

## The Covid-19 pandemic has revealed that global supply chains are a huge house of cards

By Glenn McGillivray 27 Jul 2021

Covid-19 has laid bare many uncomfortable truths regarding society's overall preparedness for low-probability but high-impact events, especially global ones. These range from issues pertaining exclusively to pandemic readiness (like our domestic capacity to produce personal protective equipment, ventilators, sanitiser and vaccines) to matters that are considerably less esoteric, like the ability of global supply chains to operate regardless of the various stresses put upon them.



Image source: Gallo/Getty

The latter goes far beyond the <u>toilet paper supply issue</u> experienced early in the pandemic. It expands to include a whole range of products like <u>lumber and other building materials</u>, <u>tools</u>, <u>foodstuffs</u>, <u>seeds</u>, <u>furniture</u>, <u>cleaning supplies</u>, <u>aluminum cans</u>, <u>jars</u>, <u>pools and pool equipment</u>, <u>chemicals</u>, <u>bicycles</u>, <u>camping gear</u>, <u>household appliances and replacement parts of all kinds</u>.

In many cases supply chains have been simultaneously squeezed on both ends — supply and demand.

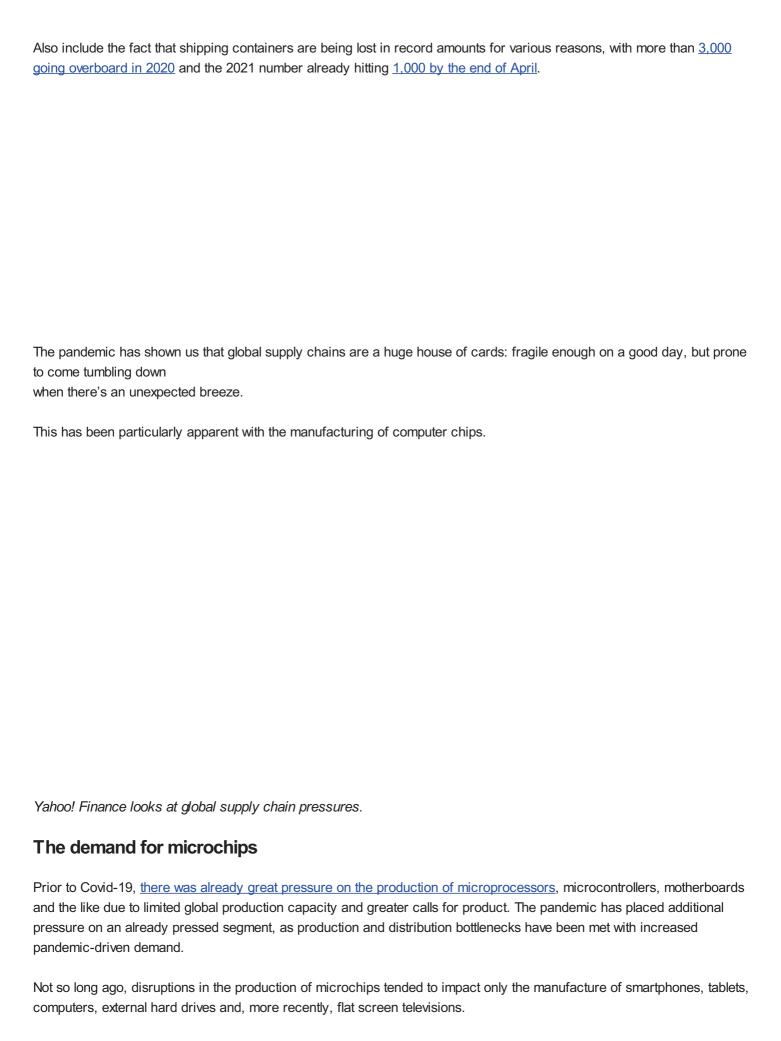
## Production and distribution disruptions

While unscheduled closures of manufacturing and distribution facilities, bottlenecks at borders and sick workers have caused choke points in supply lines, people being cooped up in their homes for months on end have driven up demand for a host of products.

There has also been a simultaneous shortage of labour, particularly in the licensed trades.

Throw in other disruptors, like the massive <u>winter storm in Texas</u> in February, the six-day <u>blockage of the Suez Canal</u> due to the grounded ship Ever Given in March and the six-day closure of the <u>Colonial gasoline pipeline</u> in the United States after a cyberattack in early May.

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Today, however, such disruptions also impact the production of automobiles, as chips are increasingly being used in power steering and braking systems, car infotainment systems and other components. Indeed, both <u>General Motors</u> and <u>Ford</u>

Motor Company have idled a number of plants in North America due to the global semiconductor shortage. And being relative newcomers to the microprocessor market, automakers don't have the clout that other buyers have, often leaving them out in the cold when supplies dry up.

The situation for automakers is only expected to get worse as more and more consumer goods get smart via wifi or Bluetooth connectivity.

The growing list of items that require microchips is disconcerting, as these components are almost solely manufactured in some of the riskiest places in the world from a natural disaster perspective: China, Japan, Taiwan, South Korea, Malaysia, Thailand, the Philippines and California.

This has to change. We need more manufacturing facilities for microchips and these must be located in places with low risk to natural and other hazards.

## Securing supply chains

But whether we are talking about microchips, wood chips or potato chips, corporations need to get intimately familiar with their supply chains if they aren't already: What they get, how often, in what quantities, from whom, from where, how and why. Business continuity, contingency plans and workarounds must be put in place ahead of time to deal with what-if scenarios. Risk managers — either in-house or third-party consultants — need to be in on these discussions, as do boards of directors.

Corporate insurance buyers and risk managers must understand the differences in key insurance coverages, like standard business interruption and contingent business interruption, and ensure that they have proper financial protection in place.

Finally, and from a big picture perspective, society needs to get a better idea of where chokepoints exist (both at the manufacturing and distribution levels and in the physical world) so these can be addressed, eased or even eradicated. Further, we need to do more <u>research into understanding how consumers behave in the face of crises</u>. The emerging fields of behavourial economics and decision science have much to contribute to this discussion.

It's a different world out there, a more interconnected, and a more dangerous one. And we are currently learning the hard way that global supply chains don't operate on autopilot.

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