

Global Reshoring & Footprint Strategy

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- 3 Business and Supply Chain Strategy**
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1 Profile BCI Global



Corporate clients

- Manufacturing footprint strategy
- Supply chain optimization
- Location advice
- Business strategy development
- Strategic outsourcing
- Real estate strategy and projects

Profile

- Established in Nijmegen, the Netherlands in 1985
- Performed studies in more than 50 countries worldwide



Clients in High Tech, ICT & Electronics



Clients in Medtech & BioPharma



Clients producing Industrial Products



Clients in the Automotive Industry



Clients in Chemicals, Materials & Energy



Clients in Food & Beverages Industries



Clients in Fashion and Apparel



Clients in Logistics



Footprint Strategy: Global or Regional?

Key Drivers

Internal	Business growth
	Margin pressures
	Product phase in/out
	M&A activities
Industry	New competitors
	New mfg technologies
	Customer requirements
	Sustainability
External	Market shifts
	Geopolitics
	New labor pools
	Regulatory changes
	Natural disasters

Key Challenges

Labor quality and availability
COGS/Total Cost to Serve
Agility/Flexibility
Uncertainty/Risk Mitigation
Carbon Footprint

Typical Trade-Offs

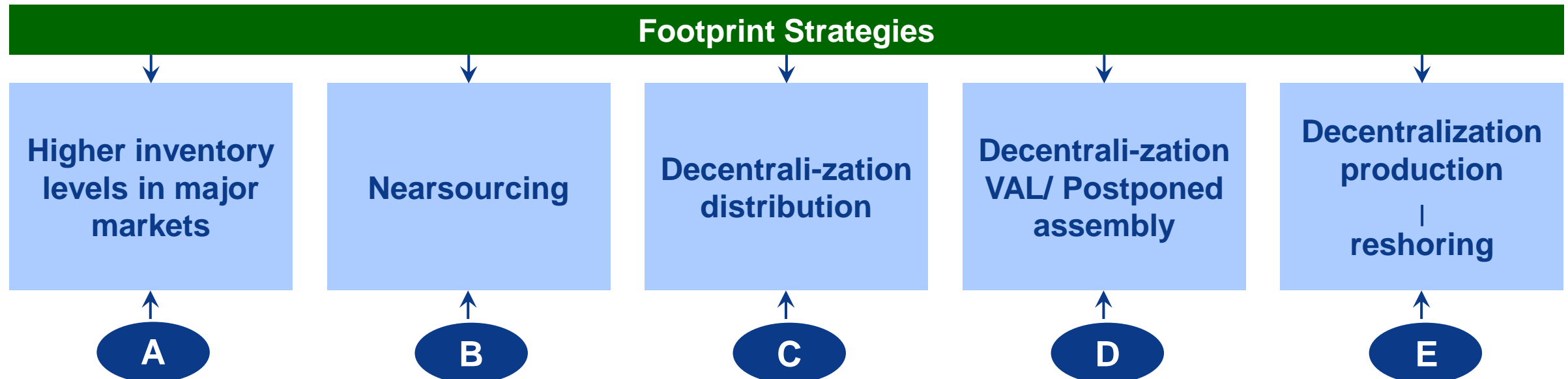
Relocate or Automate
Economies of Scale versus Customer proximity
Make or Buy
Sustainable Footprint or Not
Expand at current or relocate to new low-cost location
Cost vs Quality vs Risk

Source: BCI

Companies follow the DE-strategy

- 1 De-coupling China – US/Europe links
- 2 De-risking supply chains
- 3 De-single sourcing
- 4 De-centralizing production
- 5 De-carbonization

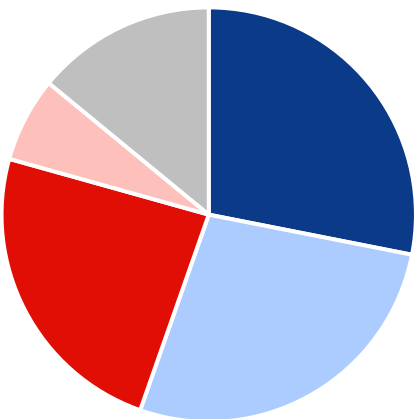
Five Footprint Strategies



2 The Participating Companies

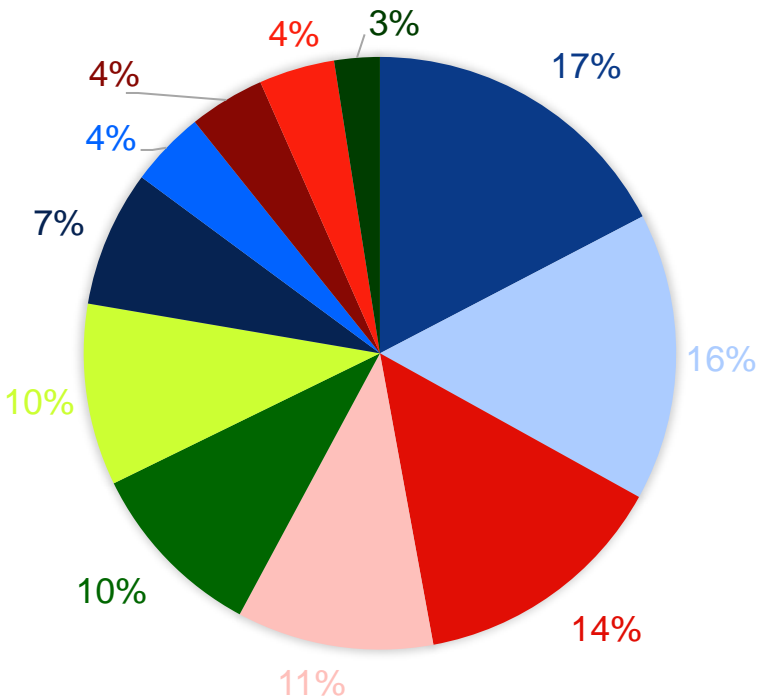
Respondents' position within the company

125



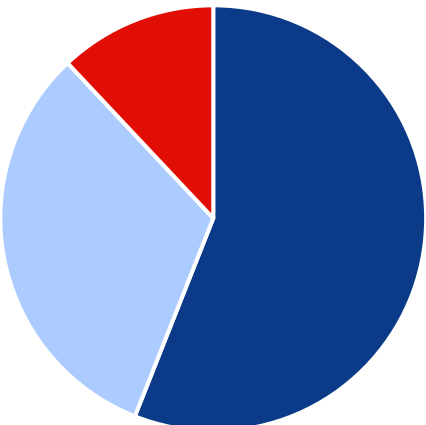
- Vice President Supply Chain
- Supply Chain Director
- C-level Supply Chain Executive / Chief Supply Chain Officer
- Supply Chain Manager / Consultant / Analyst
- Other

Sectors of Industry



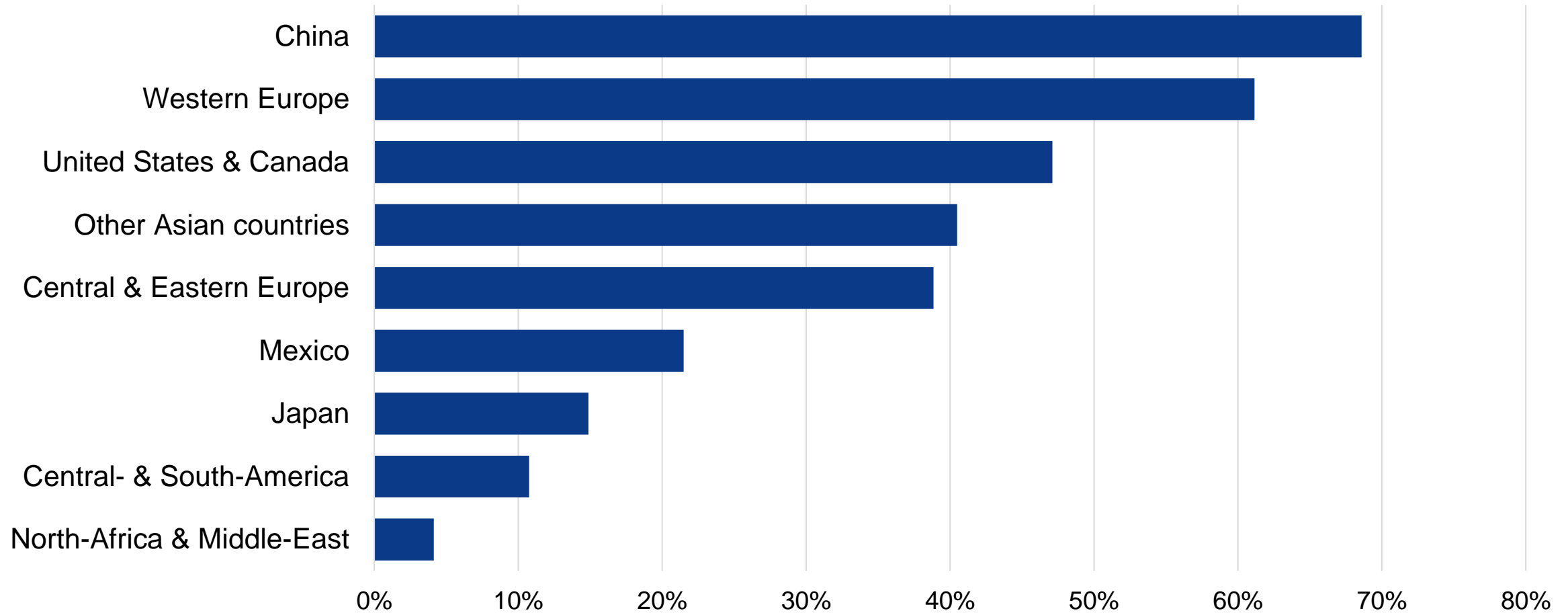
- Farma & medtech
- Machines & automotive
- Consumer packaged goods
- Retail & e-commerce
- Chemicals & plastics
- Hightech & elektronics
- Agrifood & bio-industry
- Fashion & interior
- IT & telecom
- Technical wholesale & (building) materials
- Others

Country of Origin



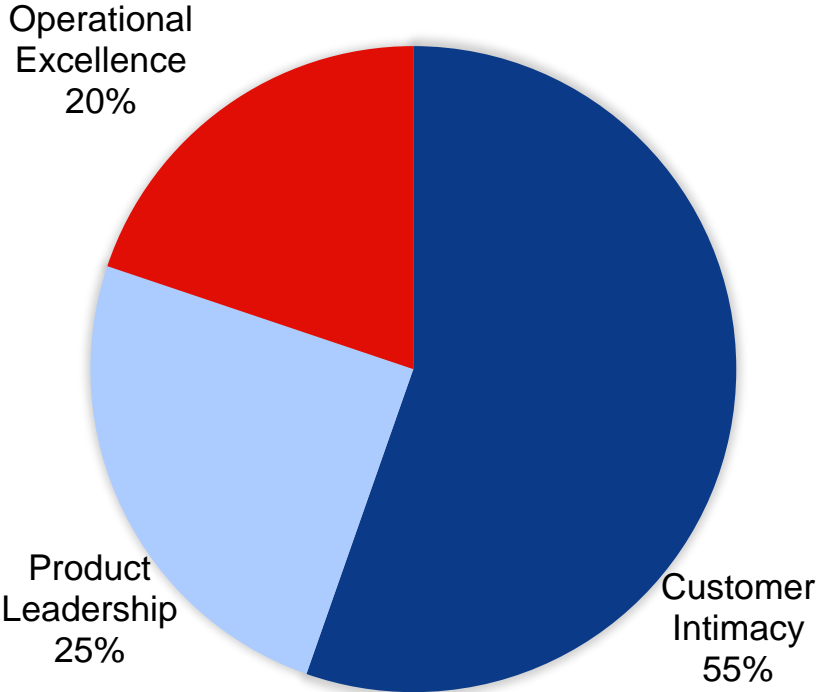
- Europe
- North America
- Other

Today's key sourcing/manufacturing geographies

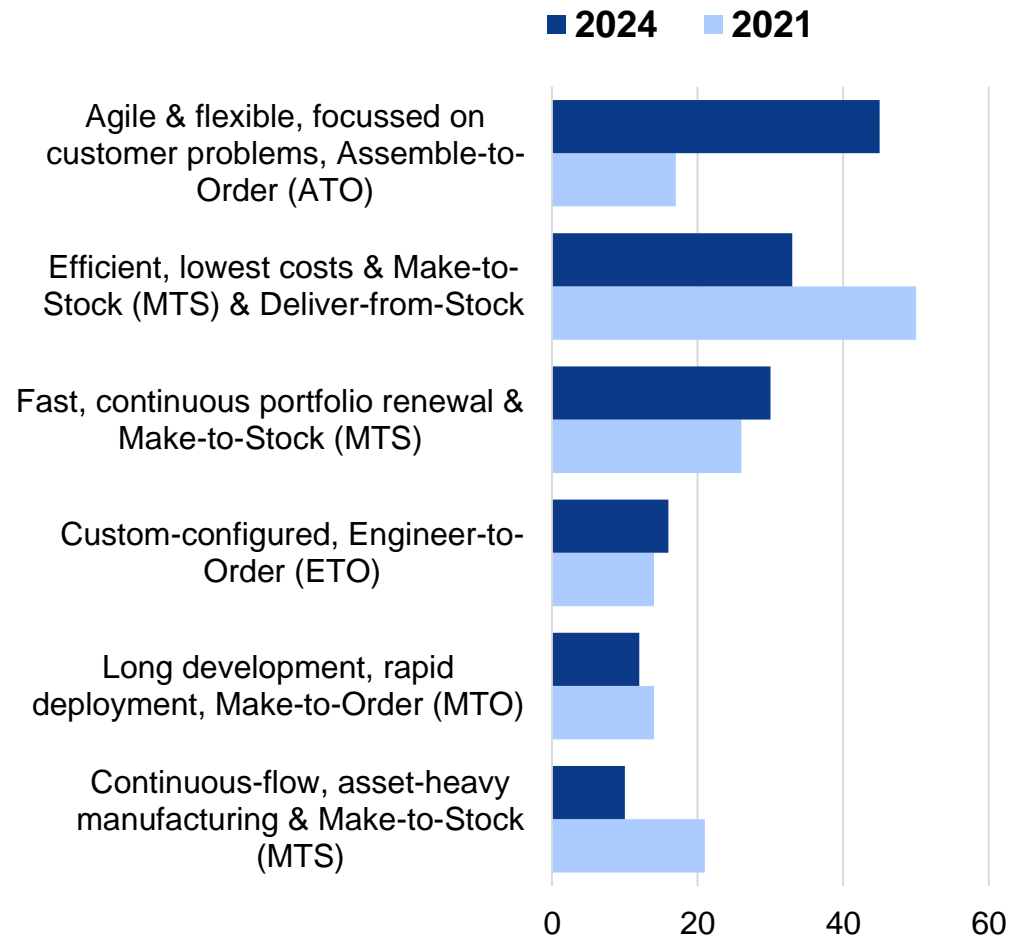


3 Business and Supply Chain Strategy

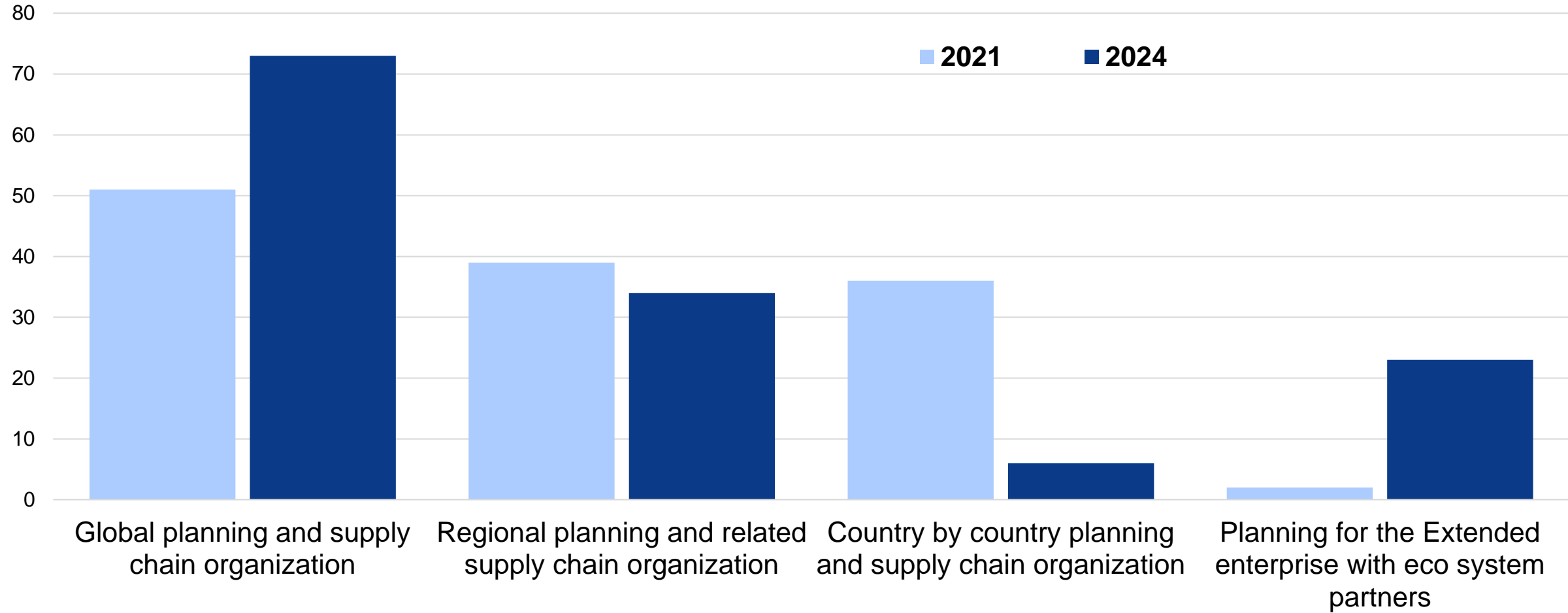
Business strategy



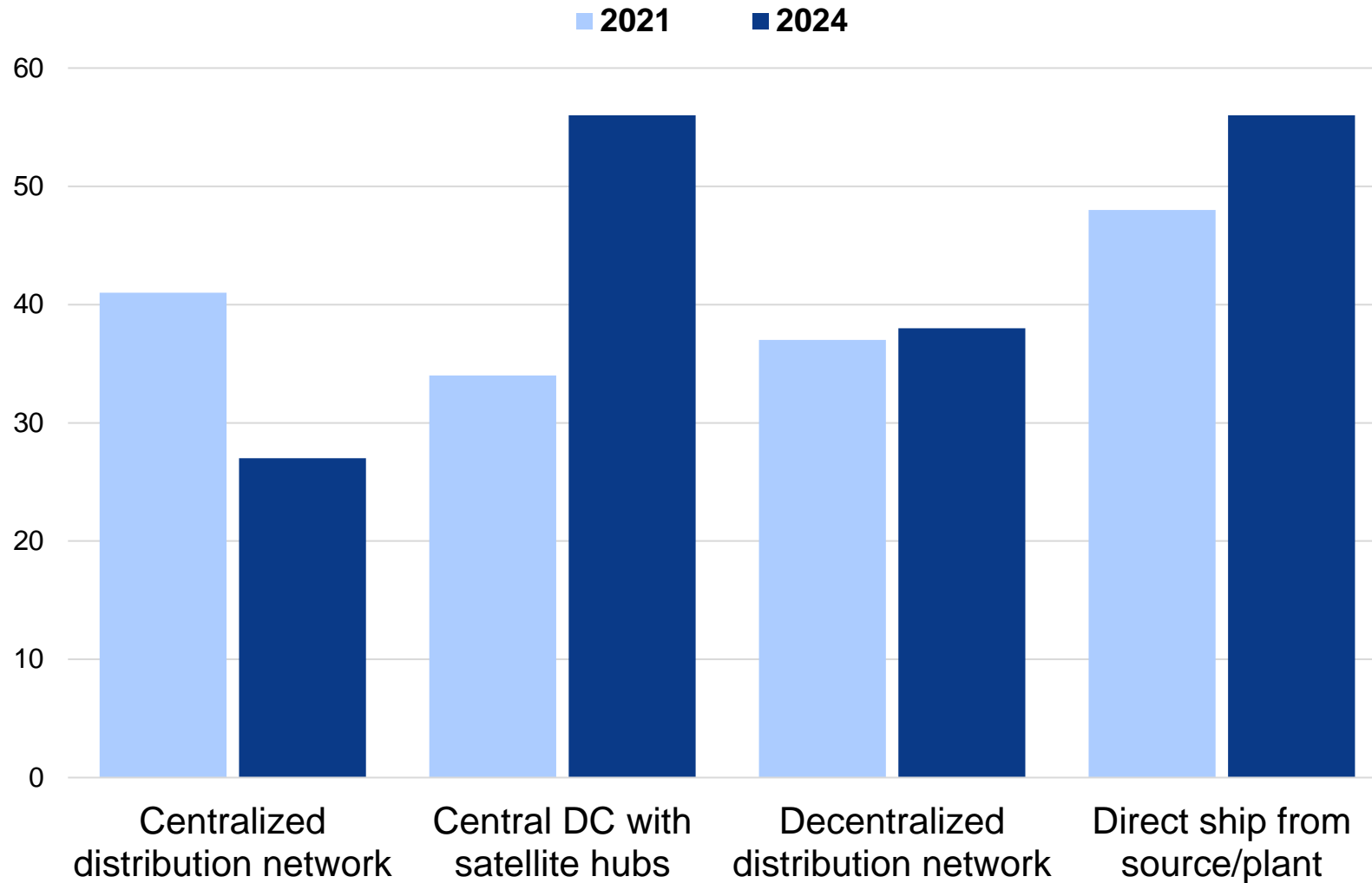
Supply Chain strategy



Planning and Supply Chain Organization: Shift towards global governance and managing the extended enterprise



Downstream footprint: Segmented downstream footprint with less adoption of the centralized model but rather a decentralized model and drop ship capability



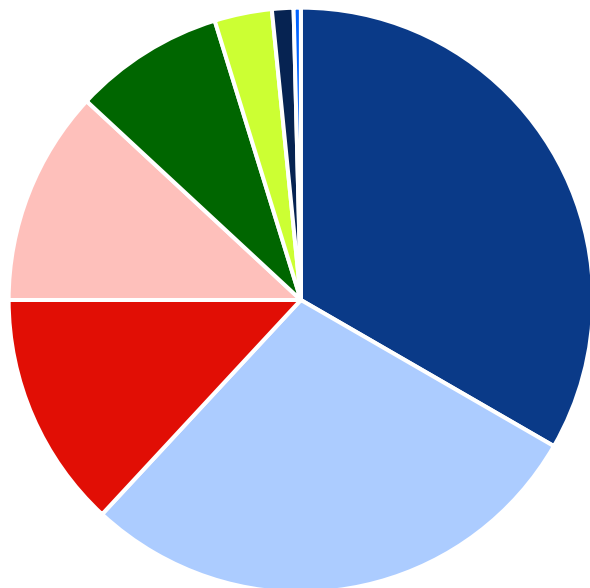
Businesses try to mitigate supply chain risk by decentralizing their demand-side footprint

Key supply chain challenges today



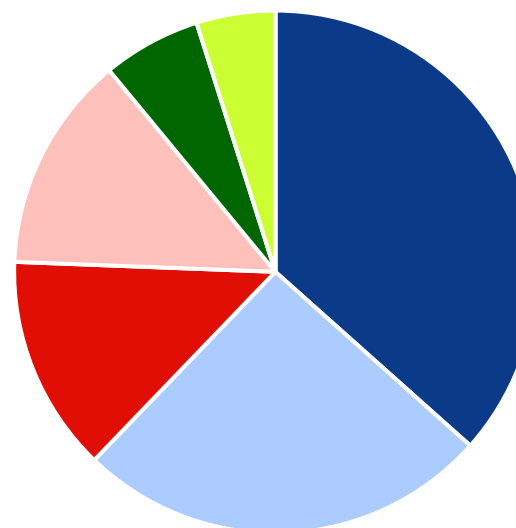
Key supply chain challenges: Europe vs North America

Overall

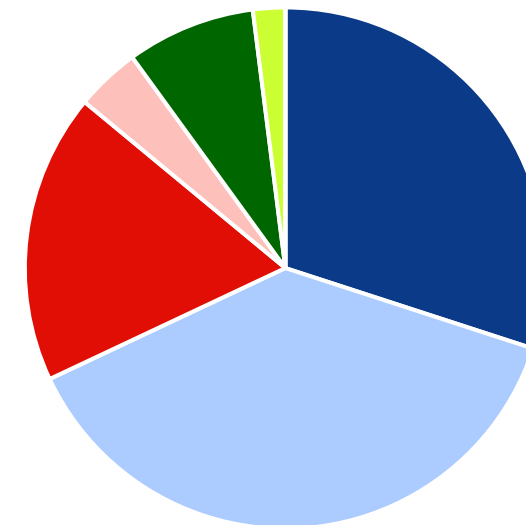


- Shortage of components/commodities/raw materials
- Transport capacity and reliability
- Labor and talent shortage
- Price increase/inflation
- Lead time to market
- Growth of alternative sales models (i.e. online)
- Customs and import duties
- IP /currency and financials risk

Europe

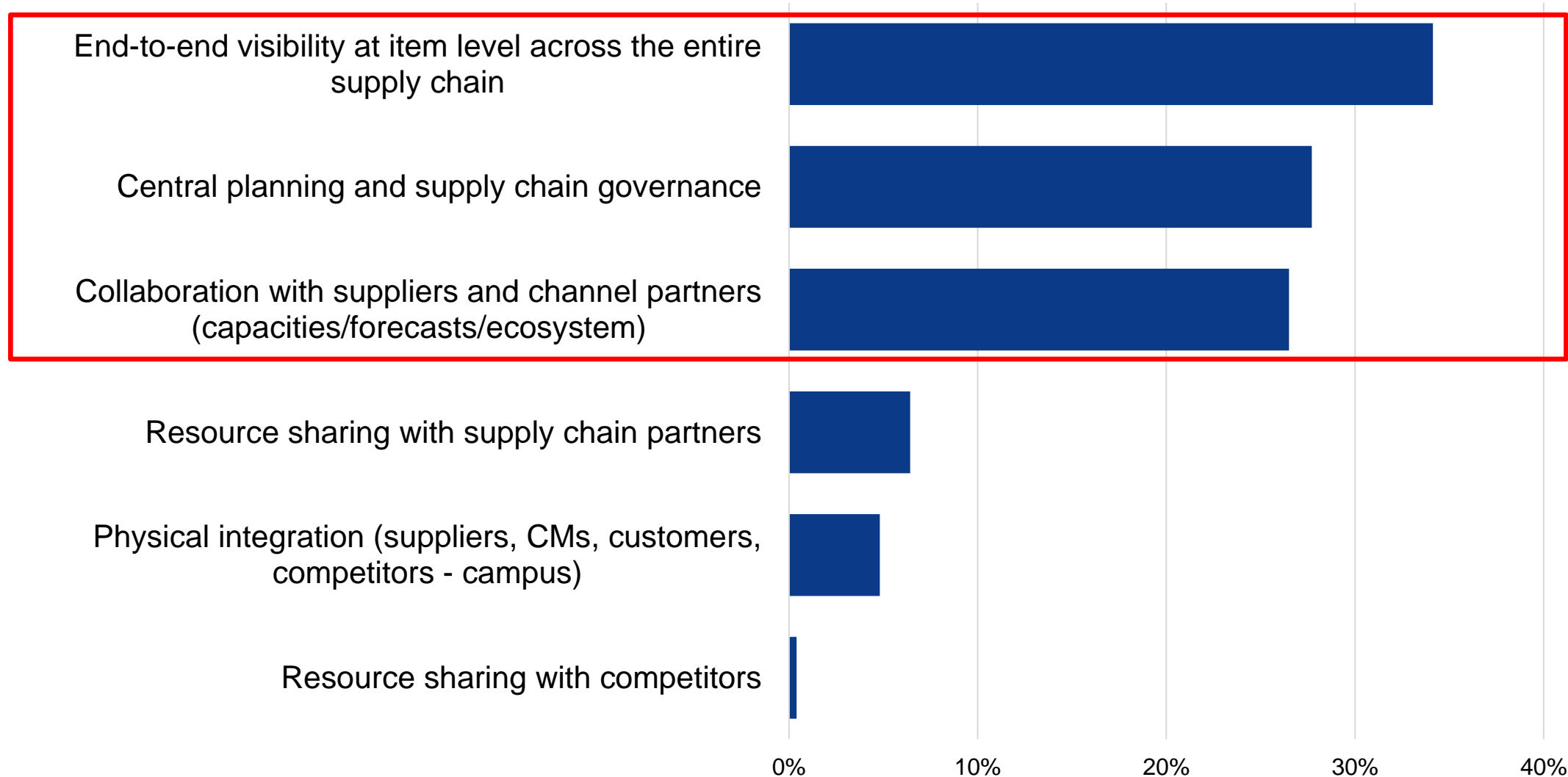


North America



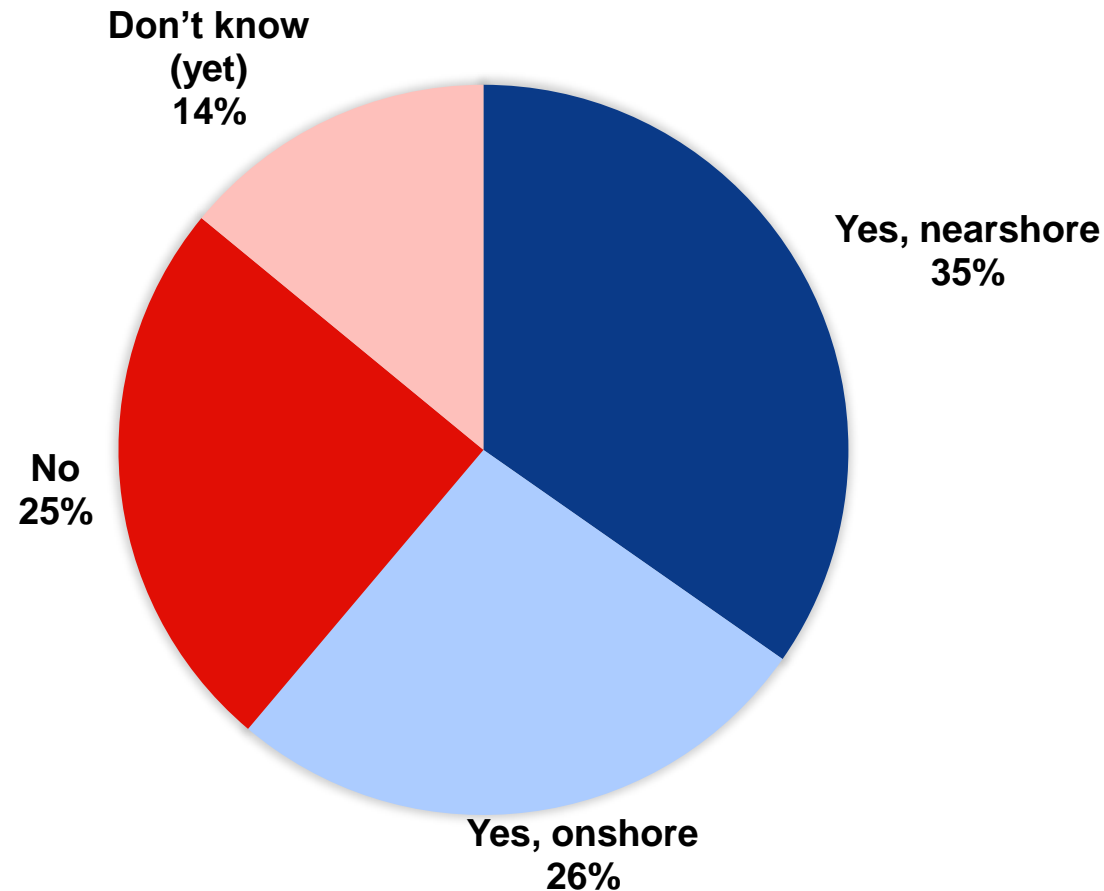
North American businesses report transport capacity and reliability as their biggest challenge, whereas overall the shortage of components, commodities and raw materials stand out

In which capabilities do companies expect to invest in?

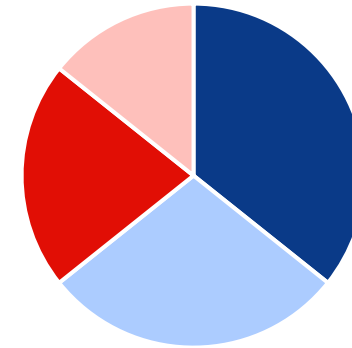


4 Decentralization of production and distribution

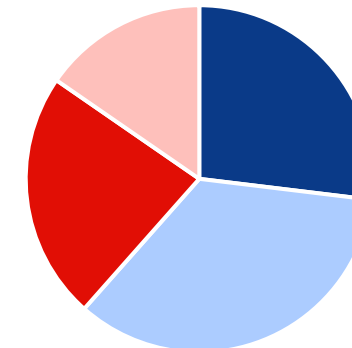
Over 60% is considering to onshore or re-shore in the next 3 years



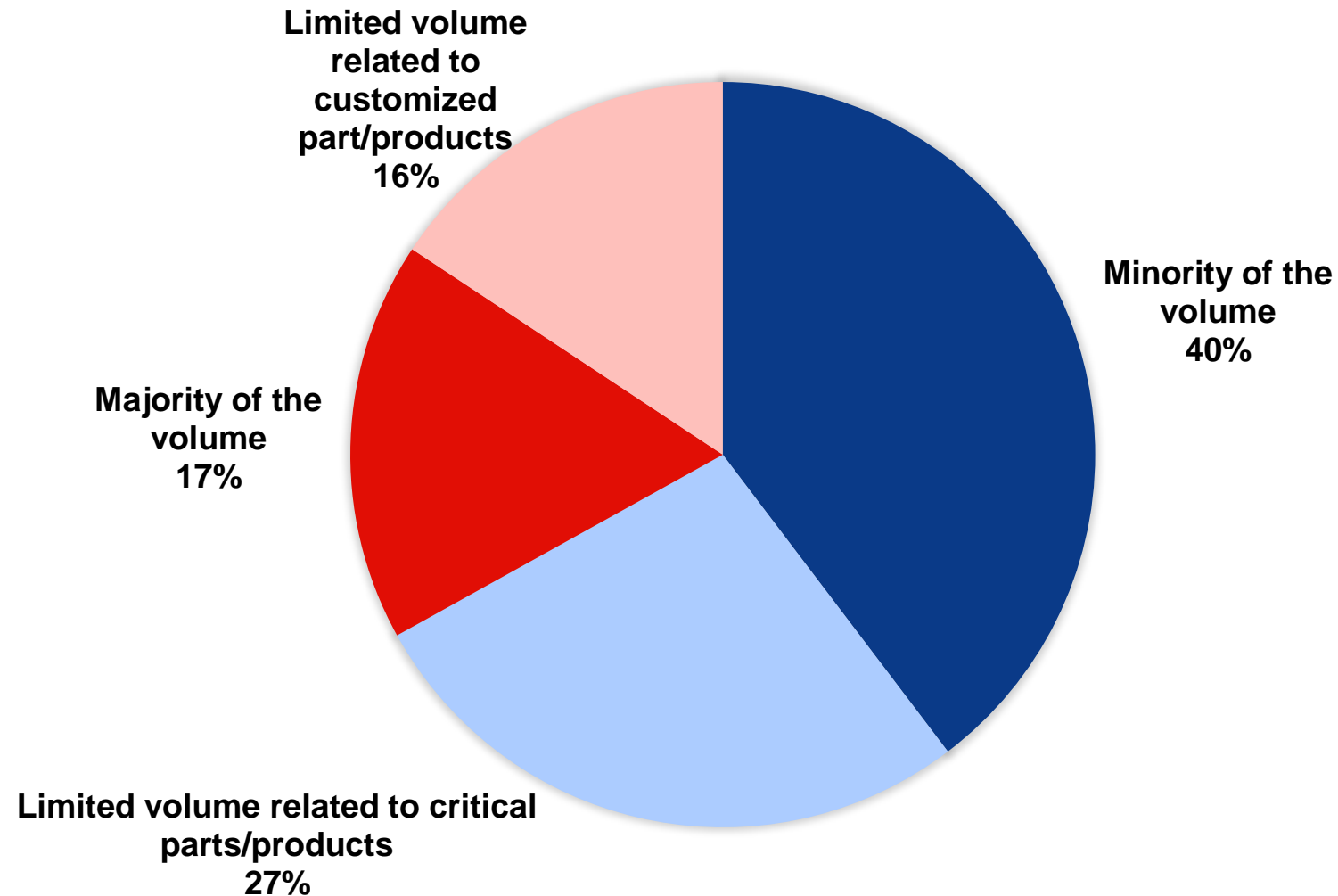
Europe



North America

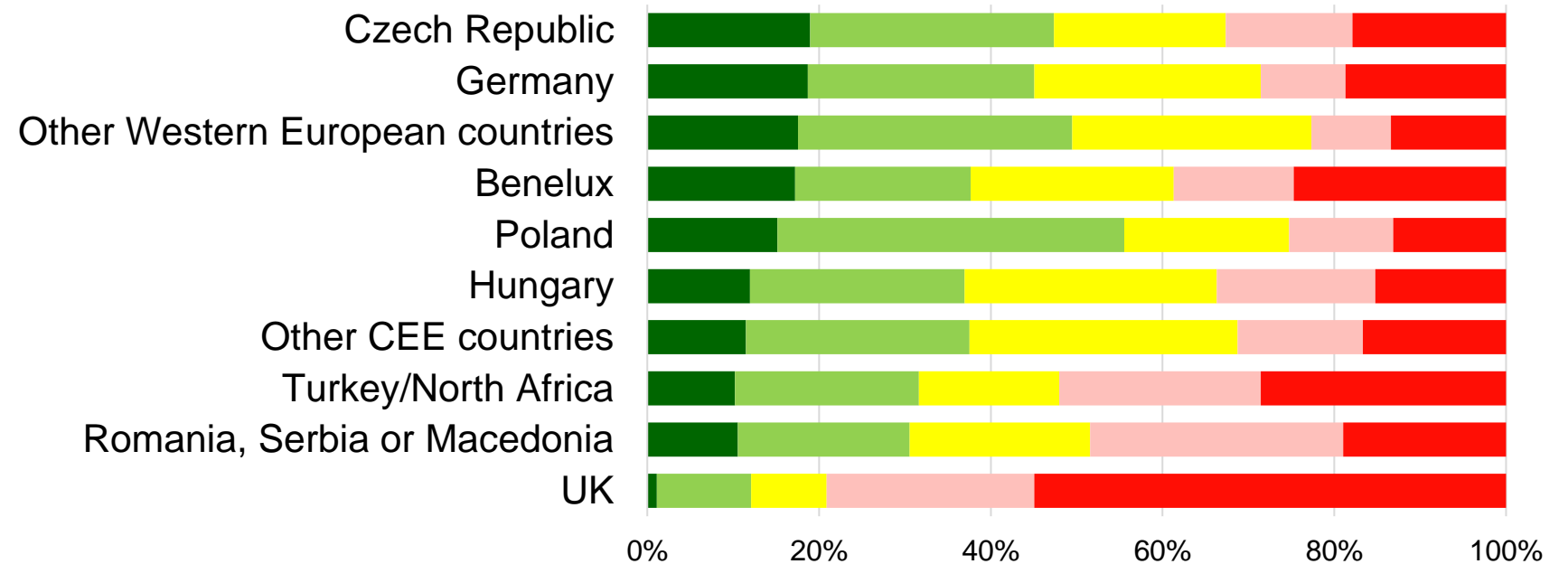


However, onshoring/re-shoring for ‘only’ a part of the business

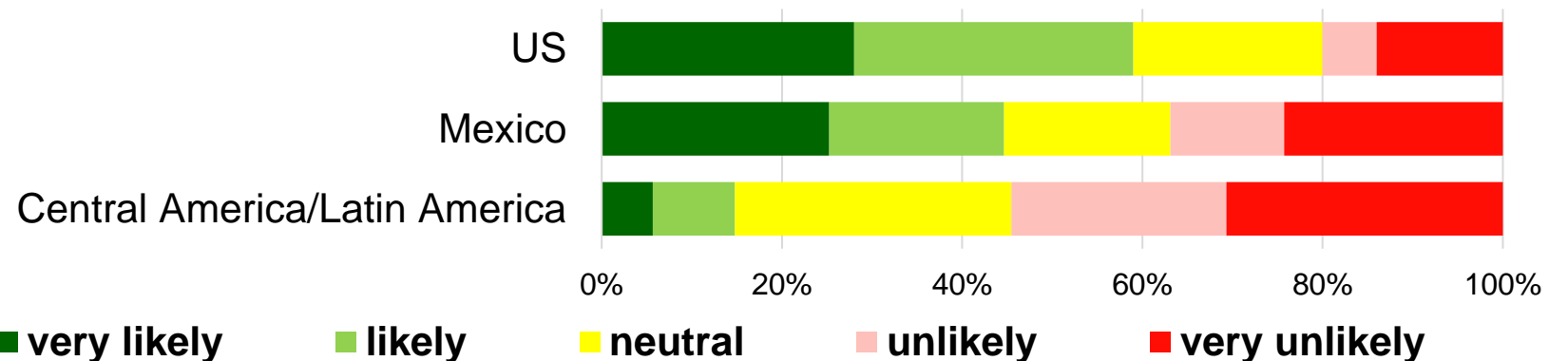


Geographical locations considered for reshoring

Serving EU market

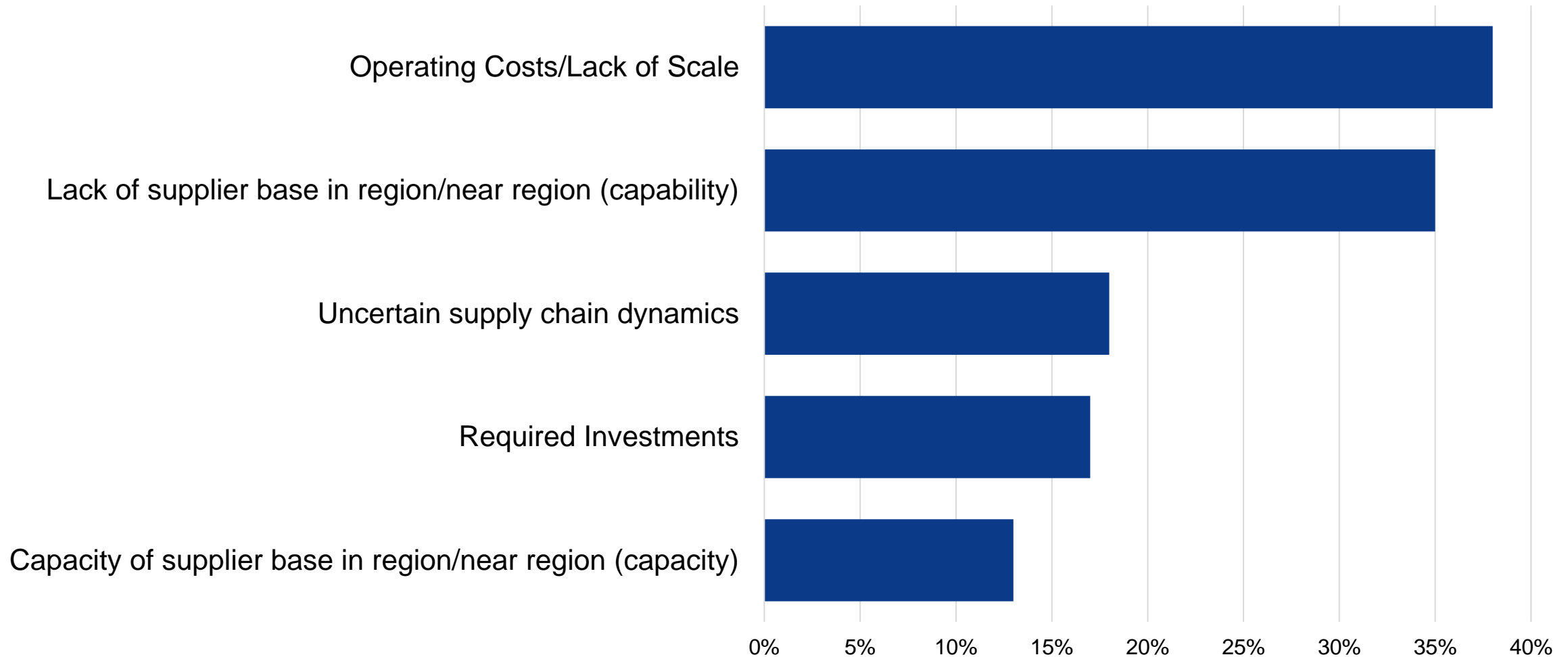


Serving US market



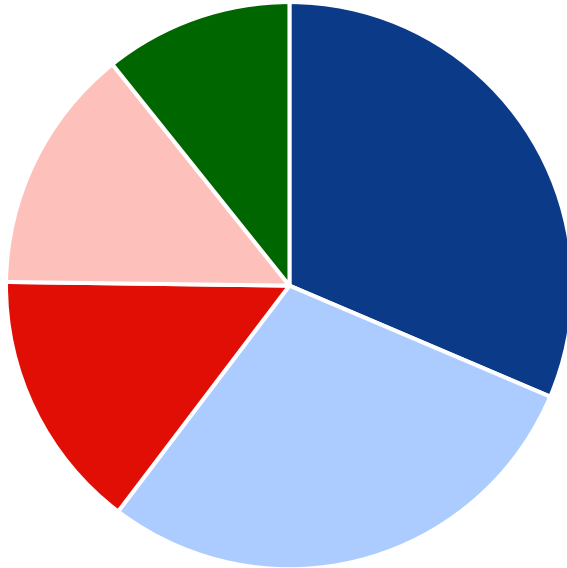
Barriers to reshoring (1/2)

Operating costs/Lack of scale and lack of supplier base top 2 barriers



Barriers to reshoring (2/2)

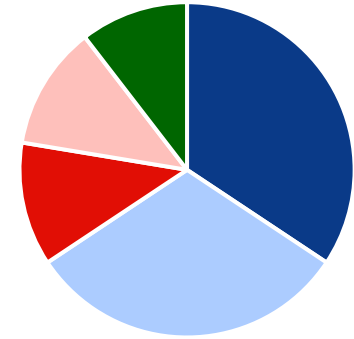
Overall



- Operating Costs/Lack of Scale
- Lack of supplier base in region/near region (capability)
- Uncertain supply chain dynamics
- Required Investments
- Capacity of supplier base in region/near region (capacity)

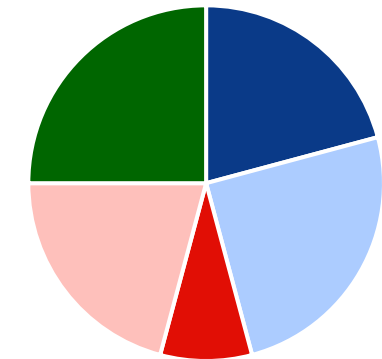
Customer intimacy

- Lack of scale/costs
- Suppliers' capabilities



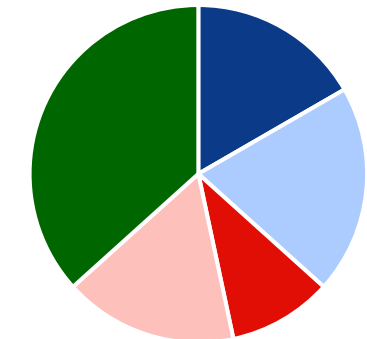
Operational excellence

- Required investments
- Suppliers' capacities in/near region



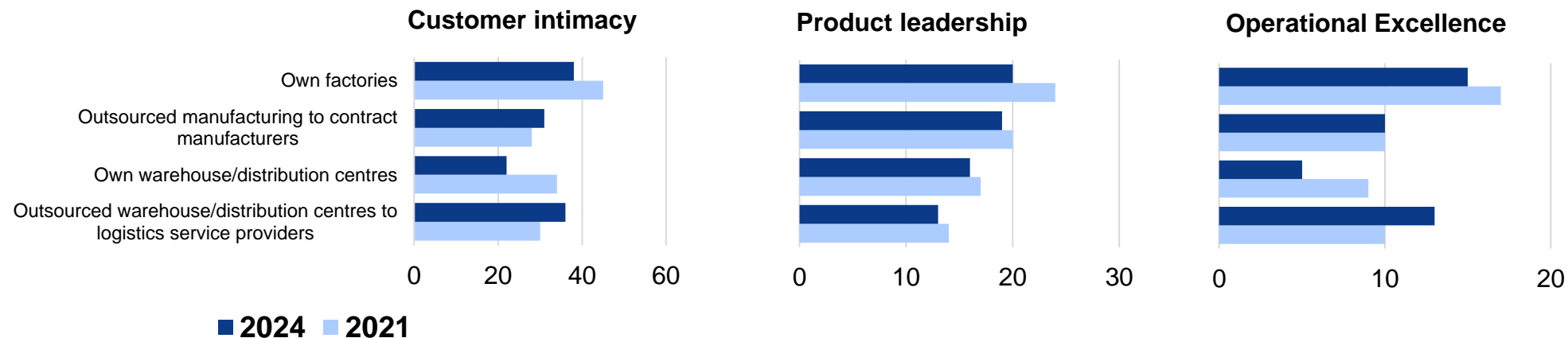
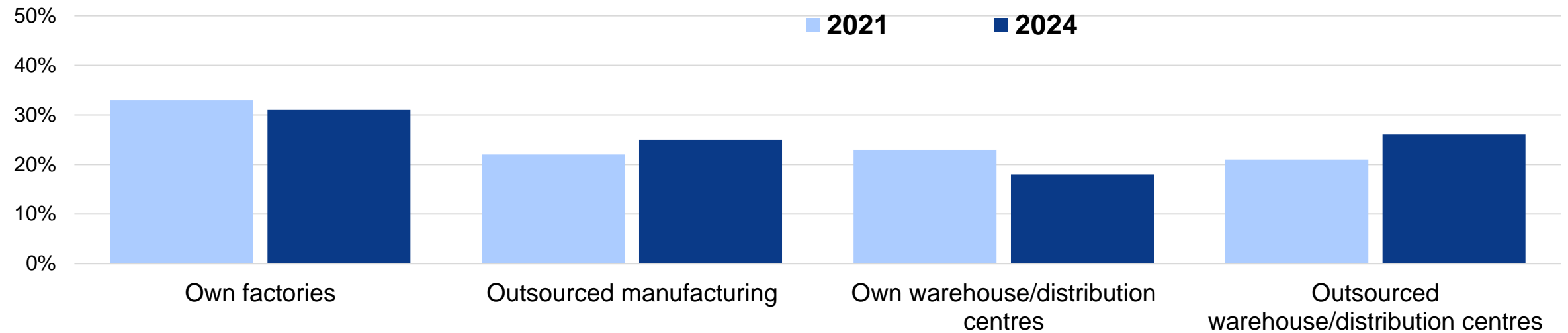
Product leadership

- Suppliers' capacities in/near region



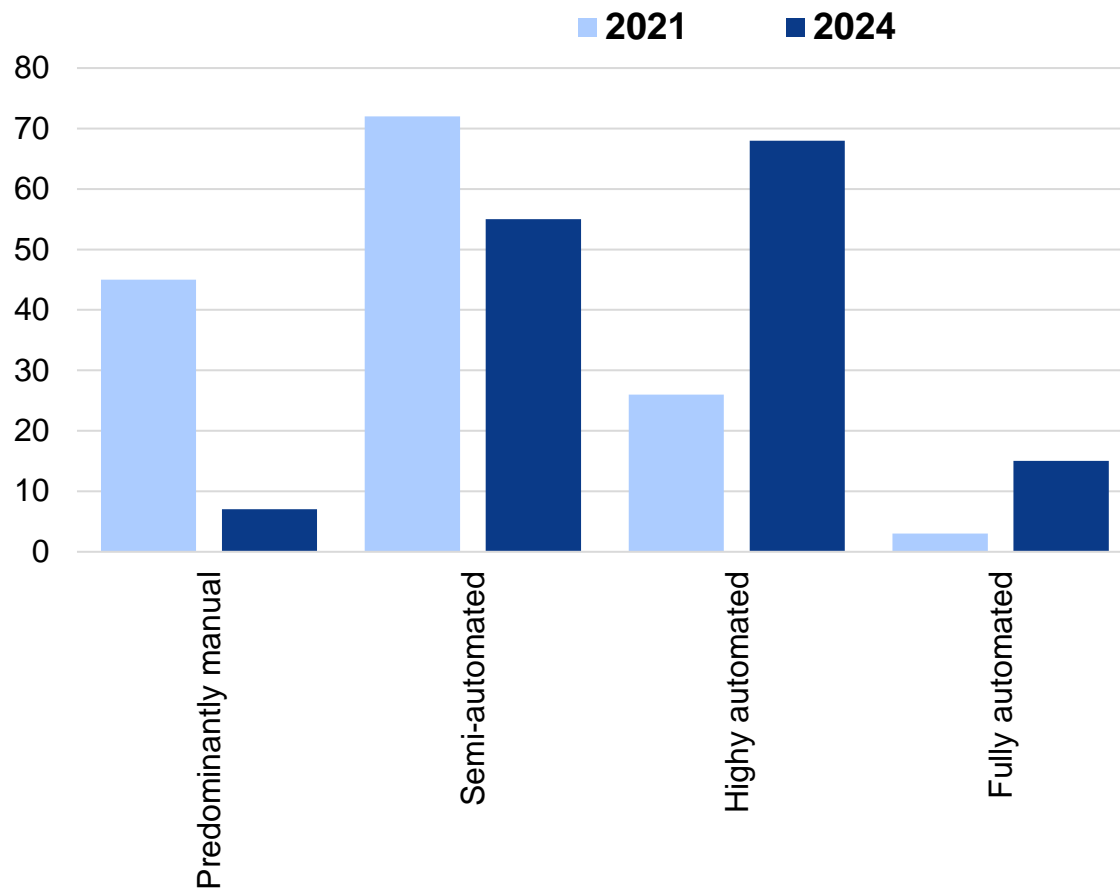
5 Changes in Operations

Outsourcing of manufacturing and distribution – outsourcing will continue to grow

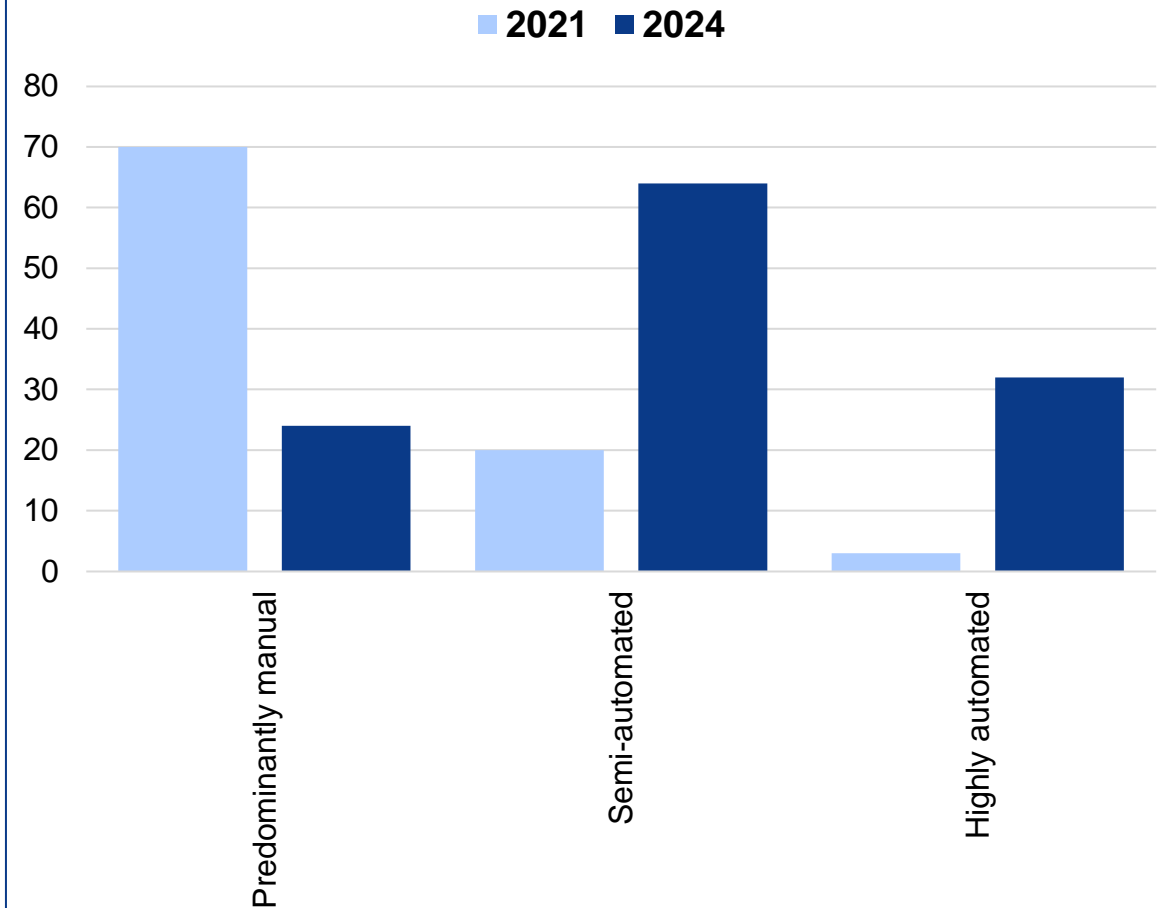


Technology Maturity

Major shift in adopting automated manufacturing processes



Shift from Manual towards more automated distribution centers



6 Conclusions

- **Future Supply Chain Strategy needs to incorporate Agility and Flexibility – adoption of an Assemble To Order strategy and shifting away from a Make To Stock strategy**
- **Over 60% is expecting to onshore or re-shore in the next 3 years, but anticipated volumes to be shifted are limited to the minority of the volume and/or specific product lines**
- **Top geographies to re- shore/near shore in Europe: Czech Republic, Germany and Poland; for the US: US and Mexico**
- **Top barriers to re-shore and onshore include operating cost/lack of scale and lack of supplier base**

- **Significant shift in technology adoption in both manufacturing and in distribution environments**
- **Decentralization not only in manufacturing – downstream footprint shifting away from centralized DC model towards decentralized model combined with drop ship capability**
- **Investments in supply chain capabilities required in End-to-End visibility, Central Planning & Governance and Collaboration with channel partners/ecosystem**