

## Supply chain issues are here to stay

As global demand improves and continues to support industrial production, we think supply chain problems are here to stay, making it difficult and expensive for firms to get hold of industrial inputs even as more countries recover from the pandemic, particularly in a policy environment increasingly geared towards reshoring and domestic production



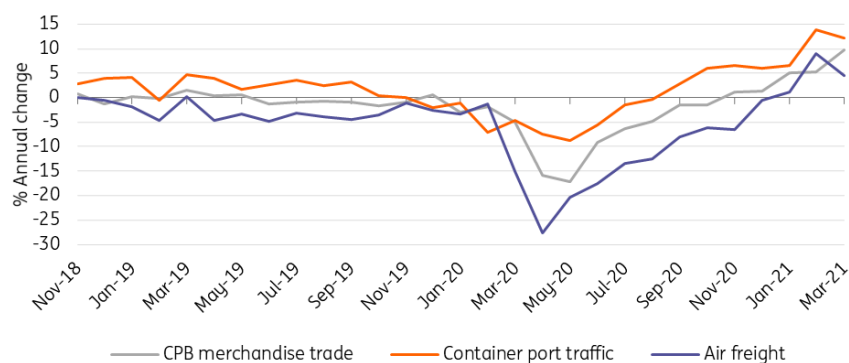
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### Volatility and uncertainty in supply chains

During the pandemic, world trade in goods has benefited from the global recovery in retail sales and industrial production, while other sectors remain much harder-hit by lockdowns and uncertainty, so much so that global trade's recovery has outpaced global GDP. Ocean freight, normally responsible for the bulk of world goods trade, has had to compensate for reductions in air freight capacity while passenger travel remains restricted.

## Ocean freight has become even more important, putting all capacity under pressure

Global trade in goods and different freight types, annual growth



Source: CPB Netherlands Bureau for Economic Policy Analysis, Institute of Shipping Economics and Logistics (ISL) and Leibniz-Institut für Wirtschaftsforschung (RWI), International Air Transport Association (IATA); and ING calculations.

But the positive picture from world trade volumes has come with supply chain volatility and uncertainty. Trade volumes have bounced back after lockdowns at ports, as well as the blockage of the Suez canal, but supply chain disruptions have accumulated and worsened. With some inputs taking much longer to be delivered, and containers becoming displaced, each setback is causing shortages of inputs and price increases to become more acute.

The faltering of supply chains is partly because of the strange effects that the pandemic has had on global economies. Even as demand for goods overall has remained strong, the stop-start nature of different recoveries has disrupted supply chains at different points, displacing empty containers and becoming one of the pinch points in international trade.

Ocean freight capacity more generally has also reached the limits of what it can deliver while health measures remain in place at ports. The growth in traffic has reached a point where globally, the majority of ships are missing scheduled arrival times, and late ships are being delayed for around a week before new slots open up for them. Reflecting the intense competition for capacity, shipping costs have been growing strongly since autumn 2020, adding pressure on input prices.

## Among widespread shortages and price rises, metals stand out

Shortages are rising across sectors, including rubber producers, plastics products, electrical equipment, motor vehicles, wood, and computers and electronics. And among rises in the prices of many inputs, industrial metals stand out with more than 70% increase relative to pre-pandemic levels.

Like other commodities, a combination of pandemic and non-pandemic-related factors are at play. Mine closures in the initial round of lockdowns in 2020 led to a temporary pause in supply, which then resumed but faced unprecedented demand as inventories were rebuilt alongside serving current demand. That demand includes manufacturing, hit less than services during the pandemic, and infrastructure and energy-transition related projects.

The pauses in production which have driven some input prices so high are being magnified by the poor performance of supply chains. Both metals and lumber prices have come down from recent peaks, as falls in supply are replaced by more normal rates. However, new price spikes are possible into 2022 during the next phase in the global recovery, while supply chains and inventories offer little chance of catching up after setbacks.

## Shipping costs to remain higher

Globally, capacity on major shipping routes has recovered to levels before the major lockdowns in 2020, although blank sailings (container ship journeys being scheduled but then cancelled) continued to cut 10% of scheduled capacity through the first half 2021. On current plans, cancelled sailings will come down to around 1% in 3Q. But cancellations are partly a response to delays, so the picture may still change.

A flood of new container capacity will ease price pressures, but not before 2023. Having enjoyed outstanding financial results during the pandemic, shipping companies have placed record levels of new orders for container vessels during 2021. But the companies also seem to have learnt how to manage capacity better in their alliances. They may continue to take capacity out of the system at short notice, reducing the price-dampening impact of new capacity coming onstream.

Pressure on ocean freight capacity will rise further as trade partners gradually recover from the effects of the pandemic at different speeds. But uncertainty about the recovery, including the possibility of new port closures, may well continue to exacerbate the displacement of empty containers and delays for key inputs.

## Warning signs for global supply chains, will businesses reshore?

Costs have been rising before the pandemic for industries making intensive use of foreign inputs, thanks to increases in trade barriers, which aren't going away any time soon. But the ongoing disruptions to supply have brought the risks of using global supply chains into focus, with a new push to develop domestic capabilities, especially in technology, and create a degree of independence in the supply of essential medicines and technology goods.

The pandemic has seen a rise in trade barriers affecting food and medical products and subsidies to domestic industries across a wide range of sectors. These measures were primarily introduced as an emergency response. But they have largely remained in place as the pandemic has progressed. The measures taken during the pandemic add to the difficulties of access to foreign markets that had been rising before the pandemic, including during the US-China trade war.

But a global effort to dismantle trade barriers is not on the cards. Instead, progress is unlikely to go much beyond piecemeal progress within the context of bilateral talks, such as the suspension of tariffs in the Airbus-Boeing dispute between the EU and the US. Policy effort in China, the EU and the US seems instead to be focusing on reshoring in key sectors, likely through subsidies, which in the case of the US especially have been supercharged by large fiscal stimulus plans.

One consequence of more support for domestic production could be to bring down the relative costs of producing locally, which may tilt the balance for some supply chains to be brought home. Still, reshoring is hard to do and not necessarily the right move for increasing resilience.

## Input shortages to continue into 2022

With input shortages to continue into 2022 and container prices remaining elevated into 2023, the supply of inputs is likely to be one of the major challenges for industrial production. Even as some frictions ease as the recovery progresses, trade barriers have risen.

Add to that a policy environment increasingly geared towards reshoring and domestic production, and it becomes clear that while global demand will continue to support industrial production globally, firms face a difficult and more costly environment to get the inputs they need for production.

### Author

**Amrita Naik Nimbalkar**

Junior Economist, Global Macro

[amrita.naik.nimbalkar@ing.com](mailto:amrita.naik.nimbalkar@ing.com)

**Mateusz Sutowicz**

Senior Economist, Poland

[mateusz.sutowicz@ing.pl](mailto:mateusz.sutowicz@ing.pl)

**Alissa Lefebvre**

Economist

[alissa.lefebvre@ing.com](mailto:alissa.lefebvre@ing.com)

**Deepali Bhargava**

Regional Head of Research, Asia-Pacific

[Deepali.Bhargava@ing.com](mailto:Deepali.Bhargava@ing.com)

**Ruben Dewitte**

Economist

+32495364780

[ruben.dewitte@ing.com](mailto:ruben.dewitte@ing.com)

**Kinga Havasi**

Economic research trainee

[kinga.havasi@ing.com](mailto:kinga.havasi@ing.com)

**Marten van Garderen**

Consumer Economist, Netherlands

[marten.van.garderen@ing.com](mailto:marten.van.garderen@ing.com)

**David Havrlant**

Chief Economist, Czech Republic

420 770 321 486

[david.havrlant@ing.com](mailto:david.havrlant@ing.com)

**Sander Burgers**

Senior Economist, Dutch Housing  
[sander.burgers@ing.com](mailto:sander.burgers@ing.com)

**Lynn Song**  
Chief Economist, Greater China  
[lynn.song@asia.ing.com](mailto:lynn.song@asia.ing.com)

**Michiel Tukker**  
Senior European Rates Strategist  
[michiel.tukker@ing.com](mailto:michiel.tukker@ing.com)

**Michal Rubaszek**  
Senior Economist, Poland  
[michal.rubaszek@ing.pl](mailto:michal.rubaszek@ing.pl)

**This is a test author**

**Stefan Posea**  
Economist, Romania  
[tiberiu-stefan.posea@ing.com](mailto:tiberiu-stefan.posea@ing.com)

**Marine Leleux**  
Sector Strategist, Financials  
[marine.leleux2@ing.com](mailto:marine.leleux2@ing.com)

**Jesse Norcross**  
Senior Sector Strategist, Real Estate  
[jesse.norcross@ing.com](mailto:jesse.norcross@ing.com)

**Teise Stellema**  
Research Assistant, Energy Transition  
[teise.stellema@ing.com](mailto:teise.stellema@ing.com)

**Diederik Stadig**  
Sector Economist, TMT & Healthcare  
[diederik.stadig@ing.com](mailto:diederik.stadig@ing.com)

**Diogo Gouveia**  
Sector Economist  
[diogo.duarte.vieira.de.gouveia@ing.com](mailto:diogo.duarte.vieira.de.gouveia@ing.com)

**Marine Leleux**  
Sector Strategist, Financials  
[marine.leleux2@ing.com](mailto:marine.leleux2@ing.com)

**Ewa Manthey**  
Commodities Strategist

[ewa.manthey@ing.com](mailto:ewa.manthey@ing.com)

## ING Analysts

### James Wilson

EM Sovereign Strategist

[James.wilson@ing.com](mailto:James.wilson@ing.com)

### Sophie Smith

Digital Editor

[sophie.smith@ing.com](mailto:sophie.smith@ing.com)

### Frantisek Taborsky

EMEA FX & FI Strategist

[frantisek.taborsky@ing.com](mailto:frantisek.taborsky@ing.com)

### Adam Antoniak

Senior Economist, Poland

[adam.antoniak@ing.pl](mailto:adam.antoniak@ing.pl)

### Min Joo Kang

Senior Economist, South Korea and Japan

[min.joo.kang@asia.ing.com](mailto:min.joo.kang@asia.ing.com)

### Coco Zhang

ESG Research

[coco.zhang@ing.com](mailto:coco.zhang@ing.com)

### Jan Frederik Slijkerman

Senior Sector Strategist, TMT

[jan.frederik.slijkerman@ing.com](mailto:jan.frederik.slijkerman@ing.com)

### Katinka Jongkind

Senior Economist, Services and Leisure

[Katinka.Jongkind@ing.com](mailto:Katinka.Jongkind@ing.com)

### Marina Le Blanc

Sector Strategist, Financials

[Marina.Le.Blanc@ing.com](mailto:Marina.Le.Blanc@ing.com)

### Samuel Abettan

Junior Economist

[samuel.abettan@ing.com](mailto:samuel.abettan@ing.com)

### Franziska Biehl

Senior Economist, Germany

[Franziska.Marie.Biehl@ing.de](mailto:Franziska.Marie.Biehl@ing.de)

**Rebecca Byrne**

Senior Editor and Supervisory Analyst

[rebecca.byrne@ing.com](mailto:rebecca.byrne@ing.com)

**Mirjam Bani**

Sector Economist, Commercial Real Estate & Public Sector (Netherlands)

[mirjam.bani@ing.com](mailto:mirjam.bani@ing.com)

**Timothy Rahill**

Credit Strategist

[timothy.rahill@ing.com](mailto:timothy.rahill@ing.com)

**Leszek Kasek**

Senior Economist, Poland

[leszek.kasek@ing.pl](mailto:leszek.kasek@ing.pl)

**Oleksiy Soroka, CFA**

Senior High Yield Credit Strategist

[oleksiy.soroka@ing.com](mailto:oleksiy.soroka@ing.com)

**Antoine Bouvet**

Head of European Rates Strategy

[antoine.bouvet@ing.com](mailto:antoine.bouvet@ing.com)

**Jeroen van den Broek**

Global Head of Sector Research

[jeroen.van.den.broek@ing.com](mailto:jeroen.van.den.broek@ing.com)

**Edse Dantuma**

Senior Sector Economist, Industry and Healthcare

[edse.dantuma@ing.com](mailto:edse.dantuma@ing.com)

**Francesco Pesole**

FX Strategist

[francesco.pesole@ing.com](mailto:francesco.pesole@ing.com)

**Rico Luman**

Senior Sector Economist, Transport and Logistics

[Rico.Luman@ing.com](mailto:Rico.Luman@ing.com)

**Jurjen Witteveen**

Sector Economist

[jurjen.witteveen@ing.com](mailto:jurjen.witteveen@ing.com)

**Dmitry Dolgin**

Chief Economist, CIS

[dmitry.dolgin@ing.de](mailto:dmitry.dolgin@ing.de)

**Nicholas Mapa**

Senior Economist, Philippines

[nicholas.antonio.mapa@asia.ing.com](mailto:nicholas.antonio.mapa@asia.ing.com)

**Egor Fedorov**

Senior Credit Analyst

[egor.fedorov@ing.com](mailto:egor.fedorov@ing.com)

**Sebastian Franke**

Consumer Economist

[sebastian.franke@ing.de](mailto:sebastian.franke@ing.de)

**Gerben Hieminga**

Senior Sector Economist, Energy

[gerben.hieminga@ing.com](mailto:gerben.hieminga@ing.com)

**Nadège Tillier**

Head of Corporates Sector Strategy

[nadege.tillier@ing.com](mailto:nadege.tillier@ing.com)

**Charlotte de Montpellier**

Senior Economist, France and Switzerland

[charlotte.de.montpellier@ing.com](mailto:charlotte.de.montpellier@ing.com)

**Laura Straeter**

Behavioural Scientist

+31(0)611172684

[laura.Straeter@ing.com](mailto:laura.Straeter@ing.com)

**Valentin Tataru**

Chief Economist, Romania

[valentin.tataru@ing.com](mailto:valentin.tataru@ing.com)

**James Smith**

Developed Markets Economist, UK

[james.smith@ing.com](mailto:james.smith@ing.com)

**Suvi Platerink Kosonen**

Senior Sector Strategist, Financials

[suvi.platerink-kosonen@ing.com](mailto:suvi.platerink-kosonen@ing.com)

**Thijs Geijer**

Senior Sector Economist, Food & Agri

[thijs.geijer@ing.com](mailto:thijs.geijer@ing.com)

**Maurice van Sante**

Senior Economist Construction & Team Lead Sectors

[maurice.van.sante@ing.com](mailto:maurice.van.sante@ing.com)



**Marcel Klok**

Senior Economist, Netherlands

[marcel.klok@ing.com](mailto:marcel.klok@ing.com)

**Piotr Poplawski**

Senior Economist, Poland

[piotr.poplawski@ing.pl](mailto:piotr.poplawski@ing.pl)

**Paolo Pizzoli**

Senior Economist, Italy, Greece

[paolo.pizzoli@ing.com](mailto:paolo.pizzoli@ing.com)

**Marieke Blom**

Chief Economist and Global Head of Research

[marieke.blom@ing.com](mailto:marieke.blom@ing.com)

**Raoul Leering**

Senior Macro Economist

[raoul.leering@ing.com](mailto:raoul.leering@ing.com)

**Maarten Leen**

Head of Global IFRS9 ME Scenarios

[maarten.leen@ing.com](mailto:maarten.leen@ing.com)

**Maureen Schuller**

Head of Financials Sector Strategy

[Maureen.Schuller@ing.com](mailto:Maureen.Schuller@ing.com)

**Warren Patterson**

Head of Commodities Strategy

[Warren.Patterson@asia.ing.com](mailto:Warren.Patterson@asia.ing.com)

**Rafal Benecki**

Chief Economist, Poland

[rafal.benecki@ing.pl](mailto:rafal.benecki@ing.pl)

**Philippe Ledent**

Senior Economist, Belgium, Luxembourg

[philippe.ledent@ing.com](mailto:philippe.ledent@ing.com)

**Peter Virovacz**

Senior Economist, Hungary

[peter.virovacz@ing.com](mailto:peter.virovacz@ing.com)

**Inga Fechner**

Senior Economist, Germany, Global Trade

[inga.fechner@ing.de](mailto:inga.fechner@ing.de)

**Dimitry Fleming**

Senior Data Analyst, Netherlands

[Dimitry.Fleming@ing.com](mailto:Dimitry.Fleming@ing.com)

**Ciprian Dascalu**

Chief Economist, Romania

+40 31 406 8990

[ciprian.dascalu@ing.com](mailto:ciprian.dascalu@ing.com)

**Muhammet Mercan**

Chief Economist, Turkey

[muhammet.mercan@ingbank.com.tr](mailto:muhammet.mercan@ingbank.com.tr)

**Iris Pang**

Chief Economist, Greater China

[iris.pang@asia.ing.com](mailto:iris.pang@asia.ing.com)

**Sophie Freeman**

Writer, Group Research

+44 20 7767 6209

[Sophie.Freeman@uk.ing.com](mailto:Sophie.Freeman@uk.ing.com)

**Padhraic Garvey, CFA**

Regional Head of Research, Americas

[padhraic.garvey@ing.com](mailto:padhraic.garvey@ing.com)

**James Knightley**

Chief International Economist, US

[james.knightley@ing.com](mailto:james.knightley@ing.com)

**Tim Condon**

Asia Chief Economist

+65 6232-6020

**Martin van Vliet**

Senior Interest Rate Strategist

+31 20 563 8801

[martin.van.vliet@ing.com](mailto:martin.van.vliet@ing.com)

**Karol Pogorzelski**

Senior Economist, Poland

[Karol.Pogorzelski@ing.pl](mailto:Karol.Pogorzelski@ing.pl)

**Carsten Brzeski**

Global Head of Macro

[carsten.brzeski@ing.de](mailto:carsten.brzeski@ing.de)

**Viraj Patel**

Foreign Exchange Strategist  
+44 20 7767 6405  
[viraj.patel@ing.com](mailto:viraj.patel@ing.com)

**Owen Thomas**  
Global Head of Editorial Content  
+44 (0) 207 767 5331  
[owen.thomas@ing.com](mailto:owen.thomas@ing.com)

**Bert Colijn**  
Chief Economist, Netherlands  
[bert.colijn@ing.com](mailto:bert.colijn@ing.com)

**Peter Vanden Houte**  
Chief Economist, Belgium, Luxembourg, Eurozone  
[peter.vandenhoute@ing.com](mailto:peter.vandenhoute@ing.com)

**Benjamin Schroeder**  
Senior Rates Strategist  
[benjamin.schroeder@ing.com](mailto:benjamin.schroeder@ing.com)

**Chris Turner**  
Global Head of Markets and Regional Head of Research for UK & CEE  
[chris.turner@ing.com](mailto:chris.turner@ing.com)

**Gustavo Rangel**  
Chief Economist, LATAM  
+1 646 424 6464  
[gustavo.rangel@ing.com](mailto:gustavo.rangel@ing.com)

**Carlo Cocuzzo**  
Economist, Digital Finance  
+44 20 7767 5306  
[carlo.cocuzzo@ing.com](mailto:carlo.cocuzzo@ing.com)