McKinsey & Company

### COVID-19: Briefing note

Global health and crisis response

Updated: March 25, 2020

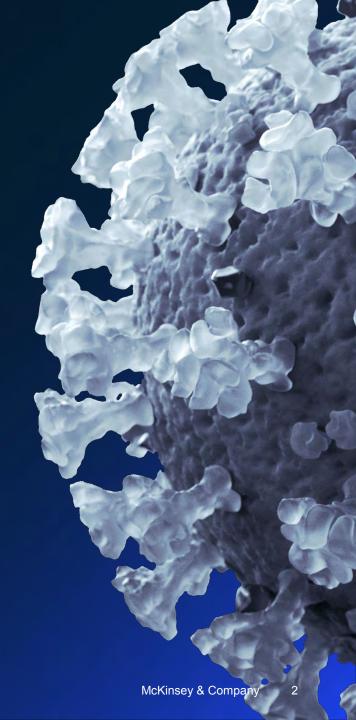
### COVID-19 is, first and foremost, a global humanitarian challenge.

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, including 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 for institutions**

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

Across these dimensions, establishing a Nerve Center can ensure speed without sacrificing decision quality

# ontents

01

02

03

04

05

COVID-19
The
situation
now

Scenarios and path forward

Sectorspecific impact Planning & managing COVID-19 responses

Leading indicator dashboards

### The global spread is accelerating with more reports of local transmission

Latest as of March 25, 2020

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

### Impact to date

>380,000

Reported confirmed cases

Deaths

**194** 

Countries or territories with reported cases<sup>1</sup>

>115

Countries or territories with evidence of local transmission<sup>2</sup>

>75

Countries or territories with more than 100 reported cases<sup>1</sup>

>16,000

0.4%

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

>160%

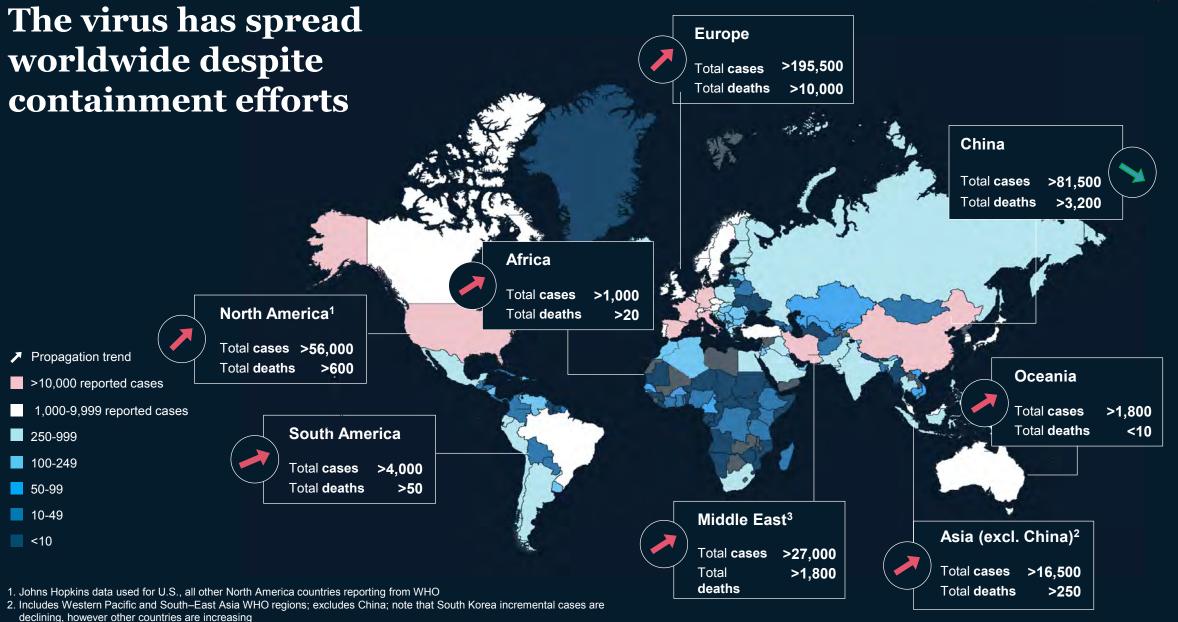
Increase in reported cases March 18–24 from Europe

35

New countries or territories with cases March 18–24

Previously counted only countries; now aligned with WHO reports to include territories and dependencies; excluding cruise ship

Previously noted as community transmission in McKinsey documents; now aligned with WHO definition



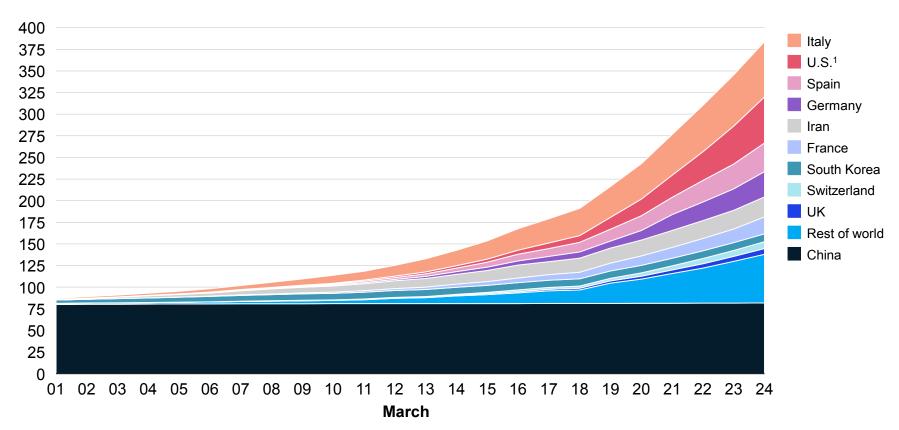
Source: World Health Organization, Johns Hopkins University, McKinsey analysis

3. Eastern-Mediterranean WHO region

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

### Cumulative number of cases since March 1 – March 24





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

### Asia:

Incremental cases for China and South Korea have slowed significantly, with majority of new cases in China categorized as imported versus local transmission.

### **Europe:**

In contrast, European transmission has increased significantly this month, led by Italy with nearly 60,000 total cases. Close monitoring of incremental case counts across a number of European countries in the upcoming days will be critical to determining if distancing measures are having effect.

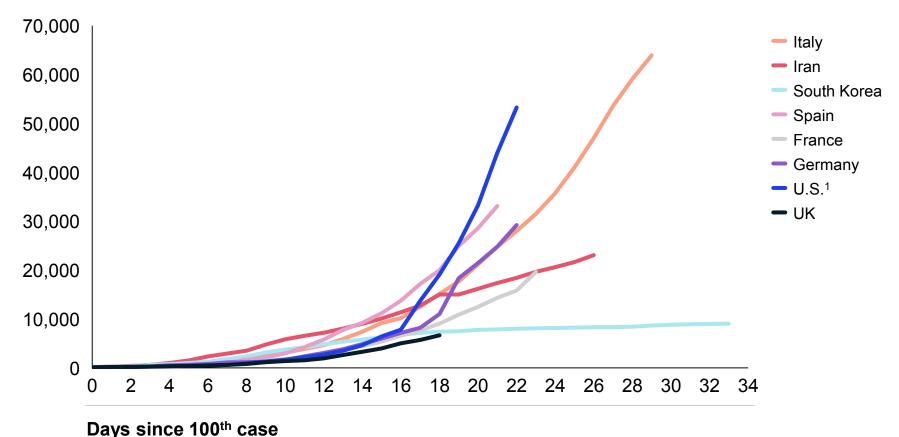
### **United States:**

The U.S. has seen total cases increase nearly ~8x in the last week, from ~6,500 on March 17 to ~50,000+ on March 24; the U.S. now has the third largest number of total cases, following China and Italy and is growing at a rate of ~10k cases per day (March 23-March 24).

<sup>1.</sup> U.S. data from Johns Hopkins University CSSE (March 24 data point from live tracker from 1400PT); all other data from WHO Situation Reports

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

### **Cumulative number of cases**



<sup>1.</sup> U.S. data from Johns Hopkins University CSSE (March 24 data point from live tracker from 1400PT); all other data from WHO Situation Reports

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

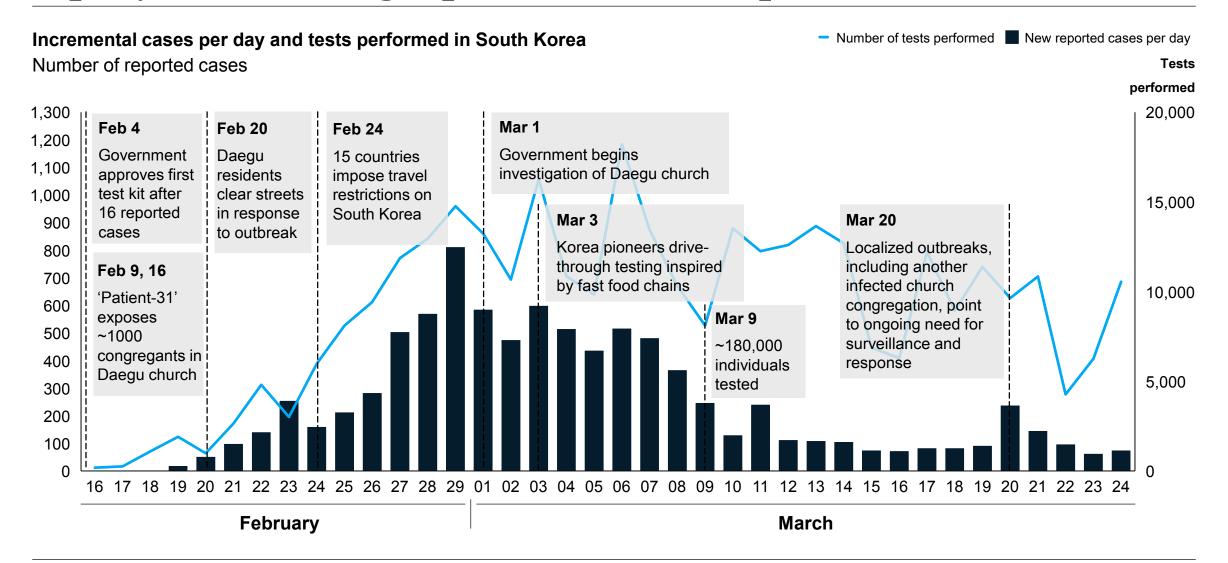
### Select country detail

Italy: Despite enforcement of national lockdown, cases are continuing to rise; low testing rates among non-critical cases in select regions may be allowing the virus to spread in undiagnosed clusters.

South Korea: Aggressive testing, contact tracing and surveillance, and mandatory quarantines are helping isolate virus clusters and dramatically slow spread of outbreak in Daegu.

United States: Accelerating transmission and recent scale up in testing have seen dramatic rise in cases at a rate higher than that of Italy; social distancing measures are being rolled out primarily at the state and local level.

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

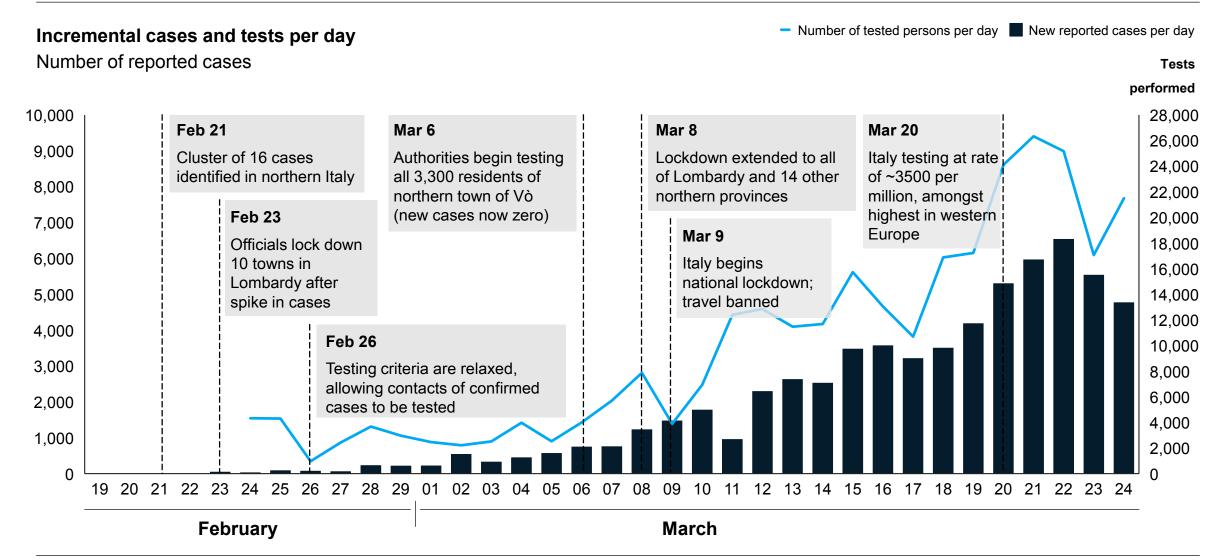


### China: Rapid lockdowns were employed to manage outbreak before ramping up testing and response capabilities



<sup>1.</sup> Changes in new case tracking and reporting methodology yield spike in reported cases

### Italy: As the country scales testing, the effects of national lockdown on viral transmission have yet to be determined



### 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"

Border closures and city-level lockdowns, guarantines "Shelter-in-place" restrictions on individual movement Mandatory closures of businesses



### Test, track, and isolate

"South Korea model"

Aggressive testing of suspected cases, clusters (5000+ tests per million population) Contact tracing and isolation via surveillance Quarantine enforced by government monitoring

### **Testing**

actions

XX = tests per million people<sup>1</sup>

Characteristic

### Countries' responses

U.S.



State and city-level closures: testing lagging

other

countries

France



~560

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

### **Spain**



~640

National lockdown limiting non-essential movements; reported logistical issues limiting testing capabilities

### UK



~960

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

### Italy



~3,500

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

5.000

### Norway



~8,000

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

<sup>1.</sup>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.

# ntents

01

COVID-19 The situation now 02

Scenarios and path forward

03

Sectorspecific impact 04

Planning & managing COVID-19 responses

05

Leading indicator dashboards

### The Imperative of our Time

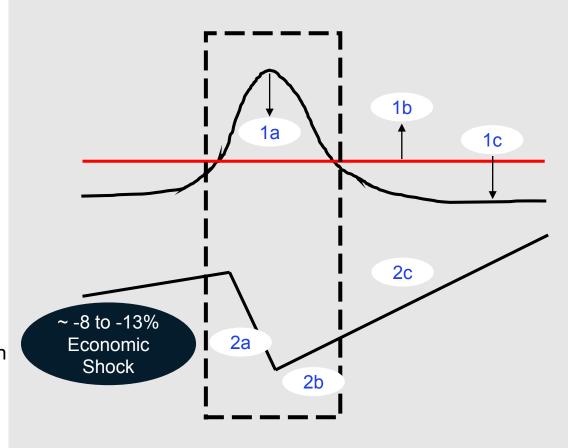
### Imperative 1: SAFEGUARD OUR LIVES

- 1a. Suppress the virus as fast as possible
- 1b. Expand treatment and testing capacity
- 1c. Find "cures"; treatment, drugs, vaccines

### Imperative 2: **SAFEGUARD OUR LIVELIHOODS**

- 2a. **Support people and businesses** affected by lockdowns
- 2b. Prepare to get back to work safely when the virus abates
- 2c. Prepare to scale the recovery away from a -8 to -13% trough

### "Timeboxing" the Virus and the Economic Shock



### Scenarios for the economic impact of the COVID-19 crisis

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

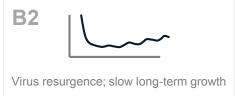
### Effective response, but (regional) virus resurgence

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)





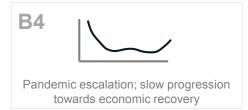


### Ineffective interventions

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





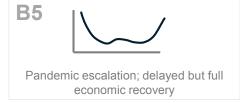


### Partially effective interventions

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**

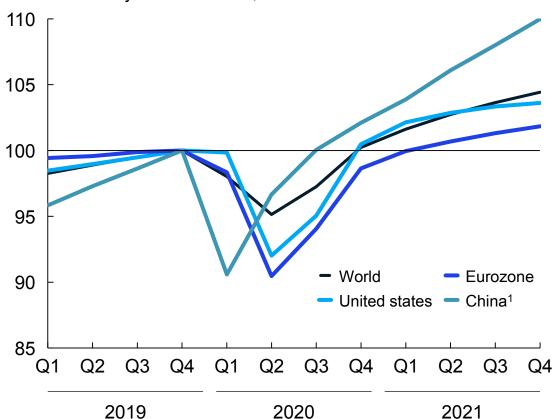
Speed and strength of recovery depends on whether policy moves can mitigate self-reinforcing recessionary dynamics (e.g., corporate defaults, credit crunch)

### Scenario A3 Virus contained

Real GDP, Local Currency Indexed

### **Real GDP Growth – COVID-19 Crisis**

Local Currency Units Indexed, 2019 Q4=100



China	-3.3%	-0.4%	2020 Q3
USA	-8.0%	-2.4%	2020 Q4
World	-4.9%	-1.5%	2020 Q4
Eurozone	-9.5%	-4.4%	2021 Q1

2020 GDP

% Change

Growth

**Real GDP Drop** 

2019Q4-2020Q2

% Change

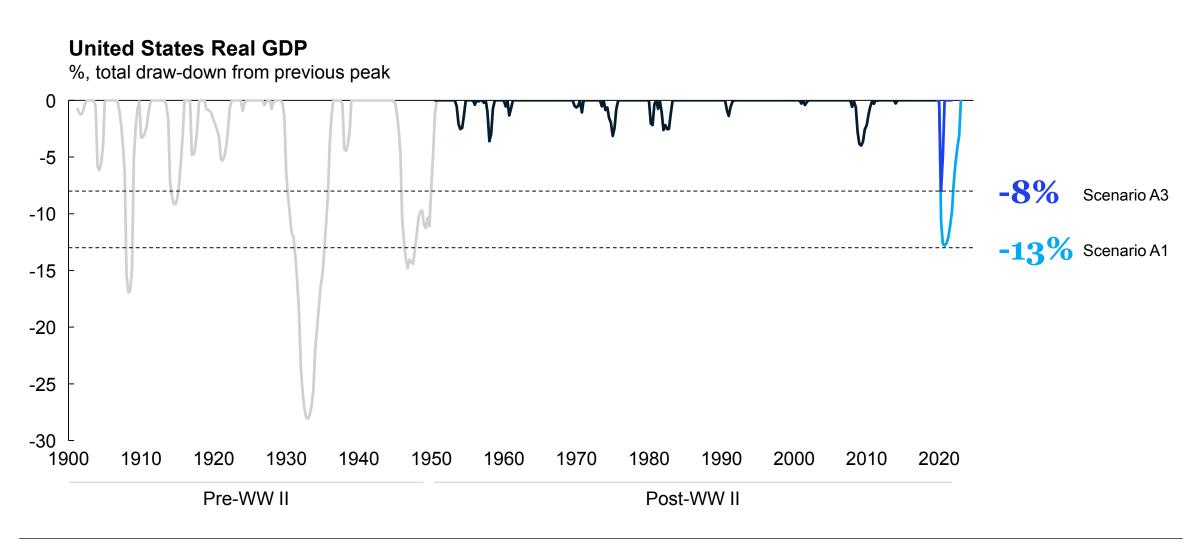
Time to Return to

**Pre-Crisis** 

Quarter

<sup>1.</sup> Seasonally adjusted by Oxford Economics

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

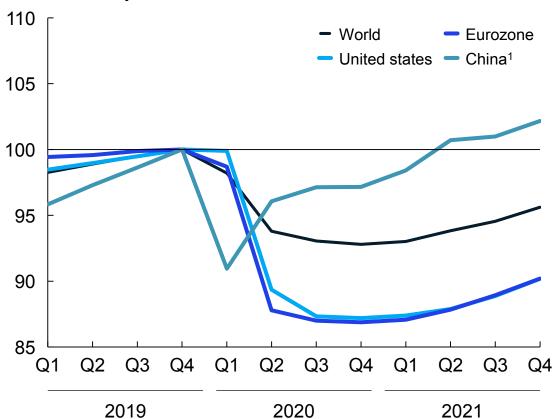


### Scenario A1 Muted Recovery

Real GDP, Local Currency Indexed

### Real GDP Growth - COVID-19 Crisis

Local Currency Units Indexed, 2019 Q4=100



1.	Seasonally	<sup>,</sup> adjusted	d by Oxfor	d Economics

	Real GDP Drop 2019Q4-2020Q2 % Change	2020 GDP Growth % Change	Time to Return to Pre-Crisis Quarter
China	-3.9%	<b>-2.7</b> %	2021 Q2
USA	-10.6%	-8.4%	2023 Q1
World	-6.2%	-4.7%	2022 Q3
Eurozone	-12.2%	-9.7%	2023 Q3



### 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?

### Indicators to monitor

- 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?

### Indicators to monitor

- 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?

### Indicators to monitor

- 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

01

02

03

04

05

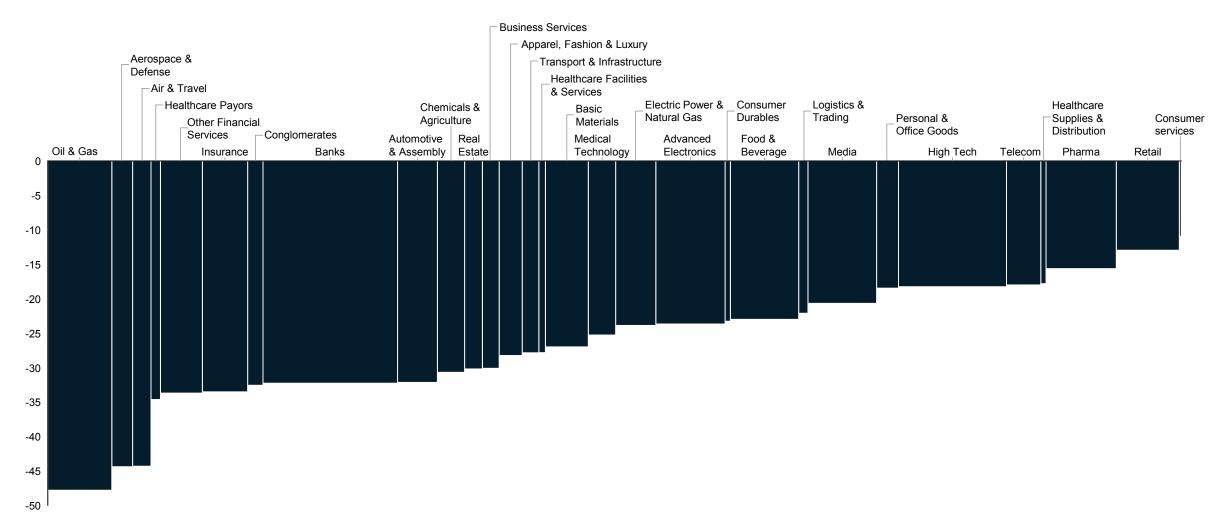
COVID-19 The situation now Scenarios and path forward

Sectorspecific impact Planning & managing COVID-19 responses

Leading indicator dashboards

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

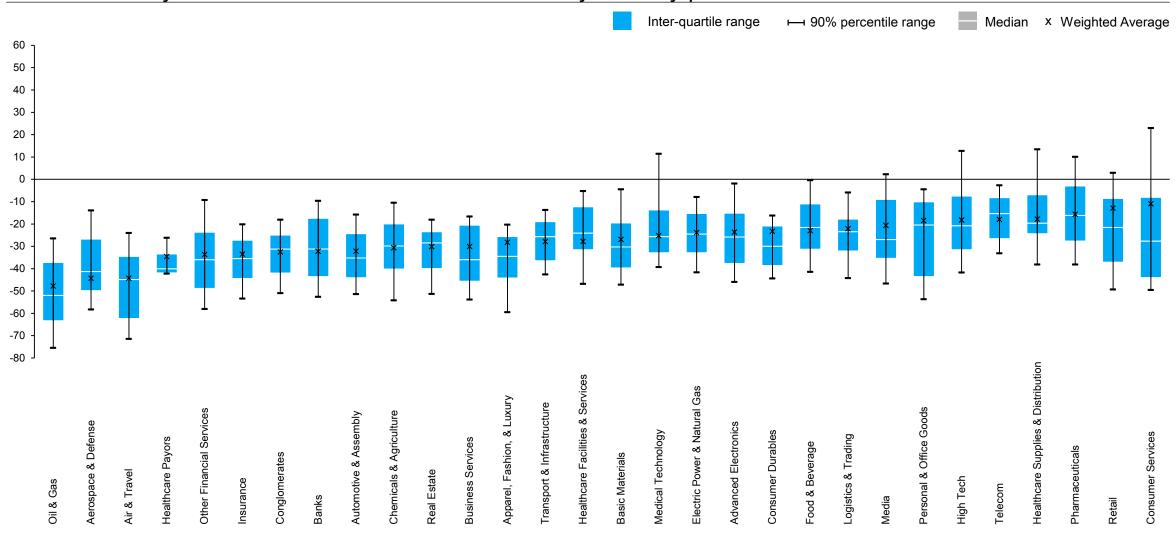
Weighted average year-to-date local currency shareholder returns by industry in percent. Width of bars is starting market cap in \$



<sup>1.</sup> 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 percent<sup>1</sup>



<sup>1.</sup> 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 of hardest hit sectors based on delayed recovery scenario - subject to change

Estimated degree	Aerospace/defense	Air & Travel	Insurance carriers	Oil and gas	<u> </u>	Apparel/fashion/
of impact, in terms of duration	Longest					
Estimated global restart	Q3 / Q4 2021	Q1 / Q2 2021	Q4 2020	Q3 2020	Q3 2020	
Avg. change in stock price	-47%	-51%	-38%	-48%	-35%	-36%
Industry specific examples	Aircraft delivery shocks mitigated by size of order backlog; which is currently large (~4 years for widebody, ~9 years for narrow)  Aftermarket maintenance will be deeply impacted immediately due to lower aircraft flight hours and operators' cash constraints  Production at F-35 plants in Japan & Italy disrupted with unclear impact on delivery schedules; expectations for additional disruption as US cases grow	Deep, immediate demand shock 5-6x greater than Sept 11; ~70-80% near-term demand erosion due to int'l travel bans & quarantines now prevalent in 130+ nations  N. 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 long-haul and int'l travel (6+ quarters)	US insurers have been strongly affected, especially reinsurers and life & health insurers  Reduced interest rates and investment performance impacting returns – esp. 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 temporarily closed in many parts of the world high regional variation

# ntents

01

9

COVID-19
The
situation
now

02

Scenarios and path forward

03

Sectorspecific impact 04

Planning & managing COVID-19 responses

05

Leading indicator dashboards

### Leaders need to think and act across 5 horizons

### 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

### Resilience



Resolve

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

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

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

Return



### 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

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

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

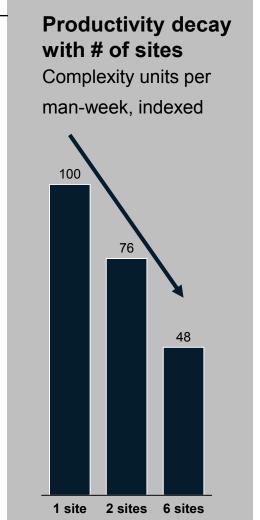


### Employee work from home deep dive (1/2)

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

Key challerige (	of remote teams (if left unimitigated) is reduced efficiency and corresion
Key sources of	inefficiency and reduced 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



### 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 co-creation, communication and decision making (e.g. VC, fileshare, 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 desired production levels and minimize contact between employees and product	<ul> <li>Remove any floating workers from potential pods</li> <li>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)</li> </ul>
What job is done	Reclassify jobs/roles to improve ability to form pods and decrease inter-pod contact	<ul> <li>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)</li> <li>Remove or adjust unnecessary line contact (quality checks done by line employees versus central quality)</li> </ul>
How the pod works together	Add additional safeguards within the pod to further limit exposure	<ul> <li>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)</li> <li>Institute increased sanitation of pod and workplace (hand washing, deep cleaning after shift, etc)</li> <li>Stagger break and lunch times/locations</li> </ul>
When the pod performs work	Change shift time and structure to limit exposure	<ul> <li>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</li> <li>Adjust weekly schedule including going to 12-hr shifts and 2 week on/off to minimize the number of people on site over a day/week</li> </ul>
Where the pod performs work	Move the location of work to create social separation between pods	<ul> <li>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)</li> <li>Restrict access between pods, ideally with social barriers (card access, temporary walls)</li> <li>Move production lines to ensure adequate separation and consider temporary options (tents)</li> <li>Close public spaces (cafeterias, gyms) and find alternate locations for workers to eat and move around</li> </ul>
Plan for pod event	Develop response scenarios for likely events such as a pod test positive	<ul> <li>Practice and train on likely scenarios (immediate and long-term response)</li> <li>Define production flexibility and back-up options if line goes down</li> <li>Define backup pod staffing (refresh skills matrix to see who could cover, consider keeping a backup pod available in case of event)</li> </ul>



### On-site employee safety – Manufacturing example (2/2)

Changing shift patterns is an option to limit exposure

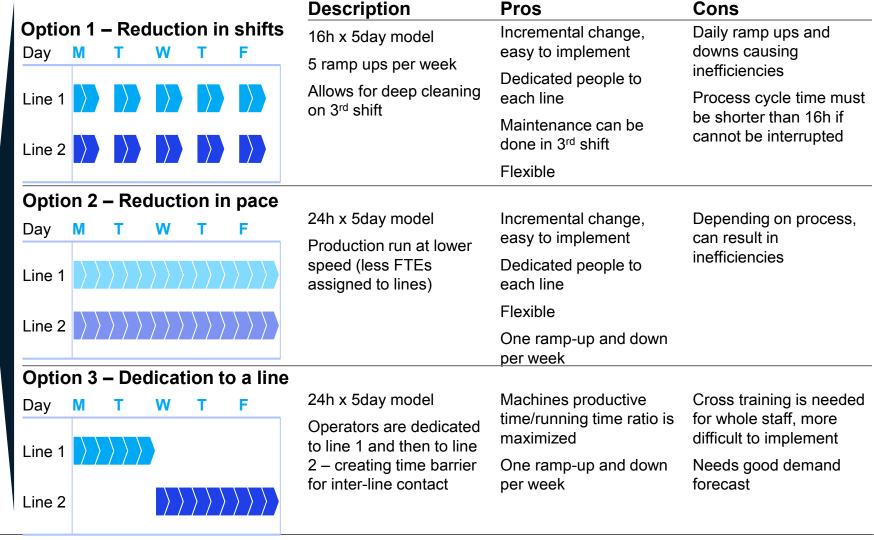
### **Current situation – 3 shifts**

24 hours x 5 days model

Operators dedicated to either Line 1 or 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.





### Resilience

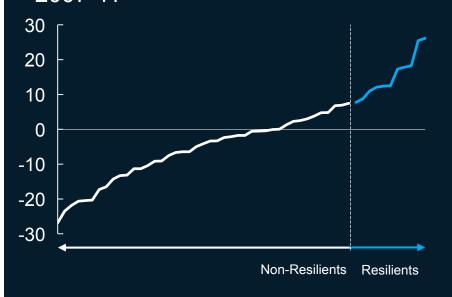
Address near-term cash management challenges, and broader resiliency issues during virus-related shutdowns and economic knock-on effects



### Speed + Discipline the key to Resilience

Teams seeking to boost
Resilience during
COVID-19 need to learn
lessons from the
companies that survived
& thrived in the last
recession – the
Resilients

### 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

EBITDA & revenues outperformance

Resilients companies sustained<sup>1</sup> organic revenue growth early and throughout the recession and on revenue in recovery

Early & hard moves

Resilients moved faster, harder on productivity; preserved growth capacity

**Discipline** 

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

Compared to Non-resilients,

Resilients increased revenue by 30% ...

Reduced operating costs by 3x and moved 12-24 months earlier ...

**Divested by 1.5x** in the downturn & acquired 1.2x in the recovery ...

Deleveraged ~5% pts. higher before the trough





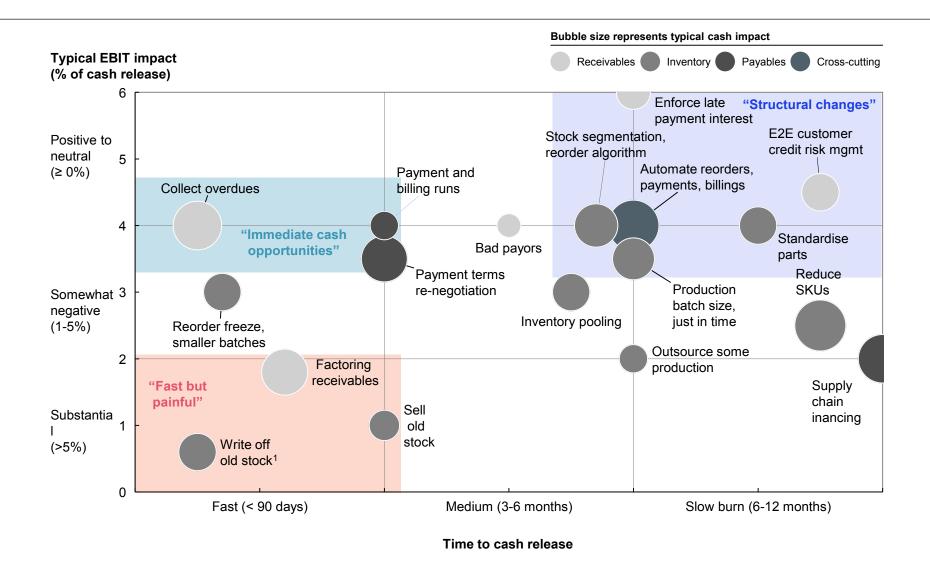


### 6 steps towards end to end Resilience plan

and prioritize key macro, sector and company cratic risks based on exposure and impact p company specific scenarios based on the range of ses of the highest priority risks
es of the highest phonty risks
test the P&L, Balance Sheet, Statement of Cash o assess and frame the potential gaps for planning
an end to end portfolio of interventions and trigger
e cash transparency and implement tighter cash s to mitigate downside scenarios
ne dashboard of key leading indicators to monitor that dynamically updated
1 to 1



### Example prioritization of initiatives related to cash



Not Exhaustive



# Return

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



# Companies should be prepared for the "return"

Look for some of the following... ☐ Sustained decline in the number of cases in your area without rebound **Decline in cases** □ No community transmission / very low levels in your area ☐ Relaxation of shelter-in-place / quarantine orders **Health response ready** ☐ Testing widely available with fast turnaround ■ Availability of antibody testing – available workforce who have immunity Herd immunity (will take time) ☐ Availability of an effective vaccine (Spring 2021 soonest) Then start thinking about... Controlled access to all job locations: mandatory temperature checks, hand-washing **Protect employees** 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-Reassure customers store sanitizers for retail, transparent safety record e.g. "X days since last infection" Diversify supply chain and critical vendors to different geographic locations Restore supply chain 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 Reinstate or revise? practices should be reinstated, revised, or even removed?



# Reimagination & 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?

Why this could be possible

# The facts today (examples)

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



# How this may evolve

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

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

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

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

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

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

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



- 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



### Team 1 - Discover

Scenario planning team

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** 

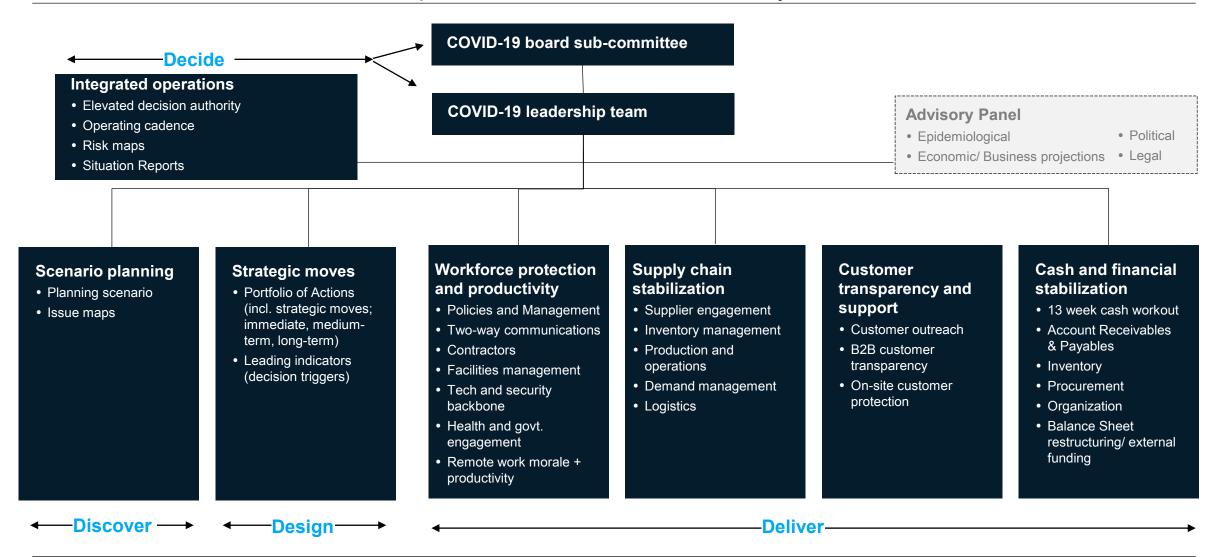
Mix – Divergent / convergent

**Convergent / linear thinking** 

5% of Nerve Center capacity 10% of Nerve Center capacity 80% of Nerve Center capacity

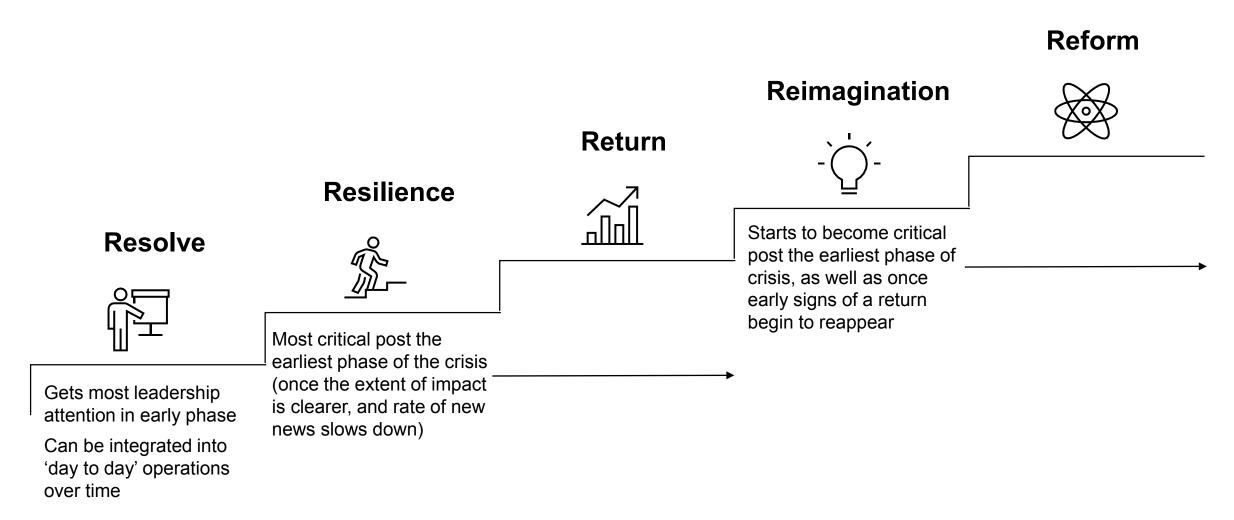
# Managing across 5Rs requires a new architecture: Nerve Center

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



# Leaders should expect Nerve Center to evolve as crisis shifts

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



# ontents

01

02

03

04

05

COVID-19
The
situation
now

Scenarios and path forward

Sectorspecific impact Planning & managing COVID-19 responses

Leading indicator dashboards

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

or

**Impact** High Medium

### 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



### 1.4M idle containers

5.5% of global container capacity affected by reduced demand

### 66% BDI increase

Baltic Dry Index<sup>1</sup> 66% higher since CLNY<sup>3</sup> but at 10% lower levels compared to March 2019



### 60% China flights suspended<sup>5</sup>

Commercial flights account for ~50% of air cargo capacity, some airlines converting flights for cargo<sup>6</sup>

### 2x TAC index

TAC index rate +27% for U.S.-China. +93% EU-China<sup>2</sup>. +37% China-U.S.. and +45% for China-EU since CLNY3

### or

### 60% truck staff available

1–14 day guarantine- and capacity-induced increase in freight transport times

### MED

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

### 20.5% decline in retail sales

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

### MED

Europe and U.S. sentiments evolving, but localized

### What to expect

Situation

todav

### MED

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

### Hiah

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

### **MED**

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

- Assessment of risk premium to ship raw materials on a number of shipping routes, data as of 3/13 4.
- Frankfurt (FRA) to Shanghi (PVG) used as a proxy
- End of extended Chinese Lunar New Year holiday (2/7-3/13 for BDI, 2/10-3/2 for U.S.–China TAC, 6. 2/10–3/9 for other TAC routes)
- 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

Daily infection

rate, per million

~0.02

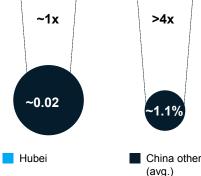
Recovery milestones Steady decline in confirmed cases

New suspected and confirmed cases rates consistent with other provinces

Quarantine lifted

Public transport resumes

Factory activity returns to preoutbreak levels



Crude case

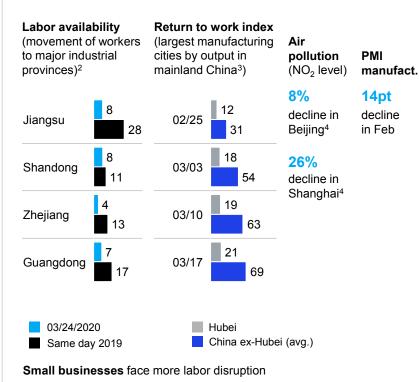
fatality ratio1

~4.6%

### 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

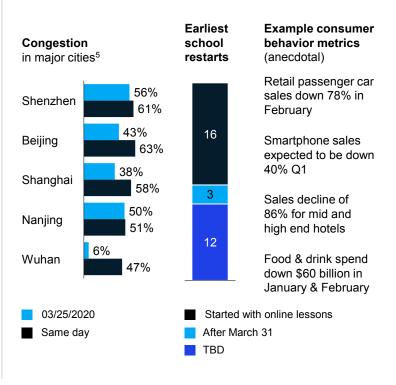


### China consumer confidence

When will Chinese consumer confidence and purchasing activity return?

Consumer spending in China spend may lag behind economic restart

Tourism and some other sectors impacted well into Q2

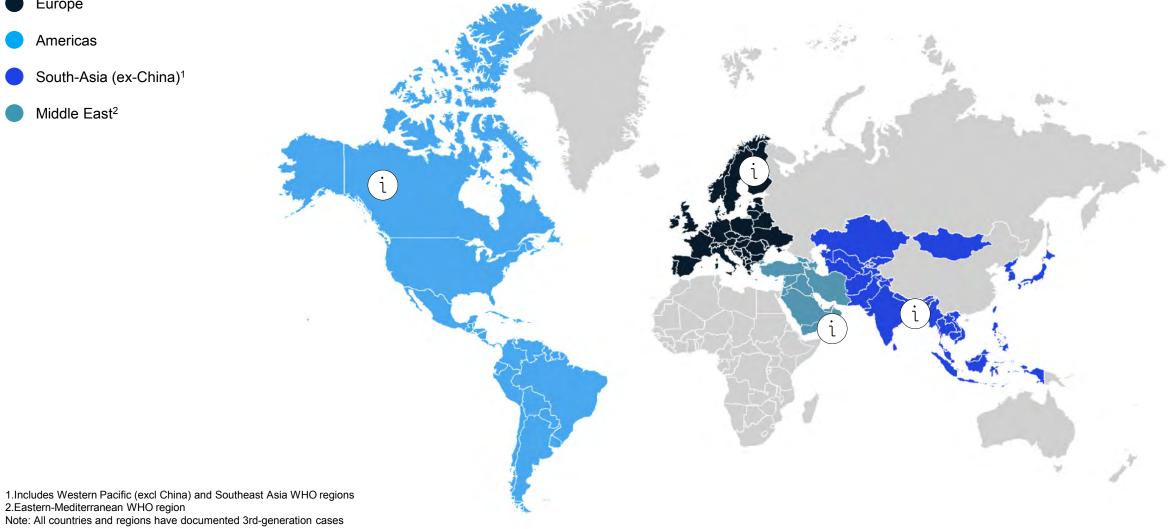


# **COVID-19 leading indicator dashboard**

Propagation of COVID-19 across new transmission complexes

Click on buttons for more detail

- Europe
- **Americas**
- South-Asia (ex-China)1
- Middle East<sup>2</sup>



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

# (i) Middle East



Example country	Epidemiological Indicators <sup>7</sup>									Economic/policy indicators			
	Date of initial case	Total number of cases	New cases in last 14 days	5-day new ca	ase tren	d		Crude case fatality ratio <sup>1</sup>	-	Number of countries/ territories restricting travel	Number of airlines suspending service to country <sup>3</sup>	Traffic congestion <sup>4</sup>	School closures
Iran	02/20	23,049	15,007	1,046	966	1,028	1,411	7.3%6	•	142	<u>~</u> 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

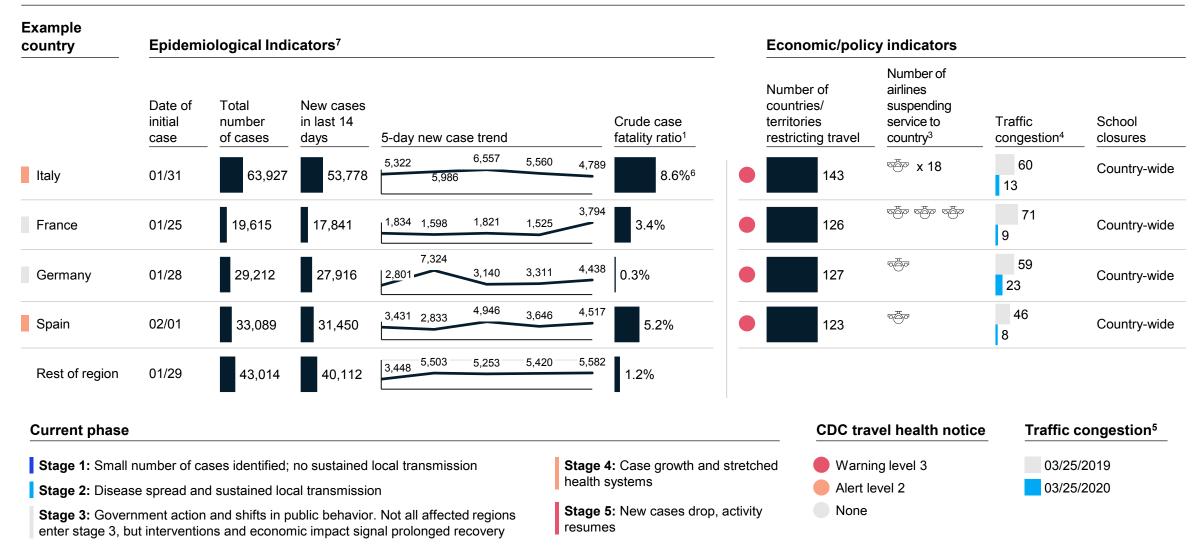
### Traffic congestion<sup>5</sup>

03/25/2019

03/25/2020

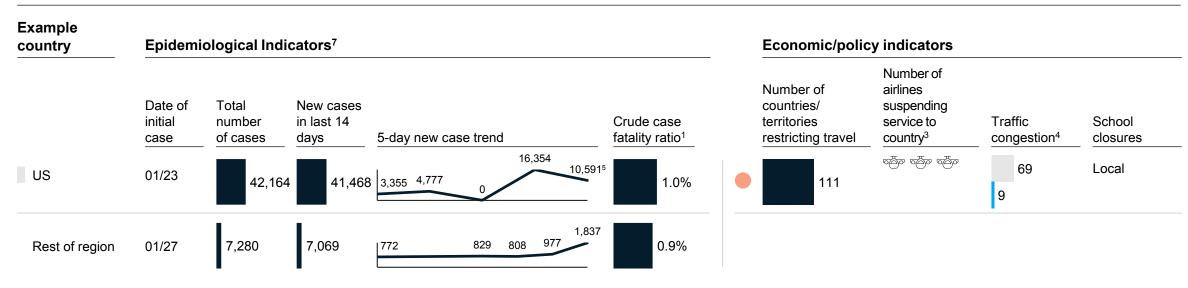
# (i) Europe





# (i) Americas







- Stage 1: Small number of cases identified; no sustained local transmission
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### **CDC** travel health notice

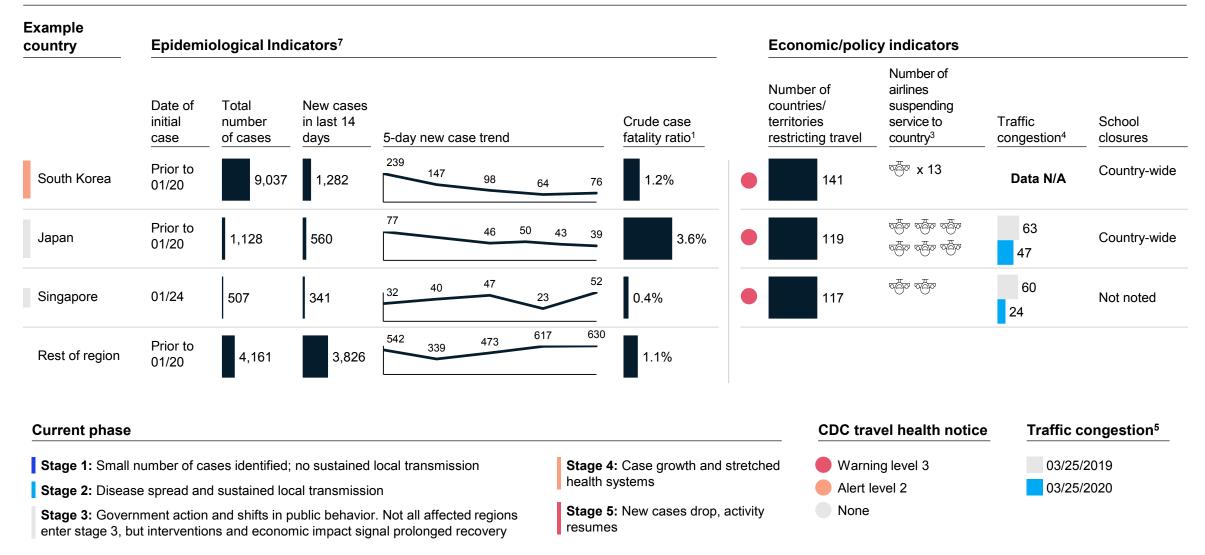
- Warning level 3
  Alert level 2
- ctivity None

### Traffic congestion<sup>5</sup>

- 03/25/2019
- 03/25/2020

# (i) South Asia (ex-China)





# COVID-19 Stage Detail

Epidemio-logical indicators

# Stage 1

Stage 2

Stage 3

Stage 4

Stage 5

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
Inventory hoarding due to uncoordinated actors exacerbating supply chain

Consumption begins to rise, as quarantine begins to be rolled back



Social indicators

Activity remains normal

Governments may begin coordinating containment activities

Activity remains

Activity remains mostly normal

Shifts in public behavior begin in response to and multi-sectoral government actions

Larger numbers of citizens remain at home in response to the implementation of gov't contingency plans

Social activity begins to resume

# References



# COVID-19 leading indicator dashboard for China

- 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

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