

Mapping how climate change impacts retailers

Unlock financial resilience with innovative technology



News headlines are filled with reports of extreme weather events and warnings about climate change. For retailers, the impacts of a warmer climate are a scary reality – impacting materials, production and logistics, costing billions of dollars, and threatening operations and customer relationships.

Consider these severe weather events in 2024:

January



The lake that feeds the Panama Canal reaches its lowest level since recording began, threatening shipping¹



Four winter storms hit North America in a two-week period²

February



Wildfires in South America start earlier and lead to record wildfire carbon emissions in Brazil and Venezuela³

March-September



Heavy flooding damages infrastructure and agriculture in Pakistan and Afghanistan⁴

April



The UAE receives almost a year's rainfall in 24 hours, disrupting one of the world's busiest airports⁵

May and June



Severe floods affect factories, warehouses and transportation in southern China⁶



A drought and heatwave in northern China damage crops⁷

July



Heatwaves scorch Europe, closing factories and killing crops⁸



89 wildfires rage across the U.S., destroying properties and triggering air quality alerts and evacuation orders⁹

August

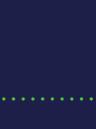


The EU has activated its Civil Protection Mechanism a record 31 times¹⁰

September



Hurricane Helene causes over \$79 billion in damages and disrupts manufacturing and logistics across the southern U.S. states¹¹



Typhoon Yagi closes ports and airports, delays shipments by more than two weeks¹² and damages facilities and inventory in China and Vietnam¹³

October-November



Severe flooding in eastern Spain damages the electrical grid, causes widespread shop closures, and affects more than 49% of food producers¹⁴

December



Winter storms in the Northeast and Midwest of the U.S. disrupt travel and logistics¹⁵

What are businesses experiencing with a changing climate?



Facility shutdowns



Crop failures



Transportation delays



Higher costs

Store closures

Damaged inventory

Supplier disruption

Price spikes

Property damage

Stock shortages

Port congestion

Panic buying

What if you could measure the impact of future events on your business?

No one has a crystal ball into the future. But FIS® can give you the nearest thing: the ability to map your risks from severe weather and climate-based disruptions.

FIS® Climate Risk Modeler combines global climate data, with FIS' finance and insurance models. With coverage of both acute and chronic climate-related perils, you can run "what-if" scenario analysis to understand how your company's risk profile might change under alternate business configurations – and then take action to strengthen any weak points.

With FIS Climate Risk Financial Modeler, you can:

- Model the effects of severe weather across multiple climate change futures
- Project trends in facility damage, supply chain disruption and insurance premiums
- Quantify the potential future financial impact on your company
- Identify location-specific or regional drivers of risk to prioritize mitigation actions



We work with retailers of all types to measure the financial impacts of climate change on their physical assets and facilities.

Find out how you can make more informed decisions that will help **protect your operations, make your money work harder and maximize growth** – all while meeting climate disclosure requirements.

[Unlock more](#)

Money at rest Money in motion Money at work™

Our **technology** powers the global economy across the money lifecycle.



Money at rest

Unlock seamless integration and human-centric digital experiences while ensuring efficiency, stability, and compliance as your business grows.



Money in motion

Unlock liquidity and flow of funds by synchronizing transactions, payment systems, and financial networks without compromising speed or security.



Money at work

Unlock a cohesive financial ecosystem and insights for strategic decisions to expand operations while optimizing performance.

About FIS

FIS is a financial technology company providing solutions to financial institutions and businesses. We unlock financial technology to the world across the money lifecycle underpinning the world's financial system. Our people are dedicated to advancing the way the world pays, banks and invests, by helping our clients to confidently run, grow, and protect their businesses. Our expertise comes from decades of experience helping financial institutions and businesses of all sizes adapt to meet the needs of their customers by harnessing where reliability meets innovation in financial technology. Headquartered in Jacksonville, Florida, FIS is a member of the Fortune 500® and the Standard & Poor's 500® Index. To learn more, visit FISglobal.com. Follow FIS on LinkedIn, Facebook and X.

fisglobal.com/contact-us

[X.com/fisglobal](https://x.com/fisglobal)

linkedin.com/company/fis

1. <https://www.woodwellclimate.org/drought-panama-canal-7-graphics/>
 2. https://en.wikipedia.org/wiki/January_2024_North_American_winter_storm
 3. <https://atmosphere.copernicus.eu/cams-global-wildfires-review-2024-harsh-year-americas>
 4. https://www.acaps.org/fileadmin/Data_Product/Main_media/20241009_ACAPS_Pakistan_-_2024_Monsoon_floods.pdf
 5. <https://www.rmets.org/metmatters/dubai-floods-and-cloud-seeding>
 6. <https://www.freightwaves.com/news/weathers-wrath-supply-chains-reel-from-2024s-extreme-events>
 7. <https://www.theguardian.com/world/article/2024/jun/24/weather-tracker-southern-china-floods-north-suffers-drought>
 8. https://en.wikipedia.org/wiki/2024_European_heatwaves
 9. <https://edition.cnn.com/2024/07/26/us/california-park-fire-oregon-durkee-jasper/index.html>
 10. <https://www.reuters.com/business/environment/eu-manages-record-number-responses-extreme-weather-2024-09-04/>
 11. <https://www.climate.com/news/features/blogs/beyond-data/2024-active-year-us-billion-dollar-weather-and-climate-disasters>
 12. <https://windward.ai/blog/super-typhoon-yagis-supply-chain-effects/>
 13. <https://www.vietnam-briefing.com/news/impact-of-typhoon-yagi-on-vietnam-economic-damage-and-recovery-efforts.html>
 14. <https://www.caixabankresearch.com/en/economics-markets/activity-growth/economic-impact-floods-valencia-province>
 15. <https://edition.cnn.com/2024/12/04/weather/winter-storm-midwest-northeast-climate>