

The impact of COVID-19 on global supply chains and the transport sector*

UPDATE 23 April 2020

(Previous longer versions updated 9 and 16 April 2020 to be found in the site's Archive)

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The "Big Picture" of COVID-19 impact on world economy in mid-April 2020

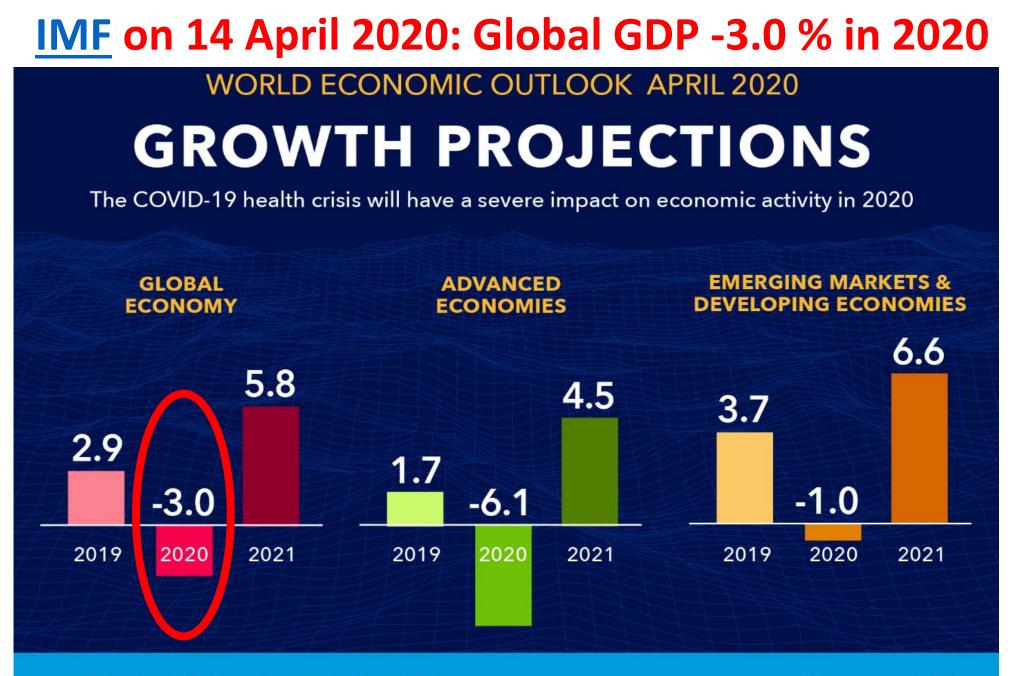
Macroeconomic (country) estimates based on COVID-19 impacts*:

- IMF, International Monetary Fund, the latest estimate released on 14 April 2020
- The World Bank, key site on COVID-19
- **ECB** European Central Bank
- **<u>EIB</u>** European Investment Bank
- <u>ILO</u> International Labour Organization
- **OECD** and ITF at the OCED (International Transport Forum)
- ASEAN
- <u>Fitch</u> ratings*
- <u>Standard & Poors</u>*
- Centre for Global Development on Africa, 3 April 2020
- McKinsey, Implications for Business, 13 April 2020

Note:

An annotated and updated repository of other International Organizations' websites dealing with COVID-19 issues at the end of this presentation

*) All other Open access, but these may require registration



INTERNATIONAL MONETARY FUND

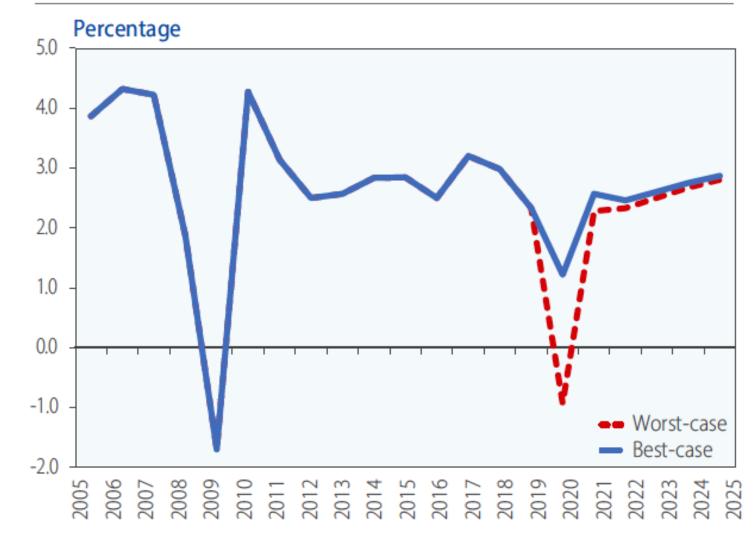
IMF.org #WEO

UN on 1 April 2020: COVID-19 likely to shrink global GDP by almost one per cent in 2020

Governments are considering and rolling out large stimulus packages to avert a sharp downturn of their economies which could potentially plunge the global economy into a deep recession.

According to <u>UN DESA*</u> on 1 April 2020, the world economy could contract by 0.9 per cent in 2020 in the worst-case scenario.

World growth outlook for 2020 in the best- and worst-case scenarios, as of late March 2020



Source: UN DESA.

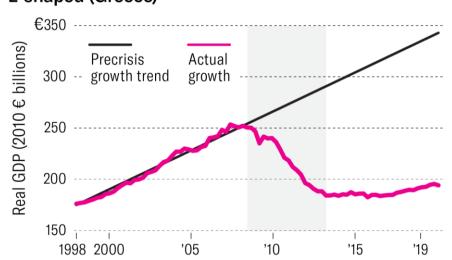
Examples of three types of economic shock:

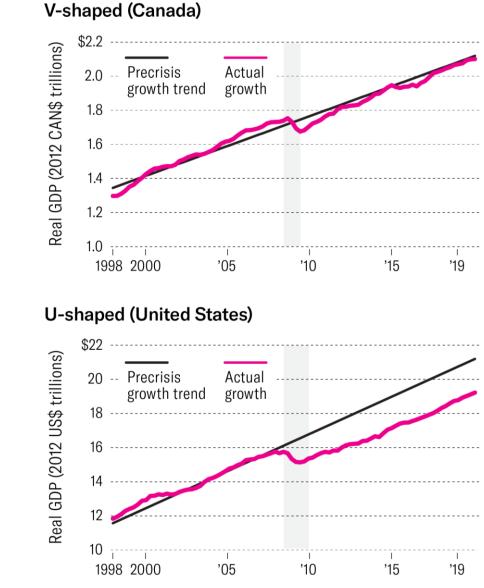
the L-, V- and U-shaped developments

Examples of three types of economic shock: the L-, V- and U-shaped developments

Economic Shock: 3 Examples

The concept of a recession is binary and blunt. The bigger-scenario question revolves around the shape of the shock and its structural legacy. To illustrate, consider how the 2008 global financial crisis delivered recessions in three sample countries, yet followed vastly different shapes in terms of shock progression and recovery.





<u>Philipp Carlsson-Szlezak</u>, <u>Martin Reeves</u> and <u>Paul Swartz</u>, Harvard Business Review, 27 March 2020; read more <u>here</u>

L-shaped (Greece)

Source: Statistics Canada, NBER, BEA, Hellenic Statistical Authority, BCG Center for Macroeconomics Analysis

⊽ HBR

Two Economic Supply-Side Threats from Covid-19

The Covid-19 shock uniquely raises liquidity and capital risks in both the financial system *and* the real economy simultaneously.

The two paths of COVID-19's structural damage in a **U-shaped scenario**:

Financial system risks. The unprecedented Covid-19 shock has already generated stress in capital markets, triggering a forceful response from central banks. If liquidity problems persist and real economy problems lead to write-downs, capital problems can arise. While from a policy perspective we may know the solutions, bailouts and recapitalization of banks are politically controversial. In the case of a financial crisis, capital formation would take a huge hit, driving a prolonged slump with damage to labor and productivity as well.

Extended real economy "freeze." The truly unprecedented possibility. Months of social distancing could disrupt capital formation and ultimately labor participation and productivity growth. Unlike financial crises, an extended freeze of this magnitude damaging the supply side would be new territory for policy makers.

	Financial system shock	Real economy "freeze"
Liquidity problems	Liquidity problems hamper credit intermediation and investment	Healthy households and companies face severe cash-flow problems, hampering investment
Capital problems	Capital problems shut credit channel, damaging capital formation and ultimately growth	Damaged household and company balance sheets cripple investment and ultimately growth

Source: BCG Center for Macroeconomics analysis

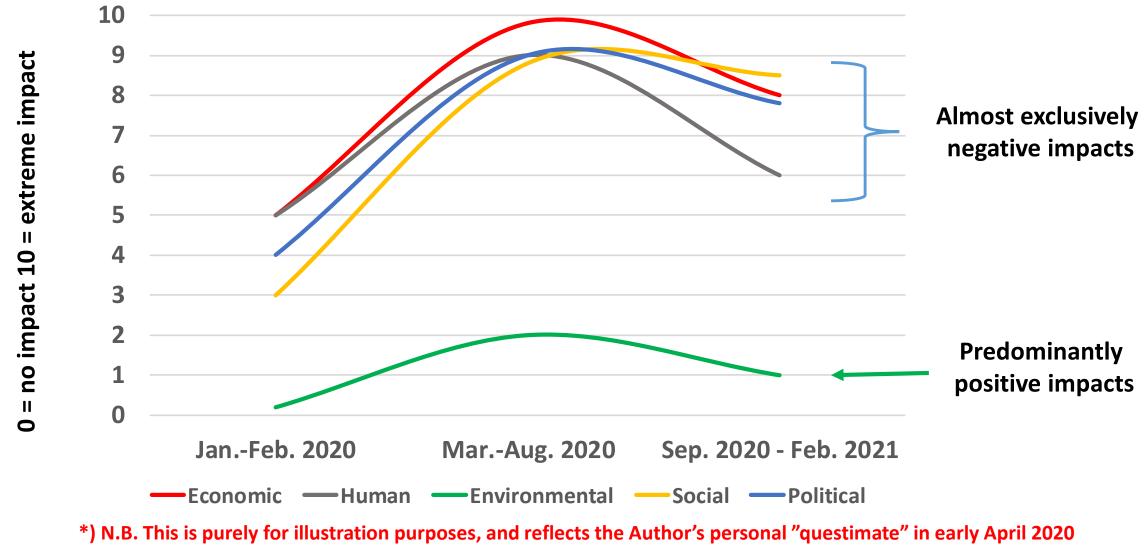
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How long will this last, and what shape will it take?

- well, too early to say:

nobody seems to have the answer right now, only good or less good guesses...

An initial "questimate"* of broader impacts of COVID-19 in EU countries: social problems may become the main concern by early 2021



Source: Prof. Lauri Ojala; updated on 9 April 2020

What type of financial or economic help is on offer?

Some of the largest help packages since mid-March 2020

- On Thu, <u>26 March 2020</u>, <u>G20</u> economies announced to pump US\$5,000 billion into the world economy as part of a joint pledge to use all policy tools available to cushion the impacts of the global COVID-19 pandemic
- <u>ECB</u> (European Central Bank) injected an additional **870 billion euro** about 7% of the euro area's GDP into financial markets to address the challenge. Through its refinancing lines it is also making up to **3,000 billion euro** in liquidity available, at the lowest interest rate it has ever offered: -0.75%.
- <u>IMF</u> (International Monetary Fund) ready to deploy US\$1,000 billion in lending capacity
 - On 25 March 2020, IMF launched a <u>Tracker</u> of fiscal, monetary or macro-financial policies Governments are taking in response to COVID-19 covering 186+ economies
- The <u>EIB Group</u> (European Investment Bank) has proposed a plan to mobilise up to €40 billion of financing.
- On 17 March 2020, <u>World Bank Group Increases COVID-19 Response to US\$14 Billion To</u> <u>Help Sustain Economies and Protect Jobs</u>

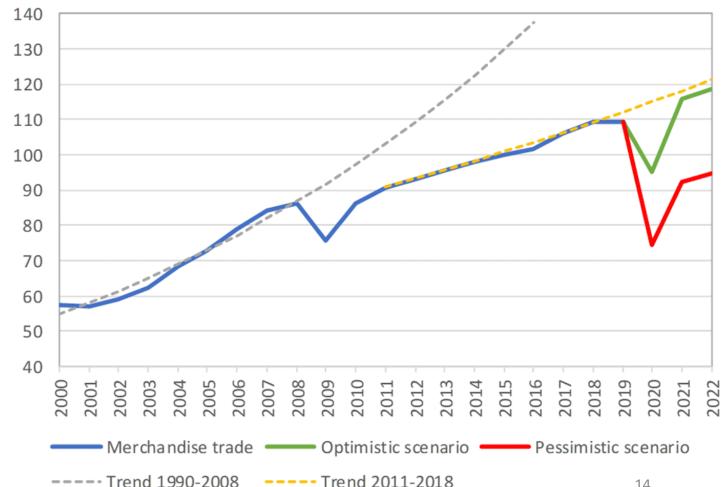
How does COVID-19 impact on trade and supply chains look like now*?

*) Early April 2020

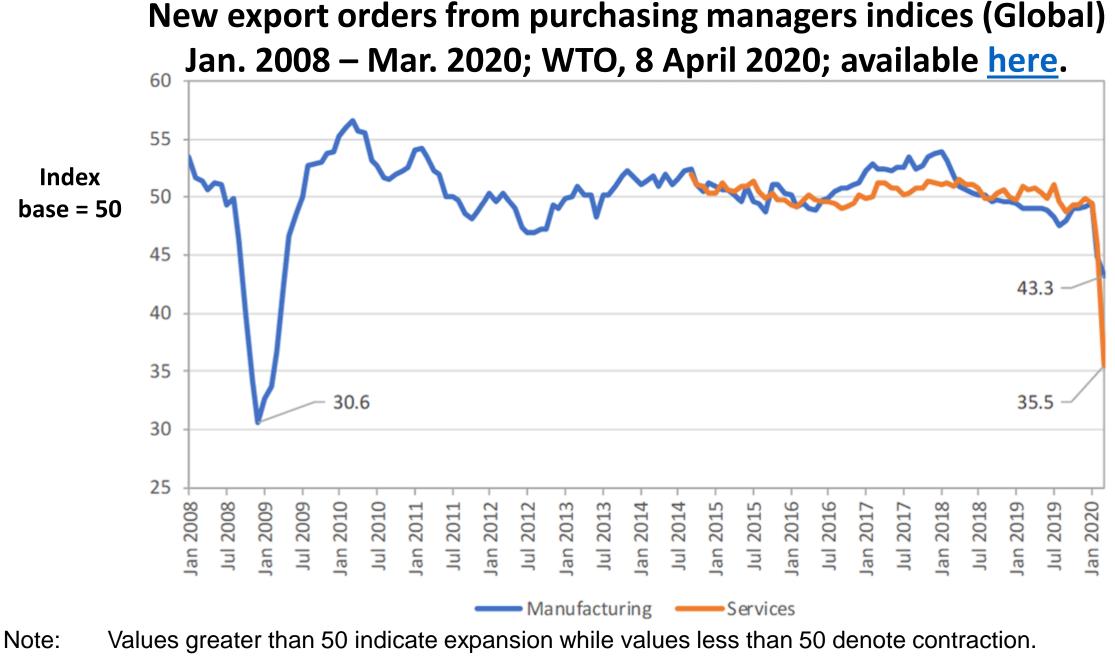
WTO on 8 April 2020: Trade set to plunge as **COVID-19 pandemic upends global economy**

WTO expects world trade to fall by between 13% and 32% in 2020 as the **COVID 19 pandemic** disrupts normal economic activity and life around the world.

Read more here.



World merchandise trade volume, 2000-2022



IHS Markit Eurozone PMI[®]: COVID-19 outbreak leads to largest collapse in business activity ever recorded

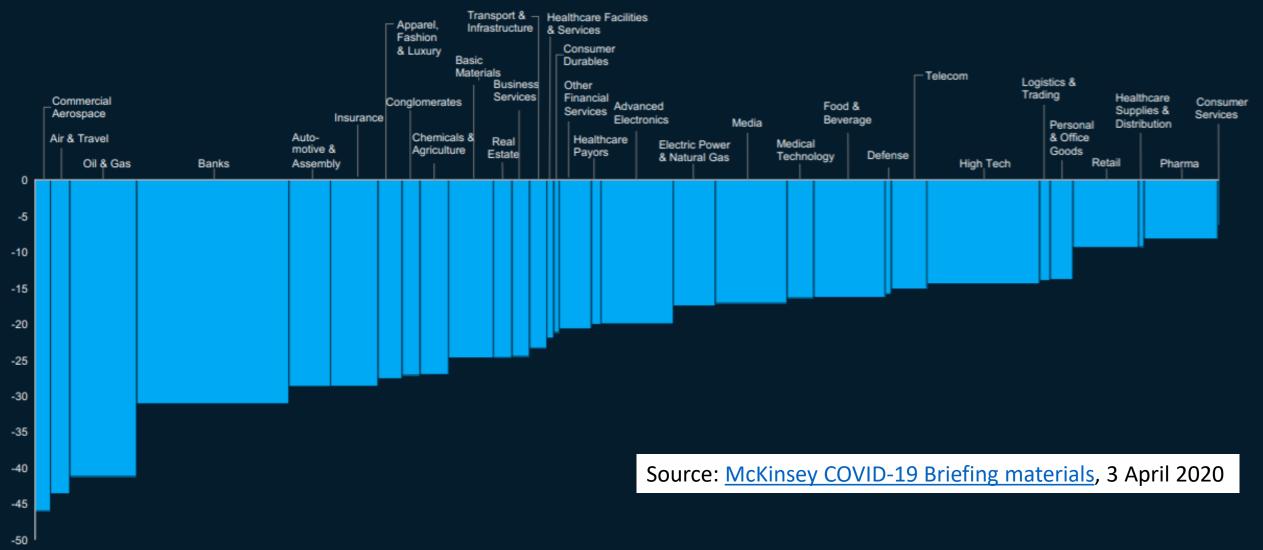
Key findings:

- Flash Eurozone PMI Composite Output Index(1) at 31.4 (51.6 in February). Record low (since July 1998).
- Flash Eurozone Services PMI Activity Index(2) at 28.4 (52.6 in February). Record low (since July 1998).
- Flash Eurozone Manufacturing PMI Output Index(4) at 39.5 (48.7 in February). 131-month low.
- Flash Eurozone Manufacturing PMI(3) at 44.8 (49.2 in February).
 92-month low.



Market capitalization has declined across sectors, with significant variation to the extent of the decline

Weighted average year-to-date local currency total shareholder returns by industry in percent¹. Width of bars is starting market cap in \$

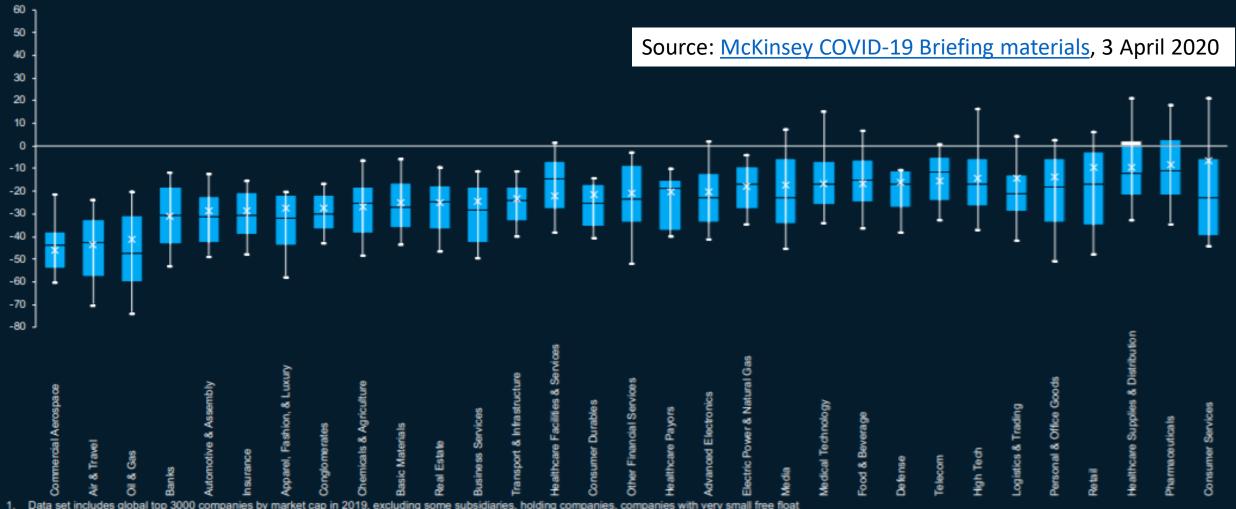


1. Data set includes global top 3000 companies by market cap in 2019, excluding some subsidiaries, holding companies, companies with very small free float and companies that have delisted since

Source: Corporate Performance Analytics, S&CF Insights, S&P Global

Even within sectors, there is significant variance between companies

Distribution of year-to-date total shareholder returns by industry percent¹



 Data set includes global top 3000 companies by market cap in 2019, excluding some subsidiaries, holding companies, companies with very small free float and companies that have delisted since

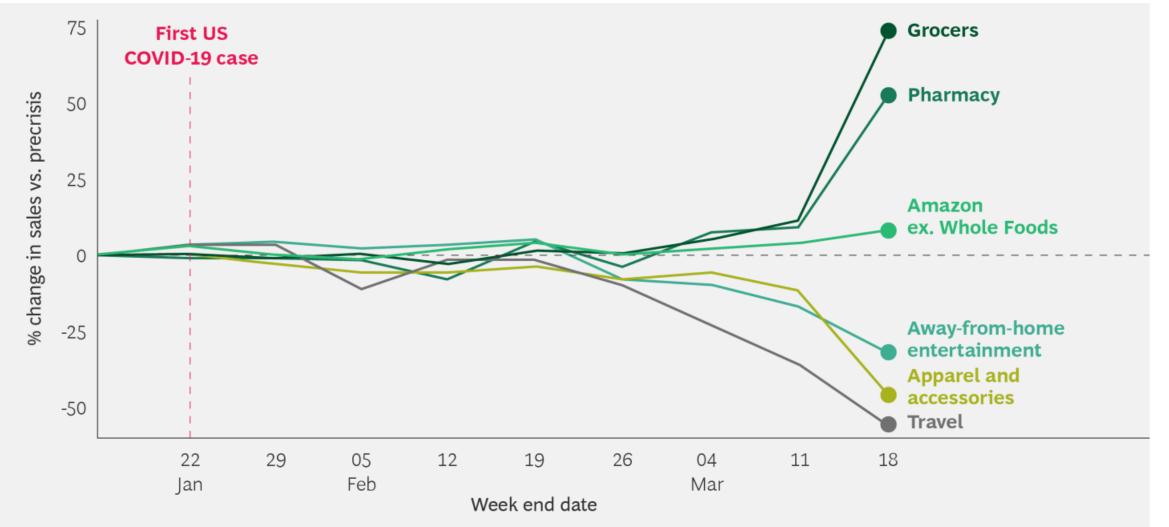
Source: Corporate Performance Analytics, S&CF Insights, S&P Global

Current as of April 2, 2020

Median x Weighted Average

Inter-guartile range 🛛 🛏 90% percentile range

Shifts in U.S. purchasing patterns as the COVID-19 outbreak intensifies

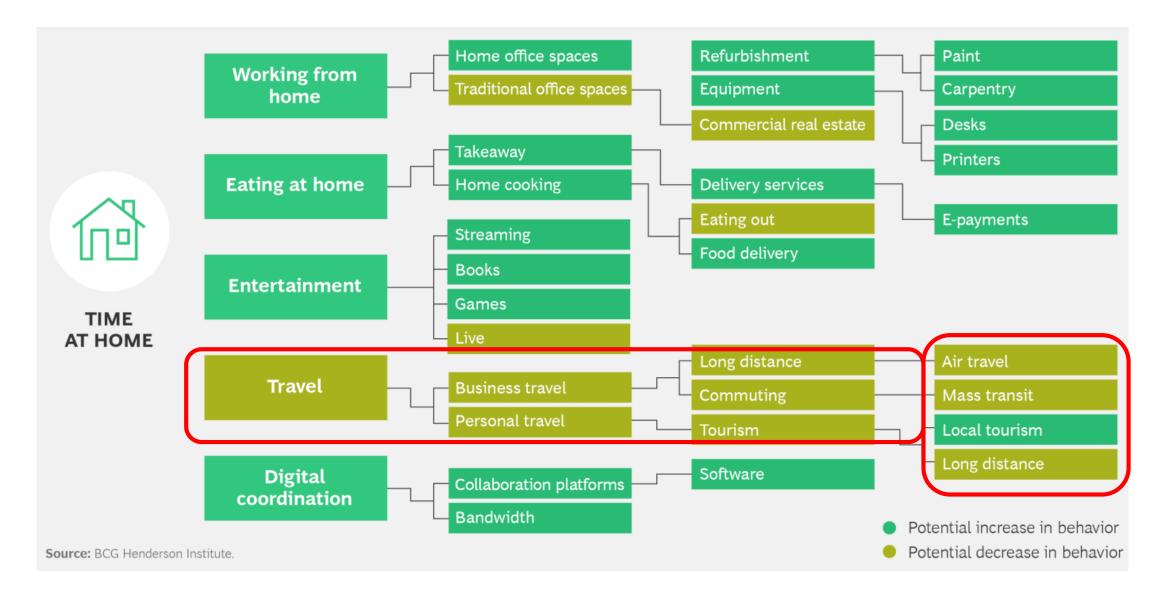


Source: Earnest Research credit card data as of 3/18/2020 and BCG estimates; BCG GAMMA analytics.

Source: Sensing and Shaping the Post-COVID Era, April 3, 2020

By Martin Reeves, Philipp Carlsson-Szlezak, Kevin Whitaker, and Mark Abraham, BCG Henderson Institute

Potential implications of spending more time at home



Source: Sensing and Shaping the Post-COVID Era, April 3, 2020

By Martin Reeves, Philipp Carlsson-Szlezak, Kevin Whitaker, and Mark Abraham, BCG Henderson Institute

Example of market information on COVID-19 in the public domain

Early April 2020



Observatory on border crossing status due to COVID-19



The Observatory was opened on 26 March 2020; find it HERE

Supported by the:

UNECLAC, United Nations Economic Commission for Latin America and the Caribbean

UNESCAP, United Nations Economic and Social Commission for Asia and the Pacific

UN ESCWA, United Nations Economic and Social Commission for Western Asia

ECO Secretariat, the Economic Cooperation Organization

IRU, the International Road Transport Union











Selected examples of market intelligence gathering on COVID-19 in the public domain:

- <u>DHL Ocean freight market update</u>, April 2020
- **BIMCO Market Analysis**, April 2020 (Maritime shipping)
- IATA, April 2020 (Air transport)
 - IATA especially on <u>Air passenger transport</u>, 2 April 2020 update
- **Bolloré** generally on logistics markets, update 15 April 2020
- <u>Statista</u> on Transportation & Logistics; (Constant updates)
- <u>Saloodo</u> on Transportation & Logistics; (Constant updates)

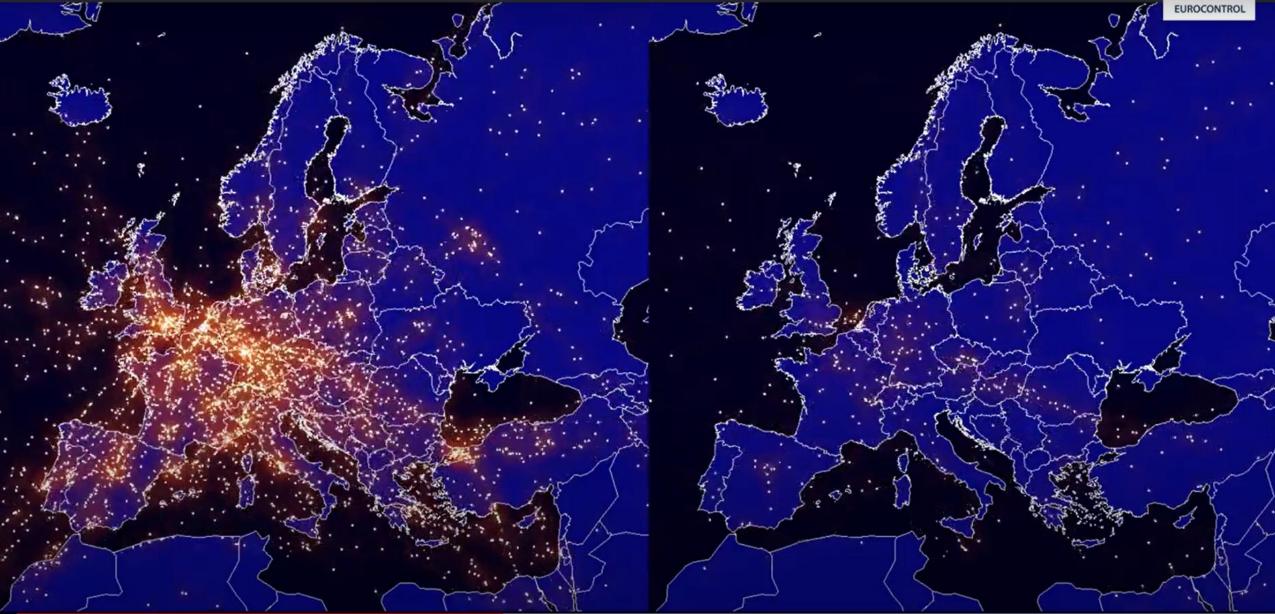
The impact on European flight volumes in the ECAC airspace by <u>Eurocontrol</u> Air Traffic data

Sunday 31 March 2019 vs. Sunday 29 March 2020



Sunday 29 March 2020





The impact* on worldwide shipping by MarineTraffic data

*) The point is = the impact is minor

Situation as per 8.24 am (UTC), 23 April 2020

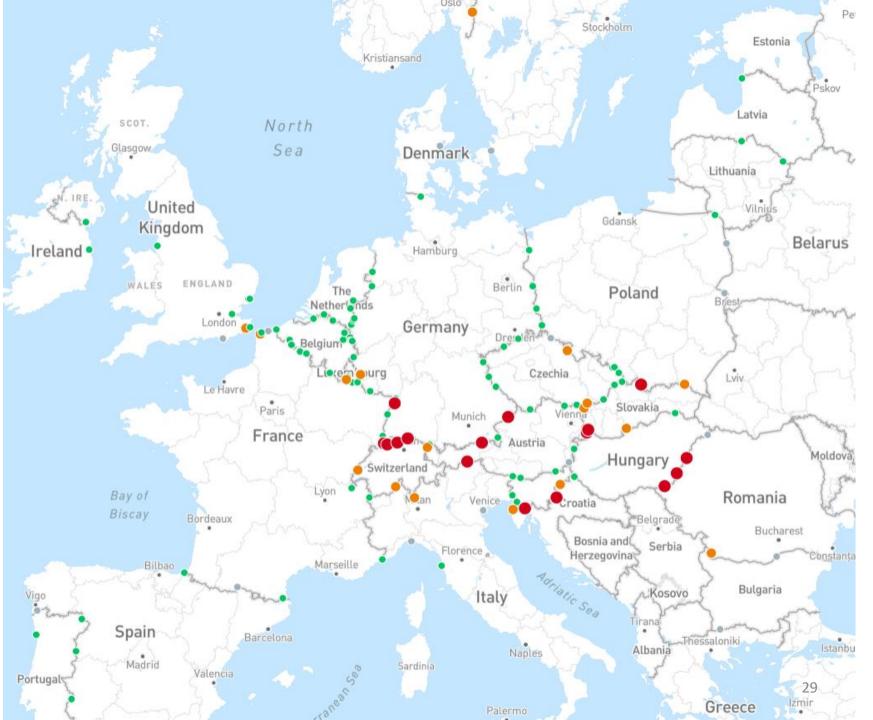


Road freight transport congestion at European borders somewhat increasing in Central Europe, but mostly free of major slow-downs

Situation as at Sun 9 Apr 2020 11:37 (CET)

Real-time updates available at (public domain):

https://covid-19.sixfold.com/



Road freight transport congestion at European borders:

mostly free of major slow-downs

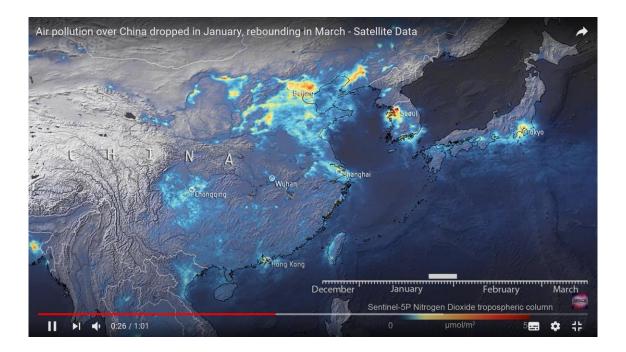
Situation as at Thu 23 Apr 2020 12:05 (CET)

Real-time updates available at (public domain):

https://covid-19.sixfold.com/



The impact on atmospheric NO_x density in parts of East Asia from December 2019 to March 2020 based on satellite data



Watch a 1-minute video here

Some useful sites to follow

Repository of International Organizations' COVID-19 websites

EUROPEAN COMMISSION

- <u>Guidance on Customs issues related to the COVID-19 emergency</u>
- Practical solutions, given by the current legal framework, to ensure a uniform application of the Union Customs Code (UCC)

INTERNATIONAL MONETARY FUND (IMF)

- Policy responses to COVID-19
- This policy tracker summarises the key economic responses governments are taking to limit the human and economic impact

WORLD BANK GROUP (WBG)

- Managing Risk and Facilitating Trade in the COVID-19 Pandemic
 <u>Guidance for developing and least developed countries</u> on best practices to facilitate the free flow of goods and manage risk
- <u>World Bank Group and COVID-19 (coronavirus)</u>
- Latest news on the World Bank's response and COVID-19 situation.

ORGANIZATION FOR COOPERATION AND ECONOMIC DEVELOPMENT (OECD)

- <u>Tackling coronavirus (COVID-19): Contributing to a global effort</u>
- <u>A comprehensive analysis</u> of the impacts and consequences of the coronavirus pandemic on our lives and our societies and some of the solutions we can find to boost our healthcare systems, secure our businesses, maintain our jobs and education, and stabilise financial markets and economies.

Repository of Int'l Transport Organizations' COVID-19 websites

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

- Action cargo: COVID-19
- The air cargo industry's <u>response</u> to the COVID-19 crisis
- Air Cargo Essential to Fight Against COVID-19

Key <u>recommendations</u> for governments to support the air cargo industry and keep essential goods moving.

INTERNATIONAL MARITIME ORGANIZATION (IMO)

- <u>Coronavirus pandemic (COVID-19)</u>
- <u>Advice</u> for IMO Member States, seafarers and the shipping industry.
- <u>Coronavirus (COVID-19) Preliminary list of recommendations for governments and relevant national authorities on the facilitation of maritime trade during the COVID-19 pandemic</u>
- <u>Preliminary recommendations</u> to assist governments and their relevant national authorities to take a pragmatic and practical approach to facilitating shipping and port operations during the COVID-19 pandemic.

INTERNATIONAL ROAD TRANSPORT UNION (IRU)

- <u>COVID-19: how some countries around the world are supporting road transport</u>
- <u>Overview of the best practices</u> in how national governments are ensuring the continuity of road transport for the supply of essential everyday goods.
- ITF (International Transport Forum at the OECD) ; Road Transport Platform: Covid-19 Information

See also: Global Alliance for Trade Facilitation 34

Repository of selected UN Special Agencies' COVID-19 websites

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT (UNCTAD)

- <u>Coronavirus (COVID-19): News, Analysis and Resources</u>
- Latest monitoring of the effects of the global pandemic <u>on manufacturing, trade, foreign direct investment and</u> <u>economic growth</u>.

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE (UNECE)

- Observatory on Border Crossings Status due to COVID-19
- Information on travel restrictions and border shutdowns by country.

WORLD HEALTH ORGANIZATION (WHO)

- <u>World Health Organization Situation Reports</u>
- <u>Daily updates</u> on the COVID-19 situation around the world, including information on confirmed cases and deaths.

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS (FAO)

- Novel Coronavirus (COVID-19)
- Overview of the potential impact of COVID-19 on people's lives, livelihoods, global food trade and supply chains

INTERNATIONAL PLANT PROTECTION CONVENTION (IPPC)

• Key messages on plant health and COVID-19 for the global phytosanitary community.

Repository of selected Trade Bodies' COVID-19 websites

See also: Global Alliance for Trade Facilitation

WORLD TRADE ORGANIZATION (WTO)

- COVID-19 and world trade
- <u>Latest trade-related information</u> including relevant notifications by WTO members, the impact the virus has had on trade and how WTO activities have been affected by the pandemic.

WORLD CUSTOMS ORGANIZATION (WCO)

- <u>COVID-19 WCO Updates</u>
- Useful information on the instruments, tools, initiatives and databases that can help WCO Members worldwide
- <u>Temporary export control measures adopted by Members</u>
- A list of countries that have adopted temporary export restrictions on certain <u>categories of critical medical supplies</u>
- <u>Temporary import support measures adopted by Members</u>
- A list of countries that have adopted temporary import support (lowering or waiving of direct and indirect duties and taxes) on <u>certain categories of medical supplies</u> in response to COVID-19.
- What Customs can do to mitigate the effects of the COVID-19 pandemic
- Best practices in facilitating the <u>cross-border movement of relief and essential supplies</u>.

INTERNATIONAL TRADE CENTRE (ITC)

- Supporting small businesses through the COVID-19 crisis
- Insights and guidance to small businesses searching for ways to cope with the operational stress of COVID-19. ³⁶

Some useful sites to follow on COVID-19 response and info:

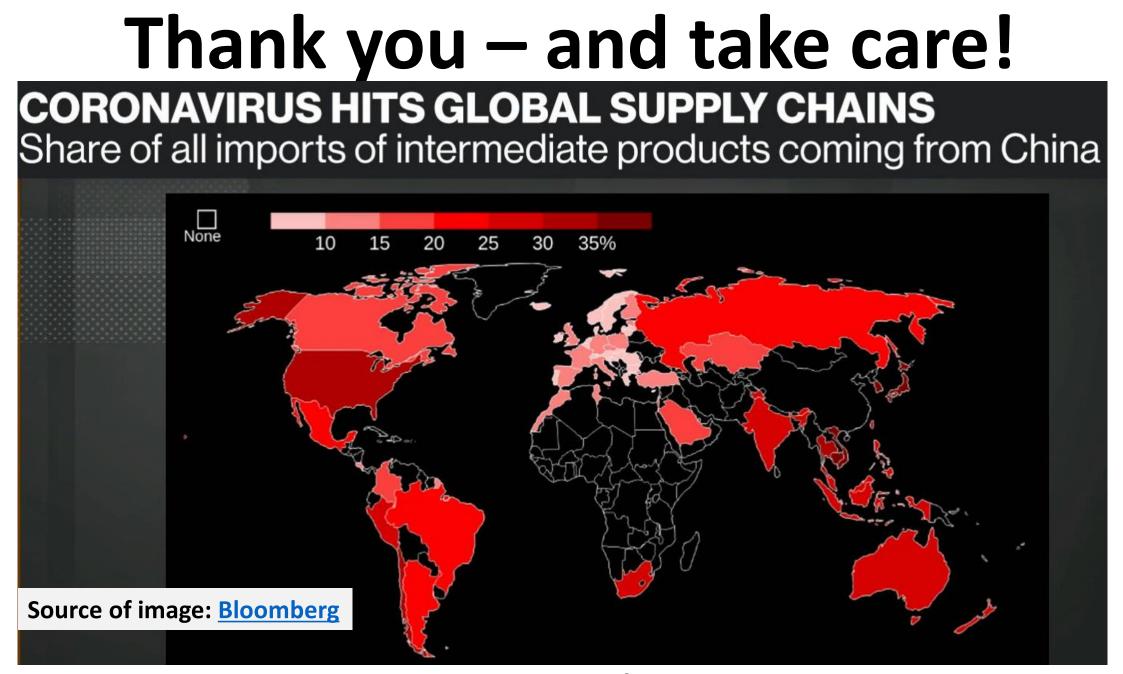
- Selected UN Agencies on COVID-19:
- <u>IMO</u> <u>ICAO</u> <u>UNECE</u> (Europe) <u>UNESCAP</u> (Asia Pacific)
 - <u>UNECE Observatory on Border Crossings</u> due to COVID-19 launched on 26 March 2020
- **EU Mobility and Transport** (European Commission)
 - European Maritime Safety Agency EMSA listings on MS actions
- Impacts on road haulage by <u>IRU</u>
- Aviation industry by IATA: <u>https://www.iata.org/en/</u>
- **Baltic Sea Ports and Shipping** by BPO (30 March 2020)

Major logistics firms on COVID-19 (updated constantly):

- <u>DB Schenker</u> <u>DHL</u> <u>DSV</u> <u>CEVA</u> <u>UPS</u> <u>FedEx</u>
- Wilhelmsen COVID-19 Global Port Restrictions Map (a very good one!)
- Bolloré COVID-19 IMPACT UPDATE March 27th, 2020
- Kuehne & Nagel <u>https://www.kn-portal.com/updates_on_coronavirus</u>
- Maersk: <u>https://www.maersk.com/stay-ahead</u>
- Ti Coronavirus March 2020 updates
- Zipline Logistics, 2020 Q2 Freight Market Update, 24 March 2020

Selected sources

- <u>DHL Ocean freight market update</u> (March 2020)
- Hybrid CoE (2019) <u>HANDBOOK ON MARITIME HYBRID THREATS</u> 10 Scenarios and Legal Scans
- <u>IATA</u> (24 March 2020) *Deeper Revenue Hit from COVID-19*
- McKinsey (<u>25 March 2020</u>)
- McKinsey (16 March 2020) <u>COVID-19 Briefing Note</u>
- <u>UNCTAD</u> (26 March 2020) *Coronavirus could cut global investment by 40%*
- <u>WEF a)</u> (March 2020) , World Economic Forum
- <u>WEF b</u> (23 March 2020), *How China can rebuild global supply chain resilience after COVID-19*
- <u>WTO</u> (2020) World Trade Statistical Review 2019



-Lauri