Weather and Climate Data in Action

The logistics and transport sector significantly contributes to the U.S. economy. NOAA's National Center for Environmental Information (NCEI) weather and climate data help ensure business continuity by managing weather-related risks to business operations

$1.48 T

Logistics and transport contribute revenues of $1.48 trillion to the U.S. economy

8%

That's 8% of annual GDP (2015)

By 2023, global market revenue from logistics operations are projected to increase by over 7 trillion!

The U.S freight rail network transports 5 million tons of cargo on a daily basis

The $60 billion dollar industry operates on 140,000 miles of track

That's enough track to circle the equator nearly 6 times!

Air and express couriers provide expedited and time-sensitive services for documents, small parcels, and high-value items

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This makes up an $82 billion industry!

Adverse weather poses a challenge for logistics and transport companies. NCEI's data helps air express couriers and railways reduce weather-related risk, optimize performance and customer satisfaction.

Railways access NCEI's station-based weather and climate data products

NCEI data are used to analyze weather and climate hazards to railway infrastructure

These data also help planners optimize new track placement to minimize weather risk

These analyses enhance safety and minimize weather-related service disruption

Express couriers like UPS rely on

NCEI's climate and weather data helps to protect businesses' profits and reputation, improve worker and bystander safety, reduce risk to equipment and property, and resolve legal liabilities

Over the last 10 years, sunkinks **caused 366 derailments amounting to over $167 million in losses!** And extensive legal liability.

Analysis with NCEI's data informs procedures that help avoid derailments, potentially saving lives and millions of dollars in avoided losses

NCEI's certified data serve as evidence in a court of law, helping railways to resolve legal liability

A plane that is unable to land due bad to weather means that **roughly 50,000 packages will be delayed!** The courier then fails to deliver on its expedited service promise

NCEI's data helps to mitigate weather-related delays to ensure packages arrive on time

Delivering on time ensures customer satisfaction and protects against economic losses