

**Purpose:** The purpose of this community worksheet is to provide a step-by-step guide for initially conducting proper due diligence on a community being considered for SMART MoBee enablement leading to a "GO or NO GO" decision for engagement. Each community is different with different challenges and needs. The analyst is encouraged to step outside the boundaries set forth by these guidelines and to amend the worksheet to add relevant community information captured during this process that are deemed important for decision-making.

### Suggested Steps for Analyzing a Community for SMART MoBee Enablement

#### STEP 1: Gather Basic Community Information

Community Name: Balayan, Batangas

Analyst Name: JS, MP

Location: Philippines

Analyst Phone: \_\_\_\_\_

Analyst Email: \_\_\_\_\_

Type of Community: Local Government Unit

(County, City, Living Community, Military Base, School, etc.)

Population: 95,913 (2020 census)

Description of Community:

"The word "Balayan" came from the word BA-I or balai which means house in Sri-Visayan dialect. Later the Filipino suffix "an" was added, thus the word Balayan was coined. This can also mean a group of houses or [a] settlement. During the early days, the natives used to construct their houses on stilts above the waters of Balayan Bay. Historians believed that Balayan is the center of the ancient powerful kingdom of MA-I.

The Municipality of Balayan is a 1st class Municipality in the Province of Batangas. From 3rd class municipality in 1992, Balayan jumped to 2nd class municipality in 1995, and to 1st class in July of 1996. The financial status of Balayan has been continuously improving through the constant effort of the present administration.

In view of the Batangas Province's industrialization and the Municipality's vision to be an agri-industrial community. Balayan contributed to the realization of development programs with CALABARZON's objectives.

The presence of sugar central that processes the main agricultural product is a well-blended combination of agriculture and industry. It boosts the role of the Municipality as an agri-based industrial center.

So, agriculture and industry have traditionally been viewed as two separate sectors both in terms of their characteristics and their role in economic growth. Agriculture has been considered the hallmark of the first stage of development, while the degree of industrialization has been taken to be the most relevant indicator of a town's progress along the development path.

Sugarcane is not only the commodity being processed. Fish resources are being processed as Bagoong Balayan which is a delicacy in carrying the name of the Municipality worldwide. Other natural products are being manufactured as cottage handicrafts and items.

As a whole Balayan is always on the path of development. Historically the municipality has grown and developed attuned to the needs of times with utmost consideration of the welfare of its populace and its environment for an environmentally sound and sustained development.

**Geographic Location**

Balayan is located at geographic coordinates 14° 53' latitude and 120 °43' longitude. It is bounded on the north by the municipality of Tuy; on the east by [the] municipality of Calaca; on the south by the Balayan Bay and on the west by the municipality of Calatagan and Lian. [Major economic activities in Balayan and Tayabas Bays are fishing and tourism mainly due to its sandy beaches and coral reefs.]

It is about 107 km from Manila via the scenic route through Tagaytay Ridge & about 48 km. from Batangas City, the capital of the province. It is also accessible from all points via the Balayan Bay on the southern side of the municipality.

It is a lowland town in the western region of Batangas and the centermost town of the first district of the province." (Source: <https://balayan.gov.ph/history-of-balayan/>)

Relevant Figures:  
Mayor: EMMANUEL SALVADOR P. FRONDA, II  
Batangas Governor Dodo Mandanas

Reason for considering this community for SMART MoBee Enablement:  
Project RISE (Resiliency Improvement Support and Education) initial target community.  
Goal of the mobile app is to support the implementation of disaster preparedness programs for the community.

**STEP 2: Assess the Community's Website**

a) Does the community have an existing website (Y or N)? If N, proceed to Step 3. Y

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b) Is the website owned & operated by the Governing Body of the Community (Y or N)? Y

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c) Is the website responsively designed to support mobile devices (Y or N)? Y

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Please describe the types of information and services provided on the website in the box below:

Website Link: <https://balayan.gov.ph/>

Home Page: Single panel at the top, shortcut menu, News and events,

Menu Options: Unavailable pages are highlighted in red

- Government: history, vision/mission, mayor, ordeers, departments, barangays
- "Sanguniang Bayan" (Town Council/Agency): Members, resolutions and ordinances
- Transparency: disclosure policy, citizen's charter
- Tourism
- Services: Civil Registry, DFA passport appointment, etc

Relevant Departments to our project

- Planning and Development

- Environment and Natural Resources
- Social Welfare and Development

### **STEP 3: Assess Community's Mobile App**

a) Does the community have a mobile app or multiple mobile apps or social media?

**Y (No Mobile App)**

For each community mobile app or social media account you discover, please provide the information below:

Mobile App Name or Social Media Name	Mobile App or Social Media Description of Functionalities	Link
Balayan, Batangas Official Facebook Page	<p>Followed by 13,974 (as of Apr. 18)                      COVID-19 News and community posts                      No immediate information for hotlines / people to contact</p> <p>Note: They have an old fb page, inactive since Mar 21 2021  <a href="https://www.facebook.com/profile.php?id=100064784526049">https://www.facebook.com/profile.php?id=100064784526049</a></p>	<a href="https://www.facebook.com/lgu.balayan.7">https://www.facebook.com/lgu.balayan.7</a>
Balayan Municipal Disaster Risk Reduction Management Council	<p>Followed by 1,016 people (as of Apr. 18)                      Road Incident Updates (NOTE! graphic imagery of injuries are unfortunately featured, so be wary of clicking on link)</p>	<a href="https://www.facebook.com/MDRRMO-Balayan-103829992051421">https://www.facebook.com/MDRRMO-Balayan-103829992051421</a>

### **STEP 4: Research and Analyze Community Challenges**

Conduct your research and due diligence on the challenges faced by the community and document below.

#### **Analysis of Balayan Disaster Level Preparedness**

The table above^ is from the [2014 Disaster Preparedness Profile](#)

LGU Name	National Gawad Kalasag Awardee	Organized LDRRMIC and LDRRMO	LDRRM Plan with Budget Allocation	Updated CLUP/PDPFP	Contingency Plan	Local Climate Change Adaptation Plan	Early warning system in-place	Evacuation Center management	SAR organized, equipped and trained	Prepositioning of relief operations, medical and security services	Standard Operation Procedures available	Disaster Preparedness Passer
Balayan												

The table above^ is from the [2014 Disaster Preparedness Profile](#)

Source: <http://pemsea.org/sites/default/files/soc-batangas.pdf> (2008)\*\*try finding more updated version

**Balayan Bay's level of preparedness for disaster - This indicator measures the availability of disaster preparedness and management plans, capable people, equipment, budget and preparations to anticipate, reduce, respond to, and recover from various hazards/disasters.**

The Provincial Disaster Coordinating Council (PDCC) of Batangas through the Provincial Assistance for Community Development (PACD) of the Batangas Provincial Government has developed a second edition Disaster Calamities and Preparedness Plan in the early 1990s, with the third edition currently being prepared. The provincial disaster contingency plan (PACD, 2005) covers terrorism, earthquakes, volcanic eruptions, fire, typhoons and corresponding mitigation strategies (e.g., orientation of personnel, disaster operation center — physical facility with supplies,) and a communication system and partners for communicating among the local communities. The disaster plan describes the roles and contact persons of various partners in disaster management.

At the provincial level, all staff of the PACD have been oriented in disaster management. One person from each of the agencies in the provincial coordinating mechanism, as well as medical respondents, had been trained for rescue

operations. There is an equivalent of one full-time person tasked with disaster management (including maintaining disaster preparedness). Five percent of the provincial budget set aside for disasters may be mobilized only in the event of a disaster, but no other budget or funding (e.g., for disaster preparedness) has been allocated or identified. There is a pending request for a disaster drill to better determine disaster preparedness but funds were not allocated for this.

Only 6 (Balayan, Calaca, Cuenca, Mataas na Kahoy, Nasugbu and San Nicolas) out of 32 municipalities have a disaster contingency plan. An institutional mechanism for disaster coordination is mandated for the national, provincial, municipal and village levels by virtue of Presidential Decree 1566 of 1978...

As of a 2005 assessment, 28 out of 32 municipalities/cities had a designated lead person for disaster management but only 11 of these persons were properly oriented on disaster management. Six municipalities/cities had a disaster coordinating council (DCC) that was being adequately oriented. Of these 6, only Balayan and Calaca are coastal. As of 2005, 7 out of 32 municipalities had a disaster operation center with adequate supplies. The Taal Volcano contingency plan includes an early warning system.

There are eight active Communicators Groups established in the province particularly in Balayan, Calatagan, Nasugbu, Bauan and four in Batangas City that serve as partners of the Municipal DCCs. Calaca, which regularly convenes its disaster coordinating council and alerts key village personnel whenever storm signal #2 is raised, has not lost a human life to a storm since it began implementing its disaster preparedness plans in 1998.

With regards to shipping, a Vessel Traffic Management System for Batangas and Balayan Bay equipped with monitoring radar is currently established in the Province.

### **Implications and Recommendations**

Maintaining readiness requires continuous investment even if benefits will only be realized when disaster strikes.

Despite its exemplary history of developing and periodically updating its provincial disaster management plan, municipality/ city disaster preparedness is low partly due to staff turnover. Updating the 2005 assessment of municipality/ city preparedness for disasters could provide valuable information regarding personnel for training and further facilitate municipality/city disaster preparedness.

Also, considering the concentration of industrial facilities and operations in Batangas Province, the inclusion of manmade hazards and preparedness, including maritime oil and chemical spills, in the coverage of disaster planning would be relevant. Updating the Provincial Disaster Contingency Plans to include oil and chemical spills as well as soil erosion is required (Batangas Province is the 2nd province in the Philippines at risk in terms of soil erosion/landslides). The Oil Spill Contingency Plan being developed by the Philippine Coast Guard, and contingency plans prepared by the chemical industries can be integrated into the Provincial Disaster Contingency Plan. Cities and municipalities are also encouraged to develop Contingency Plans aligned with the Province. The integration of disaster risk reduction management in the development of investment and other plans will be useful.

Strengthened compliance with relevant international (e.g., MARPOL) conventions and national laws will also be beneficial.

Global warming and climate change are issues that are currently not being considered. These must however be recognized as threats in order to plan for adaptation and mitigation measures that can be applied. An assessment of the potential impacts in the Province can be considered in future research.

Resiliency Issues (e.g., Risks to Climate Change, Disaster Management, etc.)		
Type of Issue	Description	Source of Information
<b>Access to Disaster Risk Reduction Council limited</b>	Both the PDRRMC and MDRRMO lack websites. Facebook page only available for MDRRMO, was difficult to find even with simple google terms	

<b>Balayan's Proximity to Taal Volcano</b>  At the height of the pandemic, Taal Volcano erupted and Balayan was one of many municipalities that suffered because of it. The following highlights key moments in the disaster response that can help us identify gaps for our development purposes.	<p>In the final report (No. 87) from March 6 2020, it was reported that: a total of 191,952 families / 736,802 persons were affected. 1,151 families / 4,212 persons are taking temporary shelters in 11 evacuation centers while 14,463 families / 53,988 persons are served outside ECs. ECs are located in Batangas (Balete, Ibaan, Laurel, San Luis, and Talisay) and Quezon (Dolores)</p> <p>Cost of assistance was 1,784,322.29, mainly from DSWD and DOH</p> <p><b>NDRRMC - Situational Report #76:</b></p> <p><b>II. DISASTER PREPAREDNESS AND RESPONSE</b></p> <p><b>A. National Disaster Risk Reduction and Management Council (NDRRMC)</b></p> <ul style="list-style-type: none"> <li>1. NDRRM Operations Center (NDRRMOC)                             <ul style="list-style-type: none"> <li>a. Activated the alert status to RED effective 12 January 2020, 9:00 PM.</li> <li>b. Continuously coordinating with OCDROs III, CALABARZON, and NCR re status of Taal Volcano.</li> <li>c. Disseminated information/notification thru Short Messaging System.</li> <li>d. Conducted Response Cluster meeting on 13 January 2020, 8:00 AM, at the 3rd Floor New NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.</li> <li>e. Prepared and disseminated Emergency Alert and Warning Message (EAWM) to provide information and warning to the public regarding the eruption:</li> </ul> <table border="1"> <thead> <tr> <th>EAWM</th> <th>Date and Time</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>Taal Volcano Alert Level 3</td> <td>12 January 2020, 4:20 PM</td> <td>Batangas</td> </tr> <tr> <td>Health Advisory re Ashfall</td> <td>12 January 2020, 6:16 PM</td> <td>Batangas, Cavite, and Laguna</td> </tr> <tr> <td>Taal Volcano Alert Level 4</td> <td>12 January 2020, 7:30 PM</td> <td>Batangas, Cavite, and Laguna</td> </tr> <tr> <td>Taal Volcano re Ashfall</td> <td>13 January 2020, 3:50 AM</td> <td>Batangas, Bulacan, Cavite, Laguna, Rizal, and NCR</td> </tr> </tbody> </table> </li> <li>f. Activated Response Cluster on 13 January 2020, 12:00 NN.</li> <li>g. Conducted Response Cluster Meeting for the Worst-Case Scenario re Phreatic Eruption of Taal Volcano on 15 January 2020, 11:00 AM, at the 3rd Floor New NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.</li> <li>h. Conducted Joint NDRRMC-RDRRMC CALABARZON Response Cluster Meeting on 17 January 2020, 1:00 PM at Batangas Sports Complex, Batangas City.</li> <li>i. Conducted 3rd Response Cluster Meeting on 20 January 2020, 2:00 PM at the NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.</li> </ul> <p><b>B. Regional/Local Disaster Risk Reduction and Management Councils (R/LDRRMCs)</b></p> <p>RDRRMCs III, CALABARZON, MIMAROPA, and NCR are continuously monitoring their areas of responsibility and are in close coordination with their respective member agencies to ensure the widest dissemination of updates and advisories through SMS, facsimile, and official social media websites.</p> <p><b>CNN PH Report Jul 2 2021:</b> "More than 1,200 residents of areas near Taal Volcano are taking shelter in evacuation centers a day after it recorded its latest phreatomagmatic eruption, a local disaster official said Friday. Head of the Batangas Provincial Disaster Risk Reduction and Management, Lito Castro, said [translated] "Actually, if we will consider this situation, this is preemptive because the mentioned barangays are just near (the danger zone) and it is stipulated in our contingency plan that when the situation escalates during the worst case scenario, we have a plan for evacuation"</p> <p><b>Use of Official Facebook Page:</b></p> <div style="display: flex; align-items: center;"> <div style="flex: 1; border: 1px solid black; padding: 10px; margin-right: 20px;">  <p>Balayan Batangas is with Mdrmmo Balayan and 17 others. January 21, 2020 · </p> <p>Sa mga nagnanais pa po magpaabot ng kanilang tulong, 24/7 po bukas ang ating Command Center dito sa ating Munisipyo.</p> <p>Patuloy po kaming tumatanggap ng mga donasyon para sa ating 12,492 and counting na evacuees mula sa ating 35 evacuation centers at 41 na evacuees outside evacuation center sa ating bayan. Maraming salamat po. </p> <p>See Translation  63  16 Shares</p> </div> <div style="flex: 1; border: 1px solid black; padding: 10px;"> <p>Translation: For those who still want to extend their help, our Command Center here in our Municipality is open 24/7. We continue to accept donations for our 12,492 and counting evacuees from our 35 evacuation centers and 41 evacuees outside evacuation centers in our town. Thank you very much.</p> </div> </div>	EAWM	Date and Time	Area	Taal Volcano Alert Level 3	12 January 2020, 4:20 PM	Batangas	Health Advisory re Ashfall	12 January 2020, 6:16 PM	Batangas, Cavite, and Laguna	Taal Volcano Alert Level 4	12 January 2020, 7:30 PM	Batangas, Cavite, and Laguna	Taal Volcano re Ashfall	13 January 2020, 3:50 AM	Batangas, Bulacan, Cavite, Laguna, Rizal, and NCR	Link to List of 87 Total Situational Reports from Jan 13 2020 - Mar 6 2020: <a href="https://ndrrmc.gov.ph/index.php/disaster-reports/9-ndrrmc-advisory/4007-situational-report-re-taal-volcano-phreatic-eruption.html">https://ndrrmc.gov.ph/index.php/disaster-reports/9-ndrrmc-advisory/4007-situational-report-re-taal-volcano-phreatic-eruption.html</a>
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	<div style="background-color: #f0f0f0; padding: 10px;"> <p>Lizzie Pugado Balayan TourisMore pano po nalalaman anu among goods ang nadeliver sa bawat evac center? May list din po ba?</p> <p>Like See Translation 2y</p> <p>Lizzie Pugado Jorrel Delmundo</p> <p>Like 2y</p> </div>	<p>Translation: How will we know what goods are delivered to each evacuation center? Is there a list?</p> <p>**worth noting that this question wasn't responded to</p>	
	<div style="background-color: #f0f0f0; padding: 10px;"> <p>Balayan Batangas is with Leslee Ellao Fronda and 8 others.</p> <p>January 13, 2020 ·</p> <p>Ipinababatid lamang po na WALANG TSUNAMI na naka alerto sa ating bayan. Hinihiling po na huwag po tayong mag panic at bago po tayo maniwala sa mga balita ay kapag ito mula sa mga ahensiya yang mas makakapag kumpirma ng tunay na lagay ng panahon o sitwasyon. Agad po namin kayong aabisuhan at magbibigay ng official statement kung anumang update, pero sa ngayon ay inuulit po namin na walang dapat ipag alala at walang TSUNAMI.</p> <p>Maraming salamat po at patuloy po tayong maging alerto... See more</p> </div>	<p>Just to inform you that there is NO TSUNAMI alert in our town. It is requested that we do not panic and before we believe in the news; it is only from agencies that can confirm the real weather or situation. We will immediately notify you and give an official statement if there is any update, but for now we are repeating that there is nothing to worry about and there is no TSUNAMI. Thank you very much and let's continue to be alert at all times.</p>	
Tsunami Threat	<p>A video was attached to this post in which the Mayor was filmed standing in front of the water while assuring the people that the tsunami alert was fake news; worth noting that the post got 3.3k likes, 5.5k shares, and almost 500 comments</p> <p><i>Takeaways: How effective is communication on Facebook? Unfortunately, there exist several questions and comments that went unanswered. Moreover, engagement is not evenly distributed amongst posts – people aren't notified when the MDRRMO posts on FB and have to be disciplined in regularly checking the page for updates.</i></p>	<p>Right after the magnitude 5.4 earthquake that hit just off the island of Tingloy on the 4th of April 2017, subsequent news reports showed clips of Batangas City-residents along the coastal areas hurrying off to higher grounds. Some of these were also sent scampering because of <b>bogus</b> text messages that warned of the impending arrival of a tsunami. The Philippine Institute of Volcanology and Seismology or Phivolcs quickly moved to allay people's fears. The strength of the earthquake, Phivolcs spokespersons told media, was not strong enough to have generated a tsunami.</p> <p>In truth, Phivolcs has been extensively studying possible tsunami scenarios in the Philippines using a simulation software called <a href="#">Rapid Earthquake Damage Assessment System or REDAS</a>. With the help of this software, Phivolcs has <b>developed tsunami hazard maps which are viewable at the institute's web site</b>. The maps are used by local governments for disaster mitigation.</p> <p>The coastal town of Balayan, with many structures almost at the waterfront, is vulnerable to inundation of 6 meters, 4.9 meters and 3.9 meters, as shown by part of the Batangas Tsunami Hazard Map superimposed on a Google Earth Satellite image below.</p>	<a href="https://www.batangashistory.date/2018/09/tsunami-prone.html">https://www.batangashistory.date/2018/09/tsunami-prone.html</a>

	 <p>Balayan with Batangas Tsunami Hazard Map Superimposed.</p> <p>Google Earth</p>																																													
<b>Flood Risks</b>	<p>2003 Analysis:</p> <p>Table 6. Number of barangay (Brgy.) and individuals (Ind.) in selected municipalities affected by floods.</p> <table border="1"> <thead> <tr> <th>Municipality</th> <th colspan="2">Category 1</th> <th colspan="2">Category 2</th> <th colspan="2">Category 3</th> <th colspan="2">Category 4</th> <th colspan="2">Category 5</th> </tr> </thead> <tbody> <tr> <td></td> <td>Almost flooded as a result of heavy rains aggravated by high tide or rise in water level or nearby seas, lakes, rivers, etc.</td> <td></td> <td>Flooded only after several days of heavy and continuous rains with subsequent rise in water level of lakes, seas, dikes, rivers and canals.</td> <td></td> <td>Flooded only after several days of exceptionally heavy or continuous rains.</td> <td></td> <td>Never experienced flood but present environmental conditions in the area warrant LGUs' proneness to flood and flashfloods, landslides and mudslides.</td> <td></td> <td>LGUs with residential areas, national and provincial road networks prone to landslide and mudslides.</td> <td></td> </tr> <tr> <td>Balayan</td> <td>Brgy.</td> <td>Ind.</td> <td>Brgy.</td> <td>Ind.</td> <td>Brgy.</td> <td>Ind.</td> <td>Brgy.</td> <td>Ind.</td> <td>Brgy.</td> <td>Ind.</td> </tr> <tr> <td>Balayan</td> <td>13</td> <td>18,501</td> <td>3</td> <td>23,032</td> <td>8</td> <td>21,463</td> <td>4</td> <td>6,218</td> <td>0</td> <td>0</td> </tr> </tbody> </table>	Municipality	Category 1		Category 2		Category 3		Category 4		Category 5			Almost flooded as a result of heavy rains aggravated by high tide or rise in water level or nearby seas, lakes, rivers, etc.		Flooded only after several days of heavy and continuous rains with subsequent rise in water level of lakes, seas, dikes, rivers and canals.		Flooded only after several days of exceptionally heavy or continuous rains.		Never experienced flood but present environmental conditions in the area warrant LGUs' proneness to flood and flashfloods, landslides and mudslides.		LGUs with residential areas, national and provincial road networks prone to landslide and mudslides.		Balayan	Brgy.	Ind.	Balayan	13	18,501	3	23,032	8	21,463	4	6,218	0	0	<a href="http://pemsea.org/sites/default/files/soc-batangas.pdf">http://pemsea.org/sites/default/files/soc-batangas.pdf</a>								
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## STEP 5: Research and Analyze Interesting Facts and Positives about the Community

Conduct your research and due diligence on any interesting facts and positive community events or programs that helps build a positive image of the community. Look at social media to get a feel of any citizen sentiments, if possible. Look for interesting videos on YouTube that build the character of the community. Document your findings below:

Interesting Facts and Positives		
Type of Issue	Description	Source of Information
<b>Development Projects (under Mayor Fronda)</b>	<ul style="list-style-type: none"> <li>Sustainable BALAYANIHAN programs</li> <li>Comprehensive Development Plan (CDP)</li> <li>Annual Investment Plan (AIP)</li> <li>Priority PPAs</li> <li>PNB loan for the New Mall Type Public Market</li> <li>Opening of New Road Networks</li> <li>The Comprehensive Land Use Plan of Balayan</li> <li>Utilization of Forfeited Properties</li> <li>On Going Construction of "Class AAA" Slaughter House</li> <li>New Point of Trading "Community Fish Landing Center"</li> <li>Baywalk Development</li> <li>Binambang River Walk Project</li> </ul>	Balayan website

<b>Anak-Balayan Initiatives (2007-2008)</b>	Anak-Balayan Initiatives are environmental education campaigns done in Balayan and other areas of the province of Batangas, aiming to present some basic environmental concepts to local schools, business organizations and community stakeholders. One of the main objectives was to involve students in community activities, such as cleanups, information drives and fund-raising activities.	<a href="http://pemsea.org/news/anak-balayans-collaborative-approach-promoting-environmental-education">http://pemsea.org/news/anak-balayans-collaborative-approach-promoting-environmental-education</a>
<b>The “Oplan Listo” manual specifically for Taal Volcano (2021)</b>	<p>The disaster risk reduction and management officers in Batangas, Cavite, and Tagaytay City worked together to come up with the “Oplan Listo” manual specifically for Taal Volcano.</p> <p>The manual includes a checklist of early preparedness actions – from enabling policies to responsibilities of local authorities – which the local government units (LGUs) need to undertake when there is no threat of disasters or during peacetime.</p> <p>There are also checklists of critical preparedness actions when the threat is imminent, and early recovery and rehabilitation actions as part of the post-disaster response.</p>	<a href="https://www.youtube.com/watch?v=rtUYqvSrlY">https://www.youtube.com/watch?v=rtUYqvSrlY</a>  <a href="https://www.rappler.com/nation/dilg-launches-disaster-preparedness-manual-taal-volcano-eruption/">https://www.rappler.com/nation/dilg-launches-disaster-preparedness-manual-taal-volcano-eruption/</a>
<b>Batangas State University</b>	<p>** Public-private-academic partnership for consideration</p> <ul style="list-style-type: none"> <li>Runs the Adaptive Capacity-building and Technology Innovation for Occupational hazards and Natural disasters (ACTION) Center</li> <li>Offers Diploma and Masters in Disaster Risk Management, which holds the record as the first CHED(The Commission on Higher Education)-recognized Disaster Risk Management program in the region.</li> </ul>	<a href="https://batstate-u.edu.ph/discover-batstateu-3/taking-the-lead-in-disaster-risk-reduction-and-management/">https://batstate-u.edu.ph/discover-batstateu-3/taking-the-lead-in-disaster-risk-reduction-and-management/</a>
<b>Batangas Evacuation Centers</b>	Department of Human Settlements and Urban Development (DHSUD) continues to build more evacuation centers in the region, especially after the eruption of the Taal volcano last year: <a href="https://www.pna.gov.ph/articles/1146632">https://www.pna.gov.ph/articles/1146632</a>	<a href="https://www.batangas.gov.ph/portal/evacuation-centers/">https://www.batangas.gov.ph/portal/evacuation-centers/</a>
<b>Balayan's Municipal Health Office Facebook</b>	COVID-19 vaccination updates	<a href="https://www.facebook.com/OfficialMHBalayan/">https://www.facebook.com/OfficialMHBalayan/</a>
<b>DOST-PAGASA Weather Report</b>	DOST(Department of Science and Technology) and PAGASA provides daily weather forecast reports on its YouTube channel, twice a day at 4 a.m. and 4 p.m.	<a href="https://www.youtube.com/channel/UCpyLikj1x70S8UPxVqsPr6g">https://www.youtube.com/channel/UCpyLikj1x70S8UPxVqsPr6g</a>
<b>Disaster Preparedness Page on Panahon TV's YouTube Channel</b>	Panahon TV airs real-time updates on weather, traffic, class suspensions, flight cancellations, red tide occurrences, and air pollution indexes. Known for having long advocated disaster preparedness, it distributes information on disaster preparedness, such as earthquake safety tips, through its YouTube channel.	<a href="https://www.youtube.com/user/PanahonTV/playlists?view=50&amp;sort=dd&amp;shelf_id=2">https://www.youtube.com/user/PanahonTV/playlists?view=50&amp;sort=dd&amp;shelf_id=2</a>

#### **STEP 6: Your recommendation to “GO” or “NO GO” with SMART MoBee Enablement**

What is your recommendation (“Go” or “NO GO”)?

Go

Please provide narrative in the box below to support your recommendation:

Balayan, Batangas is the initial target community for Project RISE.

Analyst Name: JS, MP  
Analyst Phone:  
Analyst Email: support@sdinst.org

Date: 2/22/2022

**STEP 7: If your recommendation is to “GO” with SMART MoBee Enablement and approval is given to proceed, go through the following workflow:**

- 1) Go to the next worksheet shown in the tab below entitled "SM Mobile App Design FW" and review and understand the guidelines before proceeding with the actual design process of the mobile app.
- 2) After reviewing the SM Mobile App Design Framework, you are now ready to design the mobile app for the community using the next worksheet entitled "SM Mobile Icon Map & Features." This worksheet provides you with the tool to establish your mobile app's roadmap that follows the guidelines set forth in the SM Mobile App Design Framework. This is where you'll design the screen levels, the icon layout of each screen, and the most tedious process, defining the properties (i.e., icon label or title, icon graphics to use, feature of the icon, the type of information and source of information may provide or an icon may just be redirect to another screen, etc.)

The final product you'll produce in Step 2 above, will serve as the cornerstone and most important document for the development of the smart community. Allocate a considerable amount of time and thought on this process and it will serve all of us and most specially, our client or the community very well. You'll also learn so much about the community.

**Design Considerations:**

- 1) Try to keep the maximum number of icons to twelve (12) per screen level. SMART MoBee is designed to display a maximum of twelve (12) icons per screen. If there are more than 12 icons per screen level, then another screen on the same level will be generated in the background and the system will allow screen scrolling by swiping left or right. The number of dots below each screen indicates the number of screens on that level. Our goal is to prevent the user from scrolling through multiple screens or scrolling screens at all.
- 2) If more than 12 icons are necessary per screen level, then group the icons in order of priority from the user's perspective.
- 3) Keep the screen levels, when clicking on icons, up to a maximum of three (3) levels before displaying the information the user is looking for. Simply put, maximum of three (3) clicks before the information is displayed.
- 4) Keep the icon titles or labels descriptive and intuitive.
- 5) Look for meaningful graphics that can be used as a background for the main screen. For example, a background of a Government building or City Hall may be a good background for a municipality; the main building of an academic institution may be good background for an academic community; and the front gate of a military base may be a good background for a military base community. Ensure that we either get permission to use the graphic picture or we can buy a royalty-free graphic picture when the mobile app goes live. If we're coming up with a mock up, we can probably use it as long as it's not officially published and presented as a proof of concept.

- 6) Look for a community logo or logos that we can incorporate into the main screen. Ensure that we either get permission to use the logo or we can buy a royalty-free graphic picture of the logo when the mobile app goes live. If we're coming up with a mock up, we can probably use it as is as long as it's not officially published and presented as a proof of concept.

### **STEP 8: Envision the design and layout of the Smart MoBee Mobile App**

In the box below, please provide the design and layout that you envision for a Smart MoBee Mobile App for the Community, based on your findings of gaps that can be closed with the use of technology:

#### > Dashboard Panel Layout

Panel	Theme	Content
1st	COVID-19 Updates	1) COVID-19 Tracker in PH 2) National COVID-19 Vaccine Dashboard
2nd	EWS (weather information)	1) Links to PAGASA weather forecasts for now before our own WARN system 2) Emergency Hotlines (directory)
3rd	Disaster Preparedness	1) Directory + Map of evacuation centers 2) How to Guides (RISE Guidelines on what to do when a disaster, like earthquake, strikes) 3) RISE citizen training programs (CTP) 4) Learning from the Past: links to articles on prior disasters (ex: Info on Taal Eruption)
4th	LGU Services & News	1) Links to the City's Official Facebook + CDRRMO Facebook 2) Directory of departments
5th	Useful Apps or Websites (designed to enhance citizens' disaster preparedness capabilities, health, and wellbeing)	1) A link to Batangas State University courses in disaster management 2) Panahon TV's YouTube on Disaster Preparedness
6th	Community Forum	1) Divided into topics: evacuation center related questions, disaster relief, general questions, etc. (** Capability to filter through questions with keywords so you can see if your question has already been answered) 2) Donation page (Page Feature)

➤ **Button Panel Layout**

Home	Incident Report	Directory (Emergency Hotlines & Evacuation Centers & Departments)	Disaster Education	Community Forum	LGU News
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