



Supply Chain Orchestration

with SAP Business AI



Tackling supply chain challenges needs a different approach

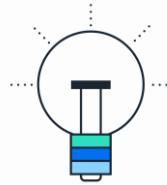
“The reality is that **global supply chains** have become so **complex** and are both generating and receiving bewildering amounts of data that the human brain can no longer keep up. “

Simon Ellis, Group Vice President IDC
US Manufacturing Insights,
US Energy Insights and Global Supply Chain Strategies

Tackling supply chain challenges needs a different approach



Global disruptions have cascading effects, impacting suppliers, manufacturers, and distributors worldwide



Decision-making requires accurate and timely information



Balancing economic viability and goals requires coordinated efforts and accurate measurements of performance

Supply Chain Orchestration and its foundation



SAP Supply Chain Orchestration

Sense

What is happening?



Assess

What is the impact?



Orchestrate

How to respond?

Turning Data to Knowledge

SAP Business Data Cloud
Pre-built data products and insight
apps powered by SAP SCM
applications

Enterprise Data

SAP Business Network Data
End-to-end network intelligence
through N-tier visibility and
inference-driven insights

Network Data

1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 1
1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 1 1 0 1 1 0 0 0 1

Business Network Collaboration Suite
Procurement | Supply Chain | Asset | Logistics

Design

Plan

Manufacture

Deliver

Operate

SAPS/4HANA Cloud

Non-SAP
Applications
(e.g. Risk Data)

Supply Chain Orchestration

Turn disruptions into decisions and coordinated actions. Trace potential risks, impacts, and dependencies across the entire supply chain network.

Network-Wide Supply Chain Insights

Leverage real-time data from the managed and unmanaged supply chain to make sure every supply chain decision is guided by accurate, in-the-moment insights.

Supply Chain Applications

Link the entire supply chain together through a highly connected Business Suite.

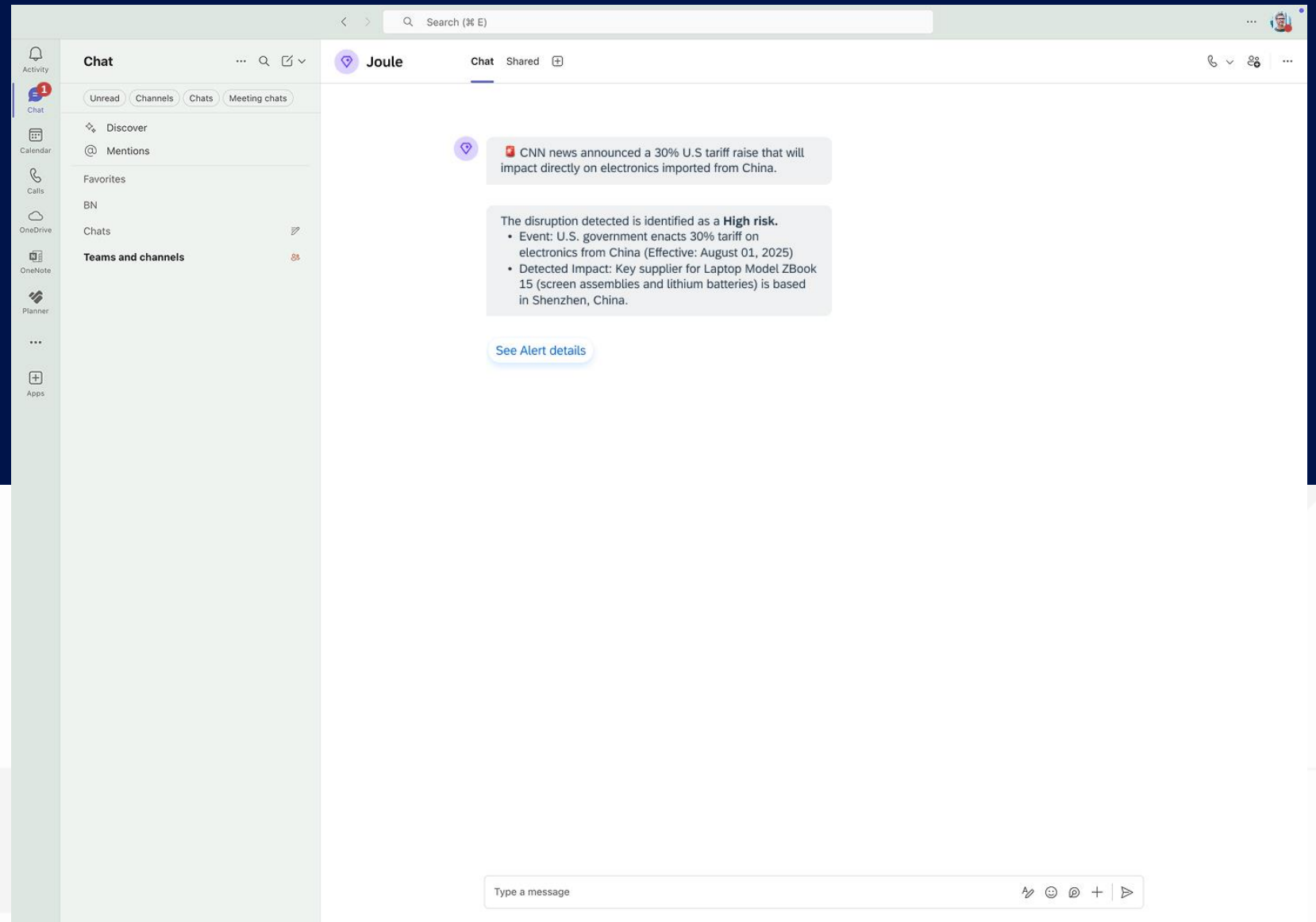
Supply Chain Orchestration **vision**

The background of the slide features a photograph of a modern building at night, with its lights reflecting on the glass facade. Overlaid on this image is a large, semi-transparent geometric shape composed of several overlapping rectangles and triangles in shades of purple and pink. The text 'Supply Chain Orchestration' is written in a white, sans-serif font, and the word 'vision' is in a bold, white, sans-serif font.

Notification

Feature Highlights

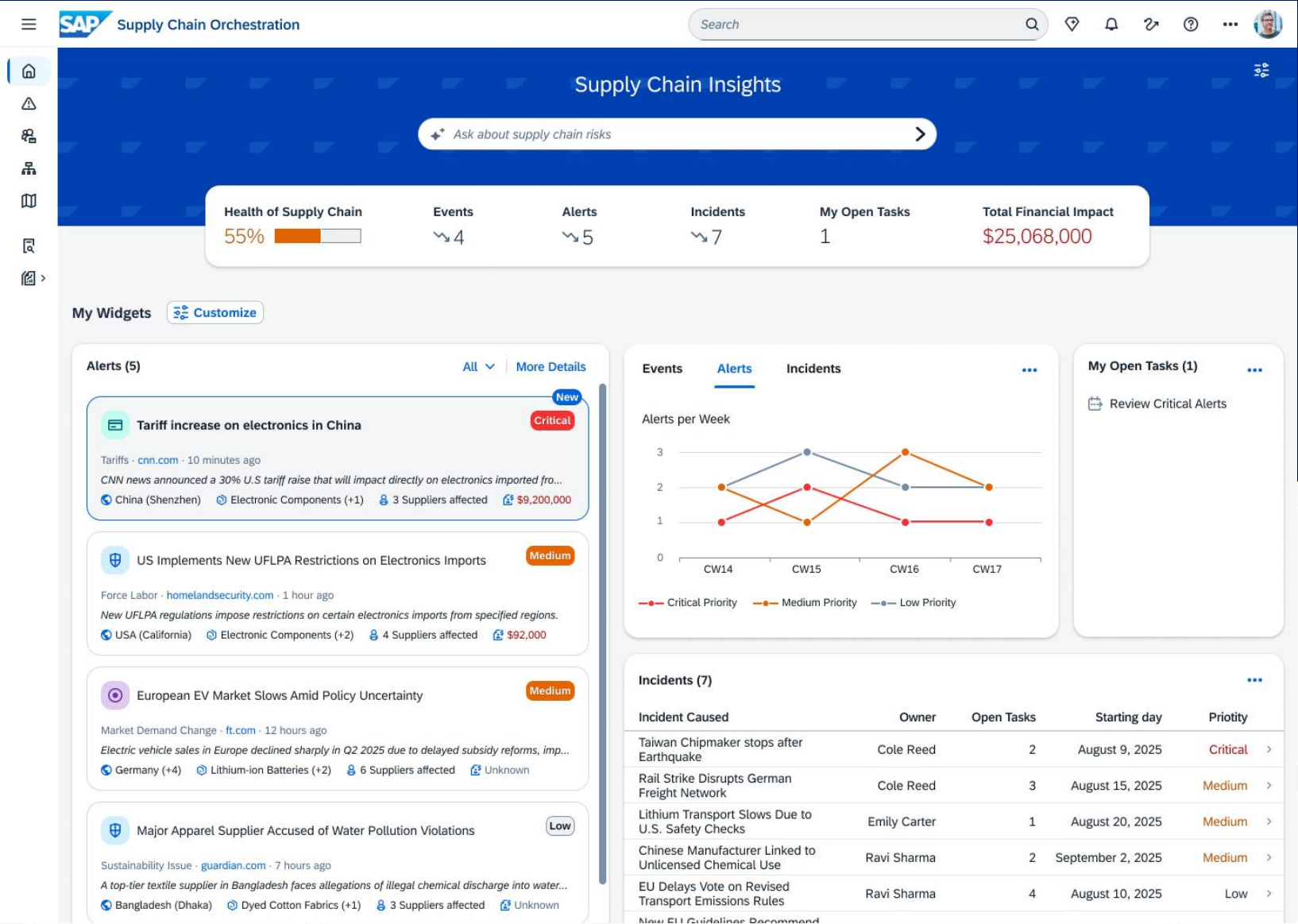
- ✓ User Notification in Collaboration Tools
- ✓ Instant Contextualization
- ✓ Automated Risk Classification



Home Screen

Feature Highlights

- ✓ Unified Dashboard
- ✓ AI-Based Prioritization
- ✓ Cross-Source Alerting
- ✓ Embedded KPIs



Contextualized Alerts

Feature Highlights

- ✓ Auto-Generated Summary
- ✓ Impact KPIs
- ✓ Supplier-Level Traceability
- ✓ Business-Critical Classification

SAP Supply Chain Orchestration

Search

Risk Management / Tariff increase on electronics in China / Alert Detail

Create incident

Mark as no impact

Risk Type Tariffs

Owner Cole Reed

Impact starting day August 1, 2025

Status New

Priority Critical

Financial Impact \$25,068,000

Country/Region Shenzhen, China

Source CNN

ID: 58994

Alert Details

Impact Analysis

Alert Details

Summary by Joule

U.S. President Daniel Tump's government has enacted a sudden 30% tariff increase on electronics and battery-related components imported from China, effective in August 01, 2025. This policy is part of a broader trade realignment targeting high-tech imports. **Affect:** The change is expected to cause immediate cost spikes across core sub-assemblies critical to manufacturing the laptop Model ZBook 15 based in Shenzhen, China.

Source CNN News

Impact on KPIs

18%
Unit cost

+ 120 USD
Retail Price

10-15%
Demand Impact

Impact Analysis

Impacted Suppliers (3)

Search

See Graph

☐	Order no.	Supplier Name	Tier	Country/Region	Contact Person	Purchase Orders	Cost	Price change
	Processor							
☐	5400000074	VoltEdge Solutions	1	China	Liang Wei	14	\$4,823,500	+ 43%
☐	5400000074	NextCell Energy	2	China	Chen Meilin	8	\$6,974,300	+37%
	Main Logic Board Assembly							
☐	5400000074	B-Ready	2	China	Zhao Junhao	5	\$2,115,600	+31%
	Battery Pack							
☐	5400000074	ShunYao	1	China	Zhao Junhao	4	\$7,563,900	+37%
	Display Panel							
☐	5400000074	ShunYao	1	China	Zhao Junhao	2	\$3,590,700	+30%

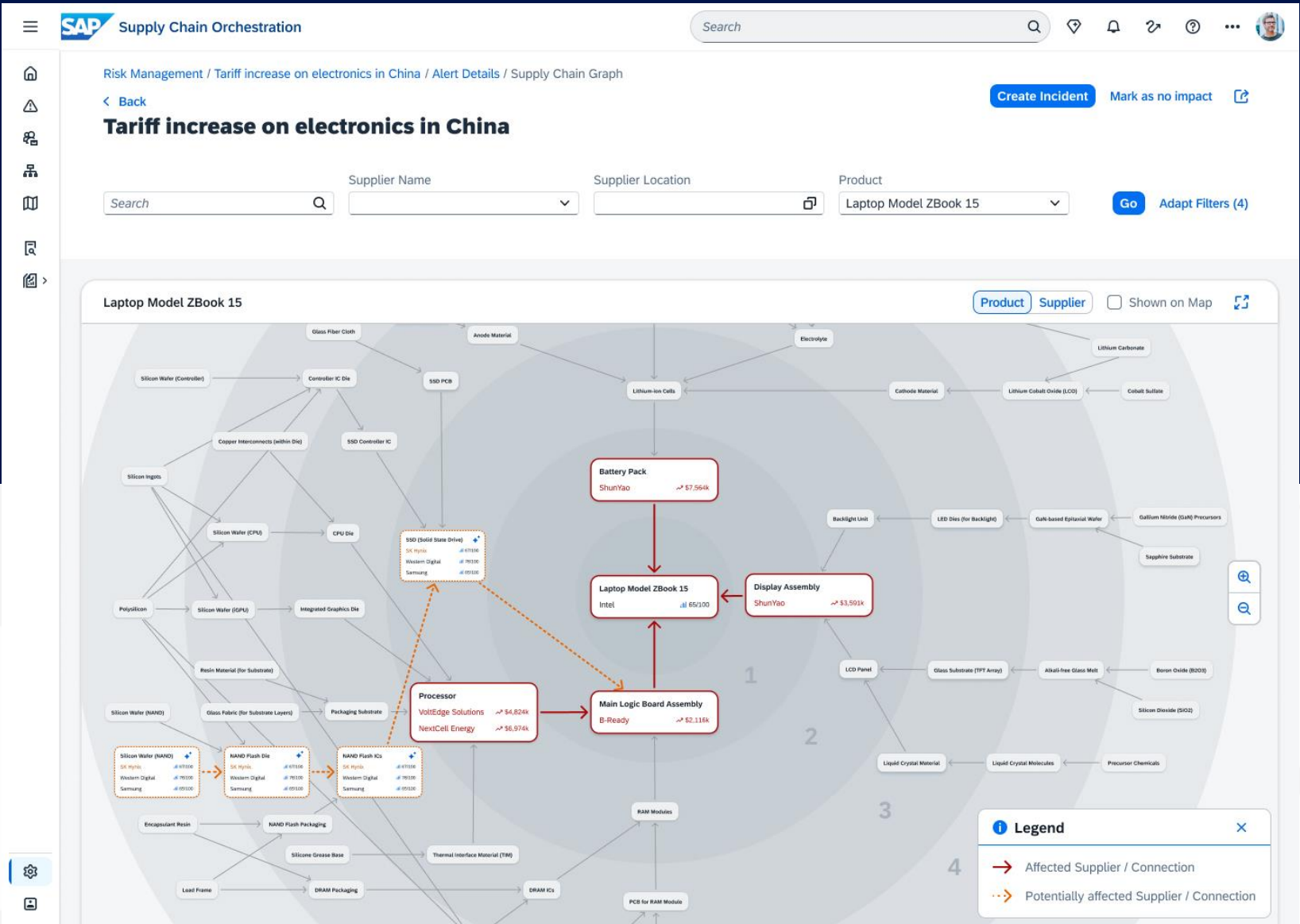
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Knowledge Graph

Feature Highlights

- ✓ Supply Chain Knowledge Graph (Managed & Unmanaged Tiers)
- ✓ Multi-Tier Visibility
- ✓ Interactive Exploration (Search & Filter)



Incident Management

Feature Highlights

- ✓ Create Incidents
- ✓ Auto-Filled Stakeholders
- ✓ Playbook-Driven Actions

The screenshot displays the SAP Supply Chain Orchestration interface. A 'Create Incident' modal is open, showing the following details:

- ID:** 3331286
- Name:** Tariff increase on electronics in China - Mitigation
- Related to Risk:** RISKID-58994
- Priority Level:** Critical
- Affected Suppliers:** VoltEdge Solutions, NextCell Energy, B-Ready
- Affected Products:** Processor (CPU), Main Logic Board Assembly
- Affected Internal Departments:**
 - Procurement** – Lena Groß (lena.groß@abcinternational.com)
 - Logistics** – Jaylen Madu (jaylen.madu@abcinternational.com)
 - Finance** – Aiko Tanberg (a.tanberg@abcinternational.com)
- Description:**
 - Procurement:** Launch Request for Quote (RFQ) to alternative suppliers (e.g., Vietnam or Mexico)
 - Logistics:** Simulate expedited shipping options vs. standard to rebalance inventory quickly
 - Finance:** Auto-generate revised margin forecasts, cash flow impact assessments, and potential write-down scenarios
- Due Date:** August 1, 2025

The background shows a supply chain map for 'Laptop Model ZBook 15' with various components like Processor (CPU), Main Logic Board Assembly, and Battery Panel. A sidebar on the right displays KPIs: '+120 USD' for Retail Price and '10-15%' for Demand Impact. At the bottom right, a user profile for 'John Doe' (Product Manager) is visible.

Incident Management

Feature Highlights

- ✓ Automated Task Generation
- ✓ Cross-Department Assignment
- ✓ Status Management

SAP

Supply Chain Orchestration

Search

Risk Management / Tariff increase on electronics in China / Mitigation & Activities

Tariff increase on electronics in China

Close Incident

See Graph

Risk Type Tariffs

Country/Region Shenzhen, China

Source CNN

ID: 58994

Affected Products: Processor, Main Logic Board Assembly, Battery Pack, Display Panel

Incident ID: 3331286

Owner Cole Reed

Impact starting day August 1, 2025

Status In progress

Priority Critical

Financial Impact \$25,068,000

Alert Details

Impact Analysis

Collaboration

Tasks (4)

Send request

Edit

Delete

View Mode

List

Kanban

☐	Name	Description	Main contact	Due Date	Action
	Procurement				
☐	Tracking supplier act	Contact affected supplier	Lena Groß	7/11/2025	Accept Delete
☐	Alternatives	Identify alternate for affected components' suppliers	Lena Groß	7/11/2025	Accept Delete
	Logistics				
☐	Simulation	Compare shipping options with demand inventory	Jaylen Madu	7/11/2025	Accept Delete
	Finance				
☐	Simulation	Model cost increase and margin threshold impact	Aiko Tanberg	7/11/2025	Accept Delete

Incident ID 3331286 created

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Scenario Modeling

Feature Highlights

- ✓ Scenario Simulation
- ✓ Outcome-Based Metrics
- ✓ System-Guided Decision Making
- ✓ One-Click Execution

SAP Supply Chain Orchestration

Search

Risk Management / Tariff increase on electronics in China / Mitigation & Activities

Tariff increase on electronics in China

Handle Incident

Risk Type Tariffs

Country/Region Shenzhen, China

Source CNN

ID: 58994

Affected Products: Processor, Main Logic Board Assembly, Battery Pack, Display Panel

Incident ID: 3331286

Owner Cole Reed

Impact starting day August 1, 2025

Status In progress

Priority Critical

Financial Impact \$25,068,000

Alert Details

Impact Analysis

Collaboration

Scenario Modeling

Scenario Modeling

Choose a scenario with which you would like to continue your mitigation. Joule will then create tasks for each department based on the chosen scenario.

Factor	Scenario 1: Alternate Supplier	Scenario 2: Absorb Costs	Scenario 3: Pass Cost	Create New Scenario
Action Taken	Switch to Vietnam-based supplier	Keep price stable, absorb cost	Raise end-user price by \$120	
Cost Impact	+8%	+30%	0	
Demand Impact	0	0	-12%	
Units sold	250,000	250,000	220,000	
Margin Impact	19.8% -1%	8.9% -4%	19.4% 0%	
Gross Profit	\$49.50M	\$22.25M	\$48.18M	
Revenue	\$249.75	\$249.75M	\$248.38M	
Lead Time Impact	+8 weeks	No change	No change	
Operational Complexity	High	Low	Low	
Customer Perception	Neutral	Neutral/positive	Negative	
Supply Chain Risk	Reduced dependency on China	Still dependent on China	Still dependent on China	
Key Risks	Lead time, onboarding risk	Margin erosion, cash flow pressure	Demand drop, competitiveness	
	Choose Scenario 1	Choose Scenario 2	Choose Scenario 3	

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Feature Highlights

- ✓ Dynamic Task Creation
- ✓ Functional Breakdown
- ✓ Real-Time Status Tracking

- ✓ Dynamic Task Creation
- ✓ Functional Breakdown
- ✓ Real-Time Status Tracking

SAP Supply Chain Orchestration

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Risk Management / Tariff increase on electronics in China / Mitigation & Activities

Tariff increase on electronics in China

Risk Type Tariffs
Country/Region Shenzhen, China
Source CNN
ID: 58994
Affected Products: Processor, Main Logic Board Assembly, Battery Pack, Display Panel
Incident ID: 3331286

Handle Incident

Owner	Impact starting day	Status	Priority	Financial Impact
Cole Reed	August 1, 2025	In progress	Critical	\$25,068,000

Alert Details |
 Impact Analysis |
 Collaboration |
 Scenario Modeling |
 Tasks

★ The selected strategy: Alternate Supplier, will be able to cover the demand impact and the unit costs KPIs. Nevertheless it will increase the cost by 8%, still keeping the market competitive.
 The new tasks reflects the strategy mitigation.

Confirm Return to Strategy Comparison page

Tasks (8) Accept All Edit Delete View Mode List Kanban ⚙️ ↗️

☐	Name	Description	AI Score	Assignee	Ticket	Last Modified	Status
▼	Procurement						
☐	Tracking supplier act	Contact affected supplier	★ 87%	Lena Groß	TAF-6842	7/11/2025	Not started
☐	Alternatives	Identify 3 alternate processor/ logic board assembly suppliers	★ 91%	Lena Groß	TAF-6843	7/11/2025	Not started
☐	★ Cost comparison	Benchmark unit price of top 3 alternative suppliers	★ 82%	Lena Groß	TAF-6843	7/11/2025	Accept Reject
▼	Logistics						
☐	Simulation	Compare shipping options with demand inventory	★ 82%	Jaylen Madu	TAF-6844	7/11/2025	Not started
☐	★ Warehousing	Evaluate short-term warehousing near assembly sites	★ 77%	Jaylen Madu	TAF-6844	7/11/2025	Accept Reject
▼	Finance						
☐	Simulation	Run pricing simulation	★ 85%	Aiko Tanberg	TAF-6845	7/11/2025	Not started
☐	★ Margin impact	Analyze gross margin drop by product line	★ 81%	Aiko Tanberg	TAF-6845	7/11/2025	Accept Reject
☐	★ Scenario modeling	Build 3 financial scenarios (best, base, worst case)	★ 78%	Jaylen Madu	TAF-6845	7/11/2025	Accept Reject

Playbook

Feature Highlights

- ✓ Mitigation Outcome Summary
- ✓ KPI Success Confirmation
- ✓ Process Learning Loop

SAP

Supply Chain Orchestration

Search

Risk Management / Tariff increase on electronics in China / Mitigation & Activities

Tariff increase on electronics in China

Save Playbook

Download Report

Re-simulate Strategy

Risk Type Tariffs

Country/Region Shenzhen, China

Source CNN

ID: 58994

Affected Products: Processor, Main Logic Board Assembly, Battery Pack, Display Panel

Incident ID: 3331286

Status timeline bar: Alert Received >>> Strategy Decided >>> Tasks Launched >>> Completed

Alert Details

Impact Analysis

Scenario Modeling

Tasks

Playbook

Incident Summary

Critical

U.S. government has enacted a sudden 30% tariff increase on electronics and battery-related components imported from China, effective in 14 days from the announcement date. This policy is part of a broader trade realignment targeting high-tech imports.

Affect: The change was expected to cause immediate cost spikes across core sub-assemblies critical to manufacturing the laptop Model ZBook 15 based in Shenzhen, China.

Source: CNN News

Affected product: Model ZBook 15

Financial Exposure: 25,068,000 USD

Impact on KPIs

+120 USD

18%

10-15%

Retail Price

Unit cost

Demand Impact

Affected Suppliers

T1

Risk Mitigation Playbook - Chap 3

Margin impact: 19.8%

Final risk impact: -0.9%

Response Time: 13 business days from alert to resolution

Strategy sequential

1. Impact Analysis

Check the criticality of the impact via N-Tier Graph and view critical suppliers impacted

Understand the risk based on Alert Details :
Learn from the external alert and the impacted suppliers.

Understand the affected suppliers and products :
Check the criticality of the impact via N-Tier Graph and view critical suppliers impacted. [Check N-Tier Graph](#)

2. Create Incident

Declare an incident, and collaborate with internal departments, suppliers and stakeholders.

Identify impacted internal suppliers:
AI agent collaborate with supply chain analyst connecting the affected suppliers and internal departments to investigate their impact and to suggestion mitigation alternatives.

Collaboration:
Procurement – Search and identify 1 new supplier.
Finance –Developed and decided for a retail price that covers costs and keeps competitive.
Logistics – Searched and defined a new shipment option with demand inventory tracked.

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