

Building Resilience Into Your Supply Chain

Presented by

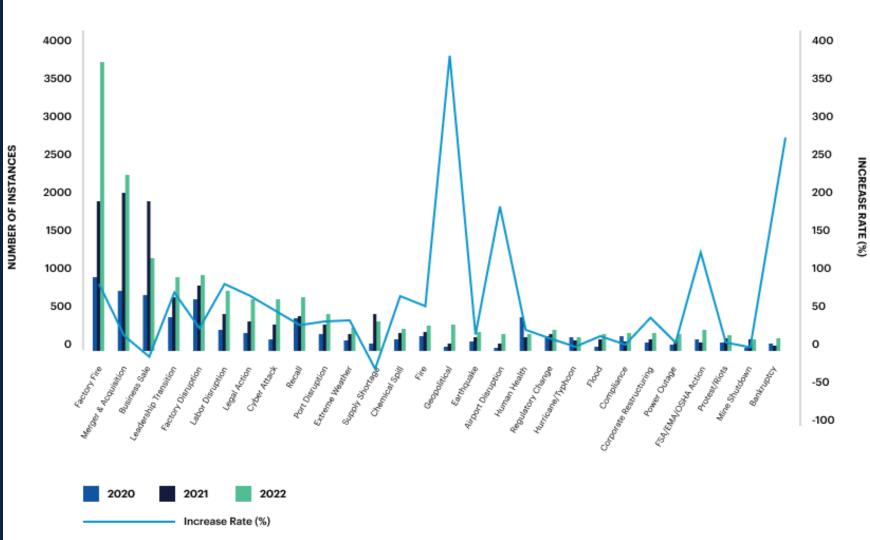
Peter Guinto

President of DOD, Federal, and Government Division

Multiple waves intersecting through the supply chain ecosystem

- COVID-19: Still disrupting global supply chains
- Russia/Ukraine War
- Shanghai factory and port shutdowns
- Extreme and widespread demand shifts
- Dozens of large factory fires
- Commodity shortages
- Logistics / Transportation Risk
- Forced Labor Act/ESG regulations
- Price increases and inflation
- Labor movement and shortages (across the skills spectrum)
- High incidence of factory fires, chemical leaks due to shortcuts in safety measures during pandemic lockdowns

EventWatch^{AI} News (By Risk Area)



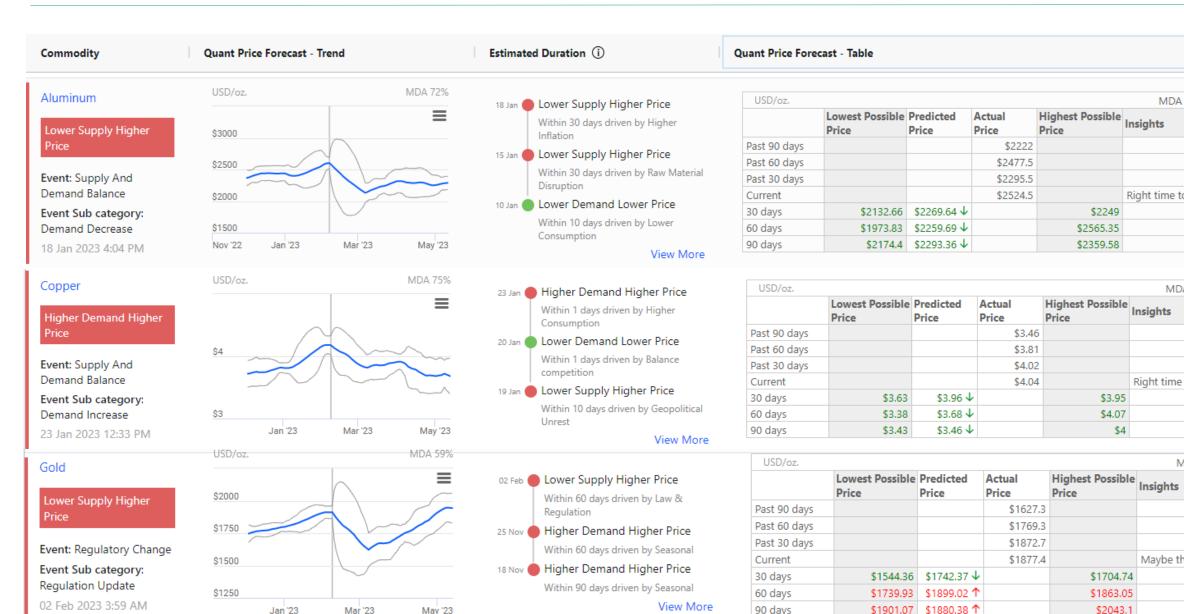


Commodity Volatility

Jan '23

Mar '23

May '23



90 days

MDA 72%

Right time to w...

MDA 75%

Right time to w...

MDA 59%

Maybe the right...

\$4.07

\$4

Challenges across the Semiconductor industry

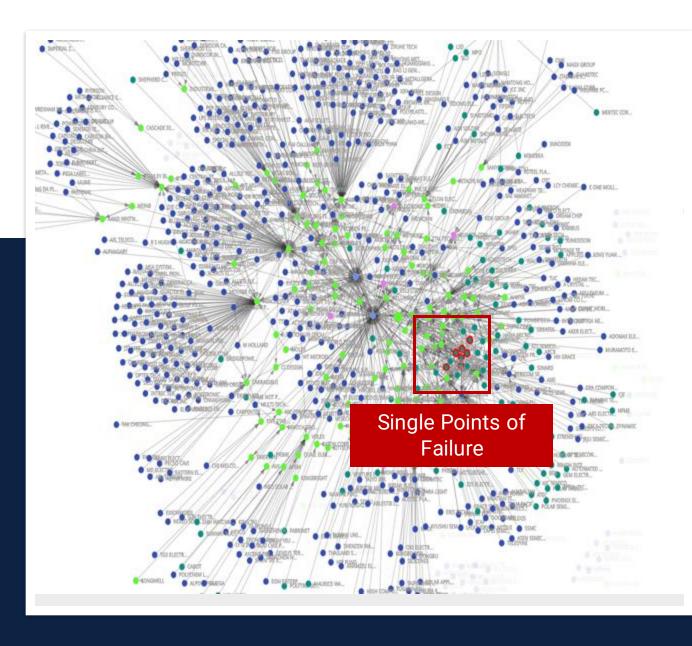
Reliance on semiconductors across applications – 90% of daily life is connected by devices

Cost (\$Bs) and delay (2-3yrs) to add capacity

Moore's Law – next gen manufacturing every 3 years

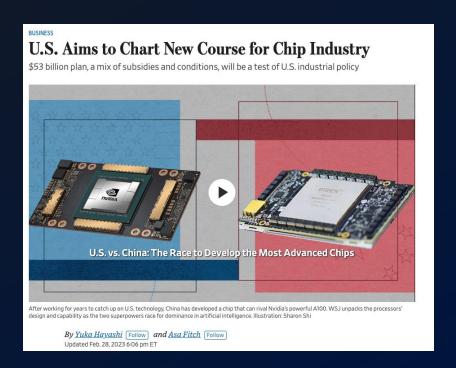
95%+ wafer fab capacity utilization, little upside flexibility

Small number of players in the wafer fab & equipment supply chain









Inflation Reduction Act Tamps Down on Prescription Drug Price Increases Above Inflation

UK car sales rise by a quarter as industry recovers from chip shortage

Registrations hit 74,400 in seventh successive month of growth, with electric cars accounting for 16.5%

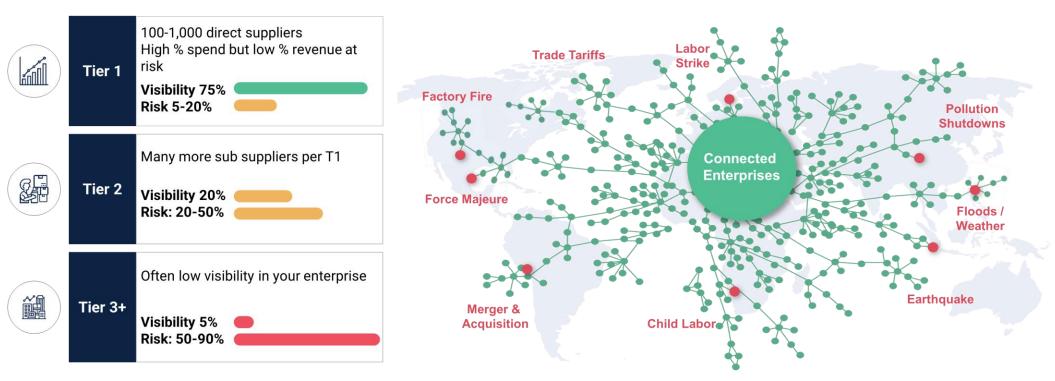
2 minute read · March 13, 2023 10:38 PM EDT · Last Updated 2 days ago

Japan, Canada in talks over collaboration in battery metals supply chain

Reuters

Supply Chain Visibility is Imperative

Many failure points and disruptions affect the entire supply chain network

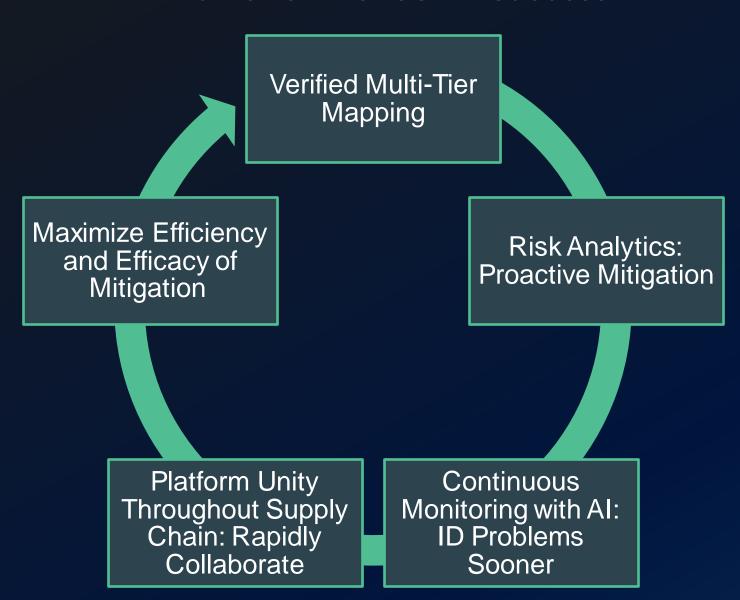


Global Supply Chain Risk increased 87% in 2021 → Enterprises can't afford to stay reactive

A **2021 McKinsey survey** revealed that only 2% of companies had some visibility beyond the second tier of their supply chains.



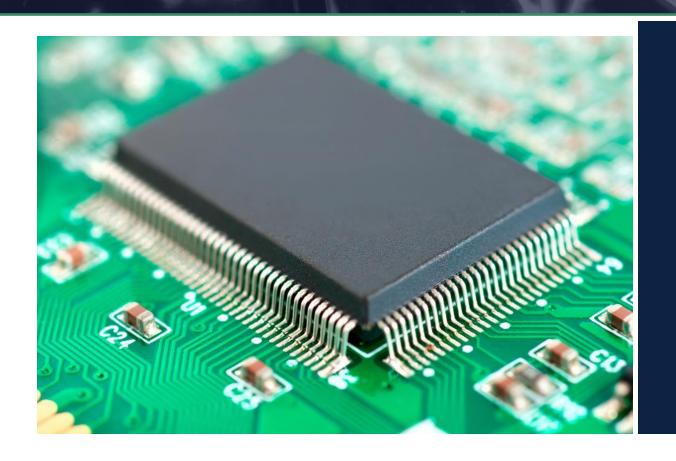
A Framework For SCRM Success





Lessons from the Trenches

Navigating the Pandemic with no Supply Chain Disruptions



650 suppliers mapped, down to tier 2 Location knowledge of **7,500 parts**

15 minutes to isolate which suppliers were impacted

12 months of supplies shipped prior to shutdown

100% On Time Delivery achieved despite disruptions



Outcome Example - Semiconductor Coolant

(perfluoroalkyl and polyfluoroalkyl substances (PFAS))

Fourth Update: Major Impact to Semiconductor Manufacturers Expected Amid the Closure of the 3M Plant in Zwijndrecht, Belgium

Apr 5, 2022



Third Update: 3M Coolant Plant to Face Disruptions in Zwijndrecht, Belgium

Apr 1, 2022





Second Update: 3M Plant Remains Partially Idle After PFAS Regulations Tighten in Zwijndrecht, Belgium

Mar 16, 2022





Update: 3M Temporarily Shuts Production in Zwijndrecht, Belgium

Oct 29, 2021





3M Faces Possible Shutdown for Pollution in Zwijndrecht Belgium

Solvay – 2nd Largest Supplier and Resin Supplier to DoD Alerts Customers of Price Increase and Schedule Delays

Ideal Time to Act

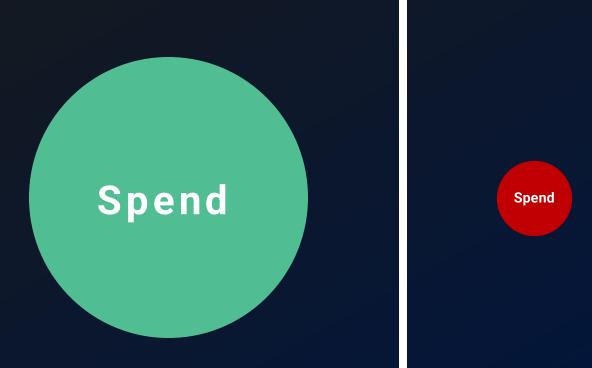








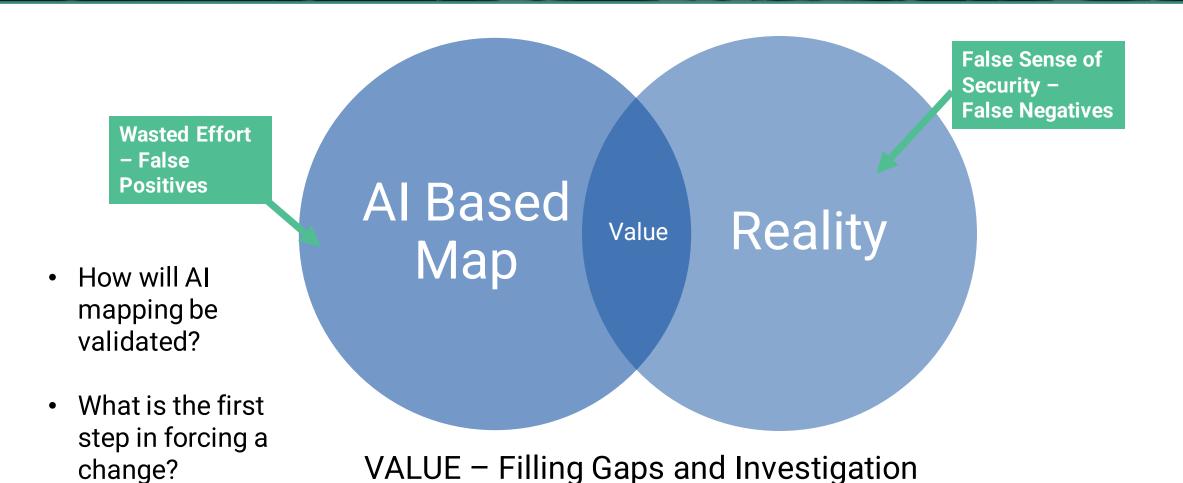
Expand Our Focus







Mapping Supply Chains with Al Alone is Unwise



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MAP

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SHARE

PROTECT AND

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MAKE INFORMED CHOICES

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Looking forward



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