

TECHEMERGE RESILIENCE INDIA CHALLENGE

Monthly Progress Update

Progress Update	<input type="checkbox"/> Yearly <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly
Reporting Year:	<input type="checkbox"/> 2020 <input type="checkbox"/> 2021 <input checked="" type="checkbox"/> 2022 <input type="checkbox"/> 2023 <input type="checkbox"/> 2024 <input type="checkbox"/> 2025
Reporting Period (Month)	November 2021
Project Title	
<p><u>Summary of Monthly Progress</u></p> <p>The TechEmerge Resilience India Challenge, , was launched in June 2020 by the World Bank, in collaboration with the National Disaster Management Authority (NDMA), to help states and communities in India to address disasters and climate change, and strengthen response capacities for COVID-19 and disasters. A total of 10 innovators have been awarded the grants, who would undertake pilot projects across the country. Currently, The APDC Techmerge has reported considerable progress in its implementation. The awarded innovators are currently in the midway mostly, with some innovators such as Pragathi Foundation in the final stages. There have been considerable interventions with various stakeholders across various domains for the project implementation, with the innovators resolving the queries addressed by various stakeholders such as from technical aspect to long-term project sustainability post-implementation. However, there are certain challenges that have come up for the innovators and are highlighted in the table of 'Implementation challenges and action taken status'. Currently, the team is working on resolving administrative challenges of the approval letters issued from NDMA, for the attainments of the completion of implementation of the projects.</p>	
IdeaForge	<p>Phase 1: Identifying client requirements, data gathering and approvals</p> <p>Phase 2: Multiple iterations of field testing and allied development of prototype</p> <p>Phase 3: Deployment and training</p>

	<p>Status: The team is currently in phase 2 testing.</p>
Quantela	<p>Milestone 1: Discovery Phase Milestone 2: Instance Deployment: Milestone 3: Development Phase Milestone 4: Training, capacity building, user credentials creation</p> <p>Status: The team is on last milestone on pilot testing, and training</p>
ADRC & UoT	<p>Stage 1: Setup a data pipeline Stage 2: Set up an analytical pipeline Stage 3: Assess enhancement of Mobipack and existing smart phone app Stage 4: Stakeholder Workshop Status: The team has withdrawn from the challenge</p>
Nelen & Schuurmans	<p>Phase 1 - inception, data gathering & modelling Phase 2 - configuration of flood forecasting interface, and granting access is almost complete. Phase 3: Training & Feedback incorporation</p> <p>Status: The team has almost completed the first two milestones and is currently incorporating the suggestions and clarifying the queries raised by SDMA on the live dashboard.</p>
Project OWL	<ol style="list-style-type: none"> 1. Pilot deployment strategy preliminary report slide deck (Month 1) 2. Work with SDMA to tailor captive portals to request customized information that is useful to SDMA from community in event of disaster (Month 1) 3. Begin engineering and assembly in Project OWL headquarters (Month 1) 4. 25% of device assembly completed, 30 devices (Month 1.5) <ol style="list-style-type: none"> a. Status update to SDMA 5. 50% of device assembly completed, 60 devices (Month 2) <ol style="list-style-type: none"> a. Status update to SDMA 6. 75% of device assembly completed, 90 devices (Month 2.5) <ol style="list-style-type: none"> a. Status update to SDMA 7. 100% of device assembly completed, 120 devices (Month 3)

	<p>a. Status update to SDMA</p> <p>8. Project OWL ships completed devices to SDMA (Month 3)</p> <p>9. SDMA begins pilot deployment, Project OWL supports remotely or in-person if possible (Month 4)</p> <p>10. SDMA completes pilot deployment, Project OWL supports and provides maintenance remotely or in-person if possible (Month 5)</p> <p>11. Final report on deployment, tests, and future potential (Month 6)</p> <p>12. Pilot conclusion (Month 6)</p> <p>Status: They have completed 11 milestones. The team has undertaken the pilot deployment, and is about to undertake final documentation and conclusion</p>
Saif Seas	<p>Milestone One: Development of the prototype</p> <p>Milestone Two: Shipment & deployment</p> <p>Status: almost ready for dispatch, and they are waiting for one component to be assembled</p>
SeismicAI	<p>Seismic analysis review.</p> <p>Plan review and approval by Uttarakhand State Disaster Management Authority (USDMA)</p> <p>Set up and deployment of stations</p> <p>System Tuning and Testing</p> <p>Pilot deployment</p> <p>Status: The team is currently undertaking the activities related to the set up and deployment of station such as land agreements equipment shipping and installation procedures</p>
Pragathi Foundation	<p>Milestone 1: Identification of the exact site of deployment of technology, various modalities for the deployment of the technology</p> <p>Milestone 2: Deployment of technology; community orientation and training of youth</p> <p>Milestone 3: Successful creation and sharing of socio-cultural and COVID19 related stories on well-being, dissemination of right messages and information to the community</p> <p>Milestone 4: Trained youth taking over the functioning of the CDR, formal handing over to the local CSO</p> <p>Status: The team is undertaking the final stages of handover, alongside working on long-term project sustainability</p>
Numer8	<p>First Month - Field data sourcing, operation planning</p> <p>2. Second Month - Field data sourcing, app and device installation.</p>

	<p>3. Third Month - Fishermen outreach, marketing and training, app and device installation</p> <p>4. Fourth Month - Fishermen and market outreach, marketing and training, app and device installation</p> <p>5. Fifth Month - Fishermen and market outreach, marketing and training, app and device installation, Dashboard installation, fisherhood livelihood monitoring</p> <p>6. Sixth Month - Fishermen outreach, marketing and training, app and device installation, Dashboard installation, fisherhood livelihood monitoring</p> <p>7. Seventh Month - Vessel activity and livelihood monitoring. Impact assessment and monitoring and field report gathering.</p> <p>8. Eight Month - Vessel activity and livelihood monitoring. Impact assessment and monitoring and field report gathering.</p> <p>9. Ninth Month - Vessel activity and livelihood monitoring. Impact assessment and monitoring and field report gathering</p> <p>Status: The project has not started.</p>
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Implementation challenges and action taken status

Challenges	Action taken
<p>Quantela</p> <p>The team suggested no significant challenge, and is eagerly waiting for the HPSDMA concerning the way forward.</p>	<p>A meeting has been held on 15th of December with HPSDMA, for discussing the pilot testing and the start dates has been tentatively fixed on 5th January, 2021</p>
<p>The primary issue was concerning the megaphone integration with the payload for crowd management</p>	<p>The team suggested that they have developed the mount, and is working on the CG and ground clearance concerning the megaphone integration</p>
<p>The team stated the second issue of negative altitude requirement that is software based solution, and suggested that it is not part of the contract.</p>	<p>The team assured that the delivery of the software development for negative altitude would be done after the contract through firmware updating and in-person training.</p>
<p>Seismic AI</p> <p>The team raised the challenges concerning shipment of the equipment. The team has asked for the assistance of SDMA, and NDMA for</p>	<p>The UKSDMA representative suggested Seismic AI to work out draft letter for assistance on security clearance, and suggested that NDMA could assist in the</p>

<p>guidance concerning customs clearance, point of contact, shipping address and so on.</p>	<p>central customs, as they are central agencies. The letter has been shared from Seismic AI's end to UKSDMA office.</p>
<p>Nelen & Shuurman The team suggested that the model has issues in providing accurate predictions at the moment concerning observed vs. simulated datasets, mainly due to the lack of unavailability of hourly rainfall datasets. The team further suggested the issue of the spatial variation of the rainfall data.</p>	<p>As next steps, the Nellen Schurmann's team is working to address the below queries:</p> <ul style="list-style-type: none"> • How was the model schematized and which decisions led to this schematization? • What is the influence of the input data (rainfall) on the outcomes of the model? • What is the lead time of the model?
<p>The team was asked concerning the practical accuracy of the model, which they replied that they do not have sufficient data to provide. The team also suggested lack of information concerning the lead time offered.</p>	
<p>The team suggested that the model is data driven, and issue early warning based on the rainfall data fed into the Lizard portal containing the base datasets. The model therefore requires manual operations to create scenarios prior to flood event to generate predictions.</p>	
<p>Project Owl The major challenge for the team is with the approvals from SDMA. They faced hurdles in security clearance, and require extra documentation for activities. SDMA has requested for a letter of support from NDMA to further complete this project.</p>	<p>The team is working to ensure necessary support from NDMA and to clarify the concerns of the SDMA.</p>
<p>ADRC: Issue with availing CDR data</p>	<p>The contract will be withdrawn due to significant delays in delivering the outputs within the stated project dates.</p>
<p>IdeaForge The primary issue was concerning the megaphone integration with the payload for crowd management</p>	<p>The team suggested that they have developed the mount, and is working on the CG and ground clearance concerning the megaphone integration</p>
<p>The team stated the second issue of negative altitude requirement that is software based solution, and suggested that it is not part of the contract.</p>	<p>The team assured that the delivery of the software development for negative altitude would be done after the contract through firmware updating and in-person training.</p>
<p>Pragathi Foundation The innovator stated that challenge of gender sensitization and suggested undertaking classes for the community for achieving the goal.</p>	<p>To be assessed</p>

The innovator stated that the content appreciation by the users are required for the sustainability of the project, and is working towards it.

**SaifSeas:
The team suggested no significant challenge except the case of the component to be produced for the prototype**

They are currently working out speeding the process.