

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)	September 2021
Project Title	TechEmerge Resilience India Challenge

Summary of Monthly Progress

_____ The reporting period of September witnessed some measurable progress being made by the innovators accompanied by few challenges confronted at regular intervals by the innovators. In terms of the overall progress monitoring of Tech-Emerge, it has been increasingly felt that the fortnightly progress review meeting held by National Disaster Management Authority (NDMA) & World Bank Group, ADPC and SDMA's has been able to aptly steer and examine the deliverables being rendered by the innovators working in a close coordination with the SDMA's. Besides, such meeting at the highest level is providing an opportunity in harnessing resources and exploiting any technical support as and when required by ADPC and the participating SDMA's in the meeting. However, these fortnightly review meetings, also revealed a key pressing challenge related to the endorsement letter that has been outstandingly sought by the Kerala SDMA from the NDMA since it would legitimately allow them to kick start their respective tech-solutions in their SDMA. In order to release such endorsement letter by the NDMA to the Kerala SDMA, the NDMA is seeking internal approval from the Department of Economic Affairs which is consuming significant amount of time in the approval process. As a result, the Nelen & Schuurmans is yet to start their work in Kerala State for want of the issuance of letter from the NDMA. Of late, in the Andhra Pradesh some dialogue has started between the Andhra Pradesh SDMA and Numer8 Innovator and at present their tech-solution is being assessed by AP SDMA with the aim of taking the call for deployment.

The innovators are regularly organizing virtual meetings with their respective innovators along with the participation of ADPC and RIKAIIT. The participation of ADPC and RIKAIIT in these meetings has been productive in terms of dealing with the accuracy in the technical part and also in meeting the administrative challenges. Most of the innovators

are gradually achieving their milestones and making an attempt to deliver fast. However, some challenges beyond their control e.g. operational, logistics, and administrative are hampering their swiftness of work. ADPC in consultation with NDMA and SDMA is continuously working to resolve such challenges.

The ADPC organized a virtual meeting of RIKA-IIT and Uttarakhand Innovators who are exclusively working for Uttarakhand SDMA. The meeting provided an opportunity of bringing cohesiveness between the RIKA-IIT and Innovators in the TechEmerge Implementation. As a next step, ADPC also organized a separate UK-SDMA, RIKA-IIT and Innovators meeting as well. One of the key outcomes of the meeting that it clarified the role of RIKA-IIT which is a part of the ADPC implementation team in principle and would be acting as an interface between SDMA and Innovators. RIKA-IIT also introduced its technical monitoring plan in the meeting that generated a common understanding among the participants about the monitoring framework.

In the month of September, the Pragathi Foundation started to gear up for devising their phasing out strategy in October while completing the remaining few important activities. Considering that the Pragathi Foundation would be phasing out soon, the ADPC quickly involved the RIKA-IIT to examine the effectiveness of their ground level technicalities which paved the way to make immediate corrective action in their tech-solution.

IdeaForge	The Concept building - Airframe development and analysis and also in-house Field testing is fully completed. Besides, study of Chamba District DDMA's requirements and development of blueprint has been also completed. In addition, the initiation of procurement for the project/development is nearly completed.
Quantela	2 out of 5 Integrations are completed. The Field Officer app has been developed and reviewed by HP SDMA. 9 dashboards are implemented for 2 integrations. The API's are in progress for the remaining 3 integrations.
ADRC & UoT	The HPSDMA convened a meeting with Department of Telecommunications of the Himachal Pradesh (HP) Govt. Based on the National Government's existing policy, the HPSDMA is not entitled to access to CDR data regardless of whether it is processed and anonymized data (indirect) or direct data.
Nelen & Schuurmans	They have made good progress in terms of data collection: In the process on receiving data from the Department of Energy and as a result they will access to data and start calibrating the modelling work.
Project OWL	Students have received training for developing the network nodes. They are preparing for travelling to India.

	The second batch of devices has been delivered to them and being assembled.
Saif Seas	
SeismicAI	Out of 3 locations for the seismic stations 2 locations have been potentially secured (2 locations near Srikot and Sirala). Scouting for a location near Gopeshwar the SeismicAI has sought assistance from UK SDMA to find a possible installation site around Gopeshwar based on a technical document outlining the requirements for site deployment.
Pragathi Foundation	They have made field visits to three villages in Darma Valley to reach out ASHAs and AWWs, Panchayat members and the community members. They have also made field visits to Block Health Centre and conducted the Medical Officer's audio recording on COVID-19 vaccination that was shared with the community members of three villages. The routers and device locations have been finalized. Further progress are being made in the ideation of the proposed business model of the CDR Cafeteria. All training materials/technical training components are in readiness for final deployment and demonstration to be carried out after the procurement of the necessary equipment and devices.
Numer8	Continued discussion is underway between Numer8 and Andhra Pradesh SDMA. The AP SDMA has sought to examine the efficacy of the Numer8 tech- solution.

Implementation challenges and action taken status

Unless the Department of Economic Affairs (DEA) is on board, till then the situation would not turn up differently in terms of sending endorsement letters to the SDMAs by NDMA.	The NDMA is making its all efforts to ensure that such approvals are timely received. However, the approval procedure would consume a significant amount of time that would resultantly bring implications on the Tech-Emerge timeline
Project OWL: No response from Shipping about sending devices to HP SDMA	ADPC would be facilitating the sub grant agreement

<p>Sub Grant agreement amendment with slight changes to the scope of the pilot (eg. new budget head for student trainings as well as decrease in the number of devices due to cost escalations)</p>	
<p>Saif Seas: Issues on the electric motors and the pumps which propel the craft. These were not able to give the desired speed. Saif Seas is in touch with their suppliers to dispatch an updated motor and the propulsion pumps and expected to receive by 10th of October. Integration and testing would be carried out thereafter.</p>	<p>Saif is internally solving this technical problem.</p>
<p>Quantela: APIs for integration</p>	<p>HP SDMA has hired 3rd party to develop the API's and awaiting the API's for the remaining integrations to happen.</p>
<p>ADRC & UoT: NDMA's support to pursue for policy amendment is the only way out to address the issue of CDR data access. While using a realistic CDR dummy data may be considered to demonstrate the value of Mobipack in the pilot project, in the long-run, this might not be a useful exercise if in the end, CDR data access is not given to HPSDMA.</p>	<p>HP-SDMA explored all possible sources for accessing the CDR data but due to the telecom legal framework it is not allowing the HP-SDMA to gain access.</p>
<p>SeismicAI:</p> <p>Delays in project timeline (anticipated custom delays, supply delays, weather.</p> <p>NB: The delivery of the seismic sensors to SeismicAI (in Israel) is delayed and expected by end of the month. This will push the installation time to mid-end of November (depending on shipment to India and custom clearance)</p>	<p>The UK SDMA has assured to communicate to the NDMA who would further write to the Custom Department for necessary action.</p>