



A TOOLKIT FOR CITY PREPAREDNESS MONITORING AND EMERGENCY RESPONSE.



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PROBLEM – Disaster Management



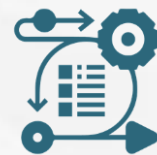
440 Crores



13 Lakhs



**INR 5,91,680
Crores**



**Response -
Rehabilitation Centric**

NEED FOR INTERVENTION



Lack of Data Update.



Data in Silos.



Micro-Level Analysis.



Spatial Understanding of Urban Risk and Resilience.



Targeted Emergency Response.



Scope for Digital Interventions.

PRELIMINARY IDEATION

01

Automated
Risk
Information
System

02

Citizen Centric
Resilience
Measuring
System

03

Integrated
Urban
Emergency
Response
Systems

CITY PREPAREDNESS MONITORING TOOL

AIM & OBJECTIVES

Developing a Digital, City Preparedness Monitoring tool for Effective and Targeted Emergency Response.

Micro level Risk and Resilience Profiling of the City.

Correlating Risk and Resilience of the City.

Developing Emergency Response Mechanism Based on the Correlated Output.

Creating A City Preparedness Monitoring Tool to Enhance the City Score through Required Interventions.

TIMELINE

September -
November
2020

- City Stakeholder Consultation.
- Data Collection.
- Data Cleaning and Transcription



1



- Streamlining Project Focus.
- Preliminary stakeholder consultation
- Final Project Proposal

August –
September
2020

2



- Project Analysis & Design.
- Preliminary Product Design/Sketch
- Digital Tool based on analysis.

September -
December
2020

3

December -
February
2021

- Product Review.
- Design Iterations
- Primary Implementation.



4



- Stakeholder Review.
- Final Product Launch.
- Handling over to SCM.

February -
March
2021

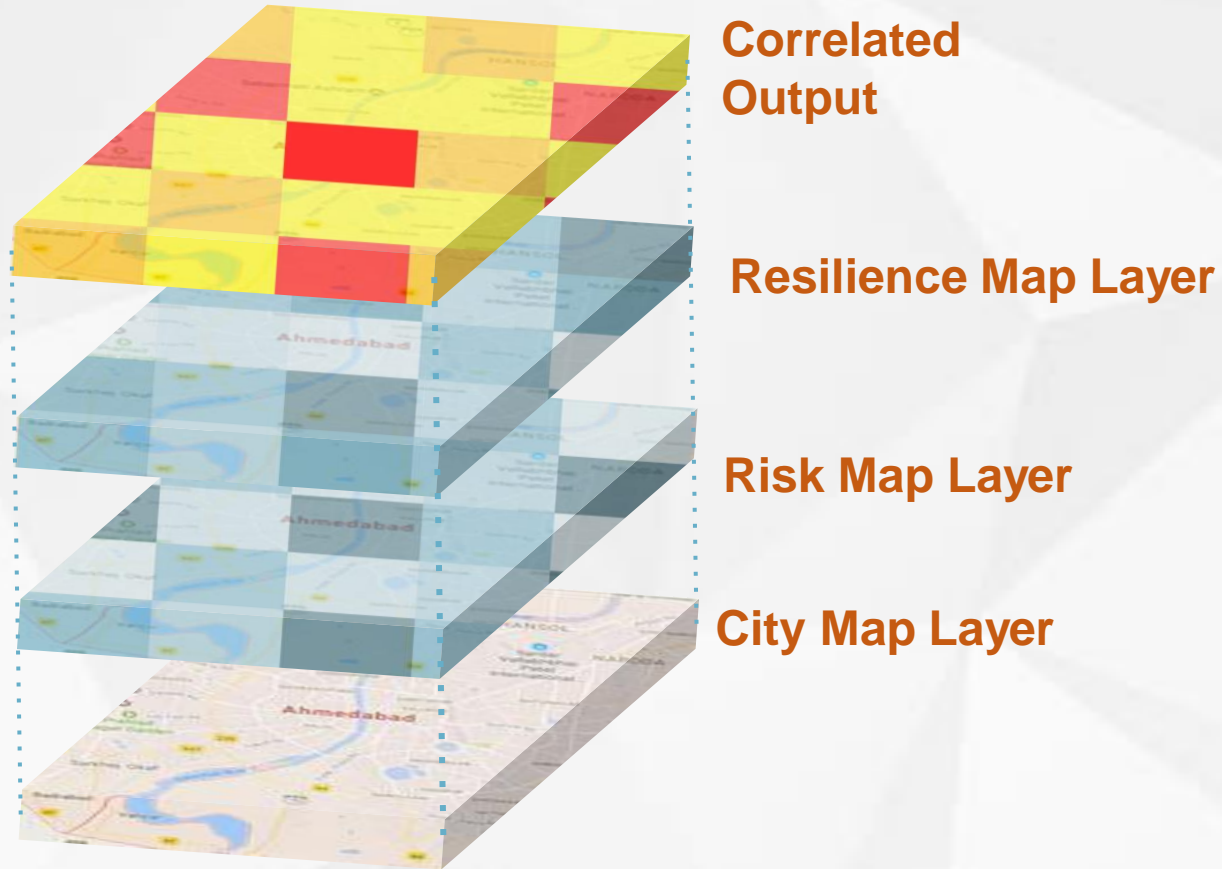
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REACT

PREPARE.MONITOR.RESPOND

IDEA OF THE TOOL



RISK INDICATORS

Hazard and its Exposure

Vulnerability

Physical Vulnerability

Social Vulnerability

Topography

Age Profile

Location

Specially Aabled

Accessibility

Slum Areas

Housing

Slum Population

Land use pattern

Population Density

IDEA OF THE TOOL



RESILIENCE INDICATORS

Infrastructure Resilience

Access to available health care	Current DM plans
Emergency Care	Multi-use Infra
Emergency Responsive Services	Spare Capacity of Services
	Maintenance & Cont.

IDEA OF THE TOOL



PROJECT DELIVERABLES



OUTPUT

- **Micro-level, Risk-Resilience correlated Profiling of the city.**
- **Identification of areas of concern**



OUTCOME

- **Targeted Pre-positioning of emergency services**
- **Timely response during disasters/ emergency situations.**
- **Informed and inclusive decision making**



IMPACT

- **An Agile and disaster-resilient city that is better prepared for any kind of disasters and emergency situations**

TOOL UTILISATION



City Administration.



Urban Professionals.



Health Professionals.



DRF Professionals.

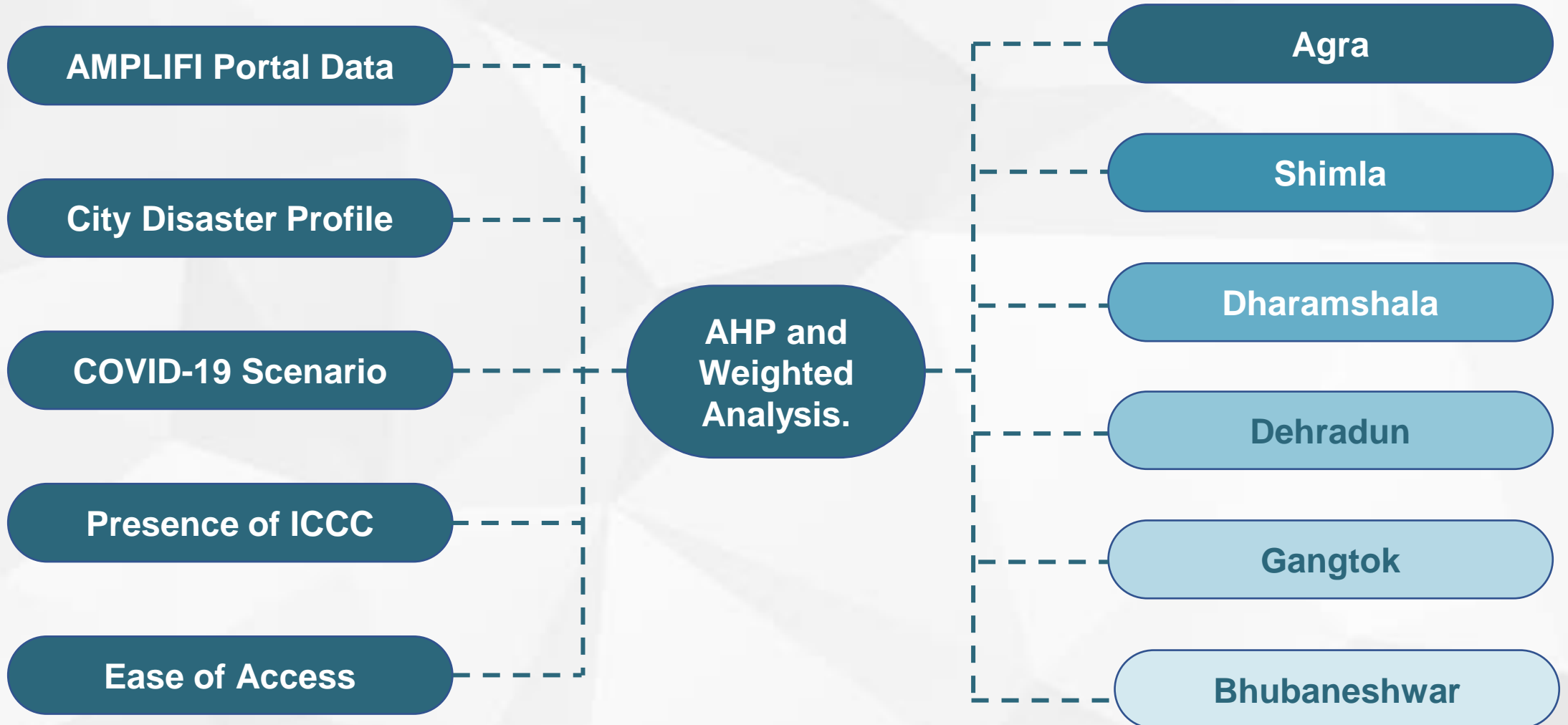


Fire Fighters.



Citizens.

CITY SELECTION STRATEGY



FINANCIAL BREAKUP

Cost Heads	App. Percentage	Approx. Budget		
		Tier 1 city	Tier 2 City	Tier 3 City
Tool kit development (app/tool/visualization etc)	45%			
HR component (survey personals, local area expert, thematic expert etc.)	30%			
Data component (Sat imagery/ maps, map APIs)	10%			
Overhead and miscellaneous	15%			
Total Budget		₹ 10,00,000.00	₹ 7,00,000.00	₹ 5,00,000.00



THANK YOU!