

Natural disasters caused \$310B in global economic losses in 2024, with \$135B in insured losses, significantly impacting manufacturing sectors worldwide (Source: Swiss Re, 2024)

How much loss are factories silently absorbing?

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

- Disruption is at zone level not at roof, ageing infra, interlinked plant asset (drainage → water network)
- Risk is climatic and historical —not at geolocation, building structure, real time
- Asset resilience during disaster is a Risk and ESG issue—not a Plant Management and EHS concern
- Infra damage, Business Planning error, Trade shutdown, Loss of lives during disaster is lower than Investment in preparing factories 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%
- \$122B in economic losses linked to climate-related disruptions in industry output and consumption ¹
- Record-breaking heatwaves and floods in 2024 have led to significant operational halts in manufacturing hubs 2
- \$123B in global agricultural production
- Environment audits (ESG, ESDD) miss real costs-lives, sites, financial premiums

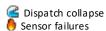
Manufacturers know risk is rising

So, what's Missing

ESG and Asset Risk audits ≠ Disaster readiness

Factories aren't just production floors, they're distributed, interlinked, high-volume nerve centers. 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



Rooftop fractures

Backup short-outs 📍 Stock misplacement

Why It leads to half measures

Penalty spikes Rework wastage

O Clean room breaches

Protocol failures **Buffer losses**

Factories and enterprises 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
- Sca lable
- Audit-proven
- Budgetaligned

Legacy limitations



Imprecise Mapping, Generic GIS & satellite overlay



Unscalable Scoring, fail at portfolio scale





Highly uncertain stress testing models missing para metric at built environment



Reactive Compliance, backward-looking posture for TCFD/SENDAI compliance





Superficial Checks. Checkbox exercises or outsourced

Learn more: www.resilience360.ai



1. Source: The Econo mist Impact, 2023 | 2. Source: UNEP FI, 2024 | 3. Source: UNEP FI, 2024 | 4. Source: Congressional Budget Office, 2024

disaster readiness & damage audit



How resilient is your manufacturing network to climate and operational risks?

Resilience360™ helps plant heads, risk teams, and manufacturing networks assess, plan, and act on exposure, fast. It's plug-and-play, scalable, and delivers asset-level insights to guide upgrades like equipment hardening, layout changes, critical material protection, and adaptive shift planning

Perfect For:

- Plant Managers: Need full facility risk visibility
- Risk & Compliance Teams: Need real-time exposure baseline for audits and safety
- Operations & Maintenance Heads: Need site-level alerts and retrofit suggestions
- Procurement & Sourcing Teams: Need climate-smart vendor and site selection insight

Resilience 360™

 CFOs & Business Continuity Planners: Need stock safety insights to cut losses and ensure continuity

WORKFLOW USE CASES

	Workflow	Legacy Challenge	Resilience 360 ^m	
l	Plant Risk Profiling	Facility risk evaluated by region, not per site or line	ResSolv ®: Site-specific and intra-factory climate and hazard profiling	
	Supplier Risk Evaluation	Supplier hubs assessed without climate-adjusted metrics	ResSolv [®] : Hyperlocal exposure scoring of vendor locations	
	Production Continuity Planning	Climate impact scenarios missing in production risk models	ResSuite : Scenario modeling for operational downtime and cost of recovery	
	Insurance Asset Readiness	Factory resilience not scored, premiums based on generic hazard zones	ResScore ©: Factory resilience baselines that feed better AOP planning, disaster reserves, insurance	
	ESG & Compliance Reporting	Climate disclosures manually fragmented, facility compliance uneven	ResScore , ResSuite : Automated ESG reporting mapped to TCFD, CSRD, ISDR, Sendai	
	New Site Selection	Expansion decisions ignore future climaterisk	ResSolv [®] [©] : Climate-aligned site vetting for manufacturing expansion	
	Post-Disaster Recovery	No structured post-event asset impact mapping	ResSuite ©: Event triage, recovery modeling, asset re-prioritization	

IVESIII	lence 300	Froducts Description		
Resil	ience Hub	ResHub™ Interactive dashboard with asse exposure, past disaster events, warnings, parametric insights		
04	SCALE Digitized Marketplace	ClimateGuru™® Upgrade policies (ESG, EHS, building design), de architecture and build adaptive capacity	esign	
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 insights, RCP scenarios, value at risk.	, disaster	
02		ResAtlas [™] Empowers data-driven Atlas of natural resourc Solar, Water, Vegetation	es such as	
01	DETERMINE Baseline Risk exposure of Buildings to Business	ResSolv™® Creates hyperlocal risk profiles using spatial, dibuilt-environment data—scalable from one buentire city		
UI	or buildings to business	ResScore ^{™®} Calculate organisation's resilience to assess rea	adiness, peer	

Products Description

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, o/clone) 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

WEF's 2024 report flags manufacturing as highly exposed to climate shocks—yet resilience baselining remains rare

Let's change that—one asset, one insight at a time

Learn more: www.resilience360.al
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benchmark and adherence to TCFD, ESG standards