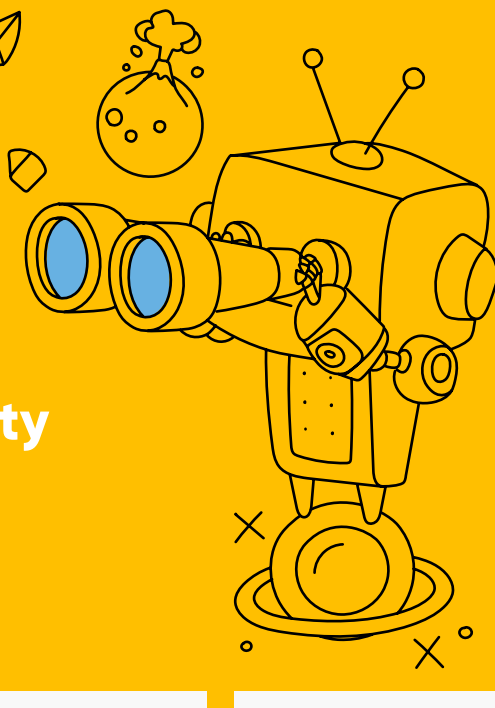


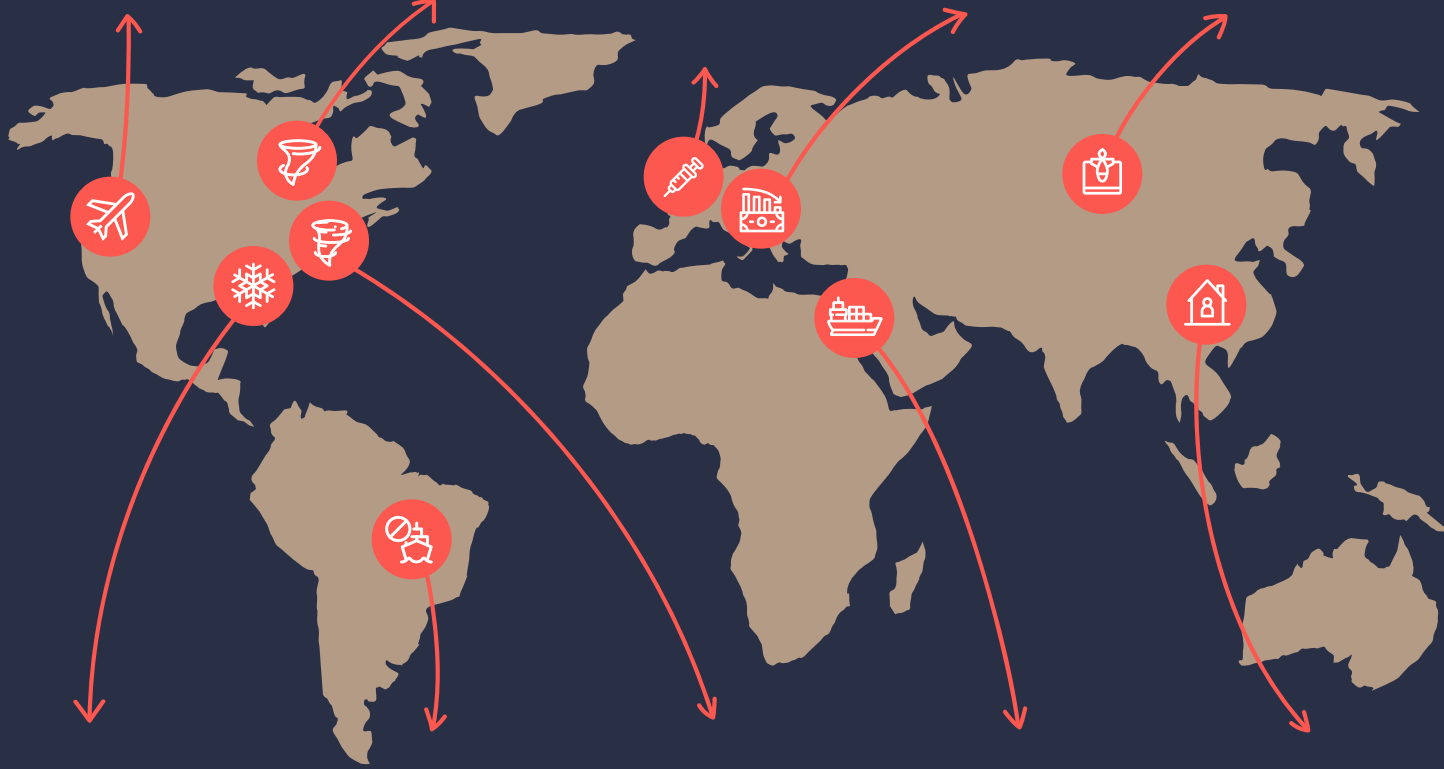
# Looking to the Future

## How Data Fabrics 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 risks to international transportation and commerce across the globe.



<b>2007: Production Delay</b> Numerous supplier issues massively delayed Boeing's 787 Dreamliners 	<b>2013: Natural Disaster</b> The polar vortex caused massive delays and power outages 	<b>2021: Production Delay</b> AstraZeneca and other vaccine makers could not meet delivery promises 	<b>2014: Financial Crisis</b> European economic instability drove volatile exchange rates 	<b>2020: Cyber Attack</b> SolarWinds attack took advantage of multiple supply chain layers 
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<b>2014: Production Delay</b> Disney® failed to produce enough Frozen® toys at launch 	<b>2016: Shipping Delay</b> Brazilian custom systems delayed multiple shipments 	<b>2005: Natural Disaster</b> Hurricane Katrina knocked out power and transport routes 	<b>2021: Shipping Delay</b> Evergreen's ship got stuck in the Suez Canal 	<b>2020: Natural Disaster</b> Lockdown quickly spread worldwide, affecting every industry 
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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 \$32B.

**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.

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

**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.

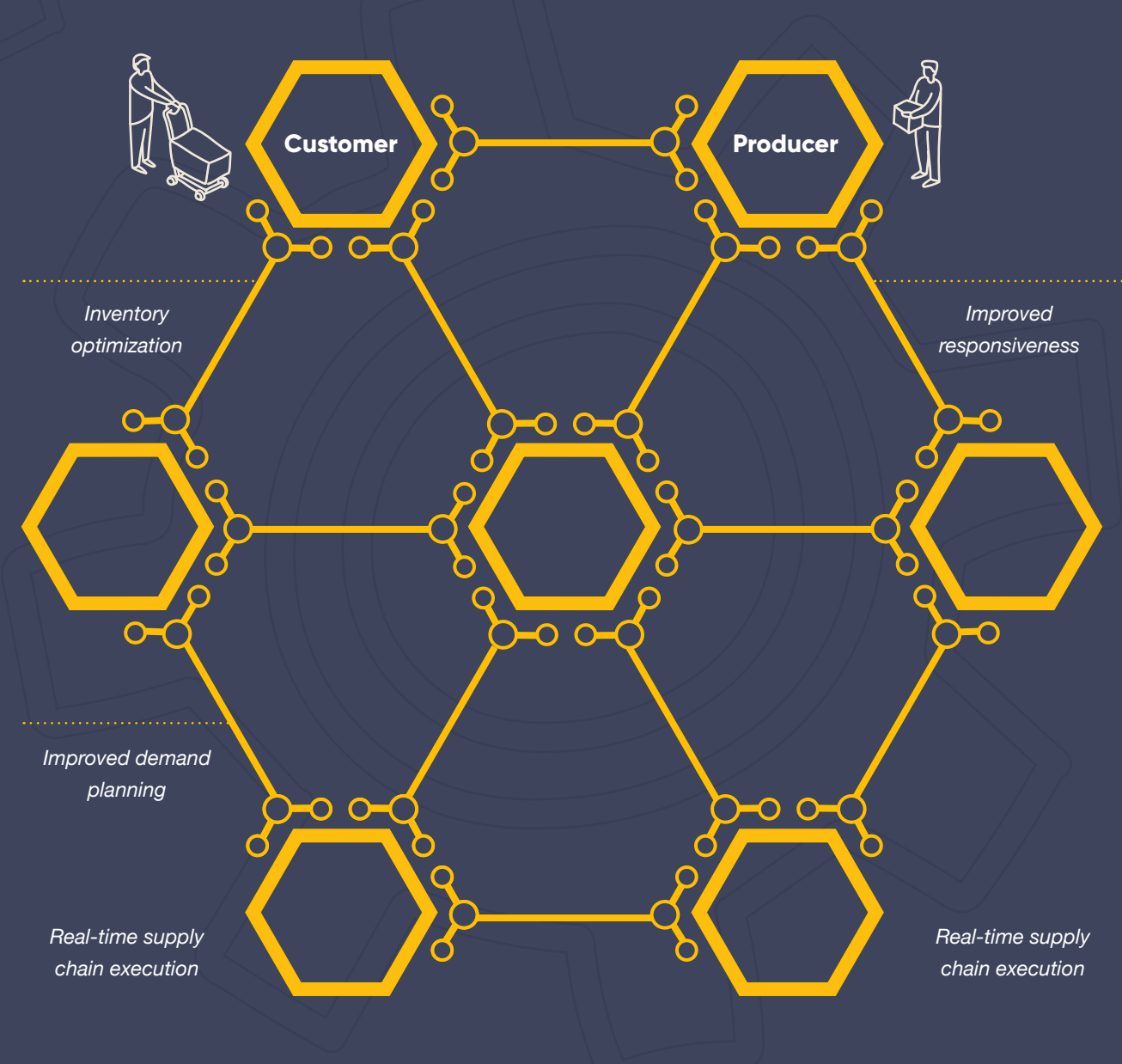
**2021**  
~12% of global trade, ~1M barrels of oil, and ~8% of liquefied natural gas pass through the canal each day. It's estimated that the Canal's revenues were taking a \$14M-\$15M hit for each day of the blockage.

## Data Fabrics Can Deliver Desperately Needed Transformations

Traditional supply chains are like siloed nodes in a linear system operating in a relay. When disasters hit 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 data fabrics help us think about supply chains

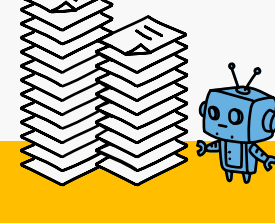


Supply chains are complex networks of manufacturers, vendors, carriers, and buyers who need to be in sync to function like a well-oiled machine. With a Data Fabric, enterprises can uncover actionable insights at every node **before disaster strikes**.

## Data Fabrics Are Cut From a Different Cloth

- Find meaning, not just data**  
 Data Fabrics deliver meaning by weaving together data, from multiple sources in a variety of formats, through a data model with all context in-tact. With a Data Fabric, people and programs alike can make better decisions without data misuse or misinterpretation.
- Powerful query capabilities**  
 Data Fabrics are not static. As a queryable layer, they allow users to discover insights from otherwise disconnected data silos. Information flows from their sources to an output and then back again, dynamically enriching the fabric.
- Enriched systems**  
 Data Fabrics weave together existing data management systems, enriching all connected apps and creating a virtuous cycle of valuable insight and actions.

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 The Modern Data Company **DataOS®** can deliver a flexible data fabric for your enterprise.

## About The Modern Data Company

Founded in 2018, The Modern Data Company® (TMDC) 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.