

## TECHEMERGE RESILIENCE INDIA CHALLENGE

### Monthly Progress Update

Progress Update	<input type="checkbox"/> Yearly <input type="checkbox"/> Quarterly <input checked="" type="checkbox"/> Monthly
Reporting Year:	<input type="checkbox"/> 2020 <input checked="" type="checkbox"/> 2021 <input type="checkbox"/> 2022 <input type="checkbox"/> 2023 <input type="checkbox"/> 2024 <input type="checkbox"/> 2025
Reporting Period (Month)	July 2021
Project Title	TechEmerge Resilience India Challenge

#### Summary of Monthly Progress

The reporting period of July month witnessed significant progress in implementing activities by the Innovators along their respective SDMAs with two new innovators (IdeaForge and Saif Seas) joining the rest of their counterparts in a full-fledged implementation mode. Amidst the positive development in the status of onboarding of full innovators cadre, one shortage in the shape of withdrawal emanated through Build Change innovator. Owing to the co-financing issue the Build Change innovator has finally bowed out of their own accord and accordingly this was communicated to the World Bank.

At regular intervals, the innovators are continuing to organize virtual meetings with the SDMAs. The ADPC along with RIKA-IIT are also attending these meetings and providing technical inputs as and when required in the implementation process. The technical monitoring framework of RIKA-IIT is providing a sound framework to technically gauge the effectiveness of the implementation of Tech Emerge activities of Innovators.

In July, ADPC organized a meeting with RIKA-IIT to assess the Monitoring and Engagement Plan that closely looked into the identification of technical bottlenecks concerning the projects, and suggesting possible solutions during the project implementation. Besides, ADPC and RIKA-IIT also agreed upon conducting brainstorming sessions with technical experts and innovators.

<p><b>IdeaForge</b></p>	<p>IdeaForge’s tech solutions are being smoothly implemented in collaboration with HP SDMA. The conceptual phase and development of UAVs and authorization for hassle-free operations have been almost completed. They have carried out a site survey of landslide areas as well as physical meetings with the District Disaster Management Authority which reflects that as of now they are one of the two innovators who has made a physical appearance in Himachal Pradesh in the COVID situation.</p>
<p><b>Quantela</b></p>	<p>Quantela timely kick-started the implementation of tech solutions, as a result, adequate progress has been made by them. So far Quantela has been able to deliver the HP SDMA Incident Response System and the key feature of the Integration Status being that is fed by Resource Inventory integration – India Disaster Recovery, Existing Resources, and Resource Mapping Updates, Database of Volunteers for Field Office mobile app, and Manual Data Entry forms and HRVA -GIS Maps.</p>
<p><b>ADRC &amp; UoT</b></p>	<p>ADRC &amp; UoT have been able to conduct planning and coordination meetings. Additionally, they have also initiated the process for fulfilling government/MNOs administrative/legal requirements: Mobile Network Operators’ (MNOs) policy and technical requirements to allow CDR data access. However, the concurrence is still awaited from the Government’s end.</p>
<p><b>Nelen &amp; Schuurmans</b></p>	<p>N&amp;S is working on the Ravi River Basin, from its point of origin in district Kangra to Chamera 1 project in Chamba district. The HP SDMA has shared some relevant studies and the District Disaster Management Plan of Chamba with them for secondary data review. Nelen Schumann has also provided a demonstration of their 3di Technology to HP SDMA.</p>
<p><b>Project OWL</b></p>	<p>Project Owl is working with the suppliers to get the materials for their network devices. They are also working with HP SDMA to define the locations for deployment of their emergency network. Besides, taking account of the COVID19 and related mobility issues, they are also developing a training video that would orient the concerned people in handling their technology.</p>
<p><b>Saif Seas</b></p>	<p>Subsequent to the signing of the contract Saif Seas organized a kickoff meeting with Himachal Pradesh SDMA that was also participated by ADPC and RIKI-IIT. As a result, the Saif Seas is now in full execution mode.</p>

<b>SeismicAI</b>	During this reporting period, SeismicAI and Numer8 couldn't go ahead with their implementation due to the non-releasing of letters from ADPC/World Bank to the concerned authorities of Uttrakhand SDMA and Andhra Pradesh SDMA respectively.
<b>Pragathi Foundation</b>	Pragathi Foundation organized one orientation meeting on CDR with the Additional Secretary, Department of Disaster Management. Thereafter, the MoU was signed between USDMA and Pragathi Foundation for the CDR Project at district Pithoragarh. The local partner of Pragathi Foundation ARPAN, has been updating the district administration about the CDR from time to time. They are physically present in Himachal with their partner.
<b>Numer8</b>	The project has not started. The Climate Innovation Coordinator, based in India is continuing to provide all the necessary support to the implementation of the TechEmerge Resilience India Challenge in consultation with the Grant Management Specialist and the Grant Management Officer.

### Implementation challenges and action taken status

Challenges	Action taken
<b>SeismicAI and Numer8 have been critically demanding for sending a formal letter by the World Bank/ADPC to Uttrakhand SDMA and Andhra Pradesh SDMA in order to start the implementation.</b>	ADPC is following up with World Bank for issuing the letter to the SDMAs
<b>The ADRC is facing a twin challenge related to meeting the administrative requirements (Agreement with MNOs, including data privacy) and also the Approval process. The second challenge entails the signing of the Agreement (for technical work to proceed).</b>	The HP-SDMA has written letter to Telecom Ministry seeking their approval for the CDR data. However, the response is still awaited.
<b>Ensuring the legitimate means of Fund Transfer from ADRC &amp; UoT to Himachal Pradesh SDMA as per the prevailing fund transfer norms of Govt. of India. With no prior experience of receiving foreign funding the Himachal Pradesh SDMA was in need of proper technical guidance.</b>	ADPC drafted a letter for Himachal Pradesh SDMA for eliciting information from NDMA as NDMA was also involved in the Tech Emerge launching. Accordingly the Himachal Pradesh SDMA sent letter to NDMA. The NDMA response couldn't clarify that

	<p>was sought by the HP SDMA. As a result, the HP SDMA has written to FCRA Division of Ministry of Home Affairs of Govt. of India and the reply is awaited from them.</p>
<p><b>Although the COVID-19 cases are declining in India, still the threat cannot be ruled out. As a result the travel restrictions are continuing to influence the mobility issue for the innovators in the Tech-Emerge.</b></p>	<p>All the meetings with subsequent planning and execution are held virtually by the innovators with their SDMAs. However, Innovators like IdeaForge and Pragathi Foundation have been able to deploy their staff in Himachal Pradesh by following COVID-19 safety protocols.</p>
<p><b>IdeaForge are confronted with the technical challenges concerning Negative altitude requirement, Flying the UAV in RPV mode, Integration of Megaphone on Q6 UAV, and increase in the lead-time for sub-component procurement.</b></p>	<p>In order to diminish these challenges, they have developed technically enabled solutions.</p>