

Executive Perspectives



# Navigating the Delta Variant and the Future of COVID-19

August 2021



**OBJECTIVE:** The highly transmissible Delta variant of COVID-19 has taken over as the dominant strain in many areas around the world. This document aims to present key facts, dispel myths, and help leaders evaluate their policies as the COVID-19 fight enters its next phase.

### **VACCINES ARE EFFECTIVE AGAINST FAST-SPREADING DELTA**

While the Delta variant does have relatively higher antibody resistance than the wild type<sup>1</sup>, vaccines are still proving to be highly effective in preventing severe disease and limiting spread. Headlines often focus on breakthrough cases of COVID-19 among the vaccinated and concerns over waning immunity among the elderly and vulnerable, but vaccines continue to be the best tool for managing disease. They provide a promising path out of the pandemic.

### **VACCINATION IS CRUCIAL FOR LONG-TERM CONTAINMENT**

Actions taken in the next year can dictate consequences in the longer term. While the immediate ambition is to control the spread of the Delta variant, vaccination is essential to reduce the risk of dangerous future variants. Public health leaders must keep a global view in mind to prevent worldwide resurgences. Across the public and private sectors, increasing numbers of employers have implemented stronger measures to drive vaccination.

## Rapid global spread fuels concern for Delta variant; vaccines remain crucial

**Increasing cases** 

~650k

New global cases per day and growing, which is ~80% of peak cases

**Dominant variant** 

>90%

Of new cases are **coming** from the Delta variant in most countries

**Global challenge** 

130+

**Countries** have experienced Delta variant's spread

**Infection danger** 

2.5-3x

Increased transmissibility of Delta versus the original strain

## **Vaccine efficacy**

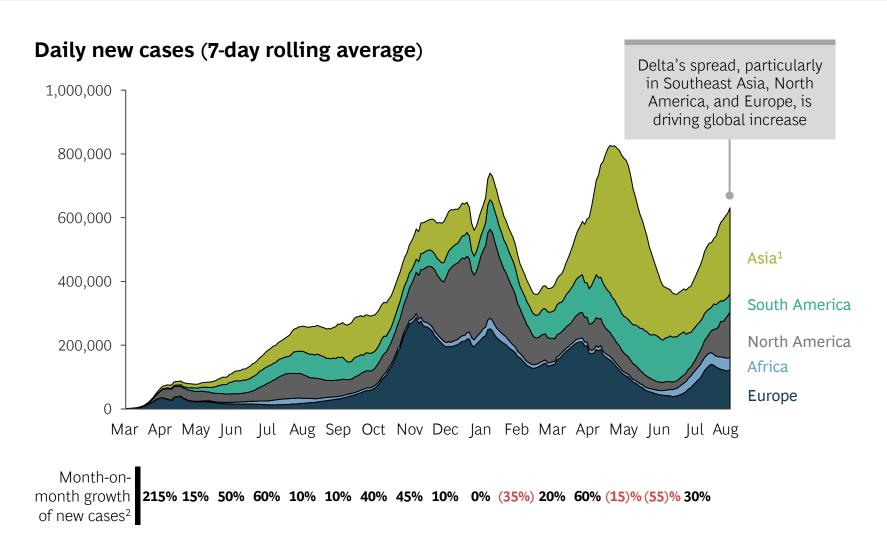
~25x

Reduction in severe cases after vaccination<sup>1</sup>, taking into account new variants such as Delta

## Global cases are rising, with the Delta variant proliferating and difficult questions resurfacing

As of 09 Aug 2021

**Epidemic Progression** 



## Leaders are reconsidering key questions:

- What is the employer's role in driving vaccinations?
- Should reopening or return to office plans be delayed?
- What should the approach be for safely gathering in public areas (e.g., masking, testing)?
- What public health measures should schools implement?

While the answers may vary in each situation and country, decisions should be fact-based and risk-weighted

## **Summary**

## Navigating the Delta Variant and the Future of COVID-19

1	DELTA VARIANT FACT BASE AND TRENDS	<ul> <li>The Delta variant has become the predominant variant due to its very high transmissibility</li> <li>Vaccines offer very strong protection against Delta, but that protection may decrease over time depending on vaccine and individual context</li> <li>As vaccination rates increase, hospitalizations will drop significantly even as the proportion of breakthrough cases increases</li> <li>High community vaccine protection helps lower risk of Delta variant across all age groups</li> <li>Vaccines decrease Delta's transmissibility by shortening contagious period in breakthrough cases</li> </ul>
2	IMMEDIATE IMPLICATIONS FOR LEADERS	<ul> <li>Public health: Accelerate efforts to expand vaccination within and across countries</li> <li>Private sector: Require employee vaccinations as much as possible; trending to stronger mandates</li> </ul>
3	LONGER-TERM SCENARIOS	<ul> <li>Increasingly dangerous variants may surface in the future among unvaccinated populations</li> <li>Long-term course of pandemic depends on actions in the next year–crucial to act now</li> </ul>

## BCG Executive Perspectives

**AGENDA** 



## DELTA VARIANT AND THE FUTURE OF COVID-19: TRENDS AND ACTIONS



Delta variant fact base and trends



Immediate and longer-term implications for leaders

## **UPDATED ANALYSES AND IMPACT**

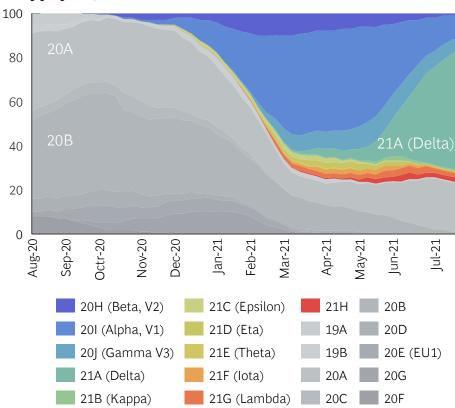
Epidemic progression and virus monitoring

Economic and business impact

## The Delta variant has become the predominant variant due to its very high transmissibility

## Delta variant has become the leading variant globally (%)

As of July 28, 2021

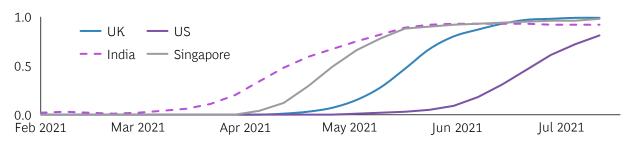


effectiveness (June 2021); press search; BCG analysis.

## Delta has become a prominent concern in many countries because of its high transmissibility

First identified in India but already present in 130+ countries and accounts for >90% of new cases in many countries

Frequency of the Delta variant in new cases through July 30, 2021



**Highest transmissibility (2.5-3x wild type)** of all variants combined with **shorter incubation period**<sup>1</sup> (3-5 days vs. 5-8 days for wild type) allows Delta to spread very quickly. Each Delta infection spreads to **6-7 other people on average compared with only 2 others** for wild type<sup>2</sup>

3-6x antibody resistance compared with Alpha/wild strain<sup>3</sup>

Potential for higher severity<sup>4</sup>

<sup>1.</sup> Period of time before virus is detectable. 2. Comparison for spread assumes unvaccinated individuals. 3. As measured by reduction in the binding efficiency of neutralizing antibodies. 4. Severity determines COVID-19 hospitalizations and deaths. Sources: Nextstrain; CoVariants; US CDC; Nature, Reduced sensitivity of SARS-CoV-2 variant Delta to antibody neutralization (July 2021); Lancet, SARS-CoV-2 Delta VOC in Scotland: demographics, risk of hospital admission, and vaccine

## Vaccines offer very strong protection against Delta, but that protection may decrease over time depending on vaccine and individual context

## The level of protection from antibodies<sup>1</sup> may decrease over time, eventually protecting against only severe disease ...

Protection stems from high count of neutralizing antibodies that have high stickiness to the virus variant

Vaccination often starts with protection from all disease, including asymptomatic, but may wane over time CHANCE OF PROTECTION FROM...

LOWER

## **Asymptomatic disease**

Vaccine protects against asymptomatic infection and transmission

## **Symptomatic disease**

Vaccine protects against symptomatic disease; possible to be asymptomatic and transmissible

**OVER TIME OVERALL** 

### Severe disease

Vaccine protects against hospitalizations and death

... however, this varies by vaccine and individual

6 months later, some vaccine types continue to show high antibody counts, while others have fallen significantly, raising efficacy concerns

People with autoimmune conditions and the elderly are experiencing the fastest antibody losses over time and may need booster shots the most to increase antibodies

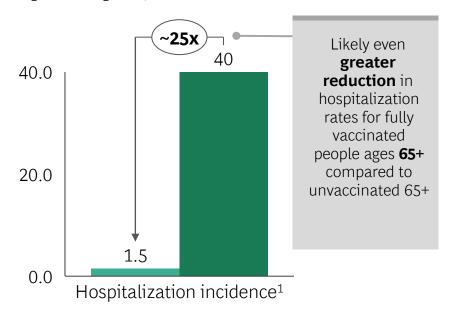


HIGHER

## As vaccination rates increase, hospitalizations will drop significantly even as the proportion of breakthrough cases increases

## 25x reduction in hospitalizations for fully vaccinated people

Weekly COVID-19 incidence per 100K (US CDC data) August 2 - August 8, 2021



Fully vaccinated Unvaccinated

## Vaccines reduce overall hospitalizations in a population despite more breakthrough cases

As more people get vaccinated, overall hospitalizations will decrease due to vaccine protection. With fewer remaining unvaccinated people, a larger proportion of hospitalizations will come from breakthrough vaccinated cases

## Illustrative example-2M population<sup>1</sup>



Weekly hospitalizations: **415** 



Proportion of hospitalized that are vaccinated



Increasing vaccination rate can move Scenario A to B

### Scenario B - 90% vaccinated

Weekly hospitalizations: 107



Proportion of hospitalized that are vaccinated



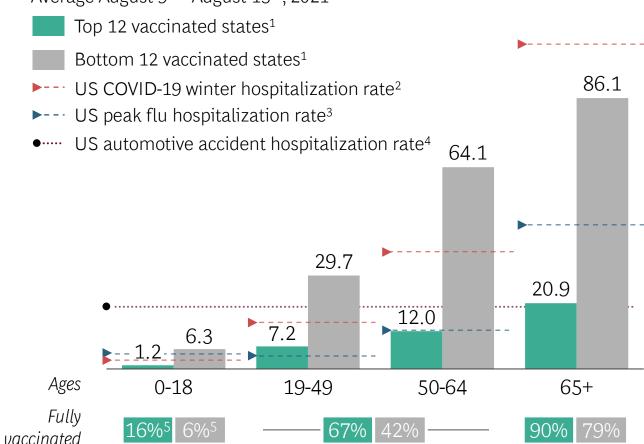
= 10 vaccinated hospitalizations

= 10 unvaccinated hospitalizations

1. Hospitalization rates remain constant in both scenarios and are based on actual US hospitalization data (on left). Sources: US CDC COVID Data Tracker; BCG analysis.

## High community vaccine protection helps lower risk of Delta variant across all age groups

New weekly hospital admissions per 100k (US CDC data) Average August 9<sup>th</sup> - August 15<sup>th</sup>, 2021



1. Measured by fully vaccinated %. Top States (56.8%-67.0% fully vaccinated), in order: VT, MA, ME, CT, RI, MD, NJ, NH, WA, NY, NM, OR, Bottom States (35.4%-41.6% fully vaccinated), in order: AL, MS, WY, ID, LA, AR, WV, GA, TN, ND, OK, SC. 2. Based on 6 weeks hospitalizations from Dec 21, 2020 to Jan 31, 2021. 3. Estimated based on 2018-2019 data when only 49.2% of people got flu vaccines. 4. Based on 2018 emergency department visit rates for motor vehicles 5. Percent of total population 0-18 though only 12-18 is eligible in US. 5. For ages 12-17. Sources: US CDC Covid Data Tracker; Mayo Clinic Vaccine Tracker; US Census estimates 2019; CDC Flu Burden 2018-19; National Center for Health Statistics; *BCG* US Vaccine Sentiment Survey (May 2021)



Despite **low youth** vaccination rates across the country, states with **higher overall** vaccination rates and thus greater **community protection** are seeing youth hospitalizations **well below peak flu season levels** 



As Delta spreads in US, states with highest vaccination levels have seen lessened impact of Delta wave to date. Additionally, Pfizer's vaccine was >97% effective against symptomatic disease in youth trials<sup>5</sup>, implying significant benefit for younger people to get vaccinated when eligible

Headlines focus on rising youth hospitalizations, but protecting children and the vulnerable **varies by local context.** Clarifying perceived versus actual risks is critical to painting a holistic picture (e.g., >30% of vaccinated adults continue to perceive outsized COVID-19 risk, even as actual risk is lower in many communities)

## Vaccines decrease Delta's transmissibility by shortening contagious period in breakthrough cases

## Vaccines help reduce transmission of both symptomatic and asymptomatic cases

As of August 2, 2021

3x

Reduction in **asymptomatic cases** for vaccinated versus unvaccinated based on a UK study

8x

Reduction in **symptomatic cases** for vaccinated versus unvaccinated based on a US study

3x figure can also be attributed to the different **vaccine mix** in UK (which includes Oxford/AstraZeneca vaccine), but vaccines still offered **high immunity by protecting against asymptomatic Delta cases** 

## Vaccine decreases transmission by reducing infectious time



Delta appears to carry similar viral load in vaccinated and unvaccinated cases at time of diagnosis, a departure from previous variants where vaccinated people had lower viral loads...



...But vaccinated case viral loads decrease much faster than unvaccinated case viral loads do (~10-14 days shorter infectious period), reducing possible infectious time for breakthrough cases<sup>1</sup>

## The Delta variant continues to make news, but vaccination within and across countries remains an important lever to control against impacts

### **As of 13 August 2021**



Delta variant is ravaging the world, but it is pushing Southeast Asia to breaking point



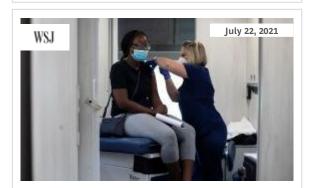
Europe struggles to break free of COVID-19 restrictions as Delta variant surges



Delta variant slams US youth who are vaccine hesitant, spreading through unvaccinated segments quickly



Delta variant widens gulf between 'Two Americas': vaccinated and unvaccinated



Why COVID-19 vaccines work well against Delta variant



The Delta variant is slowing office reopenings. It could slow the economic recovery too



The US FDA authorized a third dose of COVID-19 vaccines for immunocompromised people



WHO head seeks vaccine booster moratorium to ensure doses are available for low-income countries

## Public health: To combat Delta variant, need to increase efforts to expand vaccination within and across countries



## Public health leaders should look for ways to rapidly expand vaccination

### **EXPAND ELIGIBILITY**

Regulators should assess necessity of emergency authorization to expand eligibility as **safely and quickly as possible** (e.g., ages <12, boosters, etc.)

### **GAIN AUTHORIZATION**

Dedicate sufficient resources to review vaccine applications **beyond emergency use**. **1/3**<sup>1</sup> of unvaccinated awaiting full approval and more data

### PROVIDE UPDATED EDUCATION

Provide ongoing communication of vaccines' importance, even with breakthrough cases, to **keep statistics in perspective** 

### **ENCOURAGE DISCUSSION**

Encourage people to speak to friends, family, and doctors. **1/4**<sup>1</sup> got vaccinated after seeing others close to them do so



## Push for redistribution through COVAX and support throughput for LMICs<sup>2</sup>

### SUPPORT COVAX TO ENSURE SUPPLY

COVAX shipped ~177M doses of COVID-19 vaccines to 138 nations by beginning of August

**610M**+ more doses have been announced for donation from the EU, US, UK, Japan, and others through 2022

### **COLLABORATE TO DELIVER TO LMICs<sup>2</sup>**

Higher-income nations and manufacturers should **collaborate** to develop a global donation schedule, incorporating excess doses

Establish funding and logistics support to help build infrastructure to deliver and administer doses

## Other public health measures:

While vaccination is the primary lever to end the pandemic, other public health measures (e.g., masking, distancing) should not be released until vaccination rates are sufficiently high. This is especially important for health departments in countries early in the vaccination journey



1. Kaiser Family Foundation US COVID-19 Monthly Vaccine Monitor (July 13, 2021). 2. Low-to-middle income countries, defined by the World Bank as countries with GNI per capita below \$12,695 (July 2021). Sources: KFF; STAT; press search; BCG analysis.

## Private sector: Require employee vaccinations as much as possible; leaders moving to stronger mandates

## **Employer vaccination efforts range from honor codes to hard mandates**

### **HONOR CODE**

required

Requests disclosure but no proof
Financial institution requires
masking for all unvaccinated
people to enter office, although
proof of vaccination is not

### **VACCINATE OR TEST**

All US federal employees must be vaccinated or submit to regular testing, distancing, masking, and travel restrictions

Requires vaccination or weekly testing

### **HARD MANDATES**

Requires proof of vaccination

Media company requires vaccination proof for return-to-office as "condition of employment"

### STRENGTH OF MANDATE

Trend is moving toward stronger mandates



As Delta variant proliferates, employers are reaching an inflection point and increasingly requiring employee vaccination, shifting to the right of this spectrum

May 2021

~10-15% >

~30%+

July 2021

Percentage of employers requiring employee vaccination has increased in past few months, **showing lower tolerance of risk amid Delta variant surges** 

While companies initially relied on the honor code, they are increasingly asking for **continual regular testing** or **proof of vaccination to return to office.** Employers should make ongoing risk/safety assessments and ensure employees have ability (e.g., time off) to vaccinate

Increasingly serious about vaccines:

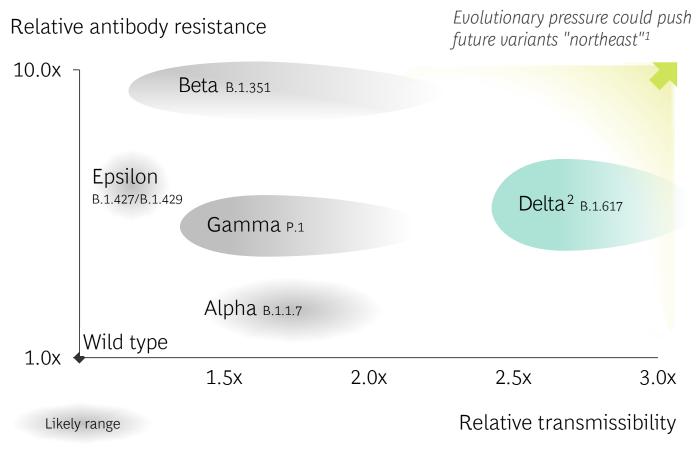
since the US federal government enacted a **test or vaccinate** approach for staff, others have followed suit or even passed **hard mandates** 

Examples include companies across industries, such as Google, Uber, Disney, Walmart, McDonald's, United Airlines, Tyson Foods, BlackRock, Kaiser Permanente, and others

Variants of concern

## Vaccination is critical for longer-term disease management; if large parts of global population remain unvaccinated, dangerous variants may surface

## Variants of concern compared with wild type



<sup>1.</sup> Antibody resistance and transmissibility of the Lambda variant, which may be an emerging variant of concern, are currently being assessed.

2. Preliminary evidence shows that the "Delta Plus" variant, which is a version of the Delta variant with further mutations, has similar antibody resistance and transmissibility as Delta variant. Sources: US CDC; cov-lineages.org; Lancet Infectious Diseases; press search; bioRxiv; Axios variant tracker: Nature: BCG analysis

## Future variants may potentially be more dangerous

Given evolutionary selection pressures, future variants are likely to become **more transmissible** and could also have **higher antibody resistance** 

## Vaccination prevents future variants

Large populations of unvaccinated people allow COVID-19 to evolve variations that likely have higher transmissibility

In vaccinated populations, only mutations with **increased antibody resistance** can survive, but virus is likely to **mutate and spread much more slowly** than in unvaccinated populations

## Long-term course of pandemic depends on actions in the next year; failure to "get ahead" of virus can lead to severe consequences for years to come

## Longer-term global recovery scenarios

	ON TRACK TO "NORMAL"  BULL CASE	<b>2-SPEED RECOVERY</b> <i>BASE CASE</i>	ONGOING CHALLENGES  BEAR CASE
CRITICAL FACTORS —			
Supply and throughput to cover vulnerable	Vaccine redistribution covers <b>world population,</b> including all lower-income countries and populations No major <b>throughput</b> issues	<b>Gaps</b> in vaccine availability for lower- income countries or populations, whether in supply or throughput <b>Moderate risk</b> for new variants	Severe issues in vaccine coverage for lower-income countries or populations, leading to <b>high risk of dangerous variants</b> emerging
Vaccine uptake / population immunity by 2022 <sup>1</sup>	High vaccination uptake (70-80%+) to reach high population immunity levels worldwide	Vaccination rates stagnate in the ~50-70% range, leaving room for greater risk of resurgence	Global vaccination rates are < <b>50%</b> , creating high risk to longer-term management of disease
Vaccine effectiveness	Current vaccines with boosters remain <b>highly effective</b> in preventing severe disease. Vaccines can " <b>stay ahead</b> " of disease	Certain emerging variants show high levels of <b>escape immunity</b> ; more <b>developments in vaccines</b> are needed, but situation is manageable	Existing vaccines <b>not effective</b> against emerging variants; significant costs needed to keep developing <b>next-gen vaccines</b>
LIKELY OUTCOMES —			
Resulting variant development and recovery path	Existing problematic variants (e.g., Delta, Beta) can be <b>contained</b> and emerging variants can be managed	Disease is controlled in <b>higher- income nations</b> , but lower-income nations face more <b>severe impacts</b>	Continuing rise of additional challenging variants and response is always "behind" virus
	Disease burden will be <b>like flu</b>	Extended economic/health impacts	Profound economic/health impacts

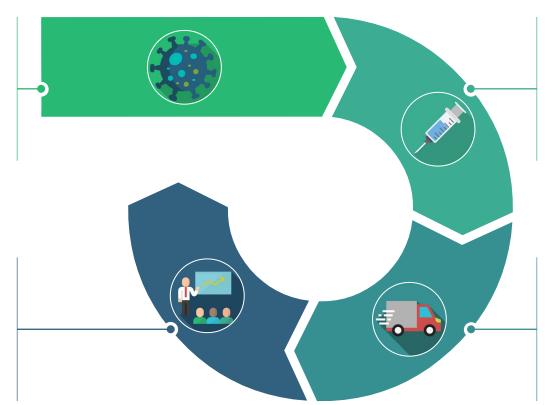
<sup>1.</sup> Ranges per case are directional and based on vaccination rates across countries. Source: BCG analysis and case experience.

B

## **Summary** Increasing vaccination rates require coordinated global efforts

### **Effectiveness**

Continue investment in vaccine R&D to expand eligibility and combat variant proliferation



## Supply

Donate excess doses to lowerincome nations continuously; continue to monitor and reduce vaccine deserts within countries

## **Uptake**

Provide ongoing education to reduce vaccine hesitancy; reconsider policies to increase uptake

## **Throughput**

Provide support for distribution and administration resources in areas of need; work with global organizations such as COVAX

## **BCG Executive Perspectives**

**AGENDA** 



## DELTA VARIANT AND THE FUTURE OF COVID-19: TRENDS AND ACTIONS

Delta variant fact base and trends

Immediate and longer-term implications for leaders

## **UPDATED ANALYSES AND IMPACT**

Epidemic progression and virus monitoring

Economic and business impact

## **Summary dashboard**

*As of 12 August 2021* 

Epidemic Progression  Global epidemic snapshot								
204M # of cases	16.5M # of active cases <sup>1</sup>		<b>4.3M</b> # of fatalities		4.5B Vaccine doses administered			
			Apr	May	Jun	Jul		
Month-on-	Americas		1.2x	0.8x	1.0x	0.9x		
month growth of	Europe		0.9x	0.5x	0.6x	2.5x		
new cases <sup>2</sup>	Asia³		3.3x	1.0x	0.4x	1.3x		

	asts (YoY%)  IMF4 (Jul '21)  Banks5
2021	0 2 4 6 8 10 12 14 16 18 20
Europe	4.6%
US	7.0%
Japan	2.8%
China	8.1%
India	9.5%

Consumer Activity  Mobility							
Mobility <sup>6</sup>	US	_	<b>Apr</b> -15%	May -12%	Jun -11%		
(month vs. Jan '20)	Europe		-25%	-17%	-7%		
J == /	Japan	I	-12%	16%	-11%		
Domestic air	US	1	189%	129%			
travel tickets booking <sup>7,8</sup> (YoY)	UK		181%	276%			
	China		157%	76%			
Sales							
Retail	US	I	40%	24%			
goods sales <sup>9</sup> (excl. auto &	Europe <sup>10</sup>	I	21%	8%	5%		
fuel, YoY)	China <sup>11</sup>	I	18%	12%	12%		
Passenger	US	ı	113%	43%	17%		
vehicle sales <sup>12</sup> (YoY)	Germany	I	90%	37%	24%		
	China	l	9%	-3%	-14%		

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Business Impact Stock market performance								
02 Jan '20 vs Month end Apr May Jun								
S&P500		1	28%	29%	32%			
FTSE100			-8%	-8%	-7%			
CHN SSE			12%	17%	16%			
Volatility Index	Volatility Index (S&P500) <sup>13</sup>				1.3x			
International t	rade							
Trade value <sup>14</sup>	US	I	42%	47%	37%			
(YoY)	France		79%	54%				
	China		35%	36%	34%			
Industrial prod	luction							
Purchasing	US	1	61	62	62			
manager's	Germany	i	66	64	65			
index <sup>15</sup> (base = 50)	China	I	51	51	51			
Steel production	n (YoY) <sup>16</sup>	1	25%	17%	12%			

<sup>1.</sup> Total cases less deaths and recovery; 2. Calculated as monthly average of daily cases vs. previous month; 3. Includes Middle East and Oceania; 4. IMF Apr 2021 forecast; 5. For India, forecast is for financial year; YoY forecasts; range from forecasts; where available) of World Bank, ING Group; HSBC; As of reports dated 08 June 2020 to Mar 01 2021; For India's GDP forecast, World Bank's 2020 forecast from 08 June provides the upper bound of the forecast range; 6. Mobility values are calculated as the average of German forecasts; retail & recreasion, and grocery & pharmacy and compared to a baseline from 03 Jan – 06 Feb 2020; Europe mobility values are calculated as the average of German forecasts; retail & recreasion, and grocery & pharmacy and compared to a many phiances, general merchandise, building material; do not include auto, fuel & food services; 10. Europe includes 27 countries currently in EU; 11. For China, Jan & Feb are reported together due to National Holidays, 12. Figures represent passenger vehicle (including sedan, hatchback, SUV, MPV, van and pickup) sales data for over same month in previous year; Europe value calculated as sum of imports and exports, measured in USD and compared to previous year period; EU trade values between EU and all outside countries 15. PMI (cruckasing Manager's Index') is a diffusion indives that summarizes whether market conditions, as viewed by purchasing managers, are expanding (~50), staying the same (50), or contracting (~50); 16. Data corresponds to G-20 countries (minus Indonesia). Sources: JHU CSSE, Our World in Data, WHO, World Bank, IMF, Bloomberg, Google Mobility, US Census Bureau, Eurostat, PRC National Bureau of Statistics, ACEA actuals, Marklines, ARC ticketing data, STR, Statista, CBOE, OECD, BEA, GACC (customs) China, ONS, BCG.

## **COVID-19** has broad geographic reach today with countries at different stages in their fight

As of 09 Aug 2021

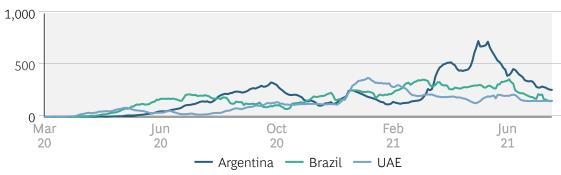
Non-exhaustive

**Epidemic Progression** 

### **Continuation**

### Curve was never quite flattened; ongoing battle

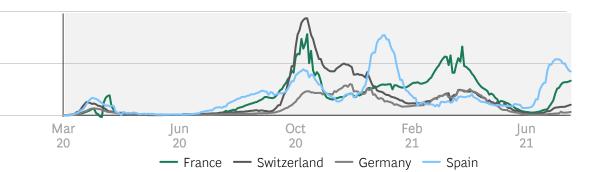
Daily new confirmed cases per million<sup>1</sup>



### Resurgence

### Curve was flattened but saw one or more resurgences

Daily new confirmed cases per million<sup>1</sup>



### **Crush and contain**

## Curve was flattened; some countries' cases rising with Delta but much lower relative to other parts of world

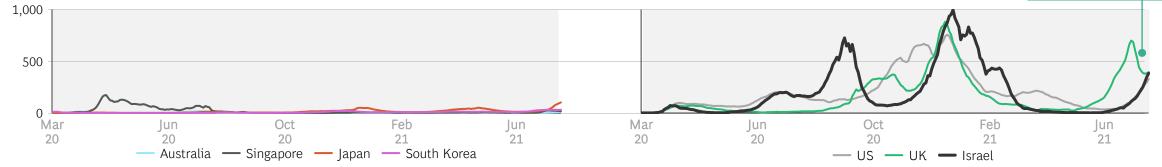
Daily new confirmed cases per million<sup>1</sup>

### **Vaccinated**

### **Curve reduced through vaccination progress**

Daily new confirmed cases per million<sup>1</sup>

Uptick in cases as most infectious Delta variant becomes dominant

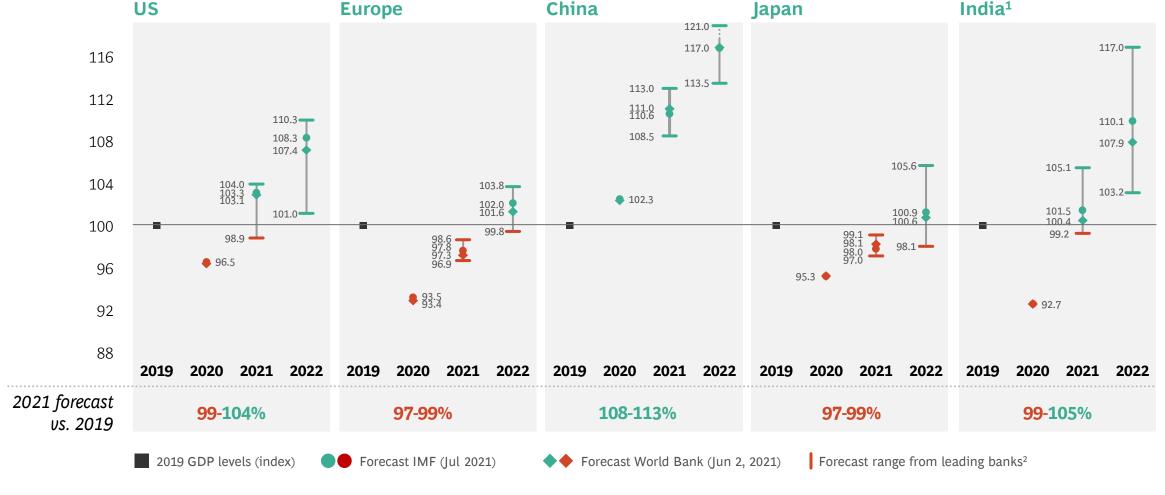


<sup>1.</sup> Data shown as 7-day rolling average of daily new cases per million. Sources: Our World in Data; BCG.

## Many large economies expected to continue recovery and reach 2019 GDP levels between 2021 and 2022

As of 12 Aug 2021 Economic Impact

### **GDP** forecast levels indexed to 2019 value (Base: 100)



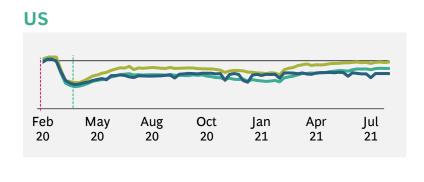
## Retail and recreation mobility recovered fastest; public transit and workplace mobility remains lower in most countries

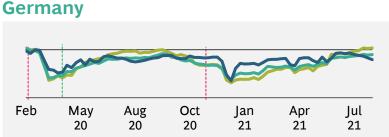
Sweden

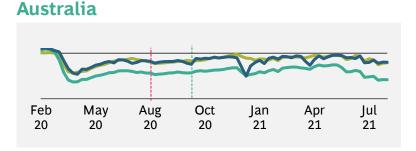
As of 09 August 2021

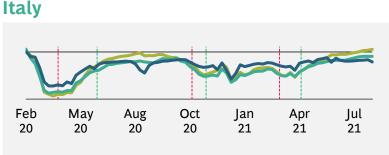
## **Economic Impact**

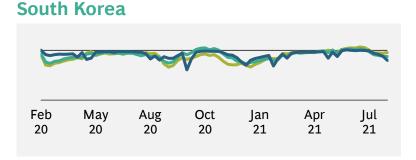
### Workplace<sup>1</sup>, public transit<sup>2</sup>, and retail and recreation<sup>3</sup> mobility compared with baseline of January 2020 to February 2020



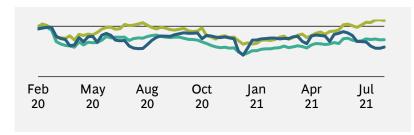


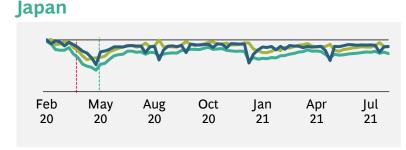












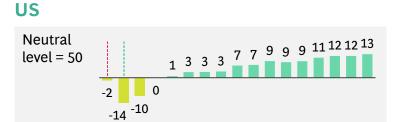
<sup>1.</sup> Tracked as changes in visits to workplaces 2. Tracked as changes in visits to public transport hubs, such as underground, bus and train stations. 3. Tracked as changes for restaurants, cafés, shopping centers, theme parks, museums, libraries, and cinemas. 4. Refers to average lockdown start and easing dates for larger lockdowns. Note: Data taken as weekly average compared with baseline (average of all daily values of respective weeks during Feb 15 2020–Feb 28 2021). Sources: Google LLC "Google COVID-19 Community Mobility Reports." https://www.google.com/covid19/mobility/. Accessed: 01 Mar 2020; press search; BCG.

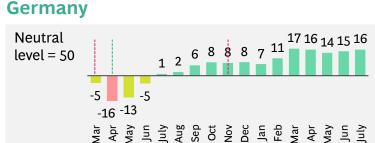
## Manufacturing PMI global recovery indicates continued positive momentum

As of 09 Aug 2021

## **Economic Impact**

## Manufacturing PMI before, during, and after the crisis

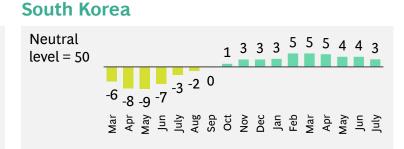


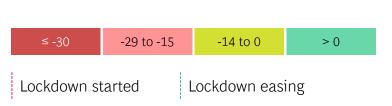


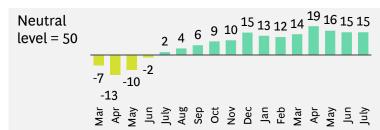
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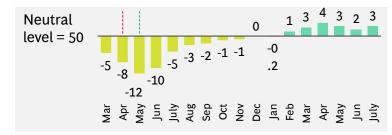
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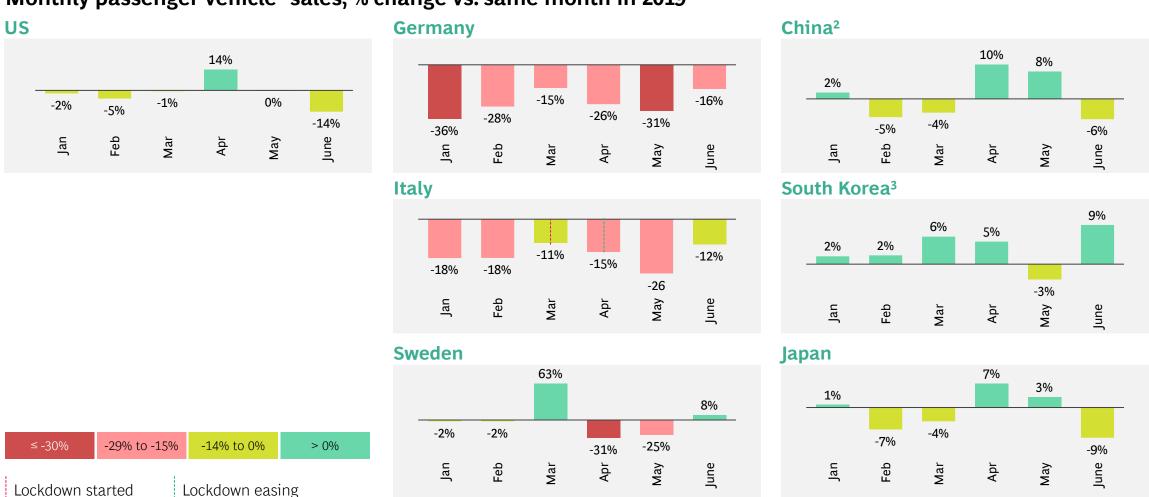


Sweden

## Monthly passenger vehicle sales starting to return to prepandemic levels but are also capped by supply constraints

As of 09 August 2021 Economic Impact

## Monthly passenger vehicle¹ sales, % change vs. same month in 2019



<sup>1.</sup> Passenger vehicle sales includes data on, where available, hatchback, MPV, pickup, sedan, SUV, mini trucks, light trucks, and vans. 2. Stimulus policies: Launched subsidies for car purchases in 10 cities, lessened purchase restriction in high-tier cities, and extended NEV subsidies. 3. South Korea's growth in auto sales from Mar through June 2020 is supported by recent tax cuts for individual consumption goods (e.g., cars), several carmakers (e.g. Audi, VW) launching new models, and the increased appreciation by the Koreans of cars as a safe mode of transport and as a travel alternative for camping during COVID-19, supported by recently passed legislation to allow a variety of different cars to be modified into "camping cars." Sources: Marklines: BCG.

## Retail goods sales (excluding auto and fuel) have grown compared with pre-COVID-19 levels in most countries

As of 12 Aug 2021

### Growth of retail goods sales (excluding auto and fuel)<sup>1</sup>, % change vs. same month in 2019

Retail goods sales include online and offline sales and comprise food and beverages, apparel, cosmetics and personal care, home appliances, general merchandise, building material; do not include auto, fuel, and food services

	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	
US	14%	11%	21%	20%	19%	-	
UK <sup>2</sup>	-2%	-1%	3%	13%	12%	11%	
Spain	-6%	-3%	-1%	-2%	-3%	-2%	
Sweden	6%	9%	10%	5%	12%	11%	
France	7%	7%	9%	0%	8%	8%	
China <sup>3</sup>	6%		11%	7%	9%	12%	
Japan	3%	7%	5%	2%	2%	5%	
				-299	% to -15% -14% to	<b>0</b> % > 0%	

<sup>1.</sup> Retail goods sales categorization may be different across countries; seasonally adjusted values taken; country-specific categorization. 2. UK figures include total retail sales excluding automotive fuels, sourced from Office for National Statistics United Kingdom as data is no longer reported in Eurostat after Brexit. 3. For China, Jan & Feb 2021 are reported together due to national holidays.

## **Economic Impact**



Sources: US Census Bureau; PRC National Bureau of Statistics; Eurostat; Office for National Statistics United Kingdom; Ministry of Economy Japan.

### **DE-AVERAGED VIEW**

## Retail store sales in China and US have rebounded across categories; apparel sales continue to be impacted in other countries

As of 12 Aug 2021

### Retail store sales breakdown by category, % change vs. same month in 2019

### **Food and beverage stores**

	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21
US	14%	16%	14%	15%	16%	-
UK	7%	9%	10%	10%	4%	8%
Spain	3%	1%	0%	0%	-3%	-1%
Sweden	3%	4%	4%	0%	5%	6%
France	7%	6%	10%	8%	8%	5%
China <sup>1</sup>	14%		23%	20%	18%	23%
Japan	-2%	-1%	-3%	-2%	0%	1%

### Personal care and cosmetics stores

	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21
US	5%	3%	12%	14%	15%	-
$UK^2$	-47%	-30%	-26%	-6%	-7%	-7%
Spain	-4%	-1%	0%	1%	-1%	2%
Sweden	0%	7%	12%	4%	10%	13%
France	8%	5%	11%	7%	10%	-
China <sup>1</sup>	na <sup>1</sup> 24%		31%	30%	36%	43%
lapan	44%	45%	45%	42%	38%	46%

### **Apparel stores**<sup>3</sup>

	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21
US	-3%	-8%	12%	10%	13%	-
UK	-46%	-52%	-44%	-5%	-2%	-6%
Spain	-36%	-35%	-21%	-23%	-21%	-13%
Sweden	-24%	-22%	-19%	-27%	-15%	-8%
France	-25%	-22%	-24%	-63%	-17%	-
China <sup>1</sup>	China <sup>1</sup> -3%		4%	3%	8%	8%
Japan	-24%	-26%	-19%	-30%	-29%	-23%

-14% to 0%

> 0%

-29% to -15%

### Home appliance stores<sup>4</sup>

	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21
US	-1%	-6%	10%	13%	8%	-
UK	-12%	13%	-9%	30%	30%	20%
Spain	-4%	-1%	9%	7%	17%	9%
Sweden	21%	23%	26%	18%	27%	24%
France	15%	17%	20%	4%	11%	-
China <sup>1</sup>	-5%		-5%	-7%	3%	15%
Japan	19%	17%	1%	5%	11%	1%

1. For China, Jan & Feb 2021 are reported together due to national holidays; food & beverages category includes only food & grains; 2. UK data set switched over from Eurostat to Office for National Statistics following Brexit. 3. Includes clothing accessories, shoes, etc. 4. Includes audio video & home appliances stores. Note: For US, share in retail store sales in Q4 2019: F&B ~25%, personal care & cosmetics ~12%, apparel ~6%, home appliances ~3%, general merchandising ~25%, and building material & gardening equipment ~13%. Sector classification and mix may be different across countries. Sources: US Census Bureau; PRC National Bureau of Statistics; Eurostat; Office for National Statistics United Kingdom; Ministry of Economy Japan.

## **Economic Impact**

China and US have seen strong rebounds in almost all categories, most even above 2019 levels

Retail store sales recovery driven by **food and beverage** across almost all countries. **Personal care and cosmetics** also seeing strong growth across countries

**Apparel category continues to see decline** compared with 2019, except for US and China

Home appliances sales had mixed development across countries but have returned to pre-pandemic levels

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## Stock markets continue to have an optimistic outlook: 20 out of 24 sectors currently above pre-crisis TSR levels

As of 13 Aug 2021

Based on top S&P Global 1200 companies

## **Economic Impact**

	TSR <sup>1</sup>	Companies with de	efault probability >15%
	21 Feb 2020– 13 Aug 2021	21 Feb 2020	13 Aug 2021
Semiconductors	69%	0%	0%
Tech Hardware	47%	0%	0%
Materials	44%	5%	2%
Durable Goods	40%	0%	0%
Auto	35%	0%	0%
Retailing	34%	0%	17%
Capital Goods	34%	2%	2%
Media	32%	0%	0%
Financials	27%	0%	0%
Software	25%	0%	0%
Food/staples Retail	24%	0%	0%
Health Equipment	20%	0%	0%
Prof. Services	18%	0%	0%
Insurance	13%	0%	0%
Banks	10%	0%	0%
Pharma	7%	0%	5%
Food & Beverage	6%	0%	0%
Telecom	4%	0%	4%
Household Products	3%	0%	0%
Real Estate	1%	0%	0%
Utilities	-1%	0%	0%
Hospitality	-2%	8%	15%
Energy	-10%	0%	6%
Transport	-12%	0%	24%

<sup>26</sup> 

## Additional perspectives on navigating the pandemic



The COVID-19 US
Vaccine Sentiment
Series



Reimagining Global
Health After the
Coronavirus



Lessons in Resilience from Companies That Were Down but Never Out



How to End the Global Pandemic in 2022



Fixing the Fallout from a Myopic Focus on Black Vaccine Hesitancy



The Consumer
Sentiment Series



<u>Leading Through the</u> <u>Big Transition to the</u> New Reality



The COVID-19
Investor Pulse Check
Series



Transform for
Resilience: An
Imperative for Good
Times Too

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