Resilience AI

Building Resilience At Every Step

Resilience AI

$280B in global economic losses from natural catastrophes in 2023

Is your city prepared to avoid becoming part of that cost?

In 2023, U.S. saw 28 climate disasters costing $92.9B+
India lost $12B+ to natural catastrophes the same year

How much loss are cities silently absorbing?

Cities still rely on static disaster audits, paper plan SOPs, and generic risk assessment. **The assumption?**

- Disruption is at city, zone, ward level – not at roof, ageing infra, interlinked city asset (drainage → water network)
- Risk is climatic—not at geolocation and building structure
- City resilience is a Disaster Authority issue—not a Development Authority and City Corporation concern
- Infra damage, Trade shutdown, Loss of lives and income during disaster is lower than Investment in preparing cities before disaster

That's a blind spot when:

- Under disaster scenario, annual growth rates for stocks of supply-chain industries could drop from +8% to around +4%
- **Tropical cyclone:** $78 million economic damage daily; 117 days of port downtime globally at $312 billion value at risk; S&P500 returns reduced by 2pps lowering long-term expectations to around +6% per year; affected people could increase by 23% by 2050
- **Heat rising:** LA hit 109°F in September heat extremes; 200+ heat days yearly; 90% workforce exposed to extreme heat
- **Flood events:** 29% increase in 2023; ~31.6% of properties in NYC at risk of flooding over next 30 years; Eight Indian states identified as vulnerable

Cities know risk is rising

So, what this tells us
Disaster Planning ≠ City Readiness

Cities are ecosystems. They need models that work from rooftops to riverbeds. Modeling disaster and environment is complex and needs technology that isn't there in traditional or static models to score exposure—at high accuracy, near real-time, large scale, low cost

Where risk models fall short

- Street drains missed
- Indoor heat ignored
- Building age skipped
- Generic hazard zones
- No ward mapping

Why It leads to half measures

- No loss tracking
- No local actions
- Playbooks too broad
- Old insurance data
- Infra unlinked to risk

City planners and authorities need a system that scores, scans, flags, and reports on multiple parametric-before sanction, not after disaster

- Multi-hazard risk
- Built-environment
- Hyperlocal
- Software AI/ML
- Saves Cost
- Scalable
- Audit-proven
- Budget aligned

Legacy limitations

- Imprecise Mapping, Generic GIS & satellite overlay
- Unscalable Scoring, fail at portfolio scale
- Highly uncertain stress testing models missing parametric at built environment
- Superficial Checks. Checkbox exercises or outsourced
- No Real-time, failing at crucial disaster readiness & damage audit
- Reactive Compliance, backward-looking posture for TCFD/SENDAI compliance

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The Resilience360 Way
Resilience AI

How resilient is your city backbone to climate and physical stress?

Resilience360 helps authorities, plan, and act on risk-fast. It's plug-and-play, scalable, and delivers building-level insights to guide upgrades like drainage retrofits, ventilation tuning, material swaps, and route re-routing.

Perfect For:

- **City Engineers:** Know building risk before flood season
- **Budget Officers**: Prioritize infra retrofit by impact
- **Disaster Cells**: Activate early-warning protocols
- **Planners**: Use real flood & landform data for zoning
- **ESG & Compliance**: Map city actions to NDMA, Sendai, and RBI directives

WORKFLOW USE CASES

Workflow	Legacy Challenge	Resilience360™ Fit
Risk Mapping	City-wide zones, no structure-level insights	ResSolv™: Building-to-city hyperlocal flood, heat, storm risk mapping
Resilience Benchmarking	No ESG/Sendai/TCFD linked resilience scores	ResScore™: 6-dimension resilience score of a department or business unit
Early Warning and Alert	No site-specific parametric climate triggers	ResSolv™: Hazard-linked risk signalling with location triggers
Infrastructure Planning	Infra upgrades not based on forward climate risk	ResSuite™: Scenario overlays (RCP), asset-level risk simulations
Action Readiness	No localized infra or adaptation action priorities	ResScore™: Action flags by stakeholder with prioritization metrics
Disaster Budgeting	Infra and climate spend not data-aligned	ResScore™ + ResSuite™: Data-based budget planning with value-at-risk and exposure rank
Post Disaster Analysis	No feedback loop to improve infra or policy	ResSuite™: Post-event inspection, diagnostics, exposure deltas, audit reports

Feedback loop

Resilience360™	Products Description
Resilience Hub	**ResHub™** Interactive dashboard with asset risks exposure, past disaster events, early warnings, parametric insights
04 **SCALE** Digitized Marketplace	ClimateGuru™® Upgrade policies (ESG, EHS, building design), design architecture and build adaptive capacity
03 **ACTION** Reduce Risk with controls and compliance	Act4Impact™® Convert insights into metric driven action through automated adaptation activities, strategies, and risk mitigation
02 **PLAN** Diagnose and Analyse root cause of Risk	ResSuite™ Repository with environmental impact analysis, disaster insights, RCP scenarios, value at risk.
	ResAtlas™ Empowers data-driven Atlas of natural resources such as Solar, Water, Vegetation
01 **DETERMINE** Baseline Risk exposure of Buildings to Business	ResSolv™® Creates hyperlocal risk profiles using spatial, climate, and built-environment data—scalable from one building to an entire city
	ResScore™® Calculate organisation's resilience to assess readiness, peer benchmark and adherence to TCFD, ESG standards

IMPACTFUL SOLUTIONS

- Reliable AI/ML at >90% accuracy with 20+ environment and built environment parameters
- Near real-time updates for 6 types of disasters *(urban flood, coastal flood, earthquake, heatwave, cyclone)* *with* 730,000+ building risk records in 50 cities
- Business Resilience Playbook – Tailored business continuity plan with financial metrics (cost of action vs inaction)
- Baseline asset resilience in 30minutes and business resilience in 60minutes
- Easy to scale - Easy to use integrates with systems, unifies physical & transition risk
- Cost efficient tiered pricing-Lite, Basic, Pro-edition for on demand preparedness

World Bank (2024) flags $314B annual losses from urban climate disasters—yet most cities lack building-level risk intelligence
Let's fix that—one ward, one structure at a time

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