

Treatment approach

Treatment approach / research	
Dexamethasone (low-cost steroid treatment)	June 16: The UK RECOVERY trial (11'500 patients - Randomised Evaluation of Covid-19 multiple therapies) demonstrated that
* First drug shown to reduce mortality *	dexamethasone reduces death by up to one third in hospitalised patients with severe respiratory complications of Covid-19
Remdesivir - antiviral (Gilead)	- June 29: Remdesivir will be priced at \$390 per vial (\$2'340 for a 5-day treatment) for governments in developed countries
* The drug shortens time to recovery by 4 days *	- June 13: Dr Reddy's has into a non-exclusive Licensing Agreement with Gilead that will grant Dr Reddy's the right to register, manufacture
	and sell remdesivir in 127 countries (in developing countries)
	- Gilead has donated the 1st wave of production (more than 280'000 treatment assuming a 5-day treatment duration)
	- Gilead has set a goal of producing at least 500'000 treatment by October and 1mio by December (assuming a 10-day treatment duration)
	- Antivirals should work best in recently infected patients (with viral load) and not in very late-stage of the disease caused by cytokine
	release sydrome (hyperinflammation)
Convalescent Plasma (CP)	- October 23: According to study (conducted in India) published in BMJ the treatment with convalescent plasma did not reduce the progression to
	severe disease or death - According to STAT news, some experts are pointing out that the CP treatment was administered possibly too late in the
	course of the disease or that the antibodies levels in plasma were too low - Data adds to the debate
	- August 23: FDA issued Emergency Use Authorization (EUA) in hospitalized patients based on early data from Mayo Clinic showing
	37% reduction in mortality at 7 days in patients treated with high titer convalescent plasma vs patients treated with low titer convalescent
	plasma - Convalescent plasma should not be considered as a new standard of care - Given that the clinical evidence supporting this authorization
	was not obtained from a large prospective, well-controlled randomized clinical trials (no placebo arm), additional data are needed to evaluate
	efficacy and safety profile
	- Plasma transfusion from recovered patients for critically ill patients - Clinical studies ongoing worlwide
	- This therapy was successfully used in the treatment of SARS, MERS and 2009 H1N1
Neutralizing Monoclonal Antibody	For prevention and treatment of mild-to-moderate Covid-19 - Monotherapy or combination of two neutralizing antibodies
Eli Lilly	- LY-CoV555 - FDA issued EUA for the treatment of mild-to-moderate Covid-19 in adults and pediatric (12 years of age and older, weighing at least
* The drug showed risk reduction of hospitalization and	40kg) patients - The product is not authorized for patients who are hospitalized or require oxygen therapy due to Covid-19
emergency room visits *	Oct 28: The trial evaluating LY-CoV555 in hospitalized patients (at the advanced stage of disease) has been halted due to safety concerns - The other trials in patients with mild-to-moderate Covid-19 are not affected by this decision
	Oct 8: Lilly reported phase II interim data evaluating two neutralizing antibodies (LY-CoV555 + LY-CoV016) in recently diagnosed patients - Data
	showed relative risk reduction of 85% of hospitalization and emergency room visits vs placebo
Regeneron/Roche	- REGN-COV2 - Oct 28: First data from the ongoing phase II/III showed REGN-COV2 significantly reduced viral load and patient medical visits -
	FDA is reviewing an EUA submission for the REGN-COV2 low dose in adults with mild-to-moderate Covid-19 who are at risk for poor outcomes
	Phase II/III (2'900 participants) trials for treatment of Covid-19 + phase III (2'000 participants) trial for prevention of Covid-19
	Oct 30: The trial evaluating REGN-COV2 in the sickest hospitalized patients has been suspended because of safety concerns - It confirms the safety
	risk signal observed with LY-CoV555 in hospitalized patients (at the advanced stage of disease)
AstraZeneca	- AZD7442 (combination of two neutralizing antibodies)- Oct 9: Phase III clinical trials initiation in more than 6'000 patients

Vaccine developments 1/2

Vaccines: potential approval for a public use H1 2021/m	<u>sid-2021</u>
Company	Phase/Timing
BioNTech/Pfizer/Shanghaï Fosun	- BNT162b2 program update: first interim efficacy analyses - Efficacy of more than 90% 7 days after receiving the 2nd dose, impliying
* mRNA based vaccine *	protection 28 days after the start of the vaccination program (2 doses) - Efficacy is expected to decrease over time - EUA submission in
Two variants of BNT162 vaccine (b1, b2)	the US soon after the safety milestone is achieved which is expected in the 3rd week of November
* Front runner *	- Phase II/III safety and efficacy ongoing (44'000 participants - two injections) with BNT162b2 (showing higher efficacy than BNT162b1)
	- Supply target has been revised downwards from 100mio to 50mio doses in 2020 / more than 1.3bn doses confirmed by the end of 2021
	- The vaccine has to be stored at -70°c
Moderna	Program update: Phase III study fully enrolled with 30'000 participants - First interim analysis expected in November - Post second dose
* mRNA based vaccine *	2-month median (15'000 participants) safety data available in 2nd half of November - Plan to file for EUA in the US upon 2-month median
* Front runner *	safety data - Rolling submissions ongoing in Canada and UK and received confirmation of eligibility in the EU
	- On track to supply up to 1bn doses per year from the end of 2021 / The vaccine has to be stored at -20°c
	- The Vaccine was generally safe and well tolerated - all adverse events observed were transient and self-resolving
	- If the virus mutates, they can modify and produce the new vaccine in 40 days without redoing clinical studies
	- The vaccine could be available in fall for healthcare workers - CEO expects an approval for summer 2021 for a public use
	- mRNA based vaccine> shorter development than traditional vaccine but unproven technology at this stage
University of Oxford/AstraZeneca	- The clinical trial resumed in the US (30'000 participants) - Trials in other regions had already resumed in September
* Non-Replicating Viral Vector (Adenovirus vaccine vector)	* - Positive preliminary phase I details (543 paticipants aged 18-55 years) - efficacy data only available for 35 patients who had received a single
	injection and 10 more patients who had received two injections - neutralizing antibodies was seen in 91% participants with single injection and
	in 100% participants with two injections at a similar level to the average seen in convalescent plasma - level remaining stable between day 35
	and 42 - Immune response = vaccination elicited T-cell responses in all participants peaking at day 14 and maintained two months after injection
	AstraZeneca's CEO said the vaccine is expected to provide protection for 1 year
	- The vaccine will be distribute at cost during the pandemic phase - over 2bn doses expected between end-2020 and end-2021

- FDA guidelines proposal for an Emergency Use Authorization (EUA) for Covid-19 Vaccines:
 - Data from Phase 3 studies should include a median follow-up duration of at least two months after completion of the full vaccination regimen
 - The EUA submission will be reviewed by an Advisory Committee
- FDA held an Advisory Panel to discuss planned criteria to get initial EUA (Oct. 22): Some experts raised concerns about whether the FDA's guidelines are sufficiently rigorous to show effectiveness and safety of vaccines
- A. Fauci vaccine timeline -> 1st EUA for Covid-19 in January 2021 at the earliest / No return to normal until at least end-2021
- First EUA expected between December and January (should be restricted to certain groups) / Full FDA approval for a public use expected in Q2 2021

Vaccine developments 2/2

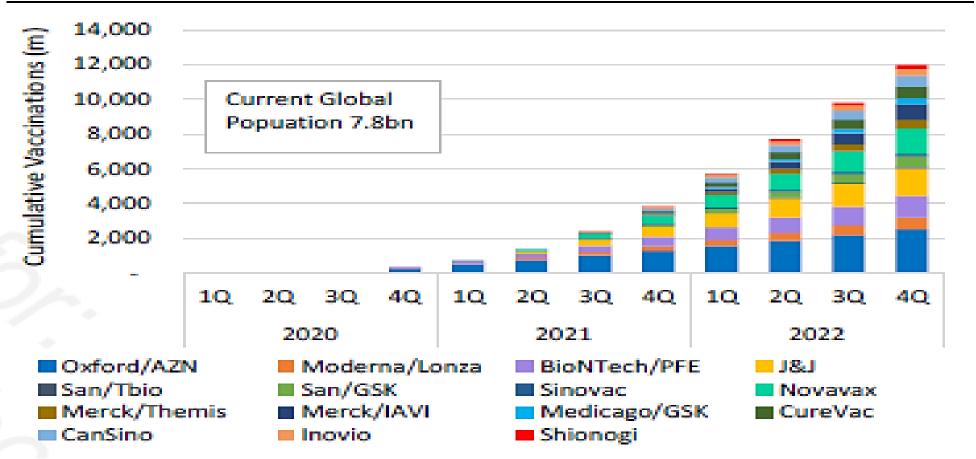
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CanSino Biologics	Phase III trial ongoing (40'000 participants) - Global multicenter trial
* Non-Replicating Viral Vector (Adenovirus vaccine vecto	r) * Phase II data (508 participants aged 18 years and older) - neutralizing antibodies at day 28 and T-cell immune responses in c. 90% of participants -
	The vaccine has been approved for limited military use in China
נאנ	- Phase III trial resumed in the US after havig been put on hold due to an unexpected illness in a study participant
* Non-Replicating Viral Vector (Adenovirus vaccine vecto	r) * - In April, CEO mentioned he expects the vaccine to be available for emergency use authorization in early 2021
	- Proven technology - Supply target of more than 1 bn doses capacity
	- JNJ is committed to bringing an affordable vaccine to public on a not-profit-basis for emergency pandemic use
Inovio	- Phase II/III efficacy trial was expected to begin in September but FDA put the development on partial hold after U.S. regulators raised questions
* DNA based vaccine *	about a delivery device used in the inoculation
	- Phase I/II> Phase I (40 participants - 2 doses) - Analyses to date have shown that 94% demonstrated overall immune response rates based on
	preliminary data assessing humoral (binding and neutralizing) and T cell immune responses - Safe and well-tolerated with no serious adverse events
	- Phase I will expand to enroll an additional 120 participants aged 19-64 years in the phase II portion
	- Target to provide at least 1mio doses in 2020 and 100mio doses in 2021
	DNA vaccine> shorter development than traditional vaccine - unproven technology at this stage
Sinovac - * Inactivated Covid-19 vaccine *	Phase III initiated in July in Brazil and in August in Indonesia - 2 doses
Novavax - * Protein Subunit vaccine *	- The company has delayed the start of the Phase III trial in the US and Mexico (30'000 participants) by more than a month until late November
	- Phase III trial initiated in the UK at the end of September - 10'000 participants between 18 and 84 years of age
	- Phase II trial ongoing - 1'500 participants with c. 50% between 60 and 84 years of age - interim data expected in Q4 2020
	- Detailed Phase I data were published - 2 doses - Neutralizing antibodies were 4x greater than the level seen in plasma of symptomatic outpatient
	but half of the level seen in plasma of hospitalized patients - Interesting data showing significant differences among convalescent plasma sample,
	depending on the severity of symptoms - No serious adverse event
	- Target to provide up to 2bn doses by mid-2021
Sinopharm	- Phase III trial ongoing in China - 2 doses
* Inactivated Covid-19 vaccine *	- Phase I/II ongoing - 1'120 participants have received 2 injections - At the middle dose, all participants developed neutralizing antibodies that can
	defend a cell from infection
CureVac (private company) - * mRNA based vaccine *	Plan to initiate pivotal Phase IIb/III before the end of 2020 (2 doses) - The vaccine can be stored at 5°c during at least three months
	Phase I safety data - The vaccine was generally well tolerated (no serious adverse event) - Over 80% of patients experienced moderate to severe
	(headache, myalgia, chills, fever) adverse events - all had resolved over 72h
GSK/Clover/Dynavax - * Protein Subunit vaccine *	Phase I clinical trial ongoing - 2 doses - Phase III study start anticipated by year end
Genexine - * DNA based vaccine *	Phase I/II clinical trial ongoing - 2 doses
Medicago Inc - * Virus-Like Particle vaccine *	Phase I clinical trial ongoing - 2 doses - Phase III study start anticipated by year end
Sanofi/GSK	Phase I/II ongoing (440 participants in the US) - First results expected in early December and Phase III trial expected to begin also in December
* Protein Subunit vaccine *	Regulatory submission could come in H1 2021
	Capacity to manufacture up to 1bn doses a year - The vaccine is likely to be priced at less than Eur 10
Sanofi/Translate Bio - * mRNA based vaccine *	Clinical trial expected to start end-2020 with a potential approval by H2 2021

- For the landscape of Covid-19 candidate vaccines, please find below the link to the draft of the World Health Organization:
- https://www.who.int/publications/m/item/draft-landscape-of-covid-19-candidate-vaccines

Vaccine capacity – «blue-sky scenario»

Reality will depend on trial success rates, capacities ramp-up, distribution challenges

Figure 7: Blue-Sky cumulative vaccinations



Source: Company PRs and capacity commentary, Credit Suisse estimates

Vaccine - survey

Who is ready to receive the vaccine?

If a vaccine for COVID-19 were available, I would get it

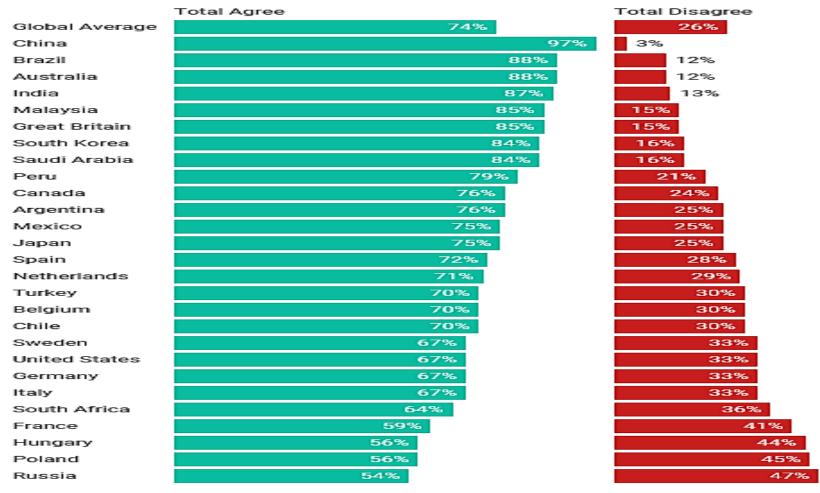
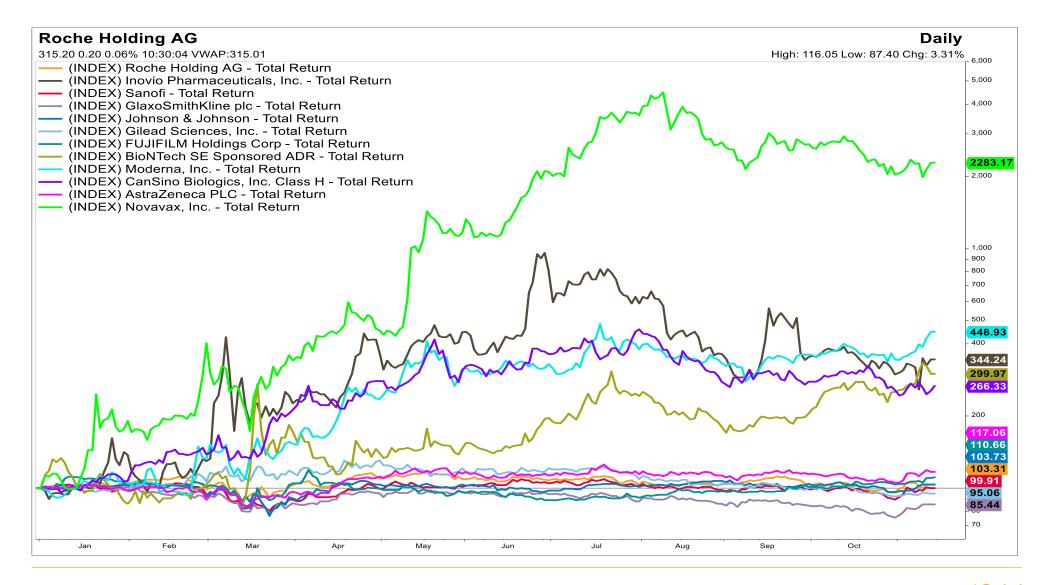


Chart: Ipsos • Source: Global Advisor • Get the data • Created with Datawrapper

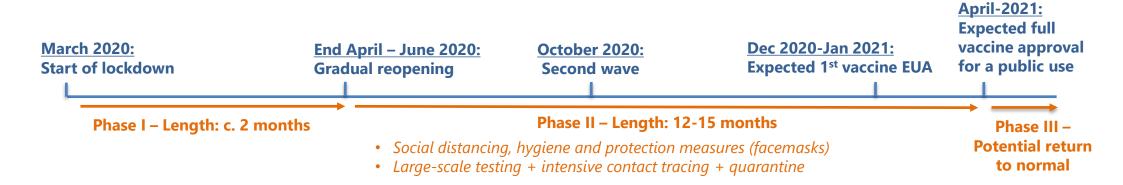
Share price performance of main players

Year to date – local currencies



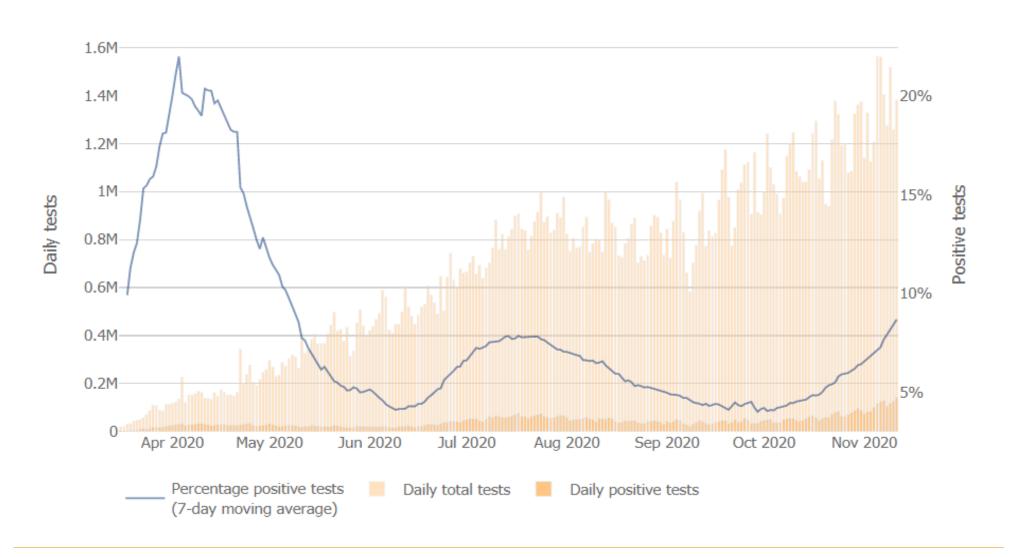
No return to normal before end-2021

Social distancing – protection measures – large-scale testing



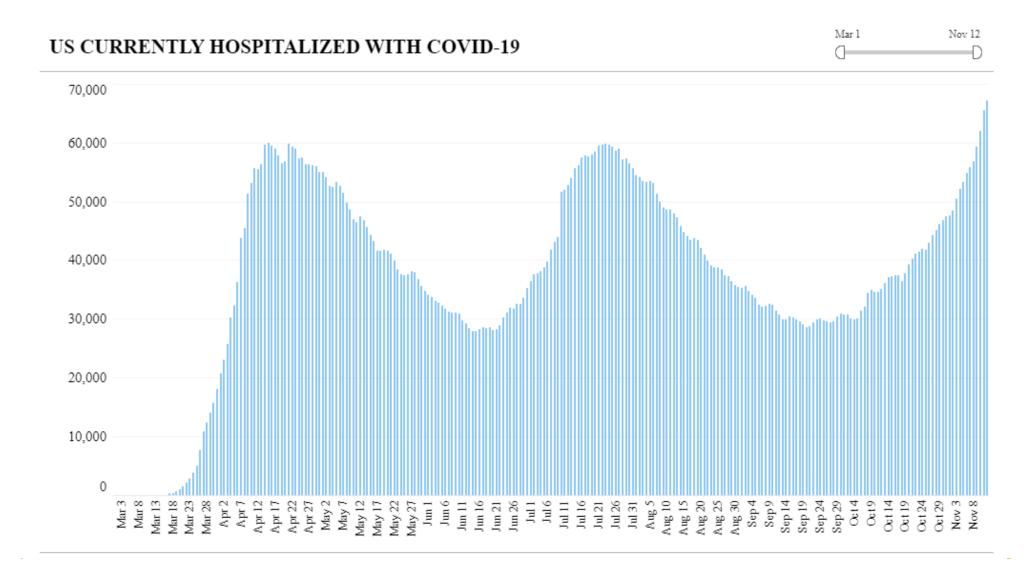
US – Daily testing tracker

Source: Johns Hopkins/The COVID Tracking Project – 12.11.2020



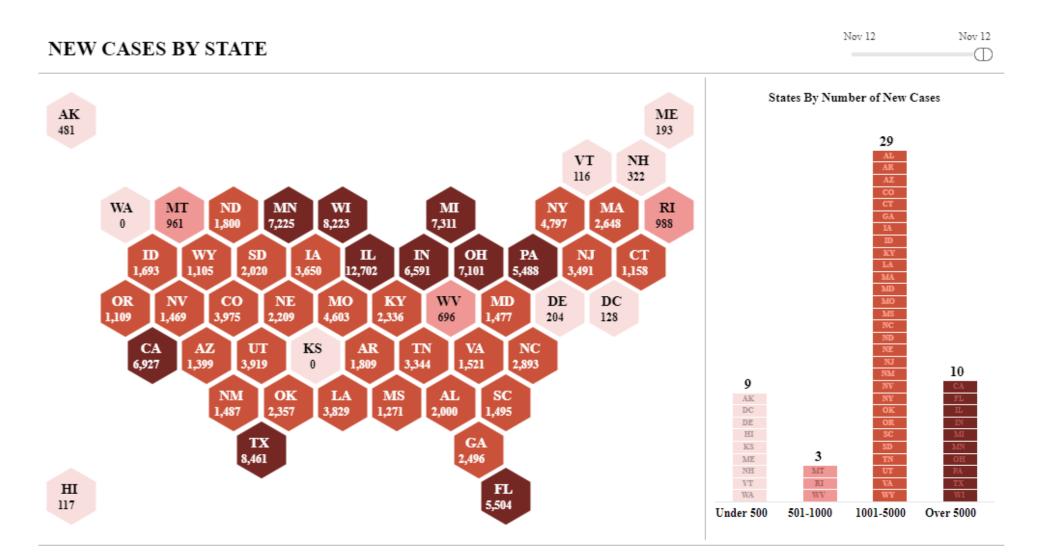
US – current hospitalization

Source: The COVID Tracking Project – 12.11.2020



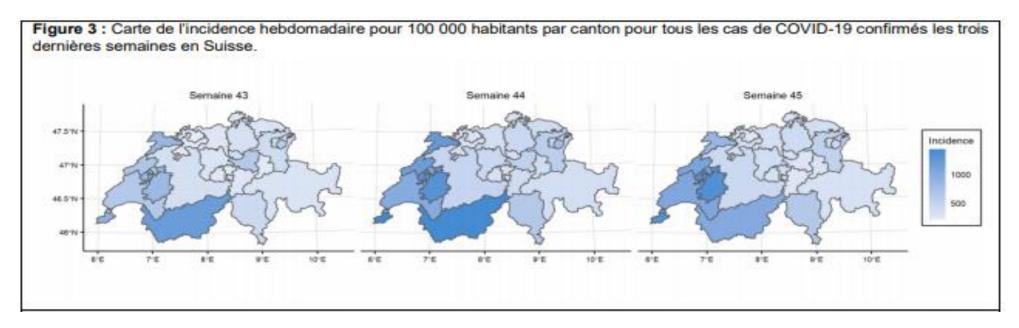
US – new cases map

Source: The COVID Tracking Project – 12.11.2020

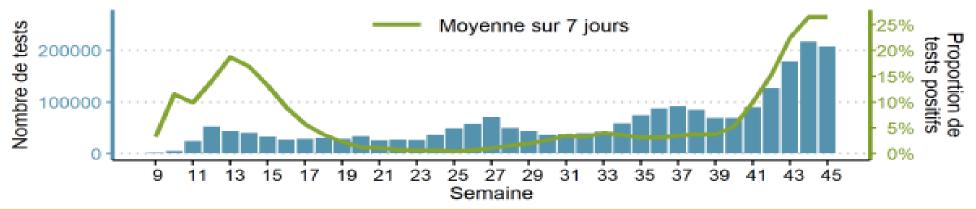


Switzerland - Cases map + weekly testing tracker

Source: OFSP - 11.11.2020







Switzerland – Weekly new cases/deaths + breakdown by age

Source: OFSP - 11.11.2020

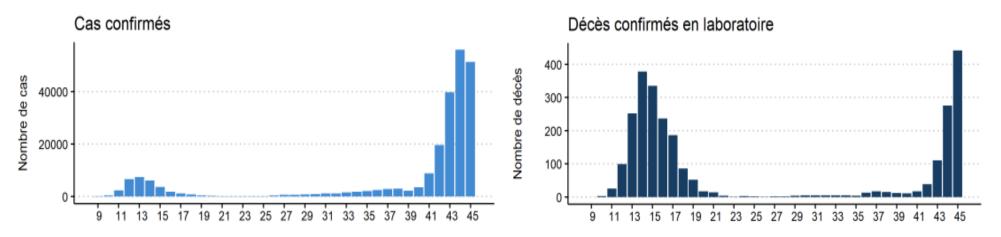
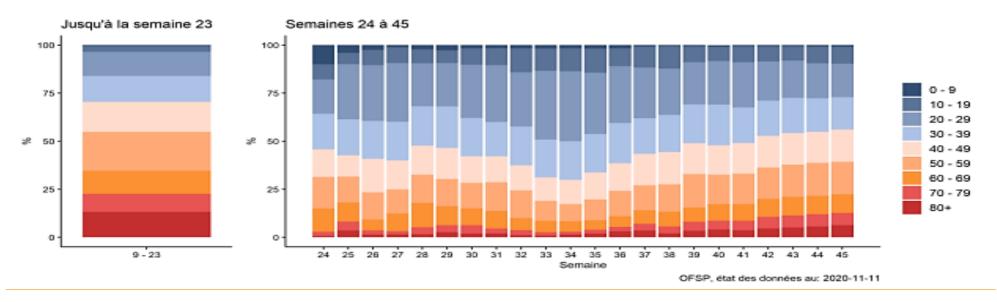
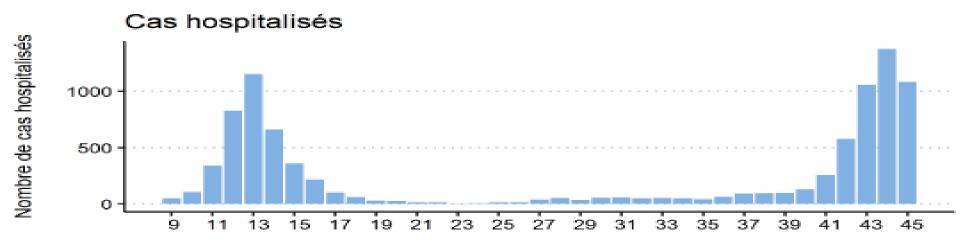


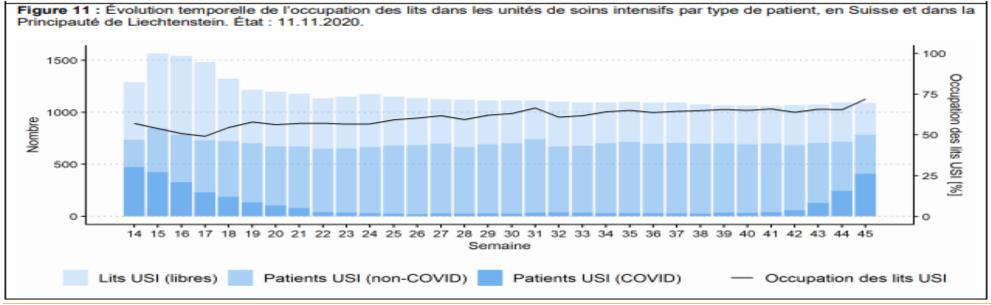
Figure 4 : Évolution temporelle de la structure par âge de tous les cas de COVID-19 confirmés en laboratoire, en Suisse et dans la Principauté de Liechtenstein.



Switzerland – Weekly hospitalization + ICU occupation

Source: OFSP - 11.11.2020

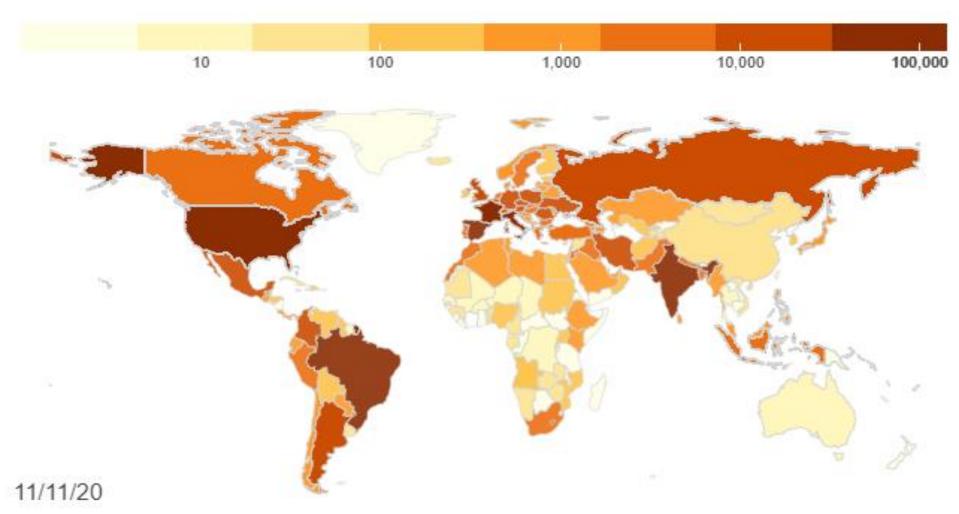




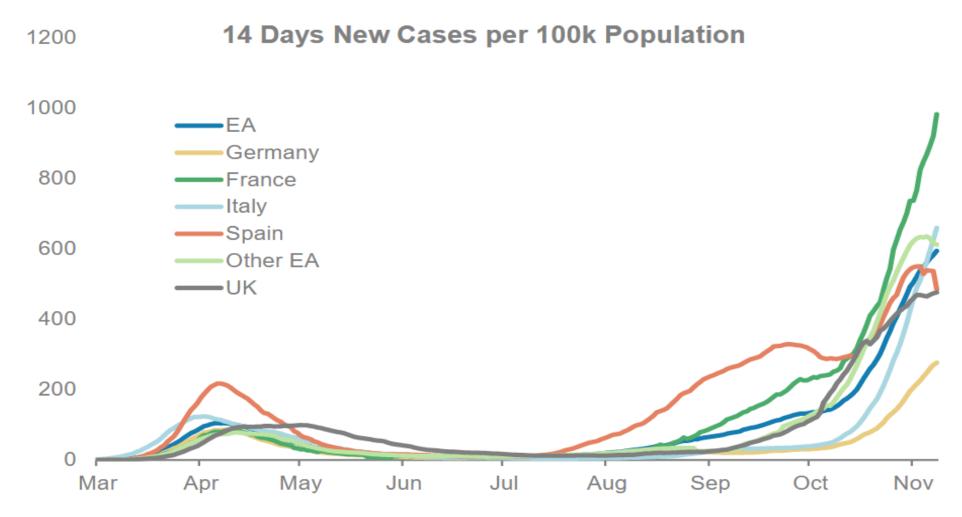
Current outbreak activity by country

Source: John Hopkins – 11.11.2020

DAILY CONFIRMED NEW CASES



Pandemic – 2nd wave



Source: WHO, Morgan Stanley Research

World - New cases

Figure 2:Change in coronavirus cases over the last seven days per 10,000 of population across major affected areas of the world

Country /Territory	ntry /Territory Cases Cases per 1D Chg. 1D Chg Cases 10K people Cases per 10K		7D Rolling Cases per 10K	Weekly ∆ Cases per 10K	Weekly Cases per 10K on August 1	7D Rolling Tests per 1K People*		
Switzerland	250,396	289	6,924	8.0	55.3	+2.6	1.3	2.9
France	1,898,710	291	33,172	5.1	45.6	-4.1	1.1	4.3
Belgium	520,393	450	12,918	11.2	45.1	-43.9	3.6	5.8
Italy	1,066,401	176	37,977	6.3	39.9	+3.5	0.3	2.6
Sweden	171,365	170	4,658	4.6	29.3	+4.9	1.4	2.4
United States	10,546,023	319	148,623	4.5	28.4	+7.1	13.4	3.5
Spain	1,437,220	307	19,511	4.2	28.0	+3.8	3.4	3.3
United Kingdom	1,293,715	191	33,517	4.9	24.6	+0.6	8.0	4.2
Netherlands	437,376	255	5,680	3.3	23.4	-11.0	1.2	
Germany	762,832	91	36,656	4.4	17.1	+2.1	0.6	2.3
Russia	1,843,678	126	21,333	1.5	9.9	+0.9	2.6	3.4
Canada	285,936	76	5,474	1.5	8.6	+2.9	0.8	3.0
Iran	726,585	87	11,517	1.4	8.5	+1.6	2.1	0.3
Brazil	5,781,582	272	33,922	1.6	7.9	+1.6	14.8	
Chile	526,438	276	1,634	0.9	5.2	+0.0	7.4	1.7
Mexico	991,835	77	5,658	0.4	3.3	+0.3	3.8	0.1
India	8,683,916	63	47,905	0.3	2.3	-0.1	2.6	0.9
Philippines	402,820	37	1,404	0.1	1.2	+0.1	1.8	0.3
Saudi Arabia	352,160	101	311	0.1	8.0	-0.1	3.6	1.5
Japan	113,655	9	1,644	0.1	0.7	+0.2	0.6	0.2
Africa	1,946,369	16	20,799	0.2	0.8	+0.1	0.9	
Worldwide	52,681,305	68	632,478	0.8	5.2	+0.3	2.4	

Source: Deutsche Bank, WHO, CDC, ECDC, JHU

Note: *Testing data is as of Oct-25 due to delays in reporting. Spain, Belgium, Switzerland and Sweden have not been releasing weekend data. Additionally, Sweden has stopped releasing the data on Monday as well. Spain's data has updated after a day's gap on JHU.

World – Changes in fatalities

Figure 3: Change in coronavirus fatalities over the last seven days per 1 million of population across major affected areas of the world

Country /Territory	Confirmed Fatalities	Fatalities per 1M	1D Chg. Fatalities	1D Chg. Fatalities per 1M	7D Rolling Fatalities per 1M	Weekly ∆ in Fatalities per 1M	Fatalities per 1M on August 1
Belgium	13,891	1,200	330	28.5	134.7	+34.5	2.4
Switzerland	3,216	372	103	11.9	67.9	+18.5	0.5
Italy	43,589	721	636	10.5	56.2	+21.9	0.7
France	42,599	653	0	0.0	53.8	+7.4	1.1
Spain	40,461	865	356	7.6	42.2	-18.7	0.3
United Kingdom	51,020	752	563	8.3	41.4	+9.5	6.7
Iran	40,121	478	457	5.4	37.3	+3.1	17.8
Netherlands	8,375	487	89	5.2	31.4	+1.4	0.5
Mexico	97,056	753	626	4.9	25.5	+2.2	31.0
United States	242,621	733	1,002	3.0	23.3	+4.4	24.1
Russia	31,755	218	429	2.9	16.9	+2.0	5.9
Chile	14,699	769	66	3.5	15.4	+0.5	26.9
Germany	12,216	146	352	4.2	14.4	+6.1	0.4
Brazil	164,281	774	913	4.3	12.1	-0.8	33.5
Sweden	6,122	606	40	4.0	11.9	+5.1	4.6
Canada	10,828	287	80	2.1	10.5	+2.4	1.5
Saudi Arabia	5,605	161	15	0.4	3.3	-0.3	5.3
Philippines	7,721	70	11	0.1	2.8	+0.5	1.3
India	128,121	93	550	0.4	2.8	+0.0	3.7
Japan	1,854	15	7	0.1	0.4	-0.1	0.1
Africa	46,626	38	399	0.3	2.0	+0.5	2.2
Worldwide	1,291,837	166	9,041	1.2	7.7	+1.0	5.3

Source: Deutsche Bank, WHO, CDC, ECDC, JHU

Note: Spain, Belgium and Sweden have not been releasing weekend data. Additionally, Sweden has stopped releasing the data on Monday as well. Spain's data has updated after a day's gap on JHU.

Tracking the economic Recovery

Based on high frequency data (daily) from external sources

- **Rise in new** cases are triggering new restrictions measures (UK, France, Switzerland, Italy, Austria...)
- **Global GDP** rebound in Q3, better than expected, will turn negative in Q4 at least in Europe
- **China** leading the global recovery, the first region to unlock its economy
 - Many activity indicators in positive territory YoY. Currently the economy in the best shape globally

US:

- Generalized improvement in consumption ex travel and movie theaters. Retail sales growth positive YoY!
- Improvement in industrial capacity utilisation has slowed
- Uncertainties on renewed/prolonged stimulus post elections could affect short term confidence

Europe:

- Electricity consumption is back on track. Retail sales growth positive YoY.
- Sentiment disappointed in October services PMI due to new restrictions in some areas. It will continue
- Unemployment, lagging indicator, has started to rise
- Mobility deteriorating due to renewed stringent measures

Global manufacturing PMI (monthly data):

- Most countries in expansion territory (>50 level) in October! Pace of improvement slowing if not disappointing (Europe) after early summer rebound. Services more impacted by new restrictions, and back below 50
- Economic surprise indices starting to decline rapidly after a peak reached during the summer. Short term rebound in Europe is not expected to last

Europe – Lockdown #2

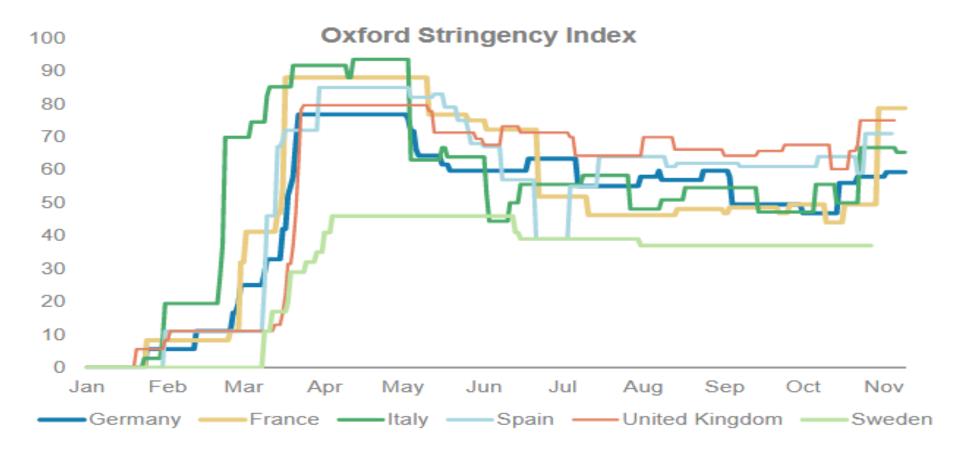
Exhibit 30: Lockdown#2: Some Key Dates and Details for the major European economies

Lockdown#2 Dates	Germany	France	Italy	Spain	UK	
Restrictions on private gatherings	14 Oct	14 Oct	25 Oct	24 Oct	09 Sep	
Restricted opening hours in hospitality	14 Oct (High risk areas)	14 Oct	16 Oct / extended 25 Oct	14 Oct (Regional)	22 Sep	
Curfew		14 Oct (9 largest cities) / extended 23 Oct	04 Nov	24 Oct		
Restrictions						
Hospitality sector	Closed with delivery/food to go allowed	Closed with delivery/food to go allowed	Regional variations - from restricted opening hours to complete closures	Regional variations - from completely shut to under curfew + capacity constraints	Closed with delivery/food to go allowed	
Construction sites	Open	Open	Open	Open	Open	
Manufacturing	Open	Open	Open	Open	Open	
Non-essential retail	Open (capacity limits in place)	Closed	Regional variations, depending on lockdown tier	Open, although regional variations on capacity limits/opening hours	Closed	
Schools & public sector services	Open	Open	Open	Open	Open	

Source: Government announcements, Morgan Stanley Research

Governments' reaction to 2nd wave

Europe more prone to implement new restictions



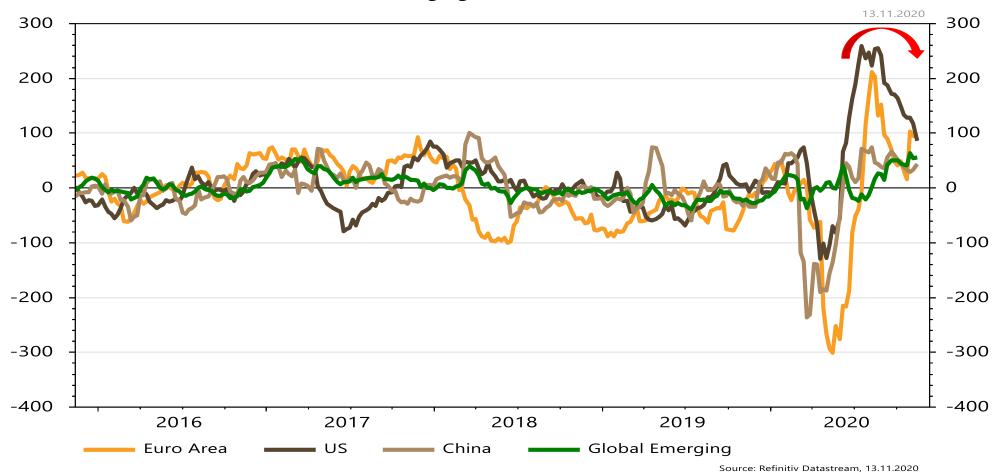
Source: Oxford University, Morgan Stanley Research

https://www.bsg.ox.ac.uk/research/research-projects/coronavirus-government-response-tracker

World – economic suprises

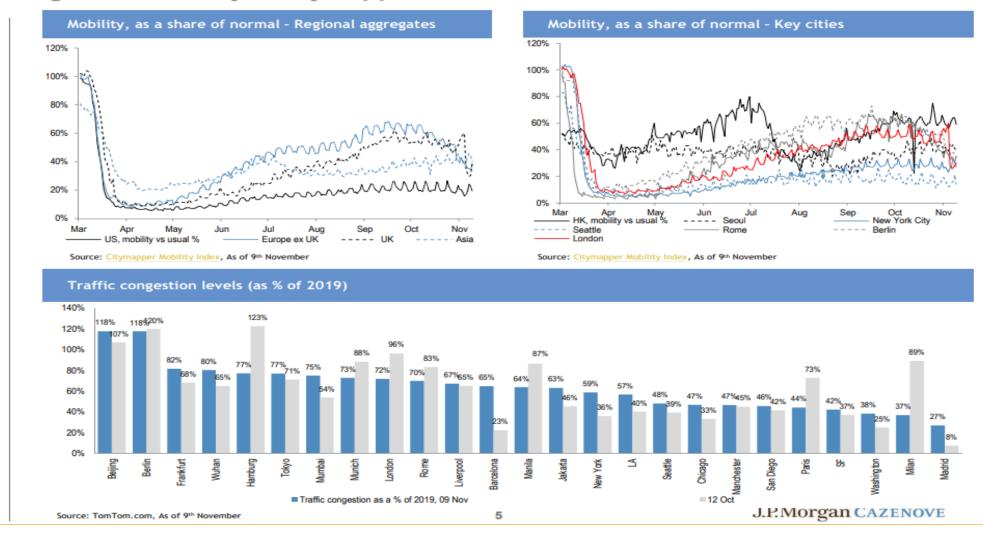
Economic Surprise Index

US - China - Euro Area - Global Emerging



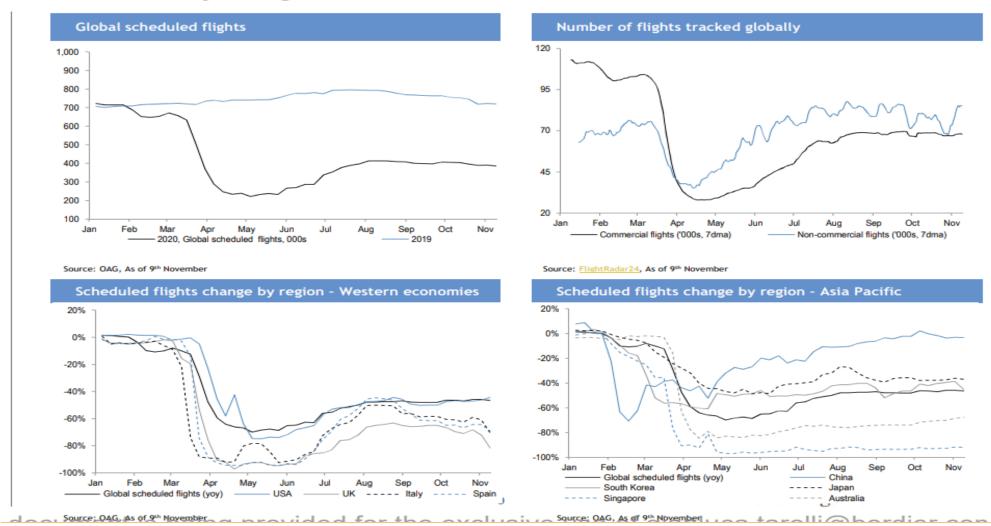
World – on-ground mobility

On-ground Mobility - Citymapper & TomTom



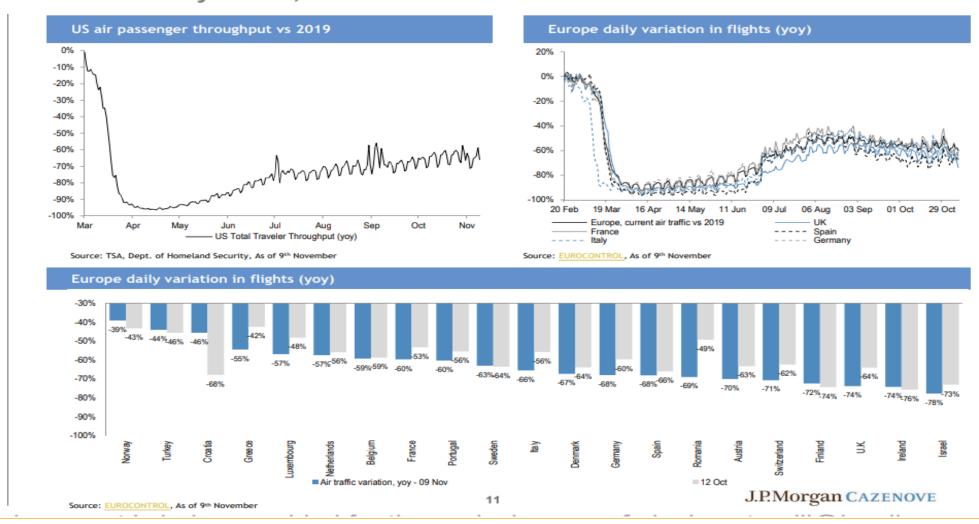
World – Air traffic

Air travel activity - FlightRadar24, OAG

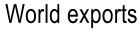


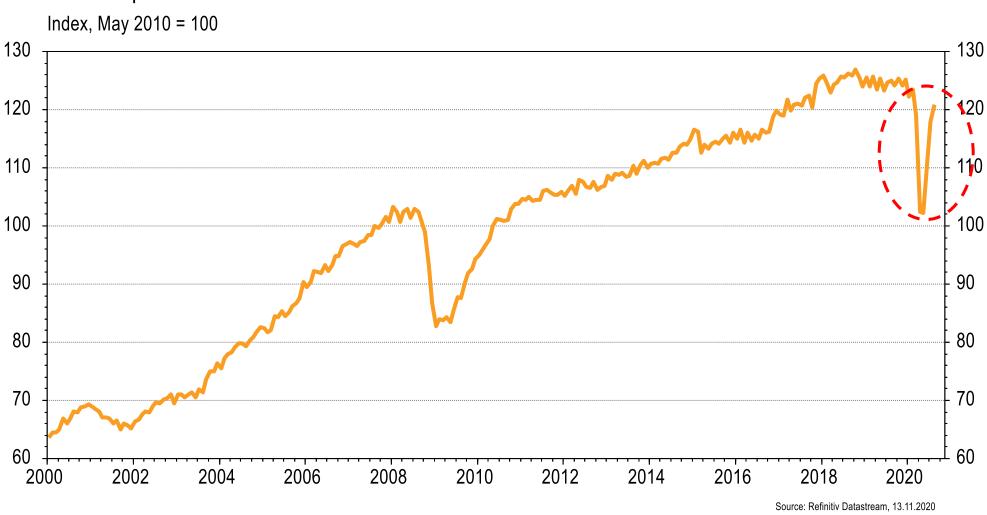
World – Air traffic

Air travel activity - TSA, EUROCONTROL



World exports





World – industrial production

Only China and South Korea (new) are back in positive growth YoY

Global manufacturing production

Twelve-month percentage changes



Source: Refinitiv Datastream, 13.11.2020

World – exports

Only China is back in postive growth YoY

France

Germany

Dec 19

Italy

(15.10.2020)(15.09.2020)(15.09.2020)(15.08.2020)(15.10.2020)(15.08.2020)(15.09.2020)(15.

Global exports

10% 5% 5% 0% -5%

South Korea

Twelve-month percentage changes in the twelve-month rolling sum

Source: Refinitiv Datastream, 13.11.2020

UK

Spain

US

-15%

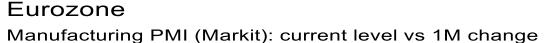
-15%

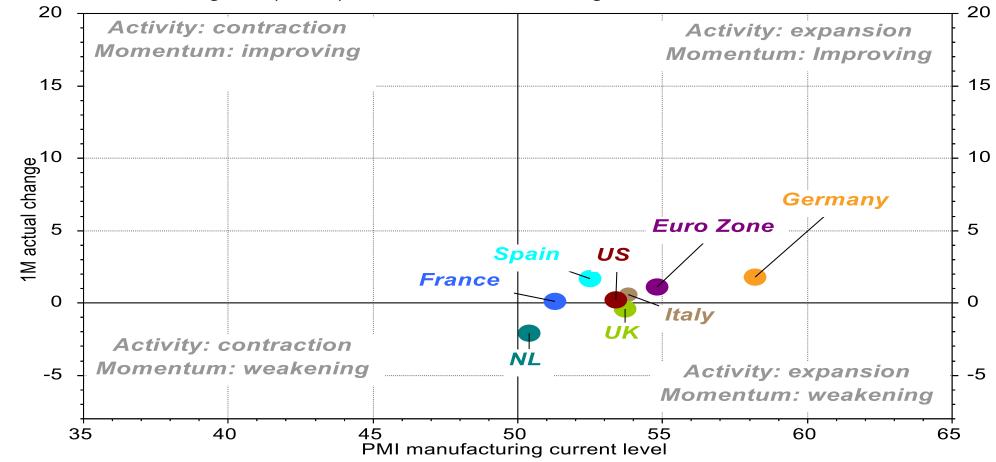
China

Latest

Manufacturing PMI – developed economies

Level vs one-month change (October vs September)





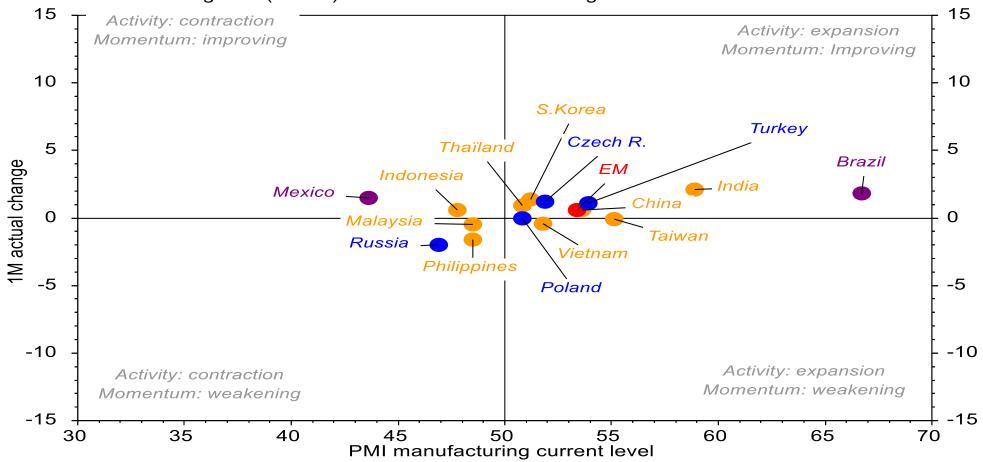
Source: Refinitiv Datastream, 13.11.2020

Manufacturing PMI – emerging economies

Level vs one-month change (October vs September)

Emerging economies

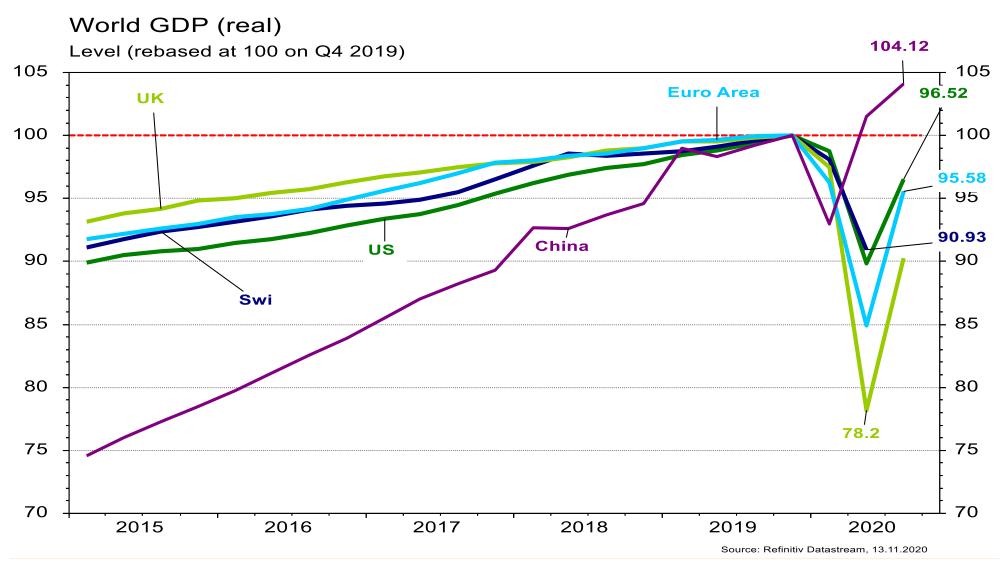
Manufacturing PMI (Markit): current level vs 1M change



Source: Refinitiv Datastream, 13.11.2020

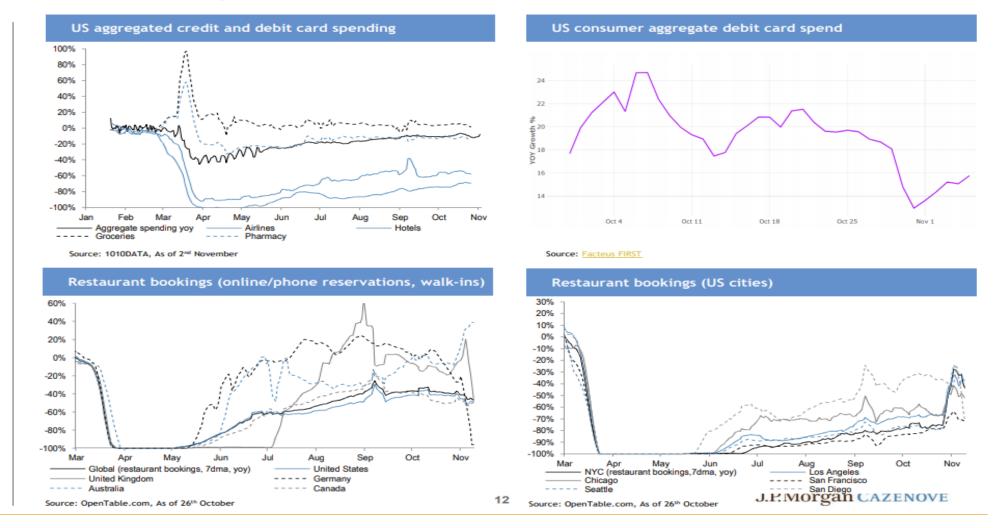
World GDP – rebound in Q3 but Q4 will be negative...

China seems out of sample...

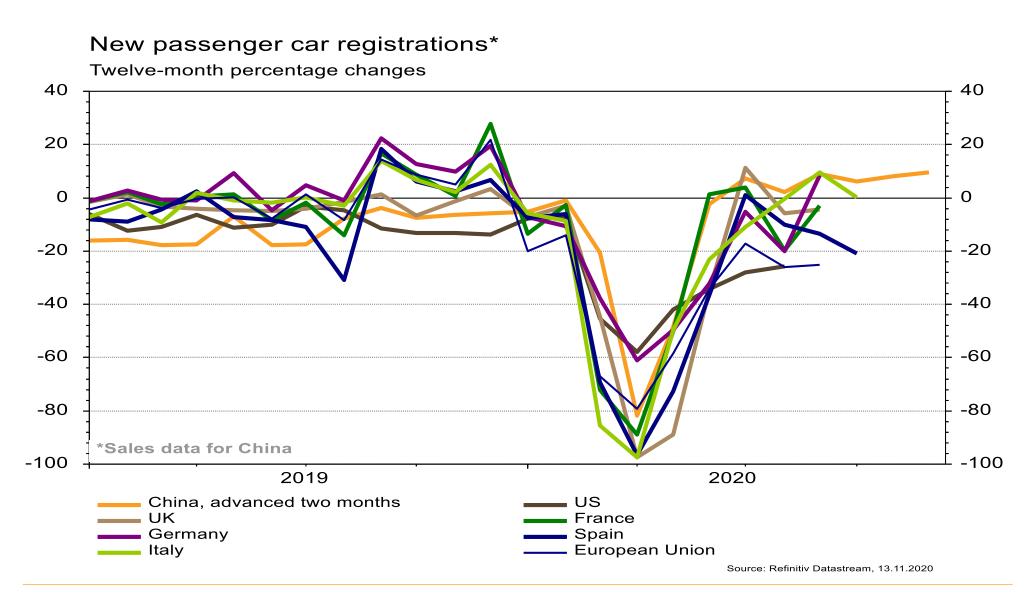


World – consumption data

Consumer activity - 1010, Facteus FIRST, OpenTable

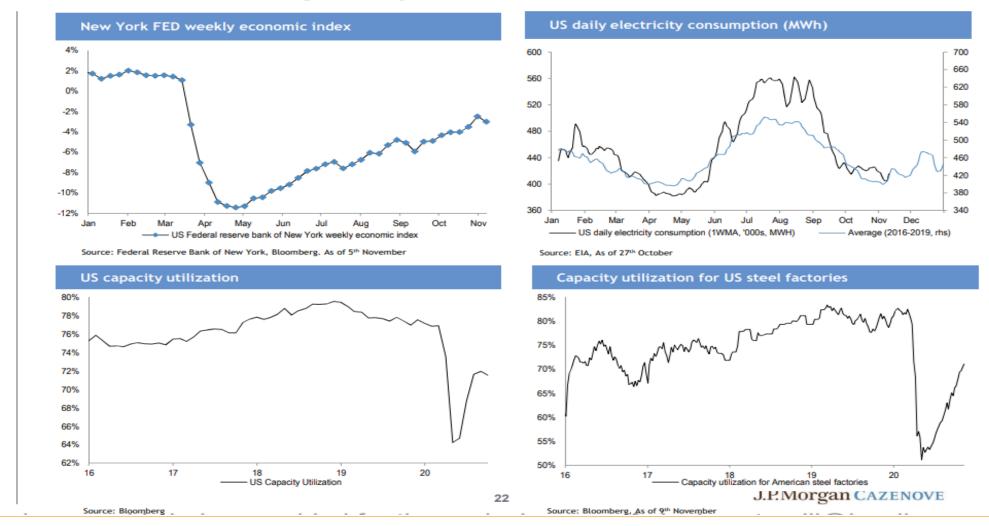


World – New passenger car registrations



US – industrial activity

Industrial/manufacturing activity - US



US – consumption

Consumer activity - Facteus FIRST US Debit Card data

	ugust 6% avg				ember 3% avg				ctober 2% avg	November -9% avg
	30	6	13	20	27	4	11	18	25	1
Retail										
Department Stores	+6	+16	+26	+16	+19	+26	+12	+17	+8	+7
Discount Stores	+30	+34	+40	+49	+35	+45	+36	+41	+37	+30
Grocery Stores & Supermarkets	+12	+14	+18	+17	+17	+21	+15	+17	+16	+14
Misc. General Merchandise	+29	+36	+29	+39	+38	+36	+27	+31	+29	+20
Variety Stores	+23	+26	+32	+34	+31	+30	+21	+22	+23	+18
Wholesale Clubs	+24	+45	+43	+56	+32	+49	+42	+45	+45	+45
Retail Average	+21	+29	+31	+35	+29	+35	+26	+29	+26	+22
Entertainment										
Amusement Parks	-64	-49	-54	-56	-53	-53	-57	-51	-46	-44
Commercial Sports & Athletic Fields	-42	-15	-32	-15	-34	-17	-24	-15	-16	-23
Fast Food Restaurants	+14	+17	+12	+14	+14	+19	+15	+15	+14	+12
Movie Theaters	-80	-84	-83	-85	-84	-87	-88	-86	-86	-85
Restaurants	+2	+7	+4	+6	+7	+12	+7	+7	+7	+1
Tourist Attractions	-27	+22	+2	+7	+7	+5	+9	+40	0	-15
Video Games	+74	+41	+20	+43	+41	+57	+83	+51	+7	+32
Entertainment Average	-18	-9	-19	-12	-15	-9	-8	-6	-17	-17
Travel										
Airlines	-60	-57	-60	-55	-53	-50	-53	-48	-36	-54
Cruise Lines	-83	-81	-85	-82	-82	-79	-87	-83	-81	-84
Lodging	-10	+4	-15	-11	-11	-4	-9	-7	-14	-21
Travel Bookings	-22	-11	-25	-21	-20	-16	-17	-18	-21	-27
Travel Average	-44	-36	-46	-42	-42	-37	-42	-39	-38	-47
Healthcare										
Drug Stores and Pharmacies	+9	+15	+39	+11	+2	+15	+10	+11	+11	+8

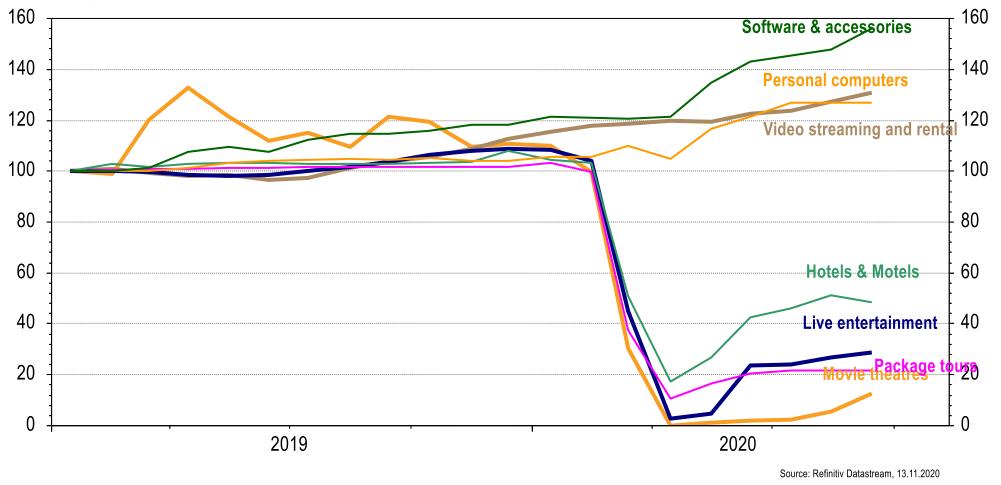
Source: Facteus FIRST

J.P.Morgan CAZENOVE

US – consumer activity

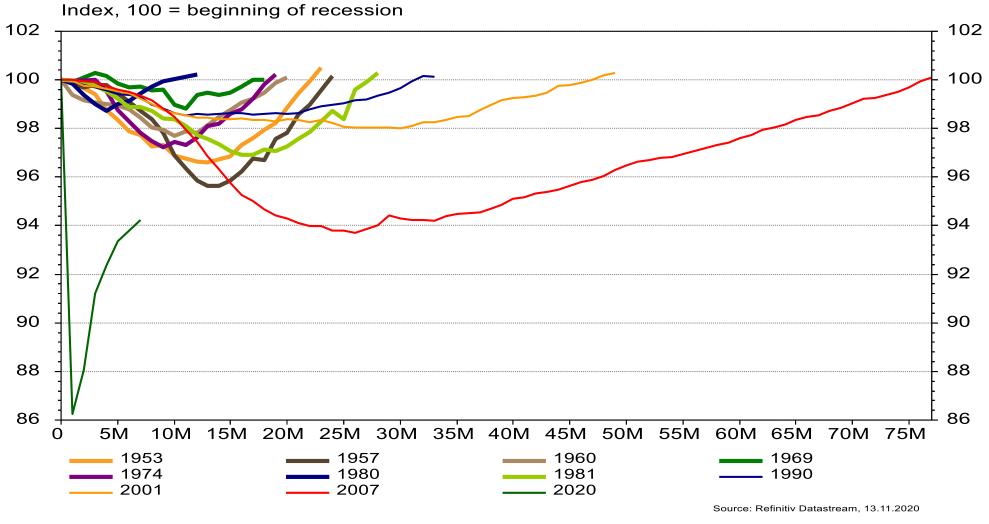
US personal consumption expenditures

Index, Jan 2019 = 100



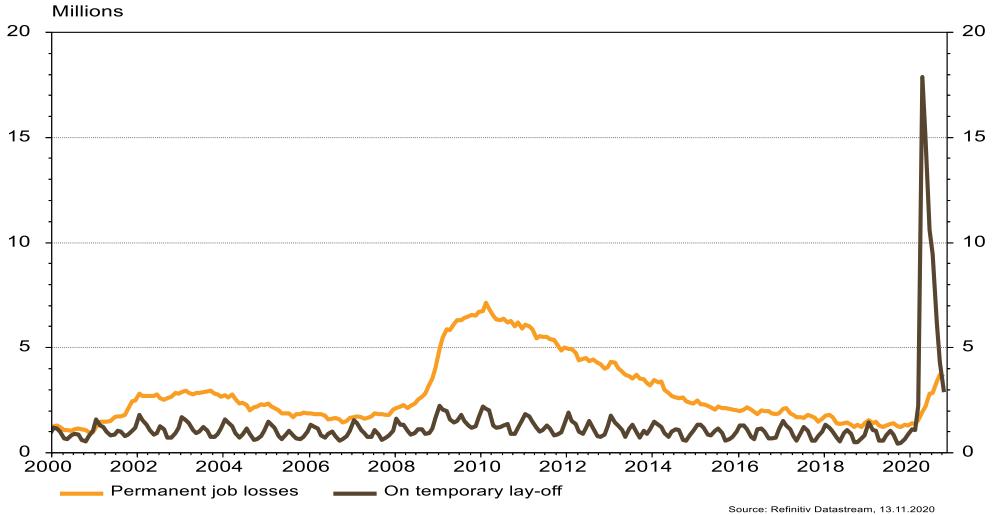
US employment – current vs previous recovery





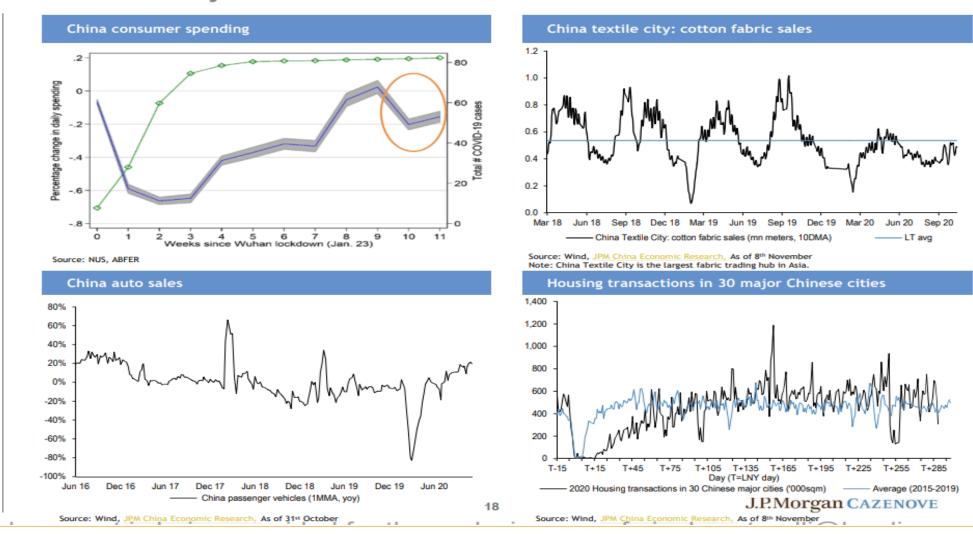
US unemployment – permanent vs temporary

US unemployment - permanent vs temporary



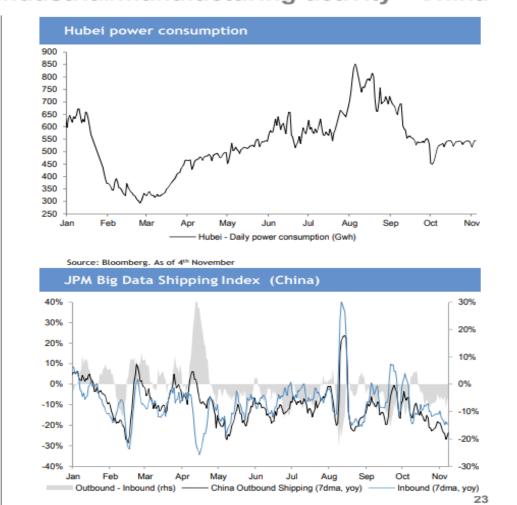
China – consumption

Consumer activity - China

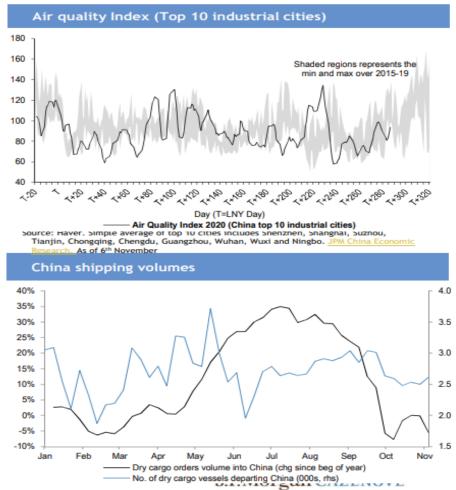


China – industrial activity

Industrial/manufacturing activity - China

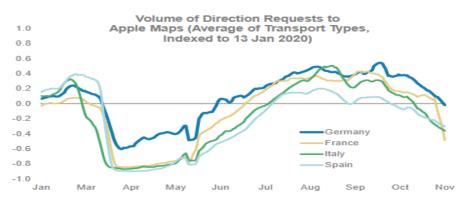


Source: J.P. Morgan, MariTrace, JPM China Economic Research, As of 8th November



Eurozone – mobility

Exhibit 16: Apple Maps Navigation requests are down sharply...



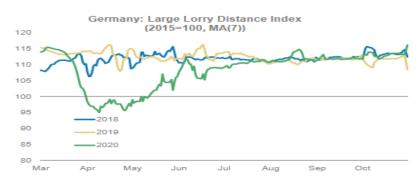
Source: Apple, Morgan Stanley Research

Exhibit 18: Air traffic in Italy and Spain has seen a small rebound recently



Source: Flightaware, AlphaWise, Morgan Stanley Research; note: we look at the 10 busiest airports in each country

Exhibit 17: ... while German lorry milage continues to move sideways



Source: Destatis, Morgan Stanley Research

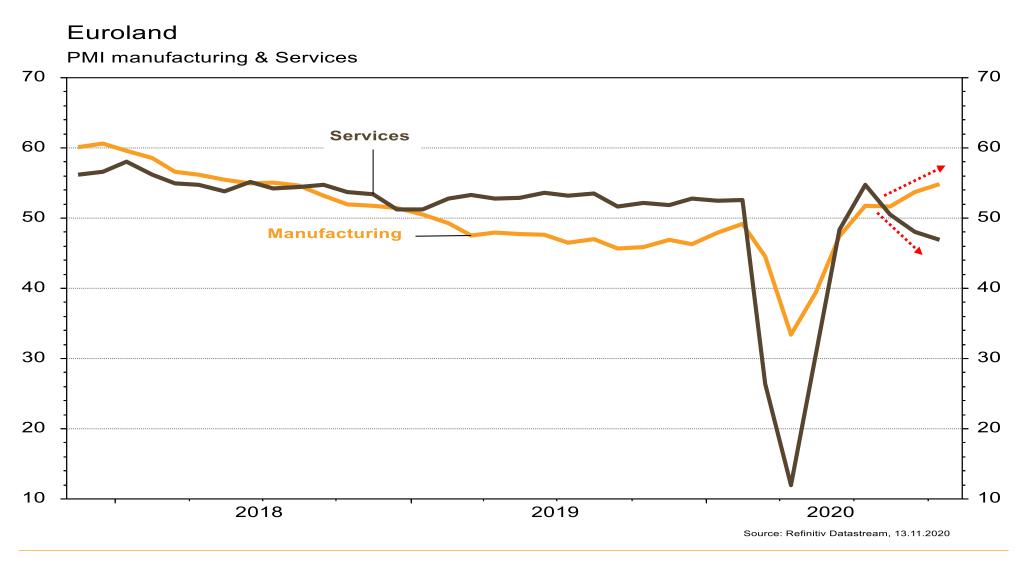
Exhibit 19: Restaurants in Germany and Ireland were shut as part of lockdowns



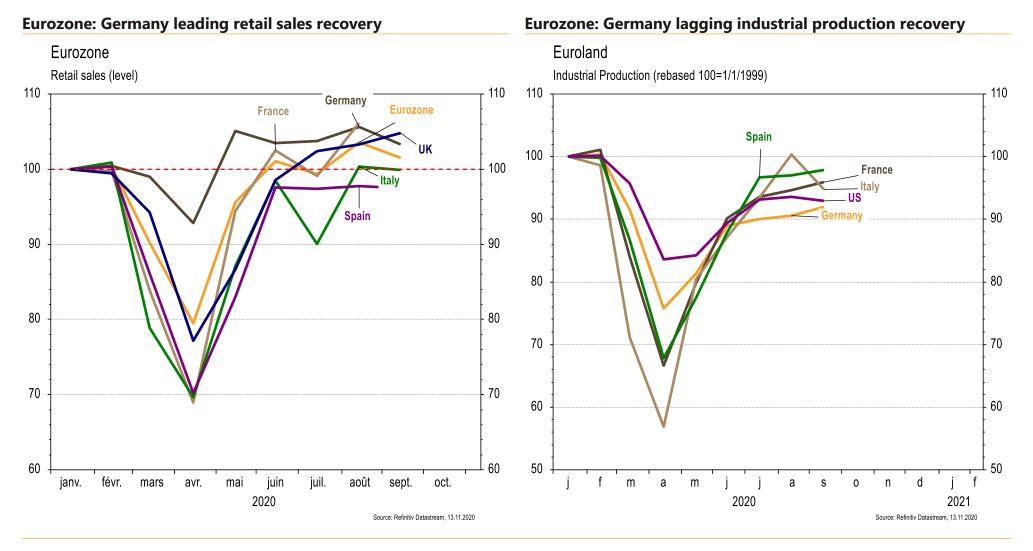
Source: Opentable, Morgan Stanley Research

Eurozone – PMI manufacturing & services

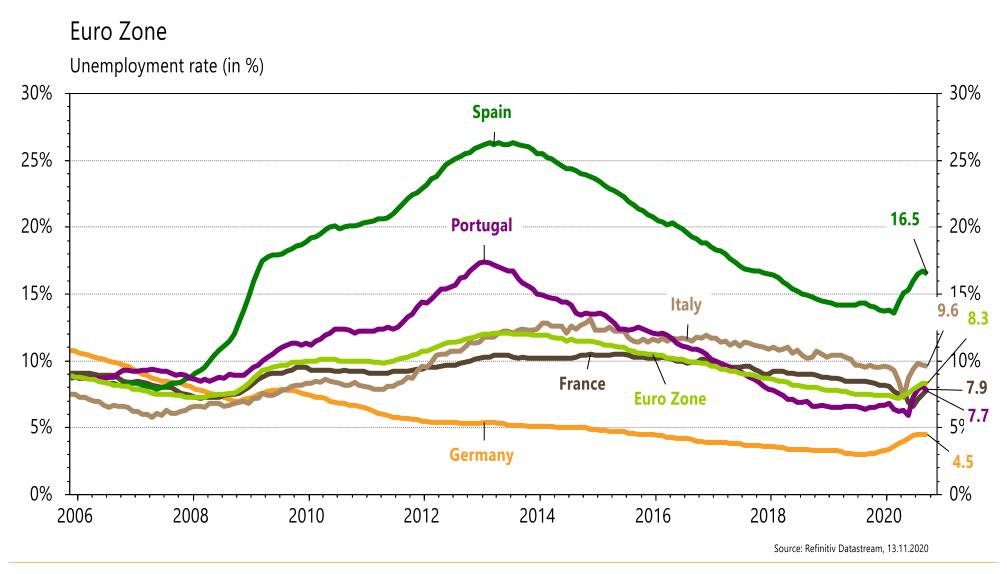
New restrictions impact more the services sector



Eurozone - consumption and industrial production

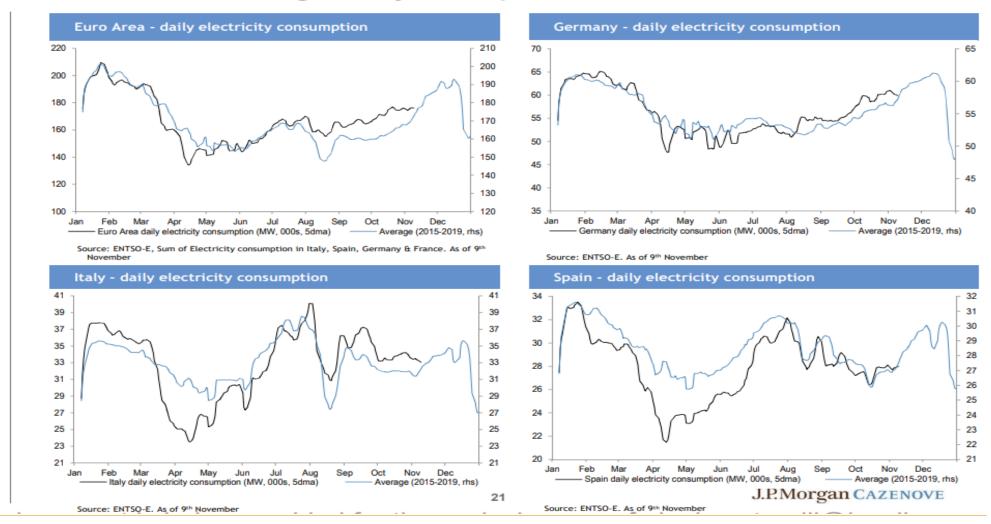


Eurozone – unemployment rate



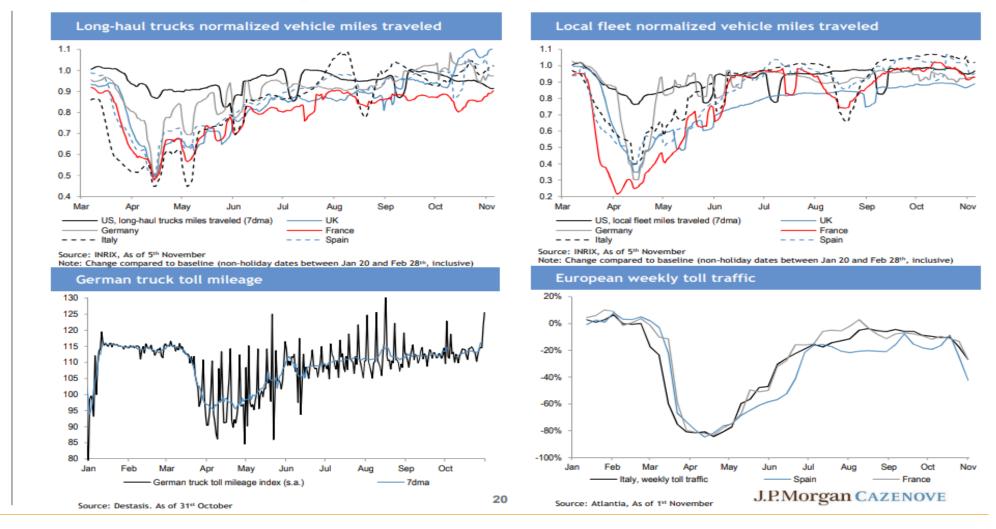
Eurozone – industrial activity

Industrial/manufacturing activity - Europe - ENTSOE-E



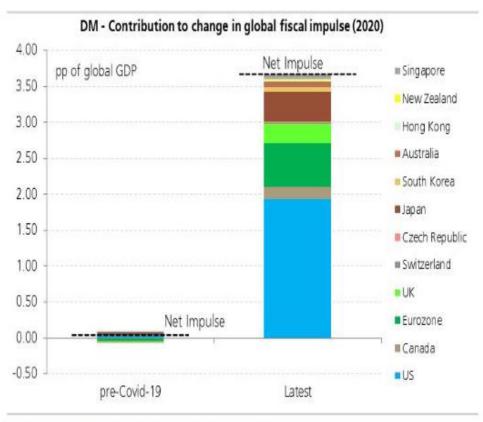
Eurozone – industrial activity

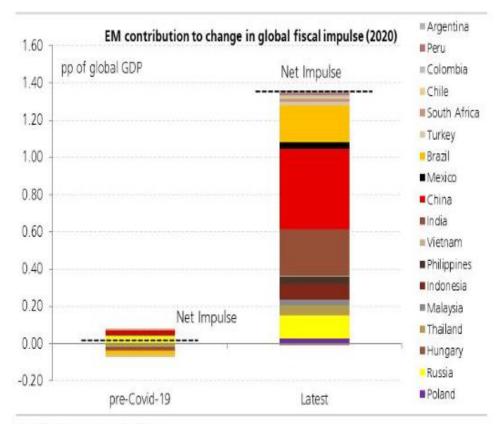
Industrial/manufacturing activity - Europe - INRIX, Geotab, Atlantia



World – stimulus plans

Massive stimulus in developed economies, less so in emerging ones





Source: UBS, Haver, IMF, European Commission, CBO

Source: UBS, Haver, IMF

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