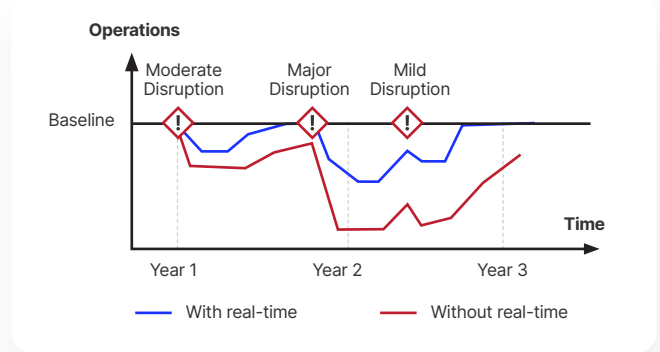


# Improve Patient Outcomes with Real-Time Supply Chain Operations

## Frequent Shocks Require Faster Recovery

Shocks to the global supply chain are more frequent and have a bigger impact than ever before; some experts refer to this as the Great Supply Chain Disruption. Companies must find ways to stretch their lean supply chains to mitigate the impact of geopolitical changes, produce and deliver products with global labor shortages, and continue to meet increasing customer demands for faster delivery and more personalization.

Today, resilience and the ability to recover quickly is critically important. The speed and scale of disruption reinforces the need for real time operations. Companies must predict and mitigate risks, volatility, and other issues right away and then adapt plans and supply chain operations to those conditions as soon as possible.



A resilient, real-time supply chain can reduce the EBITDA impact of a disruption by **23 percentage points**<sup>1</sup>

<sup>1</sup>Interview with Knut Alicke, Partner at McKinsey & Company, Nov. 2020

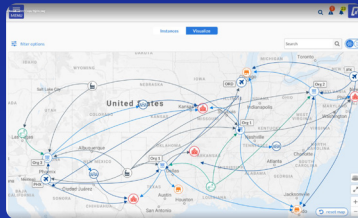
## ParkourSC Shifts Supply Chain Operations From “Point In Time” to “All the Time”

Supply chain executives are embracing real-time supply chain operations to help to combat risk and volatility. Digital twins are a key component of real-time supply chain operations, as they monitor ground-truth and performance, foster cross-enterprise collaboration, and automate processes across the entire supply chain.



### Digitize the end-to-end supply chain

- ✓ Model and adapt operations to business conditions
- ✓ Monitor ground-truth and prevent waste
- ✓ Gain insight into the last mile



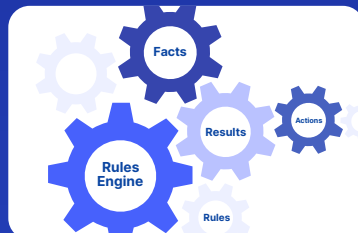
### Optimize the ecosystem with a network of digital twins

- ✓ Share digital twins for collective insight and to foster collaboration
- ✓ Adapt business models to the changing market
- ✓ Deliver new services to end customers



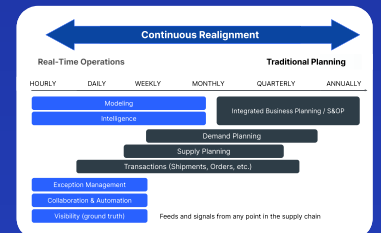
### Embed intelligence into operations and models

- ✓ Use AI/ML to drive predictive insights
- ✓ Extend operations with low-code/no-code scripts
- ✓ Automate processes and exception management across organizations



### Continuously align planning and execution

- ✓ Incorporate ground-truth into operations and planning
- ✓ Improve OTIF and LIFR to boost customer satisfaction, patient outcomes, and revenue



## Customer Successes

### ThermoFisher SCIENTIFIC

**Challenge:** Provide real-time temperature and location intelligence across all geographies to ensure greater customer satisfaction and cost savings

- Over 400k shipments on single platform
- Now able to track and trace new shipment types, including refrigerated and cryo
- Extended shipment visibility and excursion management to new business user groups and carriers
- Global track and trace for all sensor and carrier data

#### Scope

- Parcel shipments: 3,500 per day
- Signals: 597,600 per month
- 500K shipments/year



### \$8MM savings per year

**Challenge:** Shelf life & time out of refrigeration – 45 days collect to process with unit-level tracking

- Increased product integrity: source to disposition
- Reduced spoilage and delays due to quarantines
- Improved inventory turns
- Automated replenishment and inventory reconciliation with ERP
- Streamlined compliance, reduced manual processing

#### Scope

- Gateways: 127
- Signals: 65,000 per hour
- 3.5M liters processed

## Benefits for Customers of ParkourSC

### Innovate for Resilience and Growth

- ✓ Model and adapt the end-to-end supply chain to identify points of weakness and drive strategic initiatives to reduce cycle time and mitigate risks
- ✓ Drive faster innovation and improved return on investment by deploying real-time supply chain operations that provide ground-truth information from all internal and external entities in the supply chain.
- ✓ Increase competitive edge by delivering new services to your own customers through dynamic digital twins, such as insight into sourcing, manufacturing, inventory locations, and logistics tracking – even at the item level

### Visibility and Agility to Cut Costs

- ✓ Overcome data and organizational silos with a central system to monitor the end-to-end supply chain; including systems, sensors, warehouses, ports, and packages—even at the item level
- ✓ Continuously re-align plans to ground truth to balance supply and demand by predicting risks and delivering on-the-ground insights to planning applications
- ✓ Leverage the power of the ecosystem by delivering digital twins to vendors and other partners that automatically alert all stakeholders to issues and collaboratively resolve excursions to eliminate waste
- ✓ Reduce labor costs across the entire supply chain using low-code scripts to automate workflows and provide prescriptive intelligence to resolve excursions

### Transparency for Customer Satisfaction

- ✓ Gain insight into the last mile to improve service levels by increasing on-time and in-full delivery (OTIF) and line item fill rate (LIFR)
- ✓ Give your customers increased transparency and improve customer engagement with smart digital twins that provide assurance all items in a shipment maintain security, quality, and compliance standards throughout the entire chain of custody
- ✓ Provide specific measures of increased Environmental, Social, and Governance (ESG) goals and achievements across the entire supply chain

## We Work with Companies Like Yours



[parkourSC.com](https://parkourSC.com)