

### ANNEX 19 BRACE Summary Logframe

Project Description	Key Indicators	Means of Verification	Assumptions
GOAL: Reduce the vulnerability and enhance the resilience of Metro Manila, initially in pilot Taguig City, to the impacts of natural disasters and climate change	Reduced disaster losses in lives, economic and community assets	NDRRMC Disaster Situation reports Taguig City Disaster Risk Reduction and Management Council reports	
	Reduced number of informal settlers living in danger-zones in Taguig City	National Housing Authority reports on informal settlers Housing and Urban Development Coordinating Council (HUDCC) Reports , Taguig's Urban Poor Affairs Office Barangay census reports.	
	Improved socio-economic status of relocated families and vulnerable communities	Local Statistical Surveys NSCB statistics	
	Reduced duration of displacement and less number of families displaced from their homes, economic activities and social networks after a disaster	DSWD disaster reports Urban Poor Affairs Office reports	
	More organised and faster response time of LGUs during disasters	NDRMMC reports Participatory surveys	
	NGOs, private sector, community, LGU, and the national government are coordinating at policy and operational levels	Committees formed and resolutions passed	

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<b>Component 1: Risk Analysis</b> This component logframe was jointly developed by Geosciences Australia and the NDRRMC-CSCAND and is currently implemented.			
<b>Component 1 Objective:</b> Enhance the capacities of national government technical agencies to analyse the risks from flood, severe wind and earthquake in the Greater Metro Manila Area			
<b>Output 1.1</b> High-resolution digital elevation data and imagery (LiDAR) for Metro Manila	The high-resolution elevation data and imagery is available to CSCAND agencies to undertake flood, earthquake and severe wind risk modelling in the GMMA.	A provider for LiDAR will be identified, and contracts in place, by December 2010. LiDAR acquisition will occur between January and March 2011 Final LiDAR products to be available by June 2011	
<b>Output 1.2</b> A seamless digital elevation dataset is available for the Greater Metro Manila Area	A seamless elevation dataset is available to CSCAND agencies to undertake flood, earthquake and severe wind risk modelling in the GMMA.	Training will be provided to NAMRIA staff through staff exchanges between September 2010 and December 2011. Seamless elevation dataset is available by December 2011.	
<b>Output 1.3</b> Increased knowledge and skills within NAMRIA to acquire, process and store high resolution digital elevation data and combine with bathymetry to create a seamless elevation dataset	NAMRIA staff are able to use skills acquired to develop high-resolution digital elevation datasets required for natural hazard risk.	High resolution LiDAR data available for use by Philippine technical agencies by June 2011. Seamless elevation dataset is available by December 2011. Data storage infrastructure in place at NAMRIA by June 2011.	
<b>Output 1.4</b> Exposure database is available for the Greater Metro Manila Area	Exposure database is available to assess flood, severe wind and earthquake impacts and in the future other hazards and climate change impacts	Engagement with data providers between July 2010 and December 2011. Pilot database is available for Taguig City by September 2011. Full database finalised by September 2012. Training is provided to exposure database custodian October 2012 to March 2013 to ensure that long-term sustainability	
<b>Output 1.5</b> Increased knowledge and skills within the Philippines technical agencies to contribute to the development of exposure data and use for natural hazard risk assessments.	The Philippines technical agencies can use exposure data within the flood, severe wind and earthquake risk modelling environments.	Training provided to GoP agencies between Sep 2010 and September 2012. Workshop is held develop a strategy for exposure database development in the GMMA by Dec 2011.	
<b>Output 1.6</b> Flood hazard and risk information is available for the Pasig-Marikina watershed and the City of Taguig.	Flood hazard and risk information is available for the Pasig-Marikina basin and the City of Taguig	Collection of existing flood data – July 2010 to June 2011 Preliminary flood hazard information is available for Taguig City in June 2011. Vulnerability models for flood developed by March 2012 Flood inundation modelling completed by Dec 2012 Flood risk information is available for the Pasig-Marikina basin by March 2013.	

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<b>Output 1.7</b> Increased knowledge and skills within PAGASA and MGB to assess flood hazard and risk, and information developed for the Pasig-Marikina basin and the City of Taguig.	PAGASA and MGB are using a hydrodynamic model to determine flood inundation extents for different scenarios and are able to integrate this information with exposure and vulnerability to assess risk.	Training provided to PAGASA and MGB staff on flood inundation and risk modelling between Sept 2010 and March 2012. A succession plan is developed by March 2013 to reproduce the flood risk assessment in another watershed	
<b>Output 1.8</b> Severe wind risk information is available for the GMMA.	Severe wind hazard and risk information is available for the Greater Metro Manila Area	Collection of existing data – July 2010 to March 2011 Modelling is used to determine the frequency and severity of typhoons affecting Manila – Jan to June 2011. Vulnerability models for severe wind modified by March 2011 Severe wind impact modelling completed by December 2012	
<b>Output 1.9</b> Increased knowledge and skills within PAGASA to assess tropical cyclone severe wind hazard and risk, and information developed for the GMMA.	PAGASA is using severe wind modelling to determine the impacts from different tropical cyclone events and are able to integrate this information with exposure and vulnerability to assess risk.	Training provided to PAGASA staff on tropical cyclone severe wind and risk modelling between Sept 2010 and Dec 2012. A succession plan is developed by March 2013 to reproduce the severe wind impact analysis for another community.	
<b>Output 1.10</b> Earthquake frequency and magnitude information is better understood and earthquake risk information is available for the GMMA	Technical specialists within PHIVOLCS have increased data to better constrain earthquake frequency and magnitude for the dominant Manila fault system. Earthquake risk information is available for the GMMA.	Studies on active Manila faults are undertaken between Jan and December 2011. Vulnerability information is finalised by June 2012. Earthquake impact modelling is complete by December 2012.	
<b>Output 1.11</b> Increased knowledge and skills within PHIVOLCS to determine the frequency and impact of earthquakes	PHIVOLCS has an increased range of techniques that it can apply to understanding earthquakes in the Philippines	Training provided to PHIVOLCS staff on different earthquake assessment techniques.	
<b>Output 1.12</b> Stakeholders in the GMMA receive, and are educated about, flood, severe wind and earthquake risk information that can be used to inform DRR activities, particularly land use planning, contingency planning, and early warning system.	The results for earthquake, severe wind and flood are available for GMMA. The CSCAND agencies are trained in the methodologies to develop this for other locations.	Technical notes on all outputs prepared as the Activity progresses. Final risk and impact information is available by March 2013. Training of local DCCs and emergency managers on use of risk information undertaken on 2012 onwards. Local DCCs and emergency managers undertake IEC activities for local communities from 2012 onwards.	

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<b>Component 2: Community-Based Disaster Risk Management (CBDRM)</b>			
<b>Component 2 Objective:</b> Build the capacities of communities in up to 28 barangays of Taguig City to practice disaster risk reduction strategies and protect their communities from natural disaster and climate change impacts			
<b>Output 2.1</b> Institutional policies, structures and procedures are in place and functioning with sufficient political and budgetary support at the barangay and city government levels in Taguig City	Each target barangay has an activated BDCC, supported by a BDAT (merged with BERT, as applicable)	NDRRMC reports Implementing Group progress reports	NDRRMC has enough human resources to activate 28 BDCCs of Taguig City
	Inventory and Database of BDCC & BERT (the latter where existing) members and resources completed	Metro Manila Development Authority database	Taguig City Government is willing to develop and maintain database;
	No. of Local resolutions incorporating DRM strategies/activities into barangay development planning and budgeting process passed	Copies of Barangay Ordinances and Council Resolutions	Taguig City Government is willing to monitor and support Barangay Development Councils
	Memorandum of Agreement between PRC, Taguig City and BDCs signed	Copy of signed MOU	
<b>Output 2.2:</b> Community residents are trained in emergency response and disaster risk management	Hazard, Risk Vulnerability and Capacities are assessed, documented and disseminated in each barangay	Component 1 and 2 Implementing Group progress reports	CBDRM activities are seen as an integral part of the BRACE program by the Taguig City Government PRC Human Resources are able to provide support to project activities
	Each BDCC is fully equipped (including Early Warning System) and functional	Participatory audit reports	
	A pool of multisectoral and multidisciplinary, organized, trained, skilled and equipped volunteers are formed and capacitated as necessary to support BDCCs	Component 1 and 2 Implementing Group progress reports PRC Field Reports	
	Database of training graduates/volunteers developed	Training Documentation	
	Barangay disaster action plans and contingency/emergency plans are prepared/updated for each target barangay or cluster of barangays	Minutes of Meeting and Barangay records	
	Barangay development plans and budgets incorporate recommended on DRRM practices	Barangay records	
<b>Output 2.3</b> Good quality and affordable mitigation measures are in place and are maintained by the participating communities and/or barangay and city government	Taguig City Government assists in assessment and support of mitigation measures (e.g. cost-benefit; environmental impact; coherence with City Development Plans)	Training Documentation Field Reports BDCC Reports Proposals for mitigation measures	Project is not used for vested political interests All parties involved are committed to working with each other
	BDCCs take responsibility in implementing disaster mitigation activities		
	Mitigation activities are sustained by BDCCs		

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<b>Component 3: Risk-Sensitive Land Use Planning</b>			
<b>Component 3 Objective:</b> Develop the capacity and skills of Taguig City to effectively incorporate Disaster Risk Reduction (DRR) and Climate Change Adaptation (CCA) knowledge, strategies, and approaches into the city's development planning and processes.			
<b>Output 3.1</b> Capacity-building on integration of DRM and CCA into the development plans and the business process of the City Government are undertaken.	No. of trainings and workshops on land use planning, geographic information system (GIS) and land information system (LIS) undertaken;	SP Resolutions and Barangay ordinances	Taguig City Government will allot sufficient resources, including office space and staff to improve its capacity to incorporate DRR/CCA into its urban planning processes including the establishment of a LIS/GIS Information Base
	No. of trainings given by READY GMMMA Project on DRM and hazard mapping	UNDP Reports	UNDP GMMMA Project will include Taguig City
	Business Process reviewed and recommendations adopted by Taguig City Government	Office of the Mayor reports , Taguig City Planning and Development Office reports <u>Managing Contractor Quality Assurance reports</u>	Taguig City prefers to undergo the process of CLUP preparation as an alternative to outsourcing
	Reference manual developed by NEDA and HLURB on integrating CCA DRM guidelines are understood and used by <u>Taguig City Planning and Development Office</u> Implementation/ monitoring plans and mechanisms instituted for Taguig's CLUP/ZO	Training evaluation surveys  Business process review reports	The LGU has the minimum resources and infrastructure including basic GIS capacity to incorporate DRR and CCA into its urban planning processes
<b>Output 3.2</b> Structure plan outlining the vision/mission of Taguig's preferred future development is prepared and endorsed by June 2012		Implementing Group progress reports,	
	An agreed vision and mission for the development of the City	Vision and mission statement reflected in the documents and <u>speeches of the Mayor and the Council</u>	Intensive participatory stakeholders consultations conducted.
	The Local Development Council endorses approves the Structure Plan and is translated into action.	Copy of local ordinances --(Structure Plan is not legislated). Taguig City Planning Documents	
<b>Output 3.3</b> An updated and risk sensitive land use plan of Taguig City is prepared	READY GMMMA datasets and risk information from Risk Analysis Component are referenced for land use studies	Component 4 Implementation Group Reports	Risk analysis information is readily available, accessible, and understandable for the use of Taguig City
	Updated, approved and implemented Comprehensive Land Use Plan/ZO incorporating DRM/CCA knowledge and <u>strategies are adopted</u>	Office of the Mayor, City Planning and Development Office reports	Local Development Council and Sangguniang Panglungsod approve the updated CLUP after consultations with different stakeholder groups.
	CDP/Annual Investment Plan reflecting updated DRM/CCA adapted CLUP programs/projects	Office of the Mayor, City Planning and Development Office , Budget office and other local offices reports, MMDA and HLURB Records	

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<b>Component 4: Building Safer Settlements</b>			
<b>Component 4 Objective:</b> Build safer, disaster resilient settlements for the Philippines' urban communities of Metro Manila, starting on a pilot basis in Taguig City. The safer settlements will provide safe, secure and fully serviced homes with access to improved livelihood opportunities for informal settler families (ISF) currently living in the designated danger zones.			
<b>Output 4.1:</b> Up to 1,800 fully serviced social housing units are constructed in Taguig City at safe disaster-resilient locations.	At least 440 and 384 structurally sound dwelling units are constructed in Novelty and Dumlao, respectively by civil works contractors.	- Actual contracts signed between Taguig City Government with civic works contractors and NGO service providers - Environmental Compliance Certificate issued by DENR	Taguig City Government will provide the enabling environment conducive to working with private sector partners and NGOs
	At least 1 subproject implemented by a housing NGO or consortium involving NGOs, focused on providing socialised housing to poorest of the poor informal settler families.	- Actual contracts signed between Taguig City Government with civic works contractors and NGO service providers	NGOs passed the eligibility criteria and are willing to bid for the social preparation contracts
	The remaining 1,000 dwelling units are constructed in other viable in-city relocation sites either by a civil works contractor procured through open tender or any PPP variant arrangement.	- Actual contracts signed between Taguig City Government with civic works contractors and NGO service providers - Environmental Compliance Certificate issued by DENR	Taguig City Government allocate unencumbered land early on for additional relocation sites and acquire these in time for the implementation of the project
	Taguig City Government has constructed roads, drainage, and other physical support infrastructures and has allocated community facilities including day-care centers, commercial spaces for beneficiary-use in all relocation sites	- Audit Reports by independent civil society monitoring organisations - Managing Contractor Quality Assurance reports - Component 1 Implementing Group progress reports	Taguig City Government will provide its agreed financial and resource counterparts
	No. of beneficiaries with connections to water supply and electricity, no. of beneficiaries served by sanitation services	- Contract between Taguig City Government and utility distributors - Homeowners Association reports	
	Percentage of housing applications approved or denied, disaggregated by applicant's gender, income	- Implementing Group progress reports - Local Housing Office records and database - Local Urban Poor Office records	
<b>Output 4.2:</b> Up to 1800 ISF, approximately 9000 men, women, and children, are relocated, their disaster preparedness capability and capacity is strengthened and their access to employment and livelihood opportunities are improved.	MRBs constructed have 100% occupancy comprising target informal settlers living in hazard-prone areas. (profile will be included such as no. of female-headed or single-parent households, households with physically challenged members, cultural/religious affiliation, income sources)	- Implementing Group progress reports - Local Housing Office records and database - Local Urban Poor Office records	Beneficiaries are willing to relocate and reside in MRBs
	At least 1,800 low-income informal settler families occupying danger zones areas in any of the 12 high risk barangays have participated in the relocation program (planning, construction, monitoring, conflict resolution, and actual relocation)	Records of Homeowners' Association and/or Local Housing Office	Beneficiaries come from vulnerable and low income families
	Number and profile of Homeowners' Associations formed (no. of male and female members, positions in the association by sex)	Records of Homeowners' Association and/or Local Housing Office	Taguig City Government is committed to the process of engendering community ownership and the process of participatory decision-making

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	No. of feasible estate management policies and plans formulated (including percentage of women participation in decision-making) by homeowners association in coordination with Taguig City Government. Homeowners Association-wide approved rules and regulations	Records of Homeowners' Association and/or Local Housing Office	
	Number, profile and changes in knowledge and attitude of individuals trained on community governance, socialized housing, community resource management, and DRR	Post-training evaluation surveys Pre and post-training tests Evaluation Reports from Component 2 activities	
	Number of volunteers from the homeowners trained as disaster risk management officers, livelihood coordinators and other committee leaders and the types and frequency of activities engaged in		
	Number of individuals who volunteer to participate in the relocation program (proxy indicator to measure change in perception on DRR, socialized housing)	Local Housing Office records Census-tagging reports	
	Number and profile of individuals enrolled in micro-finance institutions' (MFI) programs	Records of micro-finance institutions	
	Number, profile and commitments of identified resource agencies, as well as potential employers in the formal sector in Taguig	Contacts database of partners and potential employers in Taguig	The City Government will continue to provide incentives to the business sector and support entry of Taguig residents into local employment
	Homeowners' satisfaction on component 1 services (space utilisation, security of tenure and sense of ownership, safety from disaster, peace and order, access to work place, economic opportunities, and basic services, community socialisation, mortgage amortization schemes)	Independent homeowners satisfaction survey results Outcomes of Focus Group Discussions	
	Gender issues and special needs of more vulnerable individuals/ households considered in resettlement planning and implementation	GAD checklist	
	Number of individuals who set up gainful enterprises to augment family income, or got employed in the formal sector after relocation	MFIs annual reports Local Urban Poor Affairs Office reports	City Government takes an active stance in informing , educating and communicating the MFIs' programs with the relocatees and informal settlers.
	Amount of loans approved by MFIs to support enterprises of relocatees		
	No. of persons who completed training on livelihood program		

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<b>Output 4.3:</b> Danger Zone lands vacated by informal settlers are secured and developed	Lands are vacated and only permissible uses and structures are allowed in the area.	Barangay records	Taguig City Government will commit its political and financial capital to safeguard the newly regained sites
	Redevelopment plans and guidelines are proposed for Mauling Creek and Inland Lakeshore settlements	Taguig City Planning and Development Office reports Managing Contractor Quality Assurance reports	
	Manual of operations, including process of community participation, redress and grievance, for securing and developing disaster-prone lands regained from the informal settlers and other high risk areas are formulated, understood, and complied with by Taguig City Government and relevant groups	Local Housing office and Urban Poor Affairs Office records HUDCC reports	
<b>Output 4.4:</b> The ability of the Taguig City Government to develop, manage, implement, and sustain its comprehensive Social Housing Policy is strengthened.	Social Housing Policy Framework prepared, and supported by the Taguig City Government and stakeholders including project affected families;	Local Housing reports; Sanggunian Panglungsod Council resolutions	Taguig City Government counterpart staff is deployed and fully functional
	Task Force on Relocation and Resettlement established and structures and mechanisms compliant with AusAID-Taguig City grant conditionalities in place and implemented	Implementing Group progress reports Managing Contractor Quality Assurance Reports	
	Resettlement Plan prepared endorsed by community and Taguig City Government	Local Council resolution Task Force on Relocation and Resettlement Reports	
	Manual of operations for community participation, system of redress and grievance, safeguards to protect the interest of the informal settlers	Local Housing reports	
	Taguig City Government has procured civil works and consultancy services in a fair, competitive, and transparent manner.		
	Local Council's approval of proposed appropriations for resettlement related activities/programs	Local Housing reports; Sanggunian Panglungsod Council resolutions	
	Multi-sectoral committee composed of representatives from the LGU, other government agencies, NGOs, private sector, and community beneficiaries, with clear commitments, roles and responsibilities, set up and functional	Local resolutions and ordinances passed	Concerned government agencies such as HUDCC, NEDA, DOF, and the Climate Change Commission will support the Program in order to scale-up and replicate successful efforts  Taguig City Government will continue to support and pilot innovative approaches to socialised housing and DRR/CCA