Rapid response to the COVID-19 crisis

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KEARNEY



Making your supply chain more resilient Matching Demand & Supply in 2nd half 2020

In collaboration with WEF, our team has surveyed and interviewed nearly 400 senior executives across multiple regions and industries.

Over 80% of survey respondents indicate that **COVID-19** has significantly disrupted supply chain operations



12%

Supply-side

4%

High

82%

8

9

10

14%

Demand-side

9%

Selected survey statistics

- **Employee care is top priority** (e.g. provision of PPE or mental health advice)
- Supporting suppliers and customers feature heavily in initial responses
- **99%** supporting national efforts to deal with the impact of COVID-19 on society
- **44%** adapting distribution methods to _ ensure supply chain continuity
- 47% indicate need to overhaul manufacturing and supply network to increase future resilience
- **40%** will place greater future focus on risk management
- **20%** of companies exploring permanent work from home solutions

Operations leaders have a clear perspective on how supply chain setups must be changed to make them more resilient

What additional actions do you expect to take in the medium term to increase supply chain resilience?





Operations Leader Survey n=369 "We will definitely look at further **shortening** and having **less complex** supply chains. However a certain regional spread is required to ensure resilience"

VP Supply Chain Strategy, Industrial company

Complexity reduction

"I plan to further deleverage our **risk of single source** suppliers. It is extra effort and extra costs, but certainly it is worth having multiple suppliers qualified"

47%

Head of Procurement, Healthcare company



"One of the lessons learned is the importance of **operating shorter**, **regional supply chains** oriented closer to the point of demand."

VP Global Supply Chain Operations, Industrial company



The pandemic exposed vulnerabilities in the supply chain, leading to a heightened call to action from the Csuite to prepare for future shocks and turbulences

Non-Exhaustive



Pandemic

Supply / Geography: shifts, export restrictions, supplier failures

Manufacturing: raw material shortages

Natural Disaster

T&L: transport disruptions **Manufacturing:** shortages, equipment failures, power outages

Trade War

Supply / Geography: material cost increase, supply uncertainties



Economic Boom

T&L: transport disruptions, employee shortages/strikes

Manufacturing: supply shortages, lost sales opportunities

Economic Crash

Supply: supplier bankruptcy

Planning: customer bankruptcy

Political Unrest or Conflict

Supply: materials shortage, cost fluctuations T&L: transport disruptions

Business leaders see five key areas to pivot supply chains from cost to risk competitiveness.

Kearney's Resilience

business across 8

options for CxO's in

allocating capital and

Stress TestSM evaluates

dimensions that identifies

Dominant COVID-19 response themes across the value chain



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transformation

COVID-19 will change our ways of working which makes changes to the operating model inevitable.

Key considerations for future operating models



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Demand side risk mitigation must involve constantly monitoring and responding to changes in customer demand, consumer behavior and evolving external trends





Supply side risk mitigation must focus on contract manufacturers, global supplier base and inventory across the supply chain

Supply Side Risk and Mitigation



We listen to data from thousands of suppliers and customers to sense risks that harm your business continuity.

Target identification

List down your key / TOP suppliers, information channels, and customers



Article extraction

Identify COVID related articles involving your targets across 1000s of digital publications / sources

FINANCIAL TIMES Les Echos Mc CNBC



Natural language processing

3

Unstructured to structured Feature engineering Entity Extraction Sentiment extraction using NLP tools



Sentiment analytics engine

Theme based segmentation

Segmentation technique is used to obtain theme cluster insights (operations, supply, financial health, technology, etc.)



Showcase user friendly dashboard

Showcase high level insights

- Supplier Summary
- Sentiments based on themes
- In house analytics
- AI based impactful mentions



Output: Early Warning Cockpit



Our proven workflow links state-of-the art data management, advanced analytics, and visualization.

Available tools allows to make faster and better planning decisions in production and logistics, provide analytical capabilities to define the optimal value chain.

Optimization workflow

Data management

Connect data sources

match data quality and

Build baseline for model

validation and benefit cases

model needs

(ERP) & manual data inputs

Clean and process data to





Analytics model

Formulate goals, degrees of freedoms, and restrictions of optimization

Customize model based on business needs

Initialize and run large-scale models (millions variables/constraints) with leading-edge commercial or custom solvers





Output visualization

Create **intuitive visualizations** to explore highly granular model outputs for baseline and benefit validation

Conduct **"What if" analyses** to assess model sensitivities

Use detailed model reporting to **assess benefit cases** and scope initiatives

+ableau

Power Bl

Others...

Qlik Q

Optano, O9 Solutions, Logility, Others...

Thank you

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