

Agenda

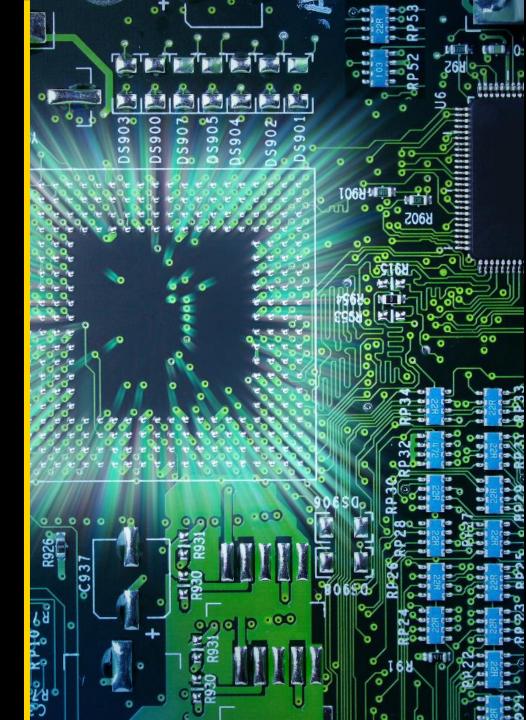
Industry Current State 5 min

Industry Outlook 15 min

- Top issues for next 3 years
- Supply Chain Disruption
 Territorialism and Nationalism

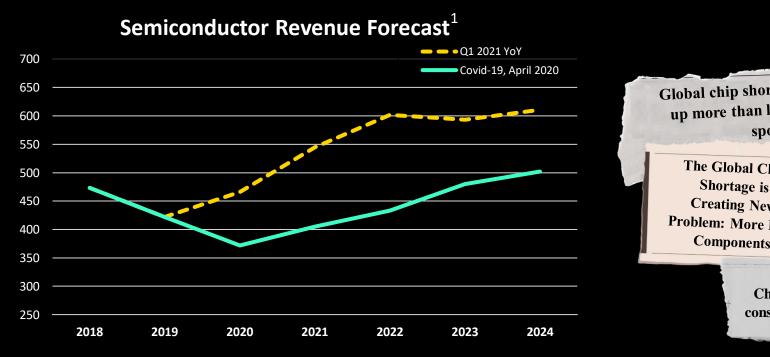
Regional Outlook 5 min

Q&A 5 min



From Prediction to Reality

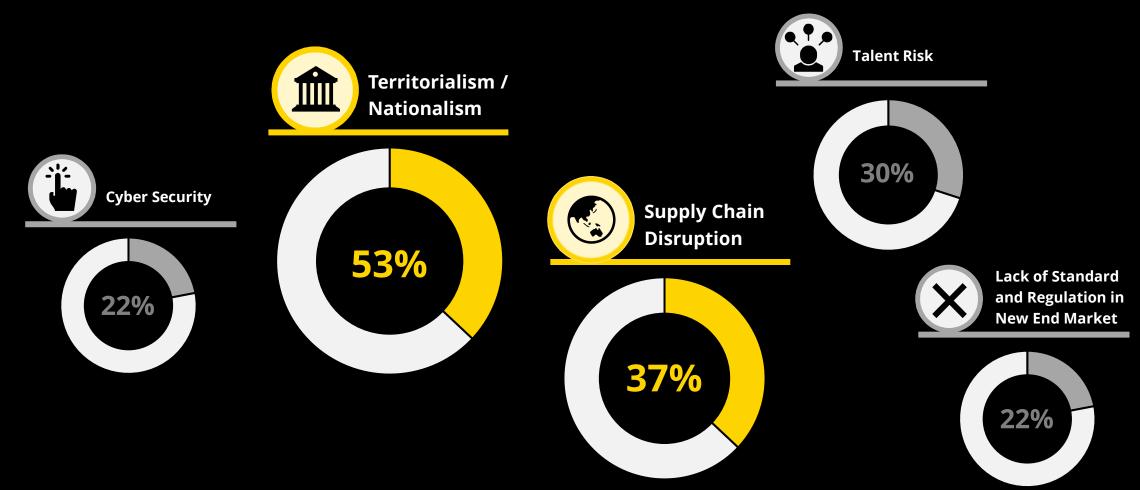
Accelerated by COVID-19 pandemics, increasing demand for digitalization drives up revenue of the global semiconductor industry. However, it leads to global chip shortage that impacts supply chains across sectors.





Source: 1. COVID-19 forecast data source: IDC, "State of the Market: Semiconductor Industry Assessment and Outlook"; 2021 YoY data source: Gartner, "Semiconductor Forecast Database, Worldwide, 1Q21 Update"

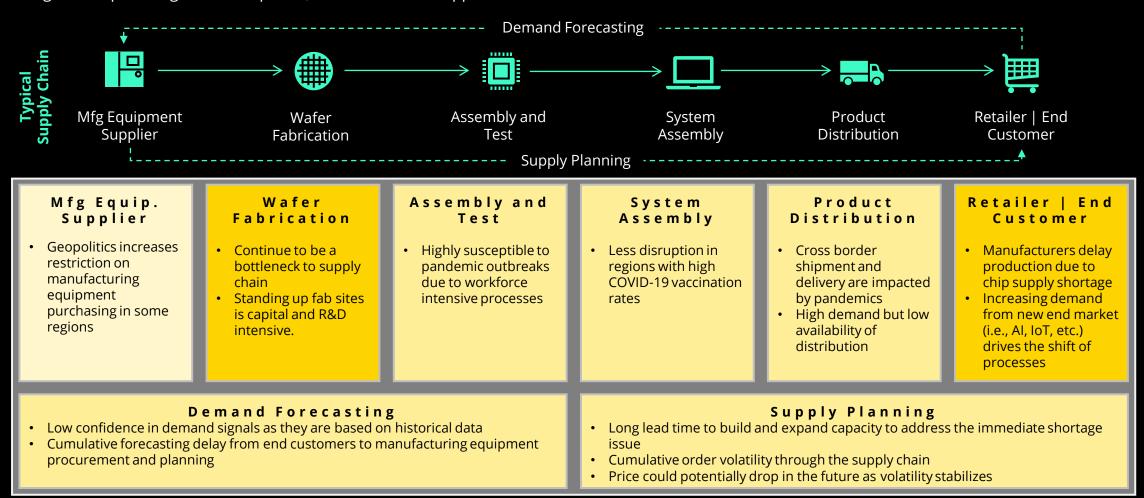
Top 2 Issues¹ Selected By Semiconductor Industry Executives And Other Sector Leaders



Source: 1. KPMG Global semiconductor Industry Survey findings, 2021

Supply Chain Disruption

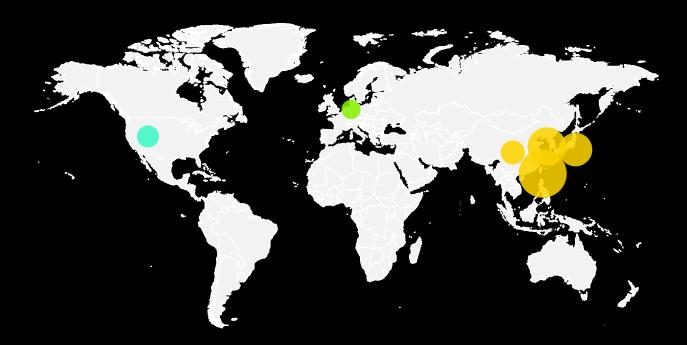
The global chip shortage from computers, cars to household appliances could last until 2023



Global Trade Trends

Regions are focused on standing up chip production capabilities to be self dependent.

Wafer Capacity (As of 20191)



Source: 1. IC Insights, "Wafer Capacity at Dec-2019 – Geographic Region (Monthly Installed Capacity in 200mm-equivalents)".

Asia (72.4%)

 Plans to invest \$100B over the next three years, including building a \$12B chip plant in US

N. America (12.8%)

- \$50B investment toward domestic chip production
- Companies investing \$20B toward new chip facilities

Europe (5.8%)

 EU to commit portion of \$160B of COVID-19 recovery fund, with goal to grow its semiconductor market to 20% by 2030

Rest of World (9.0%)

What Opportunities Are Present for the Region?

The Global Outsourced Semiconductor Assembly and Test (OSAT) Market is projected to grow from USD 32.5 billion in 2020 to USD 45.2 billion by 2026 at a CAGR of over 5.7%.



Global Trade



Investments



Post Pandemic Supply Chain Challenges

Q&A

