The COVID-19 recession and recovery were characterized by a shift in the composition of consumption away from services and toward durable goods. Lockdowns and social distancing measures, as well as work from home, decreased demand for services. At the same time, fiscal stimulus packages and money saved that could have been spent on services led to higher consumption of durable goods.

A combination of demand and supply forces caused unprecedented supply chain disruptions during the COVID-19 recession and recovery.

Production of durable goods relies on complex global value chains (GVCs), where several stages in the production process are outsourced. While GVCs allow firms to benefit from specialization, there are risks, as firms are exposed to both domestic and foreign shocks. The unprecedented events of the COVID-19 recession, with a global health crisis that led governments around the world to implement containment policies, put pressure on supply chains and shipping networks—at that same time demand for these goods increased rapidly.1

Supply disruptions, combined with a shift in demand toward durable goods, resulted in supply and demand mismatches and bottlenecks. In this essay, we document the unprecedented nature of these supply and demand mismatches.

Figure 1 plots data from IHS Markit on world manufacturing backlogs between January 2003 and December 2021. Backlogs measure monthly changes in the number of unfulfilled new orders. The index values are relative to the previous month: 50 represents no change, values below 50 indicate bottlenecks have loosened (i.e., there are fewer unfilled orders and unused production capacity), and values above 50 indicate bottlenecks have tightened (i.e., there are more unfulfilled orders).2 Compared with the COVID-19 recession, the Great Recession was characterized by much looser supply chains initially, with the loosening lasting much longer; as the recovery started, the tightening was mild and short-lived. During the COVID-19 recession, however, bottleneck loosening bottomed out three months after the business cycle peak, and there was a consistent and rapid tightening of backlogs. To the extent that bottlenecks capture both supply and demand factors, Figure 1 shows that (i) mismatches between the two lead to loosening during recessions and tightening during expansions and (ii) there are stark differences between the past two recessions.

To explore further the role of demand and supply forces during those recessions, Figure 2 compares the evolution of durables consumption (Panel A) and backlogs (Panel B) during the 21 months following the business cycle peak before the Great Recession (January 2008-September 2009) and during the 21 months following the peak before the COVID-19 recession (March 2020-November 2021), respectively.

The Great Recession was characterized by a slow decline and a subsequent slow recovery of durables consumption (Panel A), which 21 months later was still 13% lower than the pre-recession peak. While this is common behavior of durables demand during a typical recession, consumption...
supply disruptions driven by the global nature of the pandemic led to unprecedented bottlenecks. Supply chain disruptions have been contributing to inflation. Whether this inflation will be temporary or permanent depends on how quickly supply disruptions ease to meet demand. New variants of the virus and new policies enacted to confront those variants make the outlook uncertain.

Notes

2 A value going from 42 to 47, for example, means that backlogs are still increasing, but at a lower rate than the previous month.


5 Santacreu and LaBelle (2022, forthcoming).