Background

Start Network is made up of more than 50 aid agencies across five continents, ranging from large international organisations to national NGOs. Together, our aim is to transform humanitarian action through innovation, fast funding, early action, and localisation. Through the Start Network, members and partners can quickly access funding for projects to save lives before a disaster strikes.

One of the components of Start Network’s financing facility is Start Ready, which pre-positions funding for crises that happen with regular patterns of reoccurrence (like floods, droughts and heatwaves) and for which it is possible to model where they are likely to occur, how frequently and what the impact would be on the most vulnerable communities. By pooling funds and risks across countries, hazards, and regions, Start Ready is able to stretch funding further than we ever have before, and protect more lives with more efficient funding. Crisis prediction models have been built in several countries including a tropical cyclone severe wind impact-based forecasting model for a Disaster Risk Financing (DRF) system in the Philippines.

In the development of the national DRF system, the first phase in 2021 focused on developing the foundational building blocks from which the appropriate parametric models to monitor risks were developed in the second phase. This included a survey conducted among NGO members of Start Network in the Philippines, and the shared experience of the network identified severe winds and flooding caused by tropical cyclones are the most impactful hazards in the country. The network then conducted an impact and vulnerability analysis study on tropical cyclones and flooding to identify the pilot areas for the DRF system. The DRF system for tropical cyclone severe winds is now in its first year of operations, and currently, Start Network is planning to build a second DRF system for flood hazards in the Philippines.

The DRF system for flooding in the Philippines will allow civil society actors in country to proactively manage flood risks. This will be done through the scientific modelling of flood hazards, the collaborative development of contingency plans, and the establishment of pre-positioned financing to enable earlier and better coordinated assistance to communities affected by predictable disasters.

Start Network is now looking for consultant or firm who will conduct an impact and vulnerability analysis for flooding in the Philippines as part of the Flood DRF System build. Start Network in the Philippines is being hosted by CARE Philippines which will be the contracting organization for this piece of work.
Objectives
The impact and vulnerability study aims to identify the following:

- Identify the geographic and socio-economic extent of impacts flooding due to tropical cyclones in the Philippines
- Identify vulnerability factors and cross-sectoral issues related to flood hazards
- Identify existing community-based coping mechanisms that can be leveraged by the humanitarian sector

Scope of Study
The study will be divided into three components:

1. Exposure and Impact
   - Identify the top 5 river basins are most frequently flooded in the last 30 years
     - Identify which municipalities from these river basins experience flooding events using historical data and flood hazard maps
   - Conduct a flood frequency analysis in the identified flood basins
     - How frequent are these basins flooded annually?
     - When are these basins usually flooded?
     - How long do these flooding events occur?
   - What are the hydrometeorological factors that triggers the flooding events?
     - How significant do these factors contribute to the flooding events?
     - Do these areas flood due to a tropical cyclone’s impact? Provide examples and literature related to these flooding events
   - Using historical damages illustrate the trends in humanitarian impacts due to flooding events per identified river basin
   - Identify the type of flooding that occurs within these basins

2. Vulnerability
   - Who are most affected sectors of the population and what is the proportion of these sectors for the highlighted river basins? How are they impacted by it? (impacts can be qualified using the humanitarian clusters)
   - What is the geographical distribution of these sectors?
   - How are these sectors affected by flooding?
   - Illustrate how cross-sectoral issues emerge from or interact with to the impacts of flooding:
     - Gender Based Violence
     - Malnutrition
     - Food Insecurity
     - Poverty
     - Exclusion
     - Protection
     - Others (specify)
   - Identify cases of cross-sectoral issues that emerges during disaster response phase after a flood event
   - Are there existing measures and programs that addresses these cross-sectoral issues? Are these programs shock-responsive? Could the measures be more anticipatory?
3. **Coping Mechanism**
   - What are the existing coping mechanisms for flooding caused by typhoons? What are sustainable mechanisms that could be built upon versus those that should be avoided? How does coping vary throughout the population?
     - Are there identified triggers that is used to activate these coping mechanisms? What are the factors considered for these mechanisms?
     - Are there existing coping mechanisms for cross-sectoral issues that can be improved by anticipatory humanitarian actions?

4. **Early Warning and Risk Modelling**
   - Are there existing early warning systems in place in the identified river basins?
   - Are there existing risk models available for the identified river basins?
   - Does DOST – PAGASA have a flood forecasting services in these river basins?
     - What are the activities of the center and how advanced are the services available?
     - Can humanitarian actors access the services of the centers?

5. **Humanitarian Activities**
   - Are there disaster preparedness activities being conducted by different actors in these river basins?
     - LGU
     - INGOs
     - Local NGOs
     - People’s Organizations
   - How often does the humanitarian sector conduct humanitarian assistance and disaster response (HADR) activities in these areas?
   - What is the magnitude of HADR activities conducted in these areas?
   - Are there any anticipatory actions being developed or implemented in the area? Which organizations?
     - What are the response activities that CSOs and other actors conduct after a typhoon? Who are their target beneficiaries? Are these beneficiaries included in the response planning?
     - What are the activities that CSOs conduct to anticipate typhoon and reduce impact? What early actions or anticipated actions are already existing?
Approach and Deliverables

For the impact component, it is recommended to conduct the analysis on a national level using various available data. For vulnerability and coping mechanism components, a case study of highly exposed municipalities/cities vis-à-vis its poverty incidence rate should be considered.

The DRF Coordinator will be supporting the consultant(s) on:

- Providing access to Start Network Members to if needed
- Final copy editing

Deliverables

- Initial outline of proposed methodology to address the key questions
- Written report of not more than 10 pages per component
- Initial presentation to be presented to the DRF Governance Team and Technical Working Group
- Presentation of results to the Start Network and partners
- ‘Back-end’ folder of data used in the analysis

Qualification

The consultant or firm should be able to demonstrate the following competencies:

- Proven experience in conducting flood frequency analyses
- Ability to collect, process, analyze impact and vulnerability data using quantitative and qualitative methodologies
- Ability to collect and analyze various forms of data and present the vulnerability analysis in different angles
- Strong understanding of the Philippine DRRM landscape
- Proven ability to translate complex quantitative analysis clearly and concisely for a non-technical audience

Documentary Requirements

Please note that in case of a consultancy firm is selected for the implementation of the study, the following documents will be required:

- BIR 2303
- SEC Registration or Business Permit
**Timeframe**

The duration for this consultancy is expected to be for 10 weeks beginning in the 3rd week of January 2023. Please refer to the table below for the schedule of activities and payment terms which is highlighted in red text.

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**Submission**

Please submit the following documents:

- Expression of Interest
- CV of consultant(s)
- Initial outline of proposed methodology to address the key questions
- Financial proposal

To:

**Arvin Caro, DRF Coordinator**  
arvin.caro@startnetwork.org

**Lia Gonzalo, CARF Officer**  
Lia.gonzalo@startnetwork.org

Deadline of submission is until **January 6 2023, 11:59PM (Philippine Time)**