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Climate Risk Management Market by Software (Climate Risk Assessment & Scenario Analysis, Climate Risk Modeling Tools, Data Integration APIs, Risk Assessment APIs), Offering (Data Analytics Platforms, Compliance & Reporting Software) - Global Forecast to 2031

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Abstracts

The climate risk management market is projected to grow from USD 8.59 billion in 2026 to USD 19.08 billion by 2031, growing at a CAGR of 17.3% during the forecast period. Regulatory emphasis on climate disclosure, resilience planning, and enterprise-wide transparency is driving the adoption of advanced climate risk management platforms across financial services, infrastructure, energy, and asset-intensive industries. Organizations are increasingly required to evaluate and document exposure to physical hazards, transition pressures, and climate-related financial impacts in alignment with evolving frameworks such as ISSB, TCFD, and jurisdiction-specific sustainability mandates. Official guidance from regulatory bodies and advisory firms highlights that climate risk systems leverage geospatial intelligence, scenario-based modeling, and portfolio stress testing to continuously assess vulnerabilities and support strategic adaptation decisions. These platforms enable organizations to shift from reactive compliance processes toward forward-looking resilience strategies that strengthen operational continuity and investment readiness. As climate governance expectations expand, enterprises are implementing integrated climate intelligence solutions that enhance risk oversight, streamline reporting obligations, and improve decision-making across complex business environments.

Vendors in the climate risk management market are expanding platform capabilities by integrating climate intelligence, geospatial hazard datasets, and advanced scenario

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analytics into unified enterprise resilience ecosystems. Leading providers combine machine learning models, asset-level exposure mapping, and transition-risk quantification frameworks to generate precise climate vulnerability insights and forward-looking adaptation strategies. These systems enable organizations to identify material risk concentrations, evaluate financial implications across multiple climate pathways, and coordinate mitigation initiatives across geographically dispersed operations and supply chains. By consolidating environmental intelligence within centralized climate analytics platforms, enterprises gain enhanced visibility into physical and transition exposures, improved disclosure readiness, and stronger resilience planning. As regulatory expectations and stakeholder scrutiny continue to intensify, climate risk management solutions are becoming essential for strengthening governance, safeguarding long-term asset value, and embedding climate-informed decision-making across modern business environments.

“By technology, the geospatial & remote sensing segment is expected to be the largest market during the forecast period.”

Organizations are increasingly implementing geospatial intelligence and remote sensing technologies as climate risk management programs prioritize asset-level exposure mapping, hazard forecasting, and resilience planning across complex operating environments. By integrating satellite-derived observations, high-resolution spatial datasets, and climate scenario engines with enterprise risk platforms, institutions gain continuous visibility into flood susceptibility, wildfire corridors, coastal erosion, drought severity, and heat stress patterns across distributed assets and supply chains. These systems enable early identification of vulnerability hotspots, allowing risk teams to design adaptation measures before climate impacts disrupt operations or financial performance. This approach strengthens portfolio resilience, improves capital allocation decisions, and supports compliance with disclosure frameworks requiring location-specific climate assessments. Advanced geospatial analytics and remote sensing dashboards further enhance scenario planning, infrastructure prioritization, and strategic oversight. As enterprises accelerate climate governance initiatives and embed science-based adaptation into operational models, the adoption of geospatial and remote sensing solutions within climate risk management continues to expand rapidly as the foundational technology layer for enterprise resilience.

“By software, the climate risk management APIs segment is expected to grow at the highest CAGR during the forecast period.”

Climate risk assessment APIs are gaining rapid traction as enterprises prioritize

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embedded climate intelligence, automated exposure analysis, and scalable resilience workflows across digital ecosystems. By leveraging application programming interfaces that connect hazard datasets, emissions inventories, geospatial layers, and scenario engines, organizations can integrate climate insights directly into underwriting systems, portfolio tools, supply chain platforms, and enterprise risk architectures. Additionally, companies are focusing on the growing importance of interoperable climate analytics that support real-time decision-making, financial materiality assessment, and transition-risk quantification within operational systems. These APIs enable automated retrieval of asset-level flood exposure, wildfire probability, heat stress projections, and carbon pathway assumptions without requiring standalone platforms. This convergence of climate data services with enterprise applications strengthens scenario modeling, accelerates regulatory reporting, and enhances adaptation planning across distributed business functions. As organizations modernize digital risk infrastructures, climate risk assessment APIs are emerging as the fastest-scaling software layer in the climate risk management market by enabling continuous, embedded, and actionable climate intelligence.

“North America is expected to account for the largest share in 2026, and Asia Pacific is expected to grow at the highest rate during the forecast period.”

North America is expected to lead the climate risk management market during the forecast period due to mature regulatory ecosystems, advanced climate disclosure requirements, and strong enterprise adoption of resilience-focused analytics platforms across financial services, infrastructure, energy, and real estate sectors. Organizations across the US and Canada increasingly deploy climate intelligence systems to evaluate physical hazard exposure, transition risk, and portfolio-level vulnerability under multiple future scenarios. Enterprises are integrating geospatial datasets, catastrophe modeling, and financial stress-testing tools into enterprise risk frameworks to strengthen adaptation planning and reporting alignment with evolving standards. The region also benefits from the presence of major advisory firms, insurers, and technology providers delivering climate analytics, resilience dashboards, and governance solutions on a large scale. This established ecosystem continues to reinforce North America’s leadership in enterprise-wide climate risk adoption and strategic resilience execution.

Asia Pacific represents the fastest-growing region in the climate risk management market, driven by accelerating urbanization, infrastructure expansion, and rising exposure to heat stress, flooding, typhoons, and water scarcity across high-growth economies. Countries including India, China, Japan, and Southeast Asian markets are scaling climate adaptation initiatives and adopting digital resilience tools to assess asset exposure and strengthen long-term planning. Organizations are increasingly implementing scenario analysis platforms, climate finance frameworks, and hazard-mapping technologies to support infrastructure resilience and regulatory preparedness. Growing investment in GreenTech ecosystems, enterprise sustainability programs, and climate-linked financial strategies is strengthening regional demand for integrated climate intelligence solutions. As adaptation becomes central to economic planning, the Asia Pacific is emerging as the most dynamic growth engine for climate risk management technologies and advisory services.

Breakdown of Primaries

In-depth interviews were conducted with chief executive officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the climate risk management market.

By Company: Tier 1 – 35%, Tier 2 – 40%, and Tier 3 – 25%

By Designation: C Level – 28%, Director Level – 50%, Others – 22%

By Region: North America – 30%, Europe – 25%, Asia Pacific – 35%, Middle East & Africa – 5%, and Latin America – 5%

The report includes the study and in-depth company profiles of key players offering climate risk management software and services. Major players in the market include IBM (US), KPMG (Netherlands), Deloitte (UK), PwC (UK), Marsh McLennan (US), ESRI (US), Boston Consulting Group (BCG) (US), Ernst & Young (EY) (UK), Moody's (US), Willis Towers Watson (WTW) (UK), MSCI (US), CoreLogic (US), S&P Global (US), Anthesis (UK), Bain & Company (US), Sunairio (US), Watershed (US), ClimateAi (US), Climate X (UK), Correntics (Switzerland), XDI (Australia), Jupiter Intelligence (US), Sust Global (UK), Mitiga Solutions (Spain), Manifest Climate (Canada), Entelligent (US), Schneider Electric (France), ClearVUE.Business (UK), Climate Scale (Spain), Riskthinking.AI (Canada), Persefoni (US), and First Street (US).

Research Coverage

This research report covers the climate risk management market and is segmented by offering, technology, application, vertical, and region. By offering, the market is split into software and services. The software segment covers risk assessment & scenario analysis tools, climate risk modeling tools, climate data integration APIs, climate risk assessment APIs, climate data analytics platforms, compliance & reporting software, and other software types. The services segment covers professional services and managed services. The professional services subsegment covers training & consulting, system integration & deployment, and support & maintenance. By technology, the market is split into artificial intelligence and machine learning, geospatial & remote sensing, big data & advanced analytics, blockchain, and the internet of things. By application, the market is split into carbon accounting & emission management, disaster preparedness & early warning systems, ESG & sustainable investment risk analysis, weather & agriculture risk management, business & investment risk management, climate litigation & liability risk management, and other applications. By vertical, the market is segmented into BFSI, energy & utilities, agriculture & forestry, transportation & logistics, construction & real estate, government & public sector, manufacturing, and other verticals. The regional segmentation covers North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America.

The report's scope encompasses detailed information on the major factors, including drivers, restraints, challenges, and opportunities, which influence the growth of the climate risk management market. A detailed analysis of key industry players has been conducted to provide insights into their business overview, software and services, key strategies, contracts, partnerships, agreements, product & service launches, mergers and acquisitions, and recent developments in the climate risk management market. Moreover, the report provides a competitive analysis of emerging startups in the climate risk management market ecosystem.

Key Benefits of Buying the Report

The report will provide market leaders and new entrants with information on the closest approximations of the revenue numbers for the overall climate risk management market and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights to better their business and plan suitable go-to-market strategies. It also helps stakeholders understand the market pulse and provides information on key drivers, restraints, challenges, and opportunities.

The report provides insights into the following pointers:

Analysis of key drivers (Increasing frequency and intensity of extreme weather events, growing economic pressures to build climate-resilient infrastructure, mounting regulatory pressure and disclosure requirements, increasing influence of investors and financial institutions), challenges (Significant financial resources and technical expertise requirements, methodological Inconsistencies and lack of standardization), opportunities (Growing demand for climate risk solutions in global finance, growth in advanced software and AI-powered climate solutions, green infrastructure and resilient supply chains strengthen business resilience to climate risk), and restraints (Limited availability of high-quality, standardized climate data, organizational resistance to change).

Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities, and product & service launches in the climate risk management market

Market Development: Comprehensive information about lucrative markets across varied regions

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the climate risk management market

Competitive Assessment: In-depth assessment of market share and growth strategies and service offerings of IBM (US), KPMG (Netherlands), Deloitte (UK), PwC (UK), Marsh McLennan (US), ESRI (US), Boston Consulting Group (BCG) (US), Ernst & Young (EY) (UK), Moody’s (US), Willis Towers Watson (WTW) (UK), MSCI (US), CoreLogic (US), S&P Global (US), Anthesis (UK), Bain & Company (US), Sunairio (US), Watershed (US), ClimateAI (US), Climate X (UK), Correntics (Switzerland), XDI (Australia), Jupiter Intelligence (US), Sust Global (UK), Mitiga Solutions (Spain), Manifest Climate (Canada), Entelligent (US), Schneider Electric (France), ClearVUE.Business (UK), Climate Scale (Spain), Riskthinking.AI (Canada), Persefoni (US), and First Street (US).

The report also helps stakeholders understand the pulse of the climate risk management market, providing insights into key drivers, restraints, challenges, and opportunities.

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