





TEAM REACT



CITY PREPAREDNESS MONITORING AND EMERGENCY RESPONSE



CONTEXT





440 Crores



13 Lakhs



INR 5,91,680 Crores



Response -Rehabilitation Centric

ISSUES IDENTIFIED



Lack of Data Updation



Data in Silos



Micro-Level Analysis



Lack of Spatial Understanding of Urban Risk and Resilience

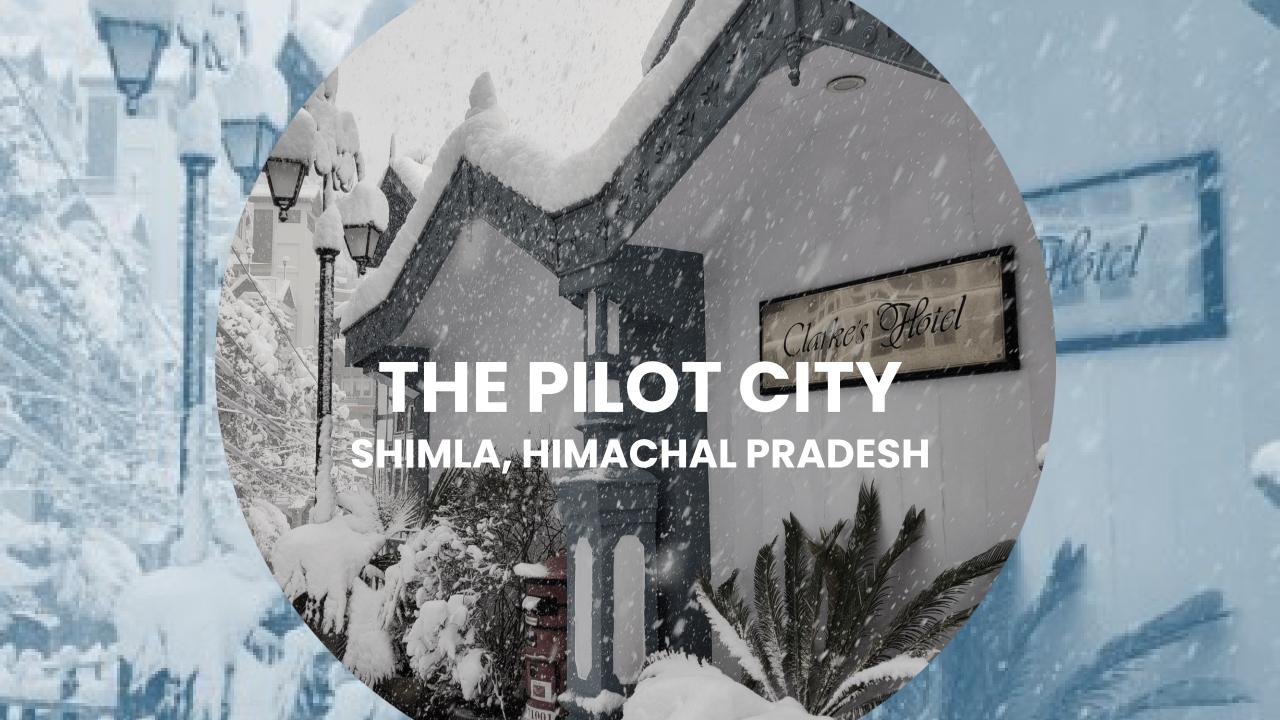


Lack of Targeted Emergency Response



Lack of Digital Interventions

The <u>proposed solution</u> in the form of a toolkit is focused on "City Preparedness Monitoring and Emergency Response".



SHIMLA SMART CITY

The project in conjunction with the Shimla Smart City Ltd, Shimla Municipal Corporation, District Disaster Management Authority and Fire Service Department of Shimla.



Old and unsafe buildings



Heaters/Firewood



Tangled electric wires



Dense vegetation



Congested construction



Wooden structures

PROJECT FOCUS

Urban Fire Hazards

196 Incidents

4,79,45,209 INR

Since 2016-20

PROJECT IDEATION

01

Automated Risk Information System 02

Citizen-Centric Resilience Measuring System 03

Integrated
Urban
Emergency
Response
Systems

CITY PREPAREDNESS MONITORING & EMERGENCY RESPONSE TOOL

IDEA OF THE TOOL





STEPS TAKEN



Project Formulation



Deployment



Project Discussion with SSCL



Liaising & Stakeholder Meeting





Product Development



Data Analysis



Data Collection

ENGAGEMENTS MADE













HFS



TCPO Shimla



Directorate HP



SJPNL



HPSEBL



HFWD



HP DIT



AGISAC



DOERS

CHALLENGES FACED

1. COVID-19

Delayed deployment & data procurement due to the pandemic.

2. Data in Silos

Administerial delays and lack of interdepartmental data sharing.

3. Lack of Digital Governance& Digital Data

High dependence on paper work and physical documentation.

4. Absence of PMC and ICCC

Product developers and onboarding onto ICCC issues

5. Interdepartmental Coordination

Delays in acquiring and processing data.

6. Data Standardization

Different scale & unit of mapping of data fetched from different departments



TOOL UTILISATION







LACUNAE & SOLUTIONS

'Ward' as the Micro-level Unit for Analysis



Due to time & data constraints, Micro-Zonation was not attempted.



The project is to be combined with ongoing micro-mapping project of the pilot city.

City & Ward Profile



The project is unable to consider updated SMC area. 25/34 wards have been considered for the project.



City SPV and MC have been proposed to create a common GIS platform for marking and updating the maps to reduce the data mismatch in future.

Inconsistent and Non-Standardized Data Sets



Lack of updated data on disability, present demography, building conditions etc..



The Smart City and other beneficiaries are requested to update & standardize the unavailable/ uncollected data through DIT, HP in future...

LACUNAE & SOLUTIONS

Weightage Analysis & Scores Validation



Weightage analysis & scores are subjective to perception of the team carrying out the analysis



The weightages & scores can be fixed and described with context to the stakeholders.

Expert consultation required to set up benchmarks.

"Simulation" part of the product



Simulation part of the product doesn't ensure onground solutions



The simulation part of the project represents solutions to be made and marked.

Community Engagement



Absence of Community Engagement at this phase due to time constraint & limited resources



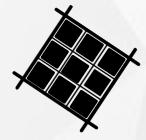
A component to engage community has been proposed in the Probable phase II of the project.

SCALABILITY



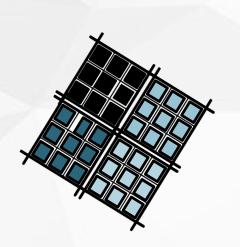
1. Micro Level

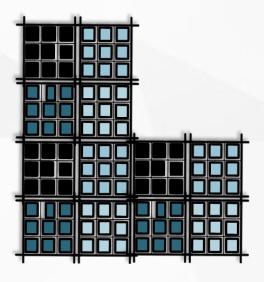
- Neighbourhood
- Cluster
- Society



2. Meso Level

- Ward
- Zones
- Blocks





3. Macro Level

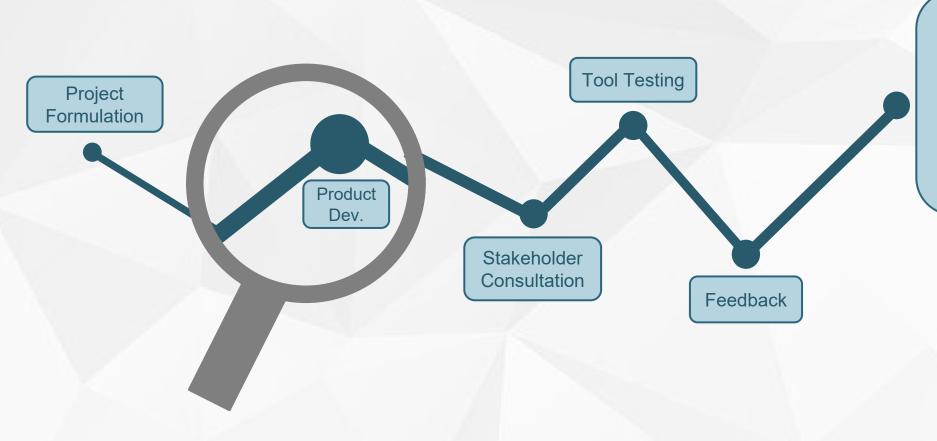
- Smart City
- District
- State

REPLICABILITY

Across Across Communities Hazards Across Geographies



PHASE II



- Citizen Participation (Crowdsourcing & Emergency Reporting)
- Integration of additional parameters
- Partner with local organizations

PHASE I TRANSITION PHASE II

MENTORS



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India



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THE TEAM



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DM Professional



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Urban Planner



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THANK YOU!