Looking to the Future

ModernInfographic

How a Data Operating System Can Help Prepare Today's Supply Chains for Uncertainty

Individual supply chain disruptions can quickly escalate to become global disasters. Disruptions in a single region will often result in delays and increase to international transportation and commerce across the globe.

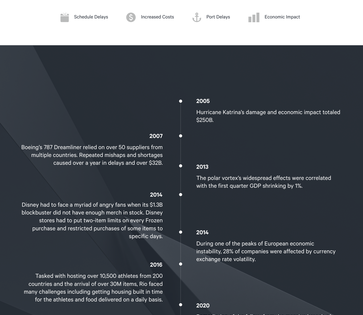
2007
Production Delay
Numerous supplier issues massively delayed Boeing's 787 Dreamliners

2013
Natural Disaster
The polar vortex caused massive delays and power outages

2021
Production Delay
AstraZeneca and other vaccine makers could not meet delivery promises

2014
Financial Crisis
European economic instability drove volatile exchange rates

2020
Cyber Attack
SolarWinds attack took advantage of multiple supply chain layers



2014
Production Delay
Disney* failed to produce enough Frozen** toys at launch

2016
Shipping Delay
Brazilian customs systems delayed multiple shipments

2005
Natural Disaster
Hurricane Katrina knocked out power and transport nodes

2021
Shipping Delay
Evergreen's ship got stuck in the Suez Canal

2020
Natural Disaster
Lockdown quickly spread worldwide, affecting every industry

Schedule Delays | Increased Costs | Port Delays | Economic Impact

2005
Hurricane Katrina's damage and economic impact totaled $250B.

2007
Boeing's 787 Dreamliner relied on over 50 suppliers from multiple countries. Repeated mishaps and shortages caused over a year in delays and over $12B.

2013
The polar vortex's widespread effects were correlated with the first quarter GDP shrinking by 1%.

2014
Disney had to face a myriad of angry fans when its $1.3B blockbuster did not have enough merch in stock. Disney stores had to put two-item limits on every Frozen purchase and restricted purchases of some items to specific days.

2014
During one of the peaks of European economic instability, 28% of companies were affected by currency exchange rate volatility.

2016
Tasked with hosting over 10,500 athletes from 200 countries and the arrival of over 30M items, Rio faced many challenges including getting housing built in time for the athletes and food delivered on a daily basis.

2020
Remediation of the fallout from the massive breach of SolarWinds network management tools – which affected up to 18,000 organizations – could cost companies billions.

2020
85% of global supply chains faced a reduction in operations during the COVID-19 pandemic. 6% shut down completely.

2021
~12% of global trade, ~1M barrels of oil, and ~8% of liquefied natural gas pass through the canal each day. It's estimated that the Canal's revenues were taking a $14M-$15M hit for each day of the blockage.

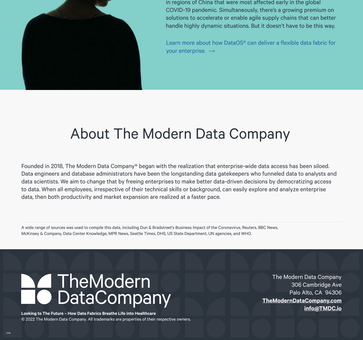
2021
While every provider faced some delays, AstraZeneca told the EU at the start of 2021 that it had to cut vaccine deliveries by 60% to 31M doses.

Delivering Desperately Needed Transformations

Traditional supply chains are like siloed nodes in a linear system operating in a relay. When disaster hits one node, entire systems across the globe can crumble. In many cases, part of the collapse is unavoidable but the strain is made exponentially worse by poor data strategies that are just as rigid as traditional supply chains.

How we used to think about supply chains

How Think About Supply Chains Now



Supply chains are complex networks of manufacturers, vendors, carriers, and buyers who need to be in sync to function like a well-oiled machine. With a data fabric architecture, enterprises can uncover actionable insights at every node before disaster strikes.

The World's First Data Operating System

DataOS® delivers next-gen data and analytics infrastructure as a product. It weaves a connective tissue across distributed data, operationalizing it so users have access to quality, governed, and secure data in real time. DataOS sets teams on the fastest path from data to decisions.

Modern layer over legacy systems
DataOS allows organizations to instantly use their legacy systems in modern ways. You can apply modern governance and activation to legacy systems without the need to modernize them.

Data analysis without data movement
Perform most data analyses with data in place. Move only the data that needs to be operationalized, which means less risk and cost and significantly more value.

Right-to-left data engineering
Business users define the outcome they need. DataOS automatically gets the required data without having to write pipelines.

Modern composable architecture
Composable architecture allows you to realize data fabric, lakehouse, CDP, and similar architectures in weeks vs years.

You can't avoid disaster, but you can prepare with data.

The Time Is Now

From the COVID-19 pandemic, we learned that better understanding supply chain risks requires visibility into tier 2 and tier 3 suppliers that, while relatively small, can create significant disruptions. This is more relevant than ever as the early shutdowns in China drove strong interest in geographical diversification of supply chains — a result of over 90% of Fortune 1000 companies having tier 2 suppliers in regions of China that were most affected early in the global COVID-19 pandemic. Simultaneously, there's a growing premium on solutions to accelerate or enable agile supply chains that can better handle highly dynamic situations. But it doesn't have to be this way.

Learn more about how DataOS® can deliver a flexible data fabric for your enterprise. →

About The Modern Data Company

Founded in 2018, The Modern Data Company® began with the realization that enterprise-wide data access has been siloed. Data engineers and database administrators have been the longstanding data gatekeepers who funneled data to analysts and data scientists. We aim to change that by freeing enterprises to make better data-driven decisions by democratizing access to data. When all employees, irrespective of their technical skills or background, can easily explore and analyze enterprise data, then both productivity and market expansion are realized at a faster pace.

A wide range of sources was used to compile this data, including Dun & Bradstreet's Business Impact of the Coronavirus, Reuters, BBC News, McKinsey & Company, Data Center Knowledge, MPR News, Seattle Times, DHS, US State Department, UN agencies, and WHO.

TheModern DataCompany

Looking To The Future – How Data Fabrics Breathe Life into Healthcare

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