

Resilient supply chains start with synchronized planning Strategy Overview

David Vallejo, SAP September 2022



Supply Chain Woes Could Worsen as China Imposes New Covid Lockdowns

coronavirus policy could throw a wrench in the global conveyor





factories

Your guide to a disrupted world

Toyota Motor Corp (+ Add to myFT

Toyota to shut down Japanese plants after supplier hit by cyber attack



government backed tougher sanctions against Russia © Yoshikazu Tsuno/Gamma-Rapho/Gett

Eri Sugiura, Leo Lewis and Antoni Slodkowski in Tokyo FEBRUARY 28 2022





Ukraine Stops Neon Production Due to Russian Invasion, Chip Shortage Could Get **Much Worse**

Home > News > Technology

FEATURED autoevolution's EV Month →

13 Mar 2022, 19:47 UTC - by Bogdan Popa

As if the chip shortage wasn't already a nightmare that nobody could accurately anticipate when it could end, there are now concerns that the whole thing might become even worse in the short term.

U.S. warns that co

shortage could sh How Russia's invasion of Ukraine affects 'everything on the supply chain': Analyst

Dani Romero

Frl. March 11, 2022, 3:06 PM · 2 min read

Explained: Why may lead to a sh

NGTON (AP) - The U.S. supply of computer

A key feature in a chip shortage is that creates pent-up demand that becomes

Written by Pranav Mukul , Edited by Explained Desk | New D

Economists and industry experts widely believe supply chain disruptions will continue to affect the U.S. economy as Russia's invasion against Ukraine sent oil prices surging and suggested an unpredictable course for markets in the short term.

"To run everything on the supply chain — unfortunately, so much of it relies on oil," Kona Hague, ED&F Man head of research, said on Yahoo Finance Live (video above), "It's the reason why every time you see oil prices go up by 50%, a U.S. recession typically follows. It's that impactful. It's that entrenched in the economy. And obviously the U.S. clearly is very, very energy dependent ... It will have a reverberating impact across the supply chain."

Volkswagen does not see chip shortage ending this



shortage of semiconductors to end this ear although it should further ease slightly in the second half, a board member was quoted as saving by industry magazine Automobilwoche



TOUS

Supply of semiconductors, which plummeted due to Covid-related had started picking up as manufacturing chains normalised, is no

key raw materials - neon and palladium - that are at a risk of be

American manufacturers are worried that China's zero-tolerance belt for goods this year.









FINANCIAL TIMES

Move comes as governments step up warnings of hacking following Russia's invasion of



Toyota to halt Russia production Friday

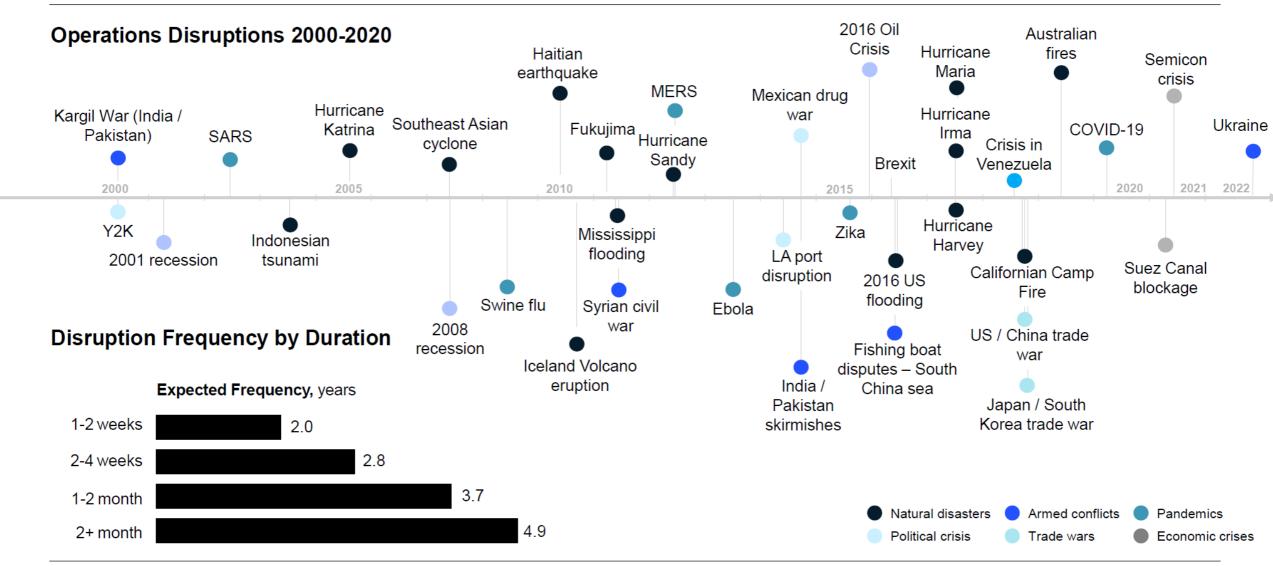
as sanctions cut supply chain

Top automaker joins Honda in stopping exports to the country

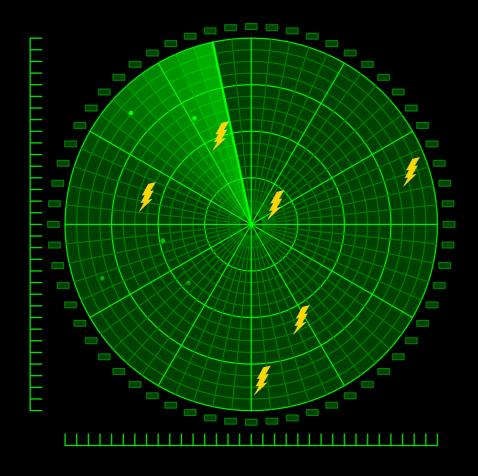
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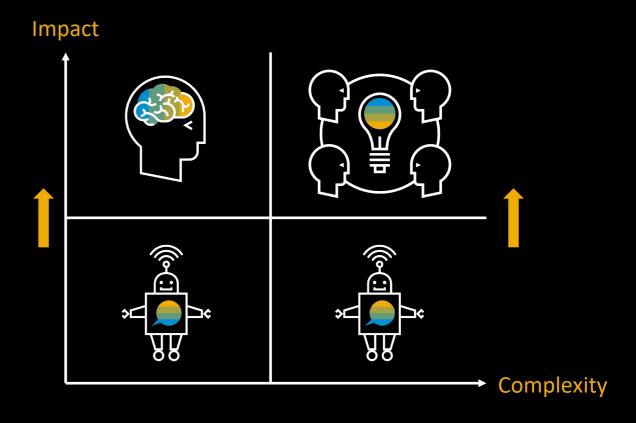
FRANKFURT, Germany -- Toyota Motor will suspend auto production in Russia from Friday as it struggles to source parts from overseas amid sanctions against the country.

How did all of this start Shocks are getting more frequent and severe



Supply Chain Resiliency starts with Planning

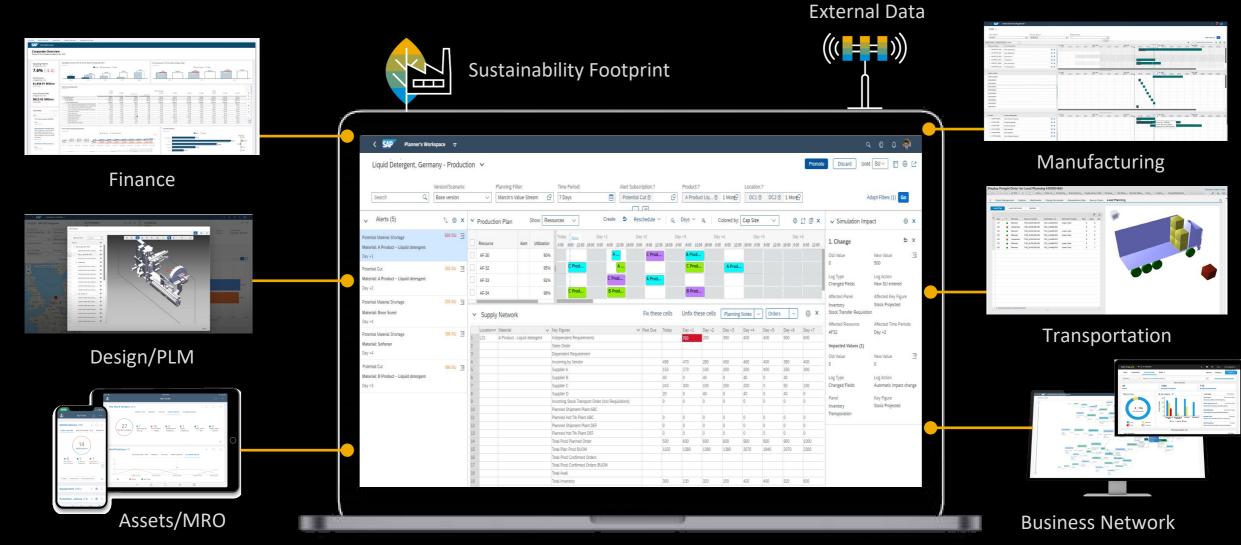






Integrated Business Planning

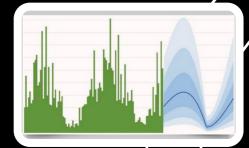






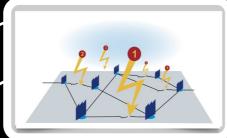


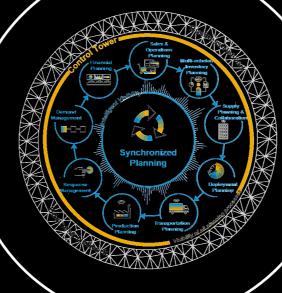
Probability Based Planning



Productivity / Al









True Cloud scalability

Supply Chain Risk





Extensibility

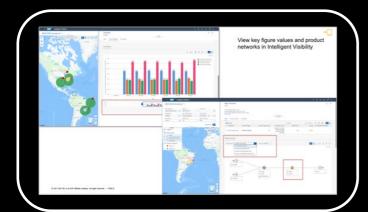




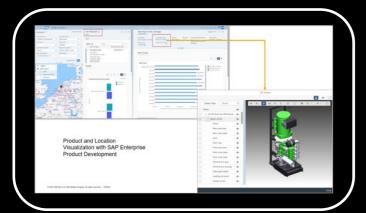
SAP Business Technology Platform

Intelligent Visibility

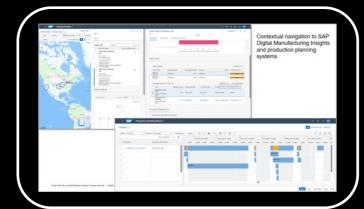
View Your Supply Chain End-to-End – Increase Transparency



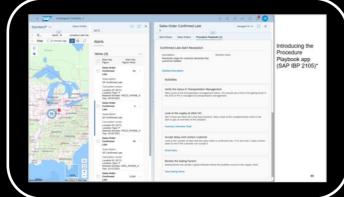
View key figure values and product networks in Intelligent Visibility



Product and Location Visualization with SAP Enterprise Product Development



Contextual navigation to SAP Digital Manufacturing Insights and production planning systems



Introducing the Procedure Playbook app (planned)

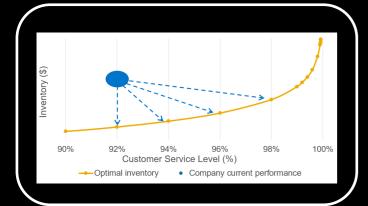


Intelligent Visibility for Upstream and Downstream Products and Locations



Integration of SAP Transportation Management Status (planned)

Probabilistic planning approaches available and planned in SAP IBP



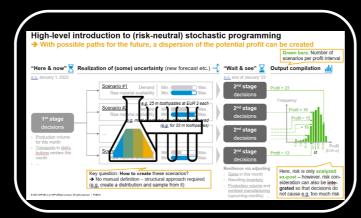
Inventory Optimization



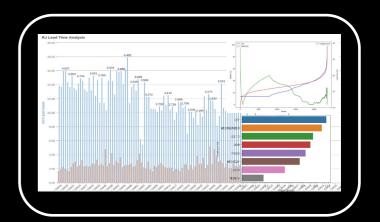
Automated Scenarios



Range Forecasting



Research with Technical University Munich (TUM)



Al Leadtime predictions



Supply Chain Risk

Integrated financial and supply chain planning Extended Planning & Analysis (xP&A)

Seamless planning processes linking finance, supply chain, sales, and marketing

Use Cases:

- Annual Business Planning
- Financial Planning
- Investment Planning
- Revenue Planning
- Cost Center Planning
- Workforce Planning
- Factory Cost Budget Planning
- Product Contribution Margin
- •



Product Direction

- Single User Experience with Embedded SAC Analytics
- Tight integration supporting planned activities and ad-hoc planning tasks
- Reporting without data replication
- Overarching workflow and scenario-based planning across planning LoBs

Provide actionable insights and decision support across planning siloes

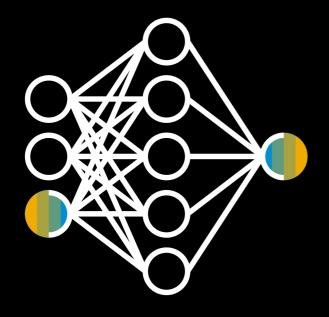
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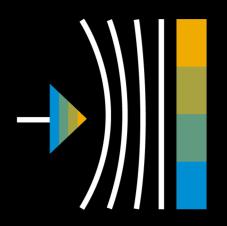
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Modern Supply Chain Planning



Risk Aware



Resilient

kemira

How Can End-to-End Supply Chain Planning Generate Customer Value Through Reliability and Efficiency?

Optimizing planning across 60 manufacturing sites and 200 inventories

Serving businesses in water-intensive sectors such as pulp and paper manufacturing, Kemira Oyj provides chemicals expertise to enhance its customers' product quality, processes, and resource efficiency. Seeking to improve supply chain reliability and efficiency, Kemira wanted to streamline its global planning to better support its team of 500 sales managers across all sales regions. It needed to build end-to-end planning capabilities, enable demand-supply planning across product lines, and eliminate manual processes.





Boosting Efficiency and Reliability with SAP® Integrated

Business Planning for Supply Chain

Before: Challenges and Opportunities

- Serve customers better by aligning the sales need with supply and capacity
- Automate demand planning and better match it with accurate forecasts across 60 manufacturing sites and 200 inventories
- · Eliminate manual processes for supply planning, enabling a faster response to changes in demand

Why SAP

- Proven cloud solution enabling end-to-end supply chain visibility and real-time supply chain management
- · Reduced complexity, replacing multiple legacy systems with a simplified software landscape
- Key part of an overall digitalization strategy supported by multiple SAP® solutions

After: Value-Driven Results

- Improved supply chain performance with real-time planning based on monthly and weekly forecasts, helping the company be highly responsive to customer needs
- Better visibility with a single source of data and an end-to-end view of the supply chain, with detailed reporting on sales and operations
- · Integrated planning for balancing demand and supply in profit-driven decision processes
- · Unified and simplified planning practices, facilitating profitability, cash-flow, and business targets
- · Enhanced customer service with record-high on-time delivery performance and customer ratings

kemira

"SAP Integrated Business Planning for Supply Chain improves forecast accuracy, supports on-time delivery, and allows us to build profit-optimized plans."

Simo Nuutinen, Head of Global Planning, Supply Chain, Kemira Oyj

600

Empowered users making data-driven decisions across the supply chain One

Common platform unifying demand planning across 60 manufacturing sites and 200 inventories



Thank you.

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