Shocks and Adaptation in Global Transportation Industry: Strategic Responses in an Era of Polycrisis

Wu, Chun-Yen | Assistant Research Fellow, The Second Research Division, CIER

The global transportation industry is undergoing a profound structural transformation. The longstanding paradigm of efficiency-driven globalization is giving way to a more fragmented and risk-conscious environment, shaped by the convergence of trade policy uncertainty, geopolitical tensions, and climate-induced disruptions. This emerging "polycrisis" normal is reshaping the operational logic of supply chains—from cost minimization to resilience building—with far-reaching implications for shipping costs, route planning, and logistics service models.

Three systemic disruptions underscore the fragility of the current transport architecture. First, rising trade policy uncertainty—exemplified by tariff threats during trade wars—has dampened investment and global demand, even before policies are formally enacted. Second, geopolitical conflict increasingly threatens maritime security: the late-2023 Red Sea crisis forced vessels to reroute around the Cape of Good Hope, adding one to two weeks of transit time and causing freight rates on Asia–Europe routes to surge fivefold. Third, the material impacts of climate change are becoming more evident. Severe droughts have restricted navigation through critical chokepoints such as the Panama and Suez Canals, with monthly transits declining by 49% and 42%, respectively, between 2023 and 2024.

These disruptions are accelerating a broader trend of geoeconomic fragmentation. Trade and investment flows are no longer guided solely by economic efficiency but increasingly shaped by geopolitical alignments. In this context, companies are shifting from globalization to "friend-shoring" —relocating production and logistics operations to politically aligned economies. While this transition strengthens geopolitical security, it also entails higher costs and inflationary pressures.

The transportation industry is both a frontline witness and active participant in this shift. Volatility in shipping rates has become the norm, and the geography of global ports is being redefined by strategic diversification. Ports historically embedded in China’s supply chain may see their strategic relevance diminish, while neutral

transshipment hubs such as Singapore stand to benefit—though they too must contend with downstream pressures such as port congestion and inland logistics bottlenecks.

Meanwhile, air freight is gaining prominence as a strategic complement to maritime shipping, especially for high-value and time-sensitive goods. However, the shift from sea to air is constrained by the broader contraction in global trade volumes and heavy reliance on passenger aircraft bellyhold capacity. Should geopolitical events significantly reduce passenger flights, air cargo supply could be severely strained.

In response, firms are actively reconfiguring their logistics and sourcing strategies. The "China+1" approach has evolved from a short-term hedge to a long-term diversification strategy, with production relocating closer to end markets in politically stable regions. Transportation providers are also investing in integrated logistics solutions to help clients navigate increasingly volatile conditions. For instance, Maersk's "end-to-end" logistics model—from ocean freight to customs clearance—reflects a sector-wide pivot toward service integration and risk management.

As global trade realigns along emerging geopolitical fault lines, the role of transportation is also being redefined. It is no longer merely a conduit for goods, but a strategic enabler of continuity and competitiveness. In this new landscape, the ability to assess geopolitical risk and design resilient logistics systems is no longer optional, it is essential. For both policymakers and industry leaders, ensuring the adaptability of transportation networks will be critical to sustaining stable trade flows in an increasingly unstable world.