Resilience AI

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Building Resilience
at every step

www.resilience360.ai

Risk Management, that is based on Unverified geospatial analytics, Missing built-environment intelligence, Multiple standards and Statistical models are conventional drills. This drill doesn't provide **Access, Accuracy, Actionability** for business and government to prepare its people, assets, business for disaster and environment impact.

Resilience360 is the **first enterprise software** that upstreams disaster and environment risk for both business and governments as a Life Cycle Management (LCM) and not in silos.

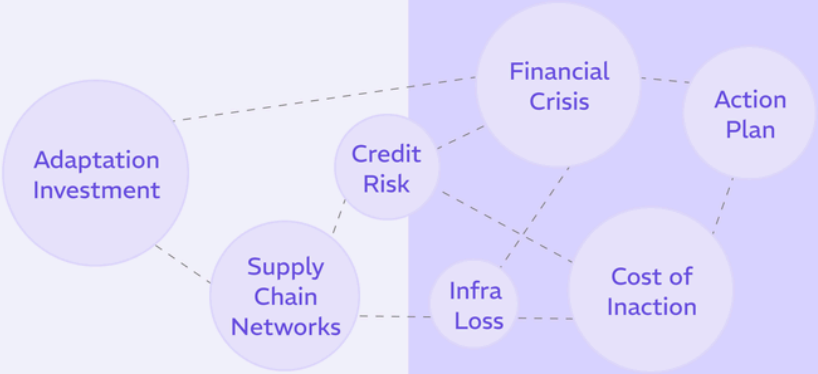
Resilience AI is mainstreaming **Risk to Resilience,** beginning with Cyclone Yaas, a setback for People, Planet, Profit

Our Vision is Building Resilience at every step.

The Mission is to provide low-cost, science-based, factually-accurate, high-impact technology to prepare 60% unaccounted buildings and business.

Why Resilience 360?

Private Sector



<2% private sector in adaptation finance

70% Fortune companies experience **supply chain disruption**

>90% CROs view climate change as top emerging risk

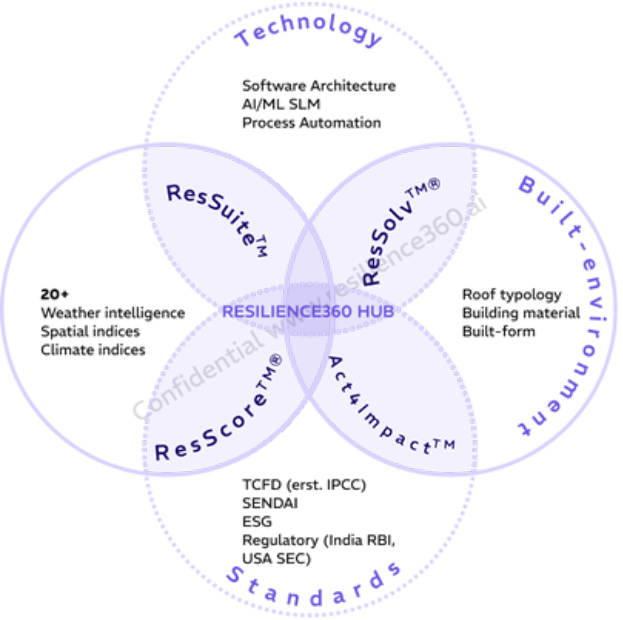
USD 30 trillion per year as Cost of Inaction is equivalent to GDP of United States

<30% ULBs **plan to act on EWS** and weather forecasts

Built Environment losses is **~70%** of the total losses

Public Sector

What is Resilience 360?



- Verified building risk record at >90% accuracy; any format, anywhere.
- Risk exposure intel in 8 hours per asset; run it for large volume.
- Single-window, multi-standard business preparedness test.
- Compliance with root-cause analysis.
- 9-18 days to automate your workflow with API.
- 4-8 months to digitize disaster risk management with Software

Enterprise Risk Life Cycle Management using Resilience360 suite of products

MEASURE

Baseline Risk exposure for Buildings to Business
(built-environment and company/ city baseline)

COMPLY

Diagnose and Analyse root cause of Risk
(insights, report)

MONITOR

Reduce Risk with controls and compliance
(people, asset, business)

MANAGE

Digitized Mitigation Action
(action, multiply)

ResSolv™

ResSolv is a climate-risk determination module, which uses three decades of roof-top architecture, built environment, artifical intelligence (AI) and Machine Learning based classification.

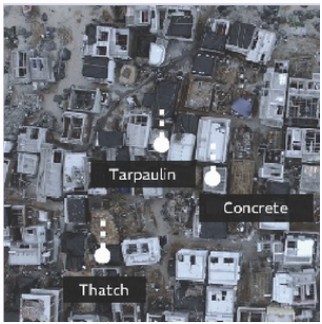
20+
Factors applied using Machine Learning

25+
Realtime climate events

720k+
Verified building

>90%
Confidence

<8 hr
Run-Time

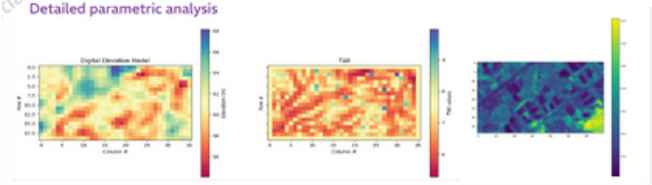


Every roof is a unique fingerprint ...

... which translates to every building's unique climate risk profile

ResSuite™

ResSuite™, is a Generative AI based report of analytics, which covers climate risk diagnosis (root cause analysis), biodiversity atlas, value at risk, composite vulnerability index.



ResScore™

ResScore™ is an index, which evaluates climate resilience, covering both sustainability and climate related risks based on 6 pillars

INNOVATE CITIES 2024

Strategy | Social | Physical | Environment | Economic | Crisis

Institutionalized baseline assessment for companies intersecting across standards and frameworks

ESG | SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION 2015-2030 | IPCC

Digitised for ease of adoption

Using hyperlocal database, it acts as a starting point to assess climate preparedness at an organization level with insights from 55+ vulnerability parameters

Demos Conducted

10+

Tam Size (Employees)

15+

Paid Pilots

Near-committment orders

100+

Network of Fellows

30+

Cities where model has been run

USBRL

CASE STUDY 01

The Konkan Railway Corporation Limited (KRCL) and Resilience AI worked together to draft a disaster risk report for the Udhampur-Srinagar-Baramulla Railway Link (USBRL), a railway line of national importance that is built in a geographically challenging region.

OPPORTUNITY

The USBRL is a vital transportation link in J&K and faces constant threats from natural disasters, posing significant risk to the railway line's infrastructure, stations, and surrounding communities.

SOLUTION

Our AI-enabled tool, ResSolv, was run to utilize high-resolution satellite imagery, meteorological data, & other relevant parameters to assess vulnerabilities within a 1 km buffer zone around each of the railway stations.

IMPACT

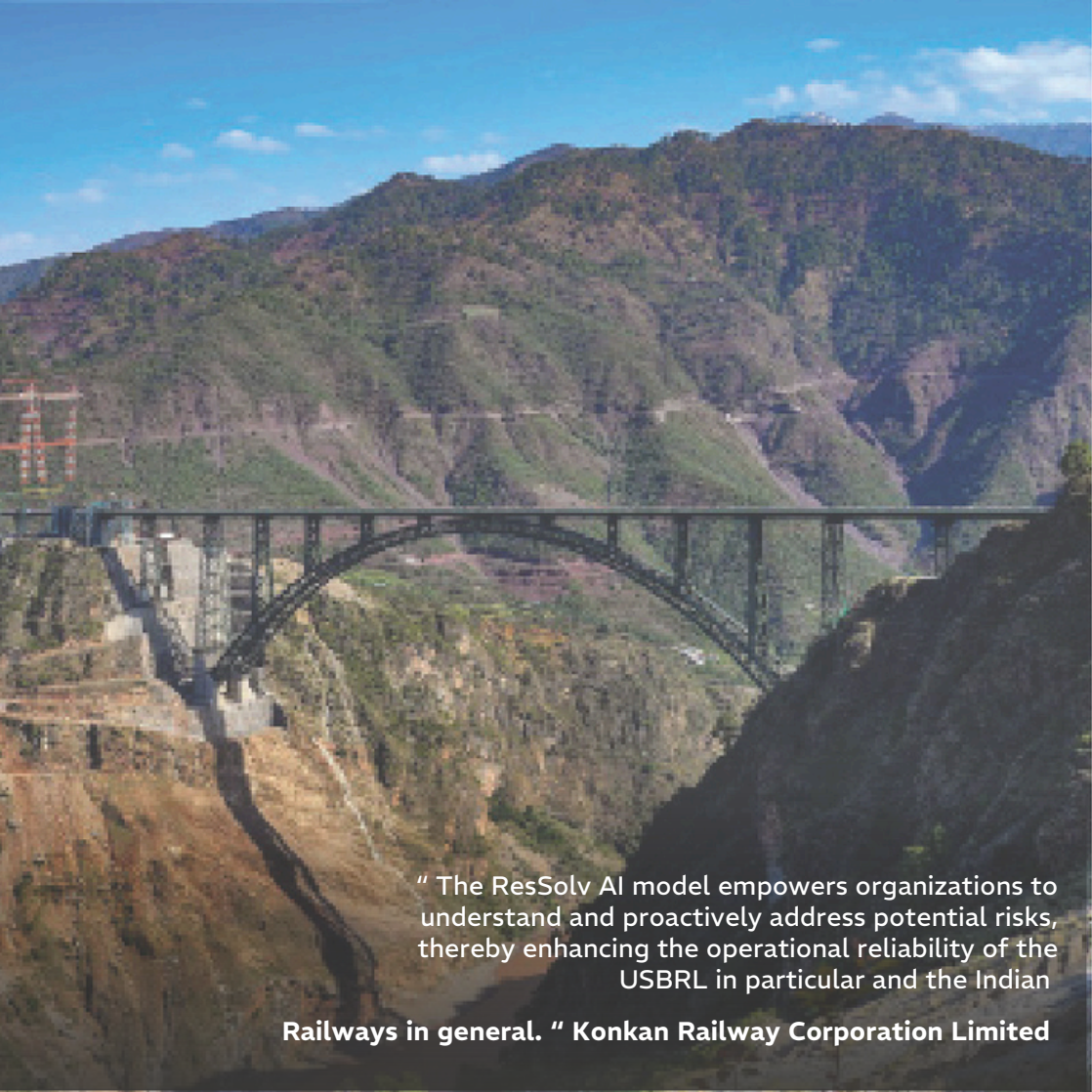
- Prioritized Risk Mitigation
- Infrastructure Protection
- Data-driven Decision Making

2 Years

360° climate planning timespan

13.5 hours

Projected runtime from pilot order initiation



" The ResSolv AI model empowers organizations to understand and proactively address potential risks, thereby enhancing the operational reliability of the USBRL in particular and the Indian

Railways in general. " Konkan Railway Corporation Limited

Vivekananda Camp

CASE STUDY 02

The Chintan Environmental Research and Action Group worked closely with Resilience AI to deploy innovative solutions at the climate-health nexus, particularly in implementing AI models for assessing heatwave impacts on vulnerable communities in Vivekanand Camp, Delhi.

OPPORTUNITY	Hyper-local heat disparity. Low-income, highly dense areas such as Vivekanand Camp are up to 6° C hotter than the rest of the city.
SOLUTION	AI for Extreme Weather - Resilience used the AI-generated maps to find high-risk homes, prioritize outreach for early warning and preparation, and demonstrate the significance of heat risks to locals.
IMPACT	Once at-risk households were identified, the team began outreach to prepare for the upcoming heatwave and implement solutions. Cool roof prototypes were fabricated and tested, with one model resulting in 12°C lower indoor temperatures.

3 Years

Product development timespan

5 hours

Projected runtime from pilot order initiation

" It is true that the repercussions for heatwaves are long felt and there is pressing need for AI tools such as ResSolv to help understand the hyperlocal risks of communities. "

Bharti Chaturvedi

Director, Chintan Environmental Research and Action Group

" BSDMA is the first SDMA to leverage an AI-based tool as part of a CDMP for the assessment of socio-economic vulnerability & risk at a hyper-local, building level. "

Bihar State Disaster Management Authority

Gaya CDMP

CASE STUDY 03

Resilience AI was engaged by the Bihar State Disaster Management Authority (BSDMA) to contribute to the City Disaster Management Plans (CDMP) for Gaya, an important tourist city in Bihar.

OPPORTUNITY

Traditional disaster response mechanisms lack precision in identifying hyper-local risk zones, leading to generic alerts and inefficient evacuation plans. This results in longer recovery times and greater disruptions.

SOLUTION

Resilience AI team worked with BSDMA to leverage ResSolv in the preparation of the Gaya City Disaster Management Plan. Advantages include enhanced Early Warning Systems (EWS) and optimized resource allocation, evacuation & recovery planning.

IMPACT

The focal point of this output was the creation of a modern-day CDMP that works to reduce disaster risks at a household level, through a synergistic integration of advanced technologies and community-centric approaches.

2 Years

360° climate planning timespan

48 hours

Projected runtime from pilot order initiation

Founders Story

Resilience AI was officially incorporated in November 2023.

Samhita is from the northeastern belt of India, which experiences significant loss of assets and livelihood every year due to floods. “While nature may be seasonally unkind, resilience doesn’t need to be seasonal. Climate resilience should be a 365-day conversation.” She co-founded Resilience AI with the aim of building climate resilience with technology.

Sundeep is a 5th generation farmer. Agriculture faces inevitable losses due to climate change. Over 18 years he has set up Climate and ESG business units and Data science centre of excellence to give future generations a fighting chance with nextGen climate solutions.

Dr. Anshu and Dr. Manu are urban planners serving dignity in disaster globally for 30 years. They have been awarded the United Nation Sasakawa Award and the Subhas Chandra Bose Aapda Prabandhan Puraskar by the Government of India for building resilience in communities exposed to disasters and climate change impact.

Together, we aim to provide goverments, climate agencies and private corporations with credible and co-owned intelligence to build their resilience to climate-induced events.

Year

1	2	3	4
2022	2023	2024	2025
Resilience360 1.0	Resilience AI Solution Pvt. Ltd. Incorporated	Seed capital	Resilience360 2.0 two product patent

Mentions

Spotlight

Partnerships

Resilience AI

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