prediction**- Utilise and adopt new science-based research together with local knowledge to improve the accuracy of hazard predictions

## Community Recovery

Community Recovery dimension of the BBB framework was ranked one amongst others. Psychological and social recovery (PR) has a performance rating closer to 80%, and Economic recovery (ER) scored 83%. Please find the below recommendations to improve the recovery process:



Community Recovery



### Recommendations:

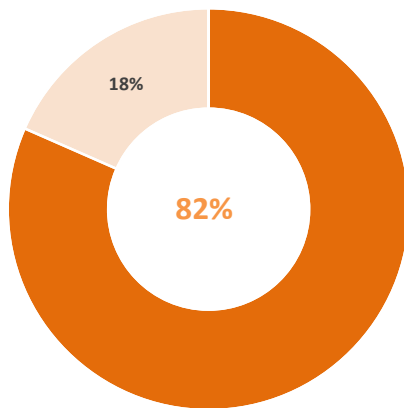
- **PR4 - Activities to create communities togetherness**– Organise activities and support groups to bring the community together and build social cohesion. Focus on creating a sense of community and togetherness
- **PR7 - Community input** – Empower the community by incorporating grass-roots methods for recovery. E.g. Creating/utilising community groups to get community input for planning, decision-making and various aspects of the implementation of rebuild and recovery
- **ER5 - Tracking economic recovery**- Adopt an effective measurement tool to track economic recovery progress
- **ER9 - Alternative business options** – Consider alternative options if economic recovery progress is poor. E.g. introducing a big business (such as a conference centre, shopping mall, sports stadium) to boost the economy, create new jobs and attract residents and tourists

## Effective Implementation

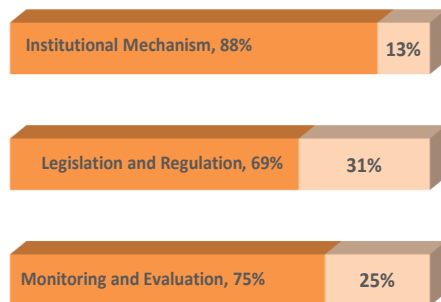
Effective Implementation scored an overall performance rating of 82%. Principles such as Institutional Mechanism (IM) and Monitoring and Evaluation (ME) received performance ratings of 88% and 75%. But, Legislation and Regulation (LR) scored just less than 69%. Recommendations are provided below to improve Effective Implementation, thereby improving the overall recovery process.

### Recommendations:

- **IM6– Information Database** – Adopt and maintain a thorough information database with systems for easy and transparent access to information between stakeholders involved in rebuilding and recovery
- **IM10– Quality assurance for recovery activities** – Put in place an appropriate quality assurance mechanism for recovery activities (e.g. using qualified reputed stakeholders for recovery activities, providing training prior to recovery work)
- **IM11– Transition strategy planning** – Plan and implement an effective and appropriate exit strategy to transition smoothly from rebuilding and recovery operations to business as usual.
- **IM12– Monitoring and Evaluation** – Put in place an easy mechanism for monitoring and evaluation of recovery progress and to transfer lessons learnt to local and national Government and all relevant stakeholders for future resilience work, pre-disaster planning, emergency management and post-disaster recovery.
- **LR2- Legislative Provisions** – Ensure flexibility in end dates of legislative provisions to correspond with actual recovery activities and progress/lack of progress.
- **ME1– Comprehensive data collection** – Adopt and put in place an easy mechanism to collect comprehensive data about the on-going recovery effort to track progress, monitor quality and ensure compliance with Build Back Better concepts



Effective Implementation



-Thank You-