McKinsey & Company

COVID-19: Briefing materials

Global health and crisis response

Updated: March 25, 2020

Current as of March 25, 2020

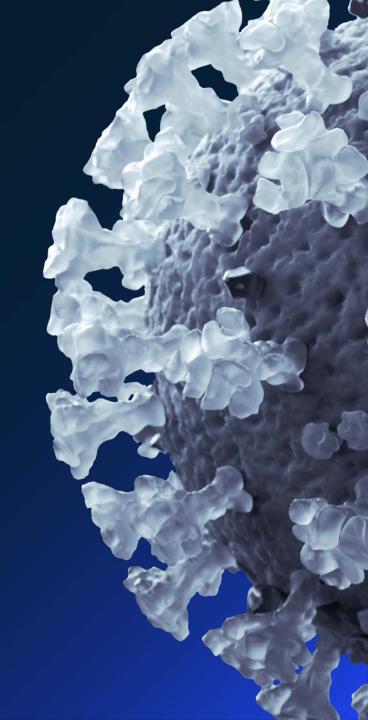
COVID-19 is, first and foremost, a global humanitarian challenge.

Thousands of health professionals are heroically battling the virus, putting their own lives at risk. Governments and industry are working together to understand and address the challenge, support victims and their families and communities, and search for treatments and a vaccine.

Companies around the world need to act promptly.

This document is meant to help senior leaders understand the COVID-19 situation and how it may unfold, and take steps to protect their employees, customers, supply chains, and financial results.

Read more on McKinsey.com



Executive summary

The situation now

At the time of writing, COVID-19 cases have exceeded 380,000 and are increasing quickly around the world, with concerns that a 15% hospitalization rate could drive hospital system overload.

To reduce growth in cases, governments have moved to stricter social distancing, with "shelter in place" orders in many areas in the U.S., Europe, India, and other countries. This has driven rapid demand declines—among the deepest in recent times—that are being met by attempts at bailouts.

Some Asian countries, e.g. China, have kept incremental cases low, and are restarting economies. So far, there is little evidence of a resurgence in infections.

How the situation may evolve

There is a limited window for governments to drive adequate public-health responses and meet demand drawdowns with proportionate economic interventions. Without this, the possibility of a deeper effect on lives and livelihoods is more likely.

Scaled-up testing will soon clarify the extent and distribution of spread in the U.S., and Europe.

Learnings from other countries and recent innovations (strict social distancing rules, drive through testing, off-the-shelf drugs that can address mild cases, telemedicine enabled home care) could provide basis for a restart.

Actions that institutions can take



Resolve

Address the immediate challenges that COVID-19 represents to the workforce, customers and partners



Resilience

Address near-term cash management challenges, and broader resiliency issues



Return

Create a detailed plan to return the business back to scale quickly



Reimagination

Re-imagine the "next normal"—what a discontinuous shift looks like, and implications for how the institution should reinvent



Reform

Be clear about how the environment in your industry (regulations, role of government) could evolve



Establishing a Nerve Center can ensure speed without sacrificing decision quality across these five dimensions.

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Leading indicator dashboards

The global spread is accelerating with more reports of local transmission

Latest as of March 26, 2020

>480,000 >20,000

Reported confirmed cases

Deaths

199

Countries or territories with reported cases¹

>130

Countries or territories with evidence of local transmission²

>30

Countries or territories with more than 1000 reported cases1

~0.3%

China's share of new reported cases March 18-24

>10,000

New cases per day in the U.S.

35

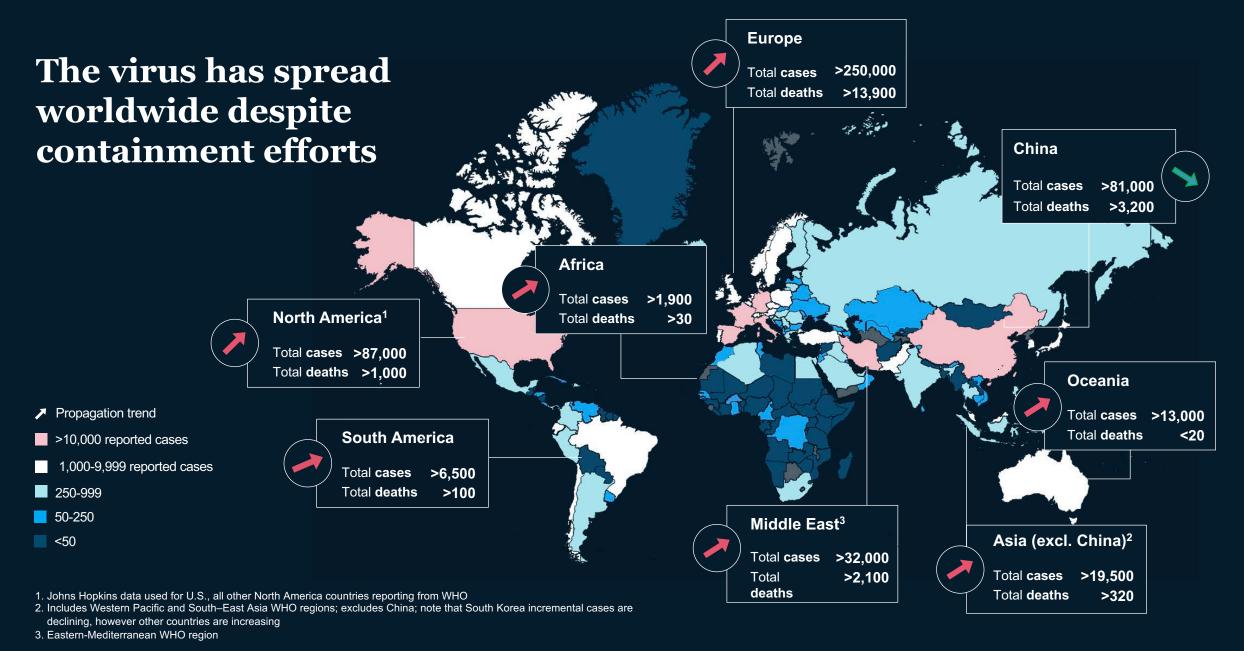
New countries or territories with cases March 18–24

Sources: World Health Organization, John Hopkins University, CDC, news reports

Impact to date

^{1.} Previously counted only countries; now aligned with WHO reports to include territories and dependencies; excluding cruise ship

^{2.} Previously noted as community transmission in McKinsey documents; now aligned with WHO definition

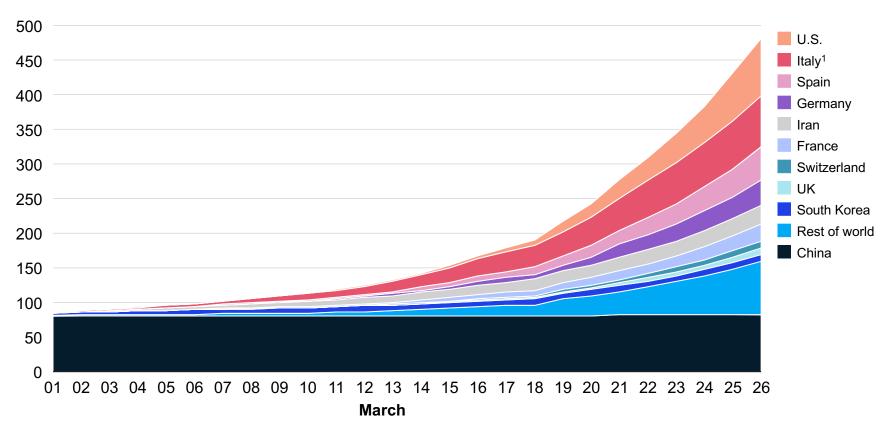


Source: World Health Organization, Johns Hopkins University, McKinsey analysis

Greatest share of recent cases comes from Europe, although U.S. cases are rapidly accelerating

Cumulative number of cases since March 1 – March 26





1. U.S. data from Johns Hopkins University CSSE (March 26 data point from live tracker from 1600PT); all other data from WHO Situation Reports

Sources: WHO situation reports, Johns Hopkins University, press search

Asia

Incremental cases for China and South Korea are now down to ~100 per day with continued focus on disease surveillance and management of imported cases and localized transmission.

•

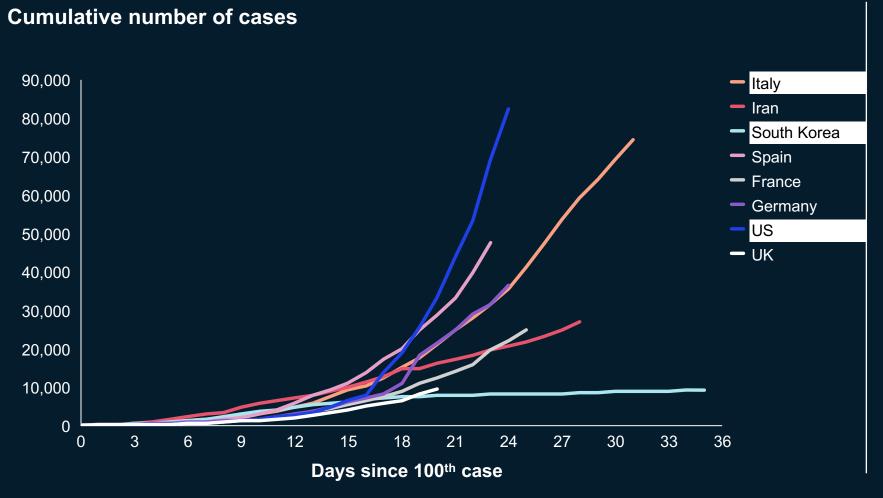
Europe

Cases and deaths continue to increase across the region. Effects of national lockdowns are beginning to show effect in Italy (which recorded relatively flat incremental cases for the past 3-4 days); close monitoring should continue in upcoming days to understand the impact of distancing measures across European states.

United States

Dramatic rise in cases in the past week have led the U.S. to exceed all other countries (including China) in total cases; incremental cases are now above 10,000 per day with highest concentrations in New York, New Jersey and California.

Countries begin with similar trajectories but curves diverge based on range of measures taken



Select country detail

- Italy: After more than two weeks of national lockdown, incremental cases and deaths are flattening, indicating initial effects of public health measures on transmission.
- South Korea: Aggressive testing, contact tracing and surveillance, and mandatory quarantines are helping isolate virus clusters and dramatically slow spread of outbreak.
- United States: Cases and deaths are accelerating rapidly amidst containment responses that vary at state and local levels; U.S. now has the highest number of confirmed cases in the world.

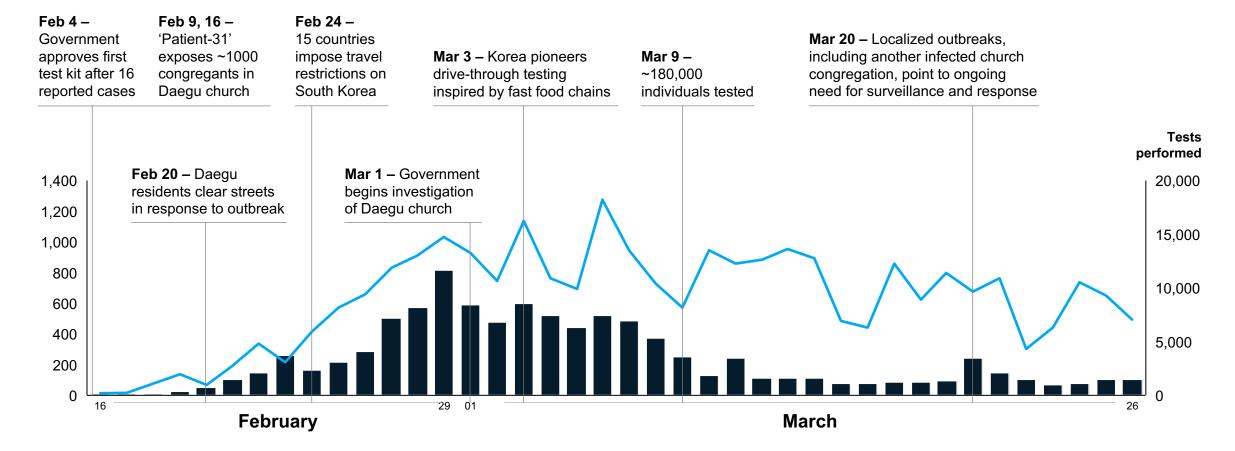
1. U.S. data from Johns Hopkins University CSSE (March 26 data point from live tracker from 1600PT); all other data from WHO Situation Reports

Sources: WHO situation reports; Johns Hopkins University, press search

South Korea: Rigorous investigation of outbreak clusters and rapidly scaled testing capabilities limited spread

Incremental cases per day and tests performed in South Korea Number of reported cases

Number of tests performed
 New reported cases per day

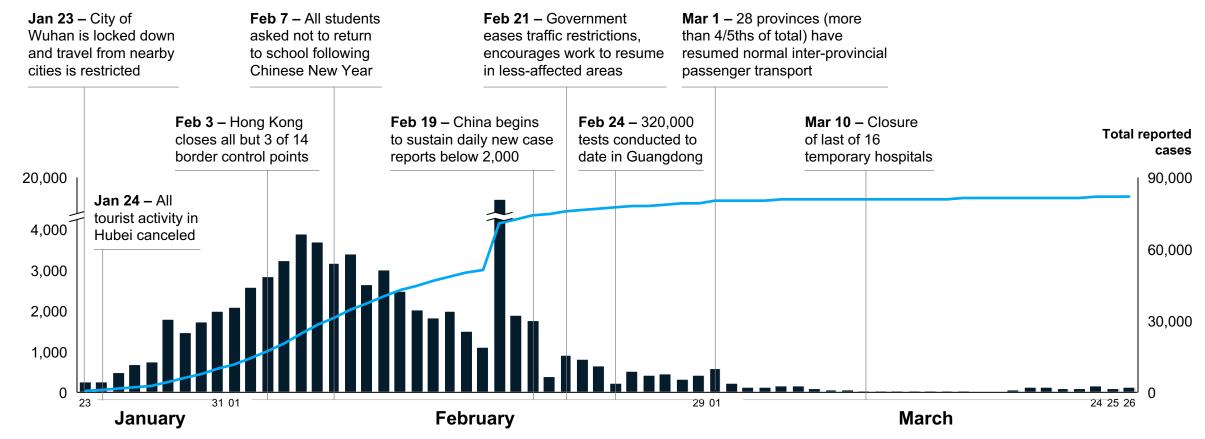


Total reported cases
 New reported cases per day

China: Rapid lockdowns were employed to manage outbreak before ramping up testing and response capabilities

Incremental cases per day and total reported cases in China

Number of reported cases per day



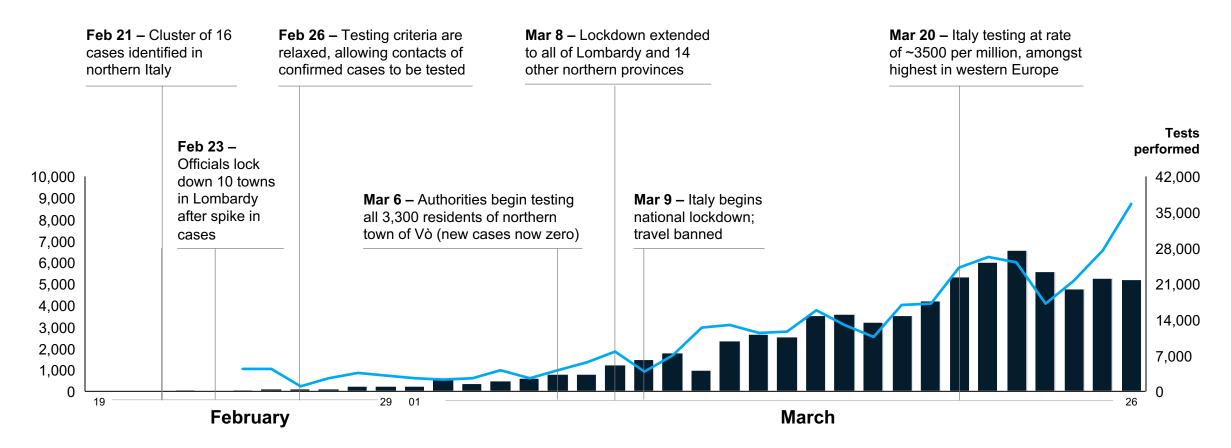
^{1.} Changes in new case tracking and reporting methodology yield spike in reported cases

Number of tested persons per day
 New reported cases per day

Italy: The effects of national lockdown on viral transmission are beginning to show as new case growth flattens

Incremental cases and tests per day

Number of reported cases



Western countries are largely instituting the "Early China model," focused on immediate containment while ramping up testing

Most appropriate for high-burden settings

Most appropriate for low-to-medium burden settings

10,000 →

Contain and restrict movement



"Early China model"



Test, track, and isolate

"South Korea model"

Characteristic actions

Border closures and city-level lockdowns, quarantines "Shelter-in-place" restrictions on individual movement Mandatory closures of businesses Aggressive testing of suspected cases, clusters (5000+ tests per million population)
Contact tracing and isolation via surveillance

Quarantine enforced by government monitoring

Testing

XX = tests per
million people ¹

Countries' State and city-level closures; testing lagging other

U.S. France

~310

countries

~560

National lockdown with strict police enforcement; has performed targeted vs. widespread testing Spain

~640

National lockdown limiting non-essential movements; reported initial logistical issues limiting testing capabilities ∪K ~960

Early strategy focused on scaling testing vs. lockdowns, though officials began enforcing lockdown March 20 Italy

~3,500
Imposed strict regional and r

5,000

Imposed strict regional and national lockdowns early; testing per capita is ~4x most peer EU countries with some regions testing nearly full population

Norway

~8,000

Quickly scaled testing, e.g. drive-through testing available 7 days after first confirmed case; instituted punishment for quarantine violations

^{1.}Based on University of Oxford, "Our World in Data- How many tests for COVID-19 are being performed around the world?", accessed March 20, 2020. U.S., Italy and Norway figures from March 20, Spain from March 18, UK from March 17. France from March 15.

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Sector-specific impact

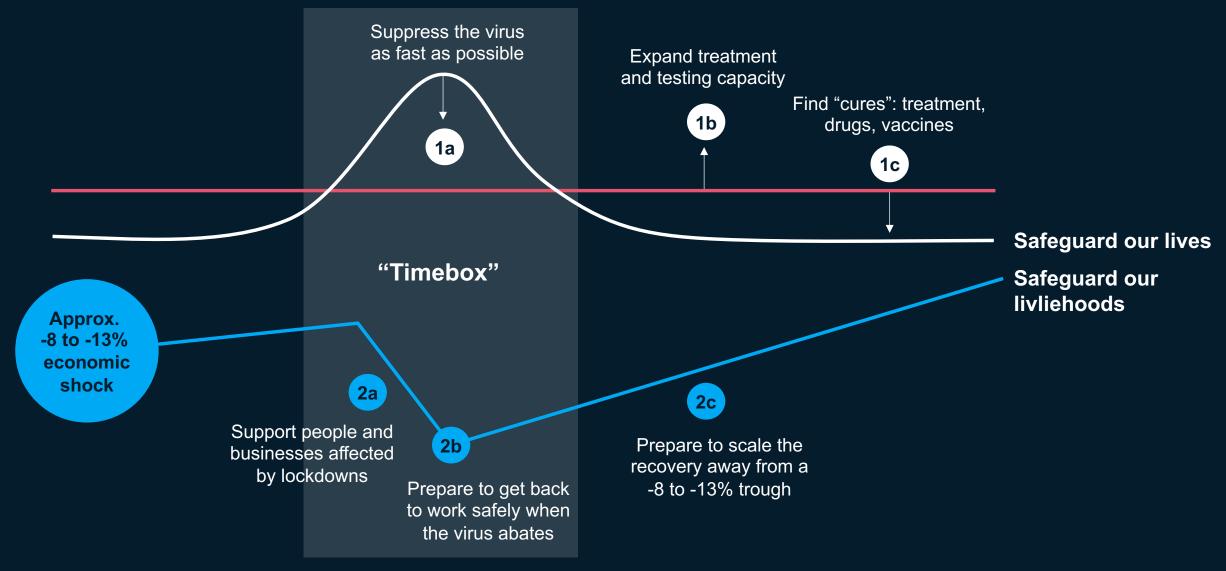
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Leading indicator dashboards

Imperatives for "timeboxing" the virus and the economic shock



Scenarios for the economic impact of the COVID-19 crisis

growth

growth

GDP impact of COVID-19 spread, public health response, and economic policies

Virus spread and public health response

Effectiveness of the public health response in controlling the spread and human impact of COVID-19

Rapid and effective control of virus spread

Strong public health response succeeds in controlling spread in each country within 2-3 months

Effective response, but (regional) virus resurgence

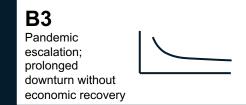
Public health response initially succeeds but measures are not sufficient to prevent viral resurgence so social distancing continues (regionally) for several months

Broad failure of public health interventions

Public health response fails to control the spread of the virus for an extended period of time (e.g., until vaccines are available)

B1 Virus contained, but sector damage; lower long-term trend



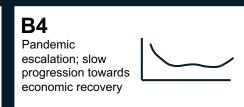


Ineffective interventions

Self-reinforcing recession dynamics kick-in; widespread bankruptcies and credit defaults; potential banking crisis

Virus contained, slow recovery



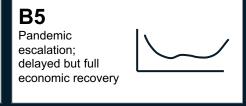


Partially effective interventions

Policy responses partially offset economic damage; banking crisis is avoided; recovery levels muted







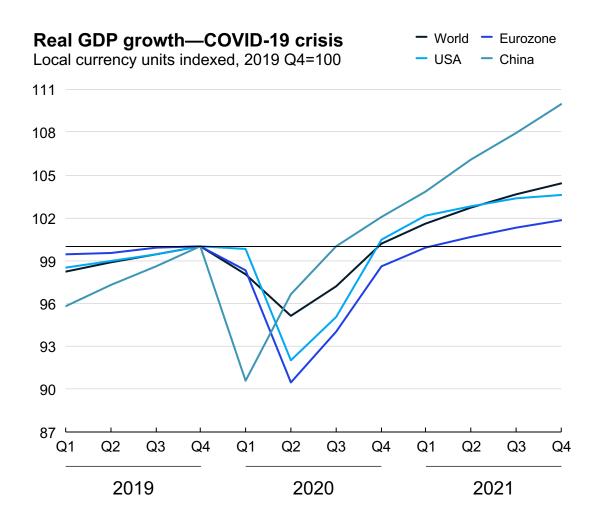
Highly effective interventions

Strong policy responses prevent structural damage; recovery to precrisis fundamentals and momentum

Knock-on effects and economic policy response

Speed and strength of recovery depends on whether policy moves can mitigate self-reinforcing recessionary dynamics (e.g., corporate defaults, credit crunch)

Scenario A3 virus contained



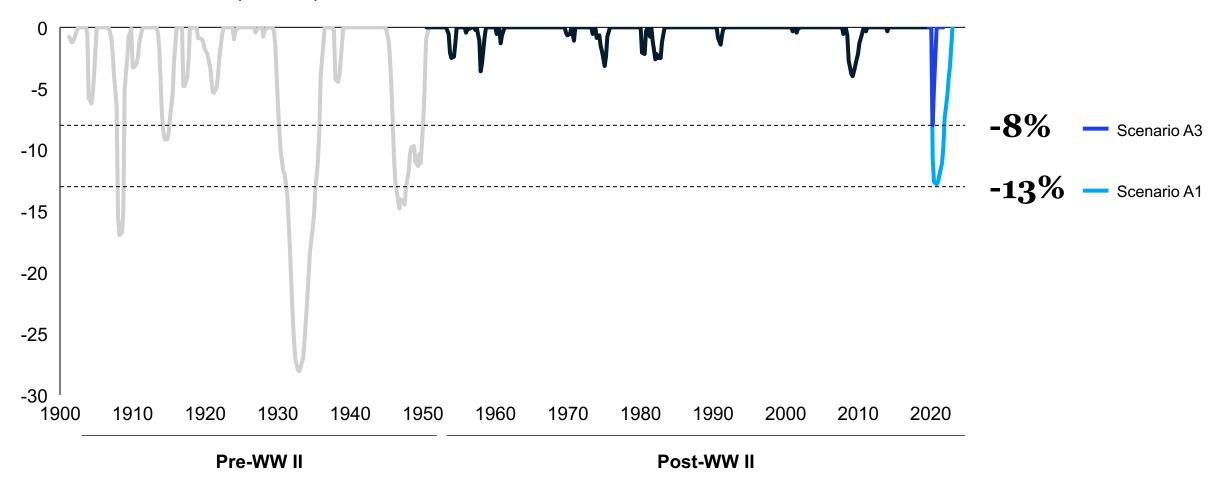
	Real GDP drop 2019 Q4–2020 Q2 % change	2020 GDP growth % change	Time to return to pre-crisis Quarter
China	-3.3%	-0.4%	Q3–2020
USA	-8.0%	-2.4%	Q4 –2020
World	-4.9%	-1.5%	Q4–2020
Eurozone	-9.5%	-4.4%	Q1–2021

^{1.} Seasonally adjusted by Oxford Economics

COVID-19 U.S. impact could exceed anything since the end of WWII

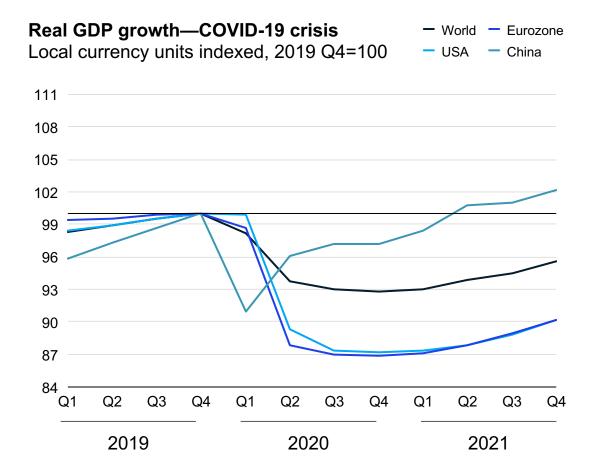
United States real GDP

%, total draw-down from previous peak



Scenario A1 muted recovery

Real GDP, local currency indexed



	Real GDP drop 2019 Q4–2020 Q2 % change	2020 GDP growth % change	Time to return to pre-crisis Quarter
China	-3.9%	-2.7%	Q2 – 2021
USA	-10.6%	-8.4%	Q1 – 2023
World	-6.2%	-4.7%	Q3 – 2022
Eurozone	-12.2%	-9.7%	Q3 – 2023

^{1.} Seasonally adjusted by Oxford Economics

Indicators

Epidemiological

What business leaders should look for in coming weeks

There are three questions business leaders are asking, and a small number of indicators that can give clues

Depth of disruption

How deep are the demand reductions?



• Time to implement social distancing after community transmission confirmed

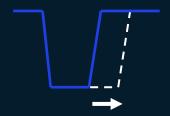
- Number of cases absolute (expect surge as testing expands)
- Geographic distribution of cases relative to economic contribution

• Cuts in spending on durable goods (e.g., cars, appliances)

- Extent of behavior shift (e.g., restaurant spend, gym activity)
- Extent of travel reduction (% flight cancellations, travel bans)

Length of disruption

How long could the disruption last?



- Rate of change of cases
- Evidence of virus seasonality
- Test count per million people
- % of cases treated at home
- % utilization of hospital beds (overstretched system recovers slower)
- Availability of therapies
- Case fatality ratio vs. other countries
- Late payments/credit defaults
- Stock market & volatility indexes
- Purchasing managers index
- Initial claims for unemployment

Shape of recovery

What shape could recovery take?



- Effective integration of public health measures with economic activity (e.g. rapid testing as pre-requisite for flying)
- Potential for different disease characteristics over time (e.g. mutation, reinfection)

- Bounce-back in economic activity in countries that were exposed early in pandemic
- Early private and public sector actions during the pandemic to ensure economic restart

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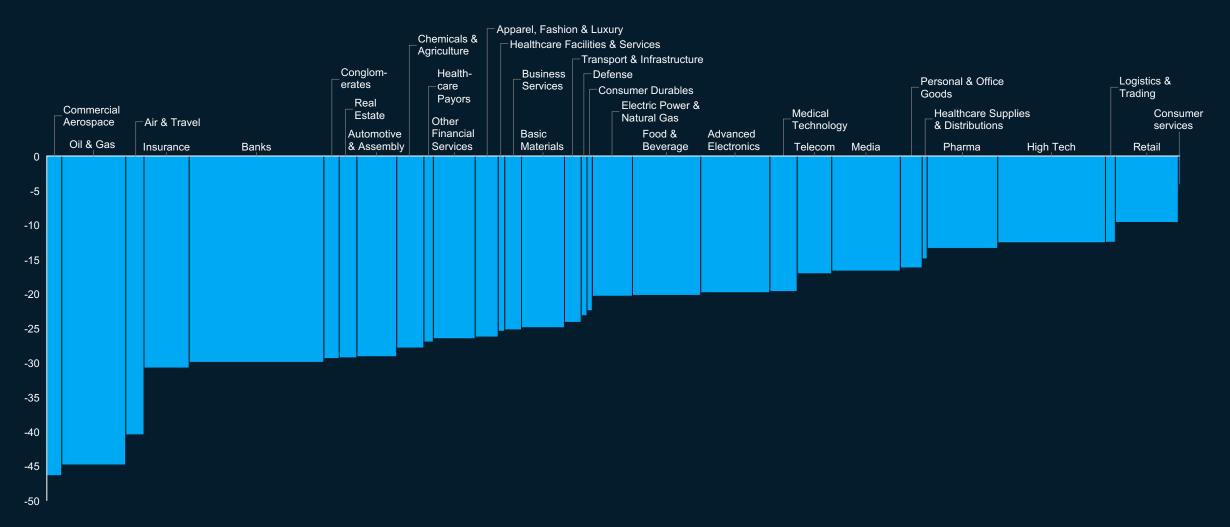
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Leading indicator dashboards

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

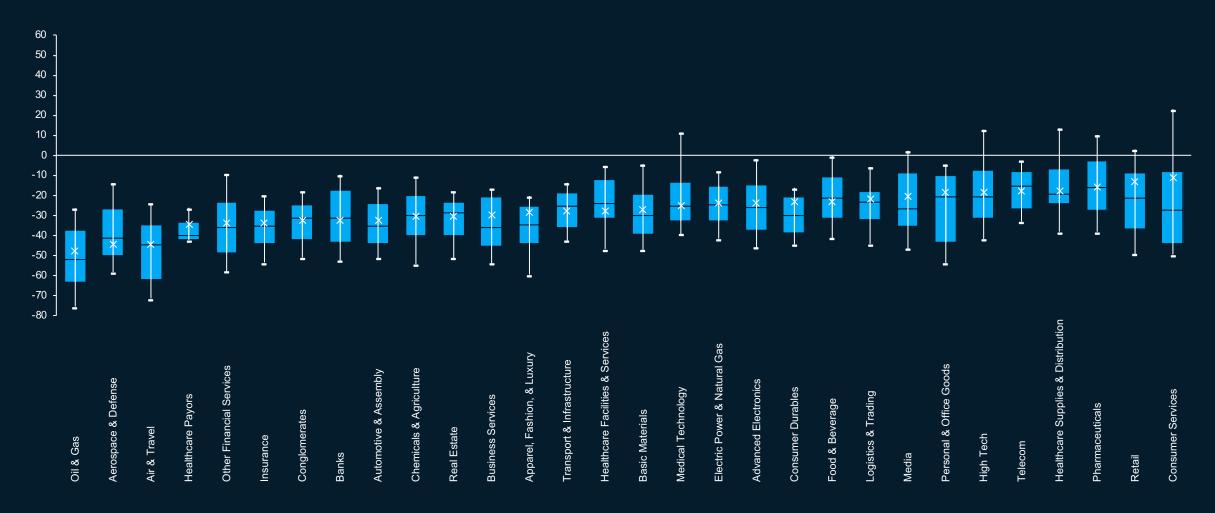
Weighted average year-to-date local currency total shareholder returns by industry in percent¹. Width of bars is starting market cap in \$



^{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

Even within sectors, there is significant variance between companies

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



^{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

The hardest hit sectors may not see restart until 2021

Preliminary views on some of hardest hit sectors based on partially effective scenario—subject to change

	Preliminary views on some of nardest nit sectors based on partially effective scenario—subject to change				change		
	Commercial aerospace	Air & travel	Insurance carriers	Oil and gas	Automotive	Apparel/fashion/ luxury	
Estimated degree of impact, in terms of duration							
Estimated global restart	Q3/Q4 2021	Q1 / Q2 2021	Q4 2020	Q3 2020	Q3 2020	Late Q2/Q3 2020	
Average change in stock price	-44%	-44%	-33%	-48%	-32%	-28%	
Industry specific examples	Preexisting industry challenges, a quick drop in possible revenue, and high fixed costs cause near- term cash flow and long- term growth uncertainty It may take years to recover from production and supply chain stoppages, due to critical vendors located in areas impacted by the virus Long order backlogs mitigate some concerns, though rapid adoption of remote work technologies may put a dent in high- profitability business travel	Deep, immediate demand shock 5–6x greater than Sept 11; ~70–80% nearterm demand erosion due to international travel bans and quarantines now prevalent in 130+ nations Northern hemisphere summer travel peak season deeply impacted since pandemic fears coincide with peak booking period Recovery pace faster for domestic travel (~2–3 quarters); slower for longhaul and internationall travel (6+ quarters)	US insurers have been strongly affected, especially reinsurers and life and health insurers Reduced interest rates and investment performance impacting returns—especially for longer-tail lines Disruptions expected in new business and underwriting processes due to dependence on paper applications and medical underwriting	Oil price decline driven by both short-term demand impact and supply overhang from OPEC+ decision to increase production Oversupply expected to remain in the market even after demand recovery, and post 2020, unless OPEC+ decides to cut production	Existing vulnerabilities (e.g., trade tensions, declining sales) amplified by acute decline in Chinese demand, continued supply chain and production disruption (in China, rest of Asia, EU) to amplify impact despite ongoing Chinese economic restart Headwinds to persist into Q3 given tight inventories (<6 weeks), supply chain complexity (therefore, minimal ability to shift)	Overall decline in private consumption and exports of services Demand for apparel categories down sharply overall and expected to take longer to return than economic restart; online growth exists (though hampered by labor shortage) Retail stores temporaril closed in many parts of the world—high regional variation	

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Leaders need to think and act across 5 horizons



Resolve

Address the immediate challenges that COVID-19 represents to the institution's workforce, customers, technology, and business partners



Resilience

Address near-term cash management challenges, and broader resiliency issues during virus-related shutdowns and economic knock-on effects



Return

Create a detailed plan to return the business back to scale quickly, as the virus evolves and knock on effects become clearer



Reimagination

Re-imagine the "next normal"—what a discontinuous shift looks like, and implications for how the institution should reinvent



Reform

Be clear about how the regulatory and competitive environment in your industry may shift



Nerve center

Managing across the 5Rs requires a new architecture based on a team-of-teams approach.



Resolve

Address the immediate social and mental challenges that COVID-19 represents to the institution's workforce, customers, and business partners, and take basic steps to protect liquidity.

Resolve: Making hard decisions on immediate challenges

come in close contact with surfaces that can spread the virus

Resolve employee, customer, supply chain, immediate liquidity, and technology concerns

	Employees	Supply chain	Customers	Immediate liquidity	Technology
Emerging concerns	Current mix of work-from-home and at-work social distancing & worker safety concerns combined with economic anxiety is driving stress and reducing productivity	Supply chain shifting from initial concern about China restart, to, continuing logistics issues, and concern about macro- environment impact on demand planning	Extreme demand reduction raising need to assuage customer concerns and put in place strict protections	Revenue drops raising need to manage immediate liquidity	Need to sustain operations and enable remote working
Example, new ideas that leading organizations are experimenting with	New team structures that work remotely: smaller, cross functional network-of-teams vs. rigid top-down organization New rules for leading remotely: clearly defined outcomes, multi-channel team communication; clear milestones or decision points; transparency Investing in the right collaboration processes: active use of joint whiteboarding, polling, doc sharing, channel based communications Leveraging technology team to empower remote work capability: online articles, collaboration tools, training on appropriate channels Caring culture: acceptance of WFH realities such as "always on" professionalism; informal socializing (virtual "water cooler" chats); authenticity Tighter routines for productivity: commit to norms, have team launches, clarify most critical meetings, set aside personal time & routine Enact "pods" for on-site personnel and leadership to minimize employee exposure while on site Agree on adaptations required for collective bargaining units (e.g., unions) and contractors	Conduct scenario planning to understand how inventory buffer changes in various disease scenarios Task S&OP team to build 3–6 plans under a range of demand scenarios month to determine required supply Leverage direct communication channels with direct customer when determining demand signals Use market insights/external databases to estimate demand for customer's customers Identify critical functions and roles and develop back-up plans	Build a plan to prioritize & protect valuable customers: • Understand what matters to them—and how their situation will evolve • Focus on cultivating the most important segments (e.g., highest margin, continuous customers, community needs, contractual obligations) Build customer trust through transparency: • Don't pursue "revenue at any cost"—judiciously choose where to invest, based on analysis and planning • Establish a rhythm of updates & engagement, offering more frequent update, targeted content, and/or individual outreach	Understand current available cash and project change over extended shutdown Identify and execute immediate, low-risk levers to improve cash position (e.g., capital projects, voluntary spend, inventory working capital) Stand up teams to run rolling 13-week cash forecasts, plan further action (e.g., monetize balance sheet), and control spend	Strengthen the service desk to prepare for higher call frequency (e.g., home work setup, remote access, VPN) Design working model (people and processes) to "keep the lights on" in critical IT functions (particularly incident coordination)
	Increase personal protective equipment where employees				

Employee work from home deep dive (1/2)

Key challenge of remote teams (if left unmitigated) is reduced efficiency and cohesion

Structure

- Any lack of clarity in roles and responsibilities, decision rights or objectives is amplified in a remote environment
- Difficult of navigating large or hierarchical organizational structures

People

- Sense of lack of direction / isolation can degrade morale and performance
- Misunderstandings or lack of clarity on priorities leading to wasted work
- Isolation and lack of social interaction leading to lower employee motivation and less cohesion as a team

Process

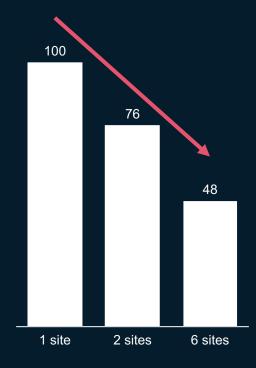
- Lower communications efficiency due to missing in-person touch, time it takes to write vs. talk, finding time together, or bad connectivity
- **Difficulty in self-organizing** to address real-time challenges
- Risk to overlook dependencies and create island solutions

Technology

- Outdated architecture, slow VPN access
- Missing tooling (e.g. for VC, co-creation, DevOps) exacerbate collaboration challenges
- Impractical security inhibits remote work, leads to team members adopting insecure workarounds

Productivity decay with # of sites

Complexity units per man-week, indexed



Employee work from home deep dive (2/2)

Approach to building effective teams in a distributed, online environment



Structure

Nature of work (e.g. real-time collaborative, vs. standardized individual; type of data accessed) influencing work-from-home arrangements and structure

Smaller, cross-functional teams with clear roles and responsibilities as well as synchronization mechanisms

A mixture of OKRs and KPIs used to communicate goals to the team and track progress against deliverables



People

Leadership's increased role in providing direction, energizing teams & connecting the dots

Focus on **cultural elements** at individual and group level that drive performance in remote work (e.g. proactiveness)

Investment into soft aspects to form a cohesive group identity despite social remoteness (e.g. through role-modeling, 1:1s, townhalls, retrospectives)



Processes

Cadence of **meetings** to **synchronize work** and **remove blockers** across teams

Clear **decision** and **escalation paths**, stage/quality-gates, workflows with roles & responsibilities to facilitate handovers

Tailored communication tools catering to different scenarios and accounting for topic complexity, output, reaction time, and team preference

Single digital **source** of **truth** across people (e.g. face book), content (e.g. standards, OKRs), performance (e.g. KPI dashboards) & process (e.g. task management boards)

Result-oriented performance management on all levels: individual, team and tribe enabled by digital dashboards



Technology

Technology setup and **infrastructure** for remote work (e.g. home office setup, VPN bandwidth, remote application access)

Adoption of **suite** of **SaaS digital tools** to facilitate effective cocreation, communication and decision making (e.g. VC, file-share, real-time communication, document co-editing, task management, etc.)

Automated **delivery pipelines** and **collaboration tools** to enable a remote product development environment

Strong and practical security standards and practices

On-site employee safety—Manufacturing example (1/2)

Manufacturing workforce safety can be increased by creating operating pods, but design considerations apply

Design considerations to building a pod	General guidance on how to apply levers	Example actions
Who to group into pods Define the minimum size group to achieve		Remove any floating workers from potential pods
desired production levels and minimize contact between employees and product	 Group pods vertically along production line and break inter line (workers working on multiple lines) and beginning/end of line transfer points (line employee picks up raw materials instead of a rover dropping off material) 	
What job is done	Reclassify jobs/roles to improve ability to form pods and decrease inter-pod contact	 Reclassify jobs (can be temporary) vertically along production line so one worker does multiple jobs on same production line versus horizontally across multiple lines (line may need to slow)
		 Remove or adjust unnecessary line contact (quality checks done by line employees versus central quality)
How the pod works together	Add additional safeguards within the pod to further limit exposure	• Ensure job tasks within pod protect the pod from itself, including additional PPE and separation throughout the shift (tasks can be adjusted to ensure 6 ft. separation)
		 Institute increased sanitation of pod and workplace (hand washing, deep cleaning after shift, etc)
		Stagger break and lunch times/locations
When the pod performs work	Change shift time and structure to limit exposure	 Adjust start/end times to avoid inter-pod contact for pods working at same time, if site has only day shifts for multiple lines – consider going to 24 hrs operation to limit lines on site at a time
		Adjust weekly schedule including going to 12-hr shifts and 2 week on/off to minimize the number of people on site over a
Where the pod performs work	Move the location of work to create social separation between pods	 day/week Modify non-work arrangements to minimize exposure including where pod is housed and how they get to work (critical operations such as power plants and refineries are considering housing employees on site)
		 Restrict access between pods, ideally with social barriers (card access, temporary walls)
		 Move production lines to ensure adequate separation and consider temporary options (tents)
		 Close public spaces (cafeterias, gyms) and find alternate locations for workers to eat and move around
Plan for pod event	Develop response scenarios for likely	Practice and train on likely scenarios (immediate and long-term response)
	events such as a pod test positive	Define production flexibility and back-up options if line goes down
		• Define backup pod staffing (refresh skills matrix to see who could cover, consider keeping backup pod available in case of even

On-site employee safety—Manufacturing example (2/2)

Manufacturing workforce safety can be increased by creating operating pods, but design considerations apply

Current situation – 3 shifts

24 hours x 5 days model

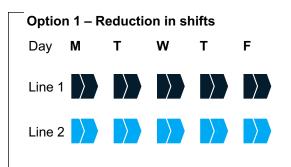
Operators dedicated to either Line 1 or Line 2

Day M T W T F

Line 1

Line 2

Production "lines" are used for illustrative purposes but the reasoning can be extrapolated to manufacturing sites with the same products, different parts of a site, different steps in a process, etc.



Description

16h x 5day model

5 ramp ups per week

Allows for deep cleaning on 3rd shift

Pros

Incremental change, easy to implement

Dedicated people to each line

Maintenance can be done in 3rd shift

Flexible

Cons

Daily ramp ups and downs causing inefficiencies

Process cycle time must be shorter than 16h if cannot be interrupted

Option 2 – Reduction in pace

Day M T W T F

Line 1 \(\rightarrow \righ

Line 2

24h x 5day model

Production run at lower speed (less FTEs assigned to lines)

Incremental change, easy to implement

Dedicated people to each line

Flexible

One ramp-up and down per week

Depending on process, can result in inefficiencies

Option 3 - Dedication to a line

24h x 5day model

Operators are dedicated to line 1 and then to line 2 – creating time barrier for interline contact

Machines productive time/running time ratio is maximized

One ramp-up and down per week

Cross training is needed for whole staff, more difficult to implement

Needs good demand forecast



Resilience

Address near-term cash management challenges, and broader resiliency issues

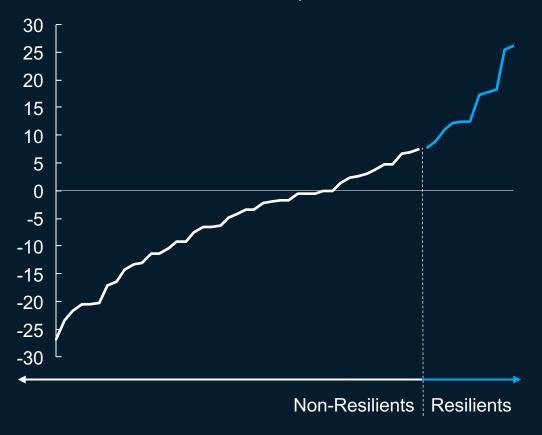
Resilience: Speed + discipline is key

"The Resilients"

Teams seeking to boost resilience during COVID-19 need to learn lessons from the companies that survived and thrived in the last recession

Sector-specific power curves show dramatic differences in performance during the recession

Mean TRS for automotive sector, 2007–11



The top 20% of companies that emerged from the recession are called the Resilients

These Resilients didn't have any particular starting advantage (e.g., existing portfolio). Instead, they managed to achieve a small lead, which they then extended over the next 10 years.

Two words that define their success: Speed + discipline.

Speed + discipline—how the Resilients stood apart

Speed

Discipline

EBITDA and revenues outperformance

Resilients companies sustained¹ organic revenue growth early and throughout the recession and on revenue in recovery

Early and hard moves

Resilients moved faster, harder on productivity; preserved growth capacity

M&A activities outperformance

Resilients divested more during the downturn and acquired more in the recovery

De-leveraging outperformance

Resilients cleaned-up their balance sheets ahead of the downturn

How Resilients performed relative to Non-Resilients:

30%

Increase in revenue

3X

Reduction in operating costs; they also moved 12–24 months earlier

1.5X

Divestiture in the downturn

~5% pts.

Deleveraged before trough





6 steps toward end to end resilience plan

01

Identify and prioritize key risks

Identify and prioritize key macro, sector and company idiosyncratic risks based on exposure and impact

04

Establish portfolio of interventions

Identify an end to end portfolio of interventions and trigger points

02

Develop tailored scenarios

Develop company specific scenarios based on the range of outcomes of the highest priority risks

05

Set up a cash war room / dashboard

Improve cash transparency and implement tighter cash controls to mitigate downside scenarios

03

Conduct stress testing of financials

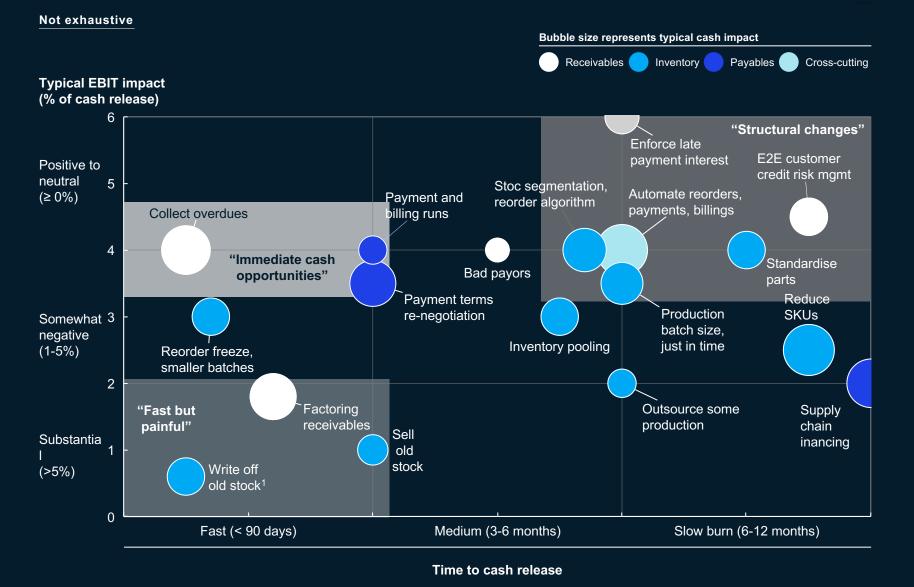
Stress test the P&L, Balance Sheet, Statement of Cash Flows to assess and frame the potential gaps for planning

06

Build the resilience dashboard

Build the dashboard of key leading indicators to monitor that can be dynamically updated

Example prioritization of initiatives related to cash



3

Return

Create a detailed plan to return the business back to scale quickly

Return: Companies must prepare

Look for some of the following...

Decline in cases

Health response ready

Herd immunity (will take time)

Then start thinking about...

Protect employees

Reassure customers

Restore supply chain

Reinstate or revise?

- Sustained decline in the number of cases in your area without rebound
- No community transmission/very low levels in your area
- Relaxation of shelter-in-place/quarantine orders
- Testing widely available with fast turnaround
- Availability of antibody testing—available workforce who have immunity
- Availability of an effective vaccine (Spring 2021 soonest)
- Controlled access to all job locations: mandatory temperature checks, hand-washing
- Targeted measures based on job function and "risk profile" instead of blanket shutdown
- Invest in a "safe environment": pre-flight tests of passengers and crew for airlines, in-store sanitizers for retail, transparent safety record e.g. "X days since last infection"
- Diversify supply chain and critical vendors to different geographic locations
- Explore contractual features like take-or-pay to pool risk while rebuilding demand
- Consider the effects of business interruption or work-from-home—what business practices should be reinstated, revised, or even removed?



Reimagination and reform

Re-imagine the "next normal"—what a discontinuous shift looks like, and implications for how the institution should reinvent

Be clear about how the regulatory and competitive environment in your industry may shift

Reimagination: Could we really emerge in a new normal?

The facts today (examples)

'Shelter at home' moves are causing the largest demand drawdowns modern economies have seen in decades

The virus spread, and public health and economic response vary widely across countries today

Consumers are recalibrating on spend, having experienced a new model of lower in-person & even higher virtual connections, while learning new skills

Doctors are pointing to the inherent challenges of providing hospital-centered care during pandemics

Why a "new normal" may be possible

A self-sustaining recession may occur if governments are not able to respond effectively to the new threats that economies face

The speed and effectiveness of countries response could reshape political and economic relationships globally

When consumer demand returns, it may be for different categories than what existed previously, and virtual services could get adopted far faster than originally expected

The world may move closer to a more community or patient centered model of healthcare, aided by newer advances in AI, health monitoring, telemedicine

Resetting to new normal is hard

Much like Resilients' research, our research on companies more broadly (Strategy Beyond the Hockey Stick) shows that most companies (80% of all corporations) did not add economic value beyond their cost of capital

Only 8% of the companies studied were able to successfully move towards adding economic value consistently

The ones that did so, did it through 5 moves that may be critical for companies to consider

Needs appetite for big moves



M&A

Conduct deals adding to 30% of market cap over a decade



Reallocation

Reallocate 50% of capital among BUs over a decade



Capex

Top 20% in sector on capital spending per unit of sales



Productivity

Increase productivity to be in top 30% of industry



Differentiation

Increase gross margin to be top 30% of industry

Reform:

What does the "day after" look like?

The need for governments to intervene could drive meaningful changes to regulatory environment across sectors globally

Will healthcare go through a regulatory driven reform movement, similar to the financial sector after 2008/09 financial crisis?

How will pre-existing concerns on trade barriers play out in the post-COVID environment?

To what degree will bailouts of sectors come with conditions that meaningfully change the landscape of that sector in the future?

Will concerns around supply chain resilience spur a large-scale nearshoring or en masse qualifications of other suppliers, partly a result of regulatory and government considerations?

Will the twin trends of remote work and gig economy mean that a move towards a new organizational social contract is accelerated, with new regulatory implications for worker rights?



Nerve center

Managing across the 5Rs requires a new architecture based on a team-of-teams approach.

Managing across 5Rs requires a new architecture: Nerve Center

"Team of teams" with clear roles, responsibilities, and decision authority





Maintains multiple scenarios; provides one planning scenario. Facilitates future state exercises

Owns

Reform

Input to

- Reimagination
- Resolve



Team 2 - Design

Strategic moves team

Uses planning assumptions (& scenarios) to craft trigger based portfolio of strategic moves

Owns

- Resilience
- Reimagination

Input to

Resolve



Team 3 - Decide

Integrated operations team

Maintains operating cadence, risk maps, situation reports, tracks progress, and ensures ownership

Owns

 Timing & facilitation of strategic decision-making

Input to

All 5 Rs



Team 4 - Deliver

Workforce, SC, customer, cash

Ensures extreme clarity & builds a cross-functional team to achieve outcome

Owns

- Resolve
- Return

Divergent / creative thinking

5%

of Nerve Center capacity

Divergent / creative thinking

5%

of Nerve Center capacity

Mix – Divergent / convergent

10%

of Nerve Center capacity

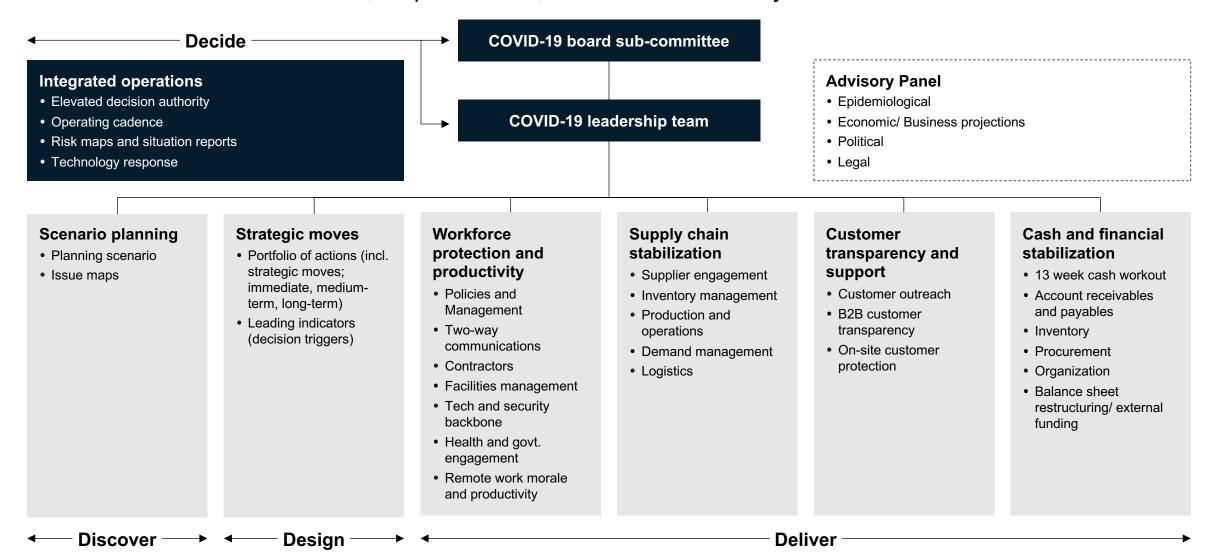
Convergent / linear thinking

80%

of Nerve Center capacity

Managing across 5Rs requires a new architecture: Nerve Center

"Team of teams" with clear roles, responsibilities, and decision authority



Leaders should expect Nerve Center to evolve as crisis shifts



Resolve

Gets most leadership attention in early phase

Can be integrated into 'day to day' operations over time



Resilience

Most critical post the earliest phase of the crisis (once the extent of impact is clearer, and rate of new news slows down)



Return



Reimagination

Starts to become critical post the earliest phase of crisis, as well as once early signs of a return begin to reappear



Reform



Basic structure and operating principles of Nerve Center remain unchanged, but leadership time dedication changes

01

COVID-19: The situation now 02

Scenarios and path forward

03

Sector-specific impact

04

Planning and managing COVID-19 responses

05

Leading indicator dashboards

Supply chains are being disrupted around the world, but the full impacts have not yet been felt

npact High
Medium
Low

Supply—production



Logistics—transportation



Customer demand







Across China, ex-Hubei, with large enterprises restarting, albeit with partial capacity, at much higher rate than smaller ones



or



60% China flights suspended⁵

converting flights for cargo⁶

Commercial flights account for ~50%

of air cargo capacity, some airlines

or



60% truck staff available

1–14 day quarantine- and capacityinduced increase in freight transport times



20.5% decline in retail sales

China consumer sentiment since January sharply lower; online/express deliveries up

66% BDI increase

1.4M idle containers

Baltic Dry Index¹ 66% higher since CLNY³ but at 10% lower levels compared to March 2019

5.5% of global container capacity

affected by reduced demand

2x TAC index

TAC index rate +27% for U.S.— China, +93% EU–China², +37% China–U.S., and +45% for China– EU since CLNY³

Medium

Demand for express last-mile delivery has spiked in China due to quarantine and social distancing

Medium

Europe and U.S. sentiments evolving, but localized

What to expect

Situation

today

Medium

Parts and labor shortages leading to further supply chain disruptions (e.g., decreased production capacity)

Other regions will be facing production capacity reductions

Customer pressure for prioritization

7,000 TEU/week reduction

Volumes will return as factories restart, may see peak for restocks

Future capacity 2.3% reduction for a Asia-U.S. route from May due to sea freight alliance revisions

5% global air traffic decrease⁴

Decline in capacity available due to travel ban on commercial flights

YoY global air freight belly capacity reduction of 14% in March 2020⁴

Rates likely to continue to increase

High

Trucking capacity constraints in China likely to ease

Declines at U.S. ports foreshadow declines in U.S. intermodal (rail)

High

Demand slump may persist

Inventory "whiplash"—7–8 weeks for auto, 2–4 weeks for high-tech

Inventory hoarding and demand spikes due to uncoordinated actors exacerbate supply chain

Medium

Impact on freight will take an extended period of time to correct with slower ramp-up

Logistics capacity returns but faces constraints; near-term price increases

- 1.Assessment of risk premium to ship raw materials on a number of shipping routes, data as of 3/13 2.Frankfurt (FRA) to Shanghi (PVG) used as a proxy
- 3.End of extended Chinese Lunar New Year holiday (2/7-3/13 for BDI, 2/10-3/2 for U.S.-China TAC, 2/10-3/9 for other TAC routes)
- 4. Estimated prior to implementation of EU-US travel ban
- Commercial flights from China
- Companies such as Cathay Pacific and Singapore Airlines now starting to fly empty passenger aircrafts as dedicated cargo planes

COVID-19 Leading indicator dashboard for China

Tracking toward economic restart

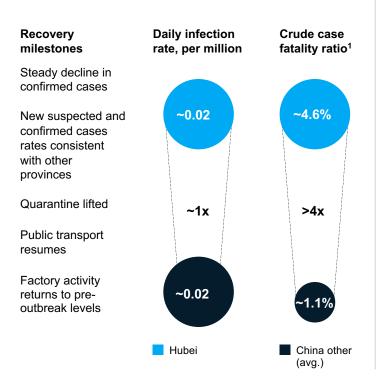
Hubei impact

How deep is the impact, and when could economic activity restart?

Late Q2

Hubei remains deeply impacted; return to economic activity tough to foresee until

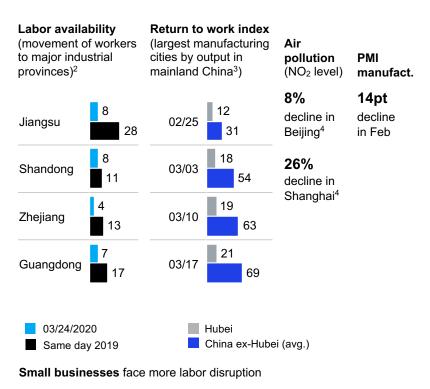
mid Q2



China economic restart

When could economic activity restart in China (ex-Hubei)?

Late Q1 Restart has begun, especially for larger companies, despite challenges such as labor shortages and movement of goods

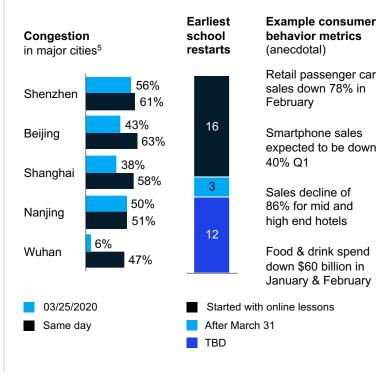


China consumer confidence

When will Chinese consumer confidence and purchasing activity return?

Q2 Consumer spending in China spend may lag behind economic restart

Tourism and some other sectors impacted well into Q2

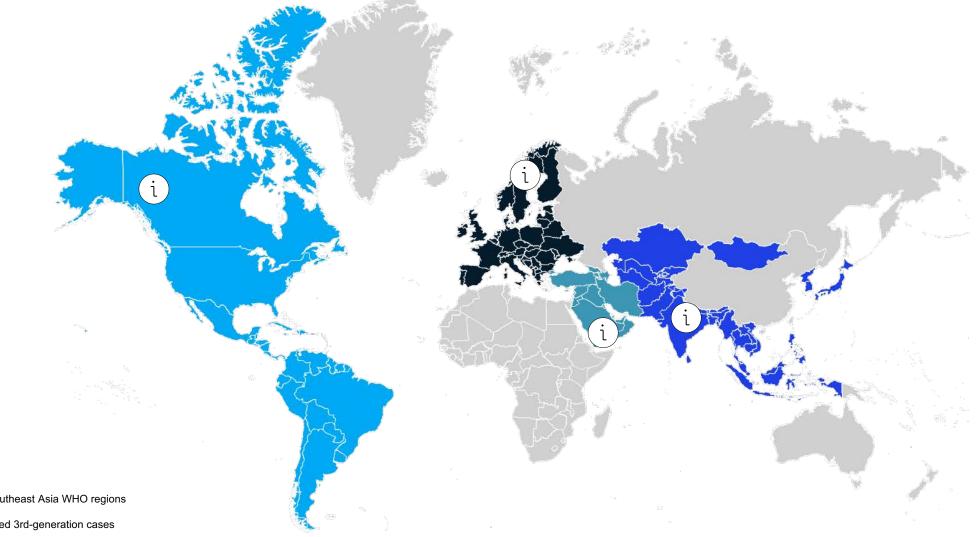


COVID-19 leading indicator dashboard

Propagation of COVID-19 across new transmission complexes

(i) Click on buttons for more detail

- Europe
- Americas
- Asia (ex-China)¹
- Middle East²



1.Includes Western Pacific (excl China) and Southeast Asia WHO regions 2.Eastern-Mediterranean WHO region

Note: All countries and regions have documented 3rd-generation cases

(i) Middle East



Example country	Epidemiological Indicators ⁷								_	Economic/policy indicators			
	Date of initial case	Total number of cases	New cases in last 14 days	5-day new ca	ase trend	d		Crude case fatality ratio ¹		Number of countries/ territories restricting travel	Number of airlines suspending service to country ³	Traffic congestion ⁴	School closures
Iran	02/20	23,049	15,007	1,046	966	1,028	1,411	7.3%6		142	~ x9	Data N/A	Country-wide
Rest of region	02/15	4,166	3,630	195 359	348	678	429	1.3%					



Stage 1: Small number of cases identified; no sustained local transmission

Stage 2: Disease spread and sustained local transmission

Stage 3: Government action and shifts in public behavior. Not all affected regions enter stage 3, but interventions and economic impact signal prolonged recovery

Stage 4: Case growth and stretched health systems

Stage 5: New cases drop, activity resumes

CDC travel health notice

Warning level 3

Alert level 2

None

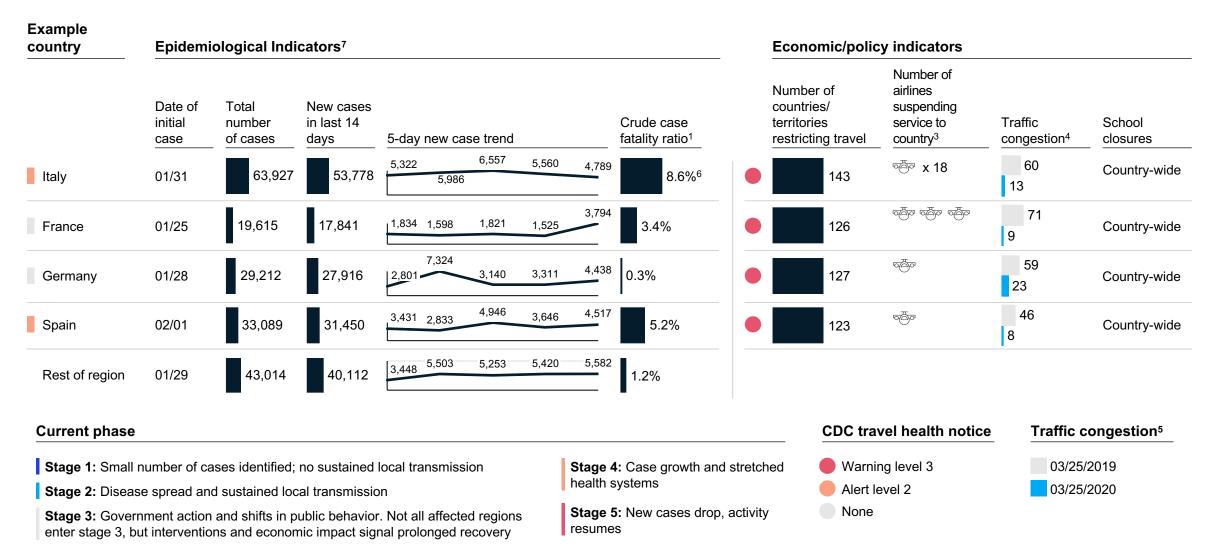
Traffic congestion⁵

03/25/2019

03/25/2020

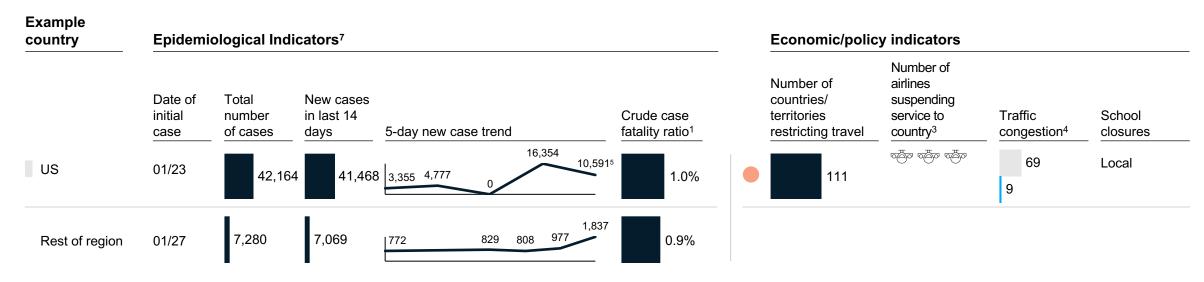
(i) Europe





(i) Americas







Stage 1: Small number of cases identified; no sustained local transmission

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Alert level 2

None

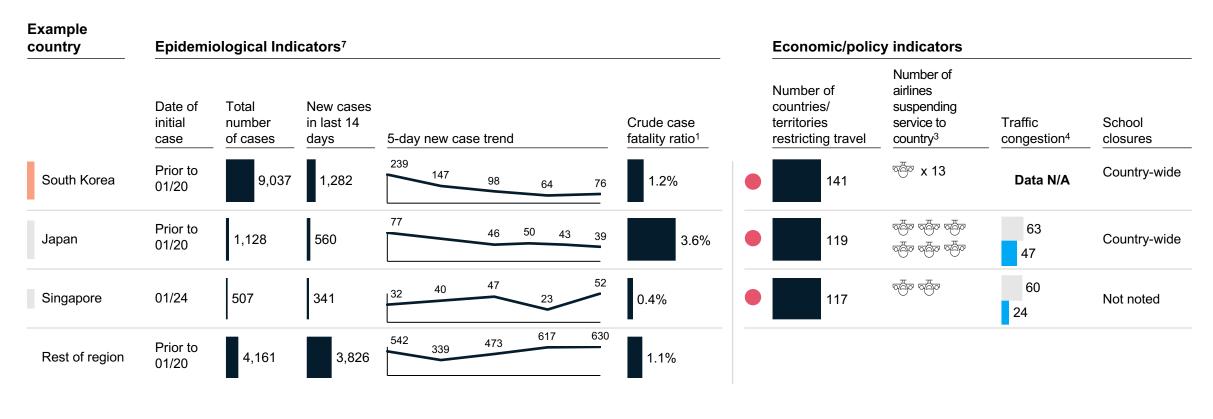
Traffic congestion⁵

03/25/2019

03/25/2020

(i) Asia (excluding China)







Stage 1: Small number of cases identified; no sustained local transmission

Stage 2: Disease spread and sustained local transmission

Stage 3: Government action and shifts in public behavior. Not all affected regions enter stage 3, but interventions and economic impact signal prolonged recovery

Stage 4: Case growth and stretched health systems

Stage 5: New cases drop, activity resumes

CDC travel health notice

Warning level 3
Alert level 2

None

Traffic congestion⁵

03/25/2019

03/25/2020

COVID-19 stage detail

	Stage 1	Stage 2	Stage 3 •	Stage 4	Stage 5	
Epidemio- logical indicators	Small number of cases identified No sustained local transmission	Disease spread and sustained local transmission	Disease spread widely and sustained local transmission	Case growth and stretched health systems	New cases drop, while surveillance continues to monitor subsequent waves	
Economic indicators	No significant impacts	Minor impact, primarily on supply side	Government interventions are instituted, impacting consumption	Consumption slump and inventory "whiplash" due to quarantine measures	Consumption begins to rise, as quarantine begins to be rolled back	
				Inventory hoarding due to uncoordinated actors exacerbating supply chain		
Social indicators	Activity remains normal	Governments may begin coordinating containment activities	Shifts in public behavior begin in response to and multi-	Larger numbers of citizens remain at home in response to	Social activity begins to resume	
		Activity remains mostly normal	sectoral government actions	the implementation of gov't contingency plans		

Source: WHO Pandemic Stages

References

COVID-19 leading indicator dashboard for China

- 1. Case fatality ratio calculated as (deaths on day X) / (cases on day X). Previous versions of this dashboard calculated CFR = (deaths on day X) / (cases on day X–7) to account for incubation
- 2. Measures movement of population into destinations as of 3/22/2020
- 3. Wuhan included only for comparison
- 4. 7-day average (17–Mar to 24–Mar) compared to 2019
- 5. Car traffic only. Congestion reflects percentage increase in travel time compared to free-flow conditions

Region-specific details

- 1. Case fatality rate calculated as (deaths on day X) / (cases on day X). Dashboards before February 29 calculated CFR as (deaths on day X) / (cases on day X–7) to account for incubation
- 2. Assessment based on observed stoppage in growth of cases and medical community's opinion validated by external sources
- 3. Anecdotal reports of airline suspensions based on press searches
- 4. Based on representative cities: Tokyo, Singapore, Milan, Paris, Berlin, Madrid, Los Angeles
- 5. 0 new reported cases in US on 3/22 likely a reporting anomaly and not indicative of overall trend
- 6. Crude case fatality ratio likely to fall as testing becomes more widely available
- 7. Epidemiological data current as of 3/24 WHO situation report

McKinsey & Company

