

# Here with you today



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# Macro trends shaping supply chains

Corporate supply chains have started responding to six major macro trends, affecting both supply and demand side dynamics across industries

### **Urban & aging society**

- **68%** of world's population will live in cities by 2050 (+13% vs. today)
- Share of population aged 65+ will grow by 7% until 2050

#### **Protectionism**

- Global export restrictions jumped from below 50 in 2019 to above 250 in 2020
- Global direct investments declined by more than 25% since 2017

### Instant, customized & digital consumption

- More than 40% of consumers would pay extra for same day delivery
- 87% of shoppers begin product searches on digital channels



### Increasing disruptions and volatility

- Companies are expected to lose >40% of a year's profit every decade on average
- Market imbalance in Covid aftermath (e.g. rates +50-400%, transit times +50%)

### Sustainability

- 85% have shifted towards more sustainable purchase behavior in the past 5 years
- Two-thirds of consumers would pay an extra
   10% or more for sustainable products

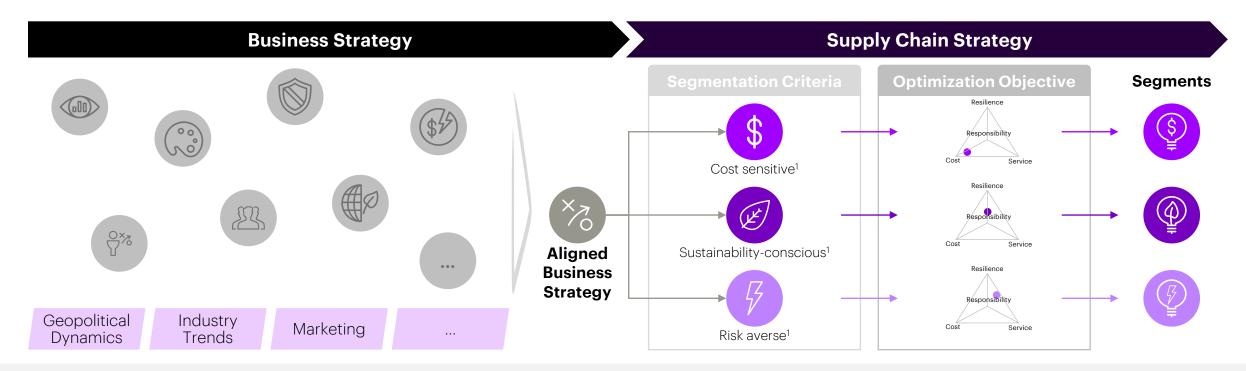
### **Shifting power towards East**

- Asia will nearly double its share of global GDP up to 52% by 2050
- Focus shift from export to domestic markets (60% of total trade in 2019 stayed in region)



# Supply chain design framework (I/II)

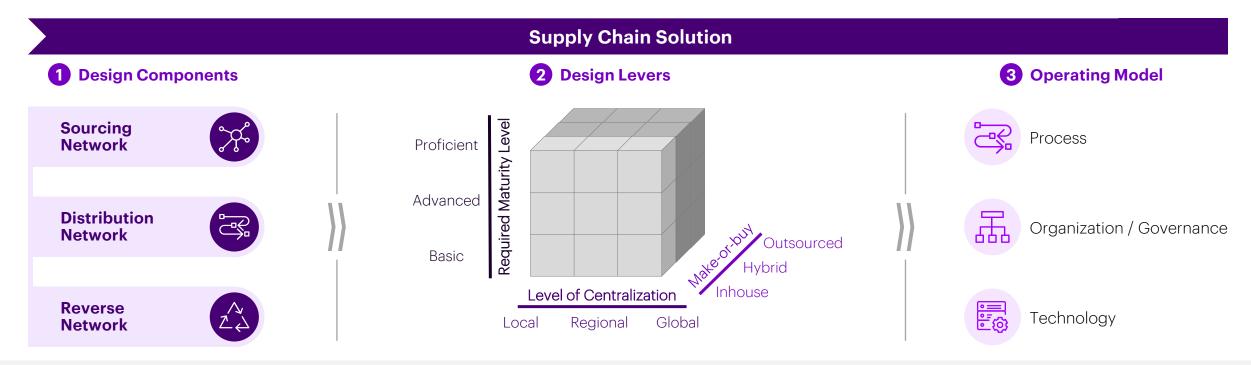
Managers must consider holistic trade-offs within a pyramid of cost, service, resilience, and responsibility – we have developed a supply chain design framework to guide crucial strategic and design decisions using an iterative model



- A combination of internal and external drivers determine the organization's strategic priorities and thereby, its high-level business strategies
- External drivers include geopolitical dynamics and industry or consumer trends, or more generally, different kinds of macro trends
- Internal drivers like company values and norms, often shaped by historic growth play an important role in shaping business strategies
- Supply chain is expected to contribute to the business strategy As a first step, a **segmentation of the value chain** is required
- Segmentation characteristics are **depending on industry and business model** (e.g demand volatility, customer requirements, product complexity)
- Optimization objective will shift from classic continuum of cost and service to a pyramid of cost, service, resilience and responsibility

# Supply chain design framework (II/II)

To create a flexible supply chain, a thorough design per segment has to-be conducted, focusing on the strategic setup of sourcing network, distribution network, and reverse network before the to-be operating model is defined



- To optimize the performance, for each identified supply chain segment and its respective optimization objective(s), sourcing approach, distribution and reverse network need to-be determined (Design Components)
- As part of that, the three key design components need to-be defined in terms of required maturity level, desired level of centralization and make-or-buy (Design Levers)
- After the strategic setup is established using the design levers, the design components can be further refined and developed by focusing on the dimensions of process, governance, and technology (Operating Model)

# Supply chain toolbox (I/II)

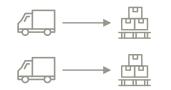
Future supply chains are forced to operate under increased uncertainty & societal responsibility, reconsidering or redesigning key elements is crucial to shape the right foundation for efficient and responsible operations

### **Dimension**

### From ...

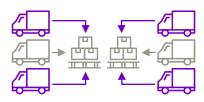
### Sourcing Approach

**Limited sourcing flexibility driven by cost-focused optimization**objectives (E.g., scale effects), often via **single sourcing** approaches.



### To ...

Higher volatility of supply and growing frequency of disruptions should result in stronger focus on multi-sourcing approaches.



# **Supply Chain Optimization**

**Cost and service** are currently the key dimensions for supply chain related decisions.



Future SC strategies should include resilience and responsibility as key optimization dimensions.



### **Supply Network Structure**

Primarily global-for-global produced in Asia shipped to small number of entry points and subsequent triangular distribution across continents.



Increased shift towards local-forlocal networks (incl. manufacturing) to increase supply chain resilience and reduce exposure to global disruptions.



## **Supply Chain Organization**

Fragmented and local supply chain responsibility across business units & functions.



Integrated and more centralized supply chain responsibility across business units & functions.





# Supply chain toolbox (II/II)

This also implies shifts for certain foundational operating model elements like functional management, reporting structures or technology foundation

#### **Dimension**

Partnerships /
Externalization of
Work

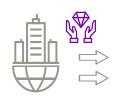
### From ...

Focus on **outsourcing** of **transactional activities** at **lowest possible cost.** 

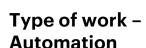




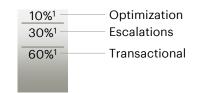
Focus on partnerships for collaboration of higher value / sophisticated activities.



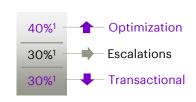




A majority of the current supply chain workforce has a clear focus on transactional tasks, with only a fraction focusing on optimization.

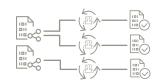


Future supply chains will gain in complexity and thus require a workforce which is **stronger focused on optimization** as opposed to transactional tasks.

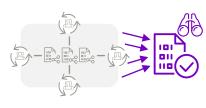


# Data & Technology

Basic requirements are present in most organizations, but **limited** visibility & data silos hinder crossfunctional planning & optimization.

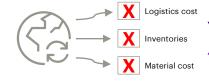


Full exploitation of data wealth and affordable IT solutions to establish visibility & plan and optimize across multiple supply chain echelons.



### **KPI Redefinition**

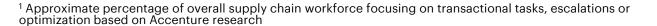
Based on the current focus on **cost optimization** and **lean operations**, **current KPIs are not fit** to account for the current **global challenges**.



Organizations need to assess how macro-economic trends impact their supply chain and redefine their metrics and KPIs based on these insights.







# Thank you

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