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All views expressed are solely those of the authors.

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The College of Health Solutions translates health research and discovery into practice and prepares students to address the challenges facing people to stay healthy, improve their health and manage chronic disease. We offer programs in biomedical informatics and biomedical diagnostics; kinesiology, sports and exercise science; health care delivery; nutrition; population health; and speech and hearing science. The college's online master of science in biomedical diagnostics degree is the only program of its kind worldwide and is designed to address the role of diagnostics in research, clinical decision making and policy. Students, faculty and staff work together toward a common goal of improving health outcomes by optimizing health and human performance across the lifespan and addressing systems of health care and health needs of populations. Our graduates are uniquely prepared to make an impact in the health workforce and shift the focus of health from sickness to wellness. Visit chs.asu.edu to learn more about how we are reimagining the future of health.

#### **About World Economic Forum**

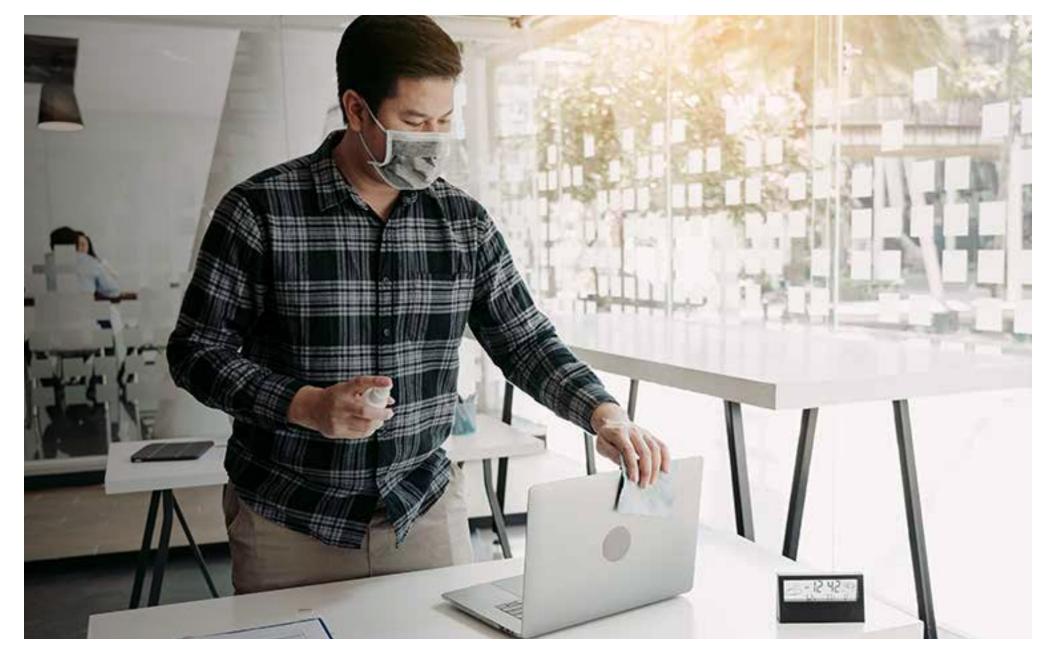
The World Economic Forum is the international organization for public-private cooperation. The Forum engages the foremost political, business, cultural and other leaders of society to shape global, regional and industry agendas. It was established in 1971 as a not-for-profit foundation and is head-quartered in Geneva, Switzerland. It is independent, impartial and not tied to any special interests.

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## **Executive Summary**



Eighteen months into the COVID-19 pandemic, employers have redefined virtually all aspects of the workplace environment from the fundamentals of where employees work to the details of how everyone communicates. Employers are now being called upon to play a proactive role to help forge a path out of the pandemic beyond their own top and bottom lines.

Employers, at least larger ones, are embracing this role. They are bringing their employees back to the workplace slowly but steadily with a clear acknowledgement of the importance of COVID safety protocols. Why do we believe this? We see that more than 90% are requiring or encouraging vaccination - we see that 70% are testing regularly. We see that 73% are acknowledging the importance of employee mental health. But we are not overly optimistic. We see the deep divide in our nation playing out in the workplace too. We see that employees resign from both sides of the spectrum - 61% of the time because employers have no or too lax COVID policies and 39% because those same policies are considered too restrictive.

This Report, How Work has Changed: The Lasting Impact of COVID-19 on the Workplace, features results from the third and final survey in a threepart series within the ASU Workplace

Commons initiative featuring an innovative and interactive data dashboard enabling access to anonymized survey data from the current survey as well as the Fall 2020 and Spring 2021 surveys. Responses to the survey came from employers in 23 industry sectors, 1,470 companies in 1,626 facilities. Approximately 78% of responses are from large businesses with 250 or more employees, and 93% of responses coming from companies based in the U.S. and U.K.

In summary, this survey demonstrates how far we have come while reminding us that we still have a long road ahead.





23 Industries









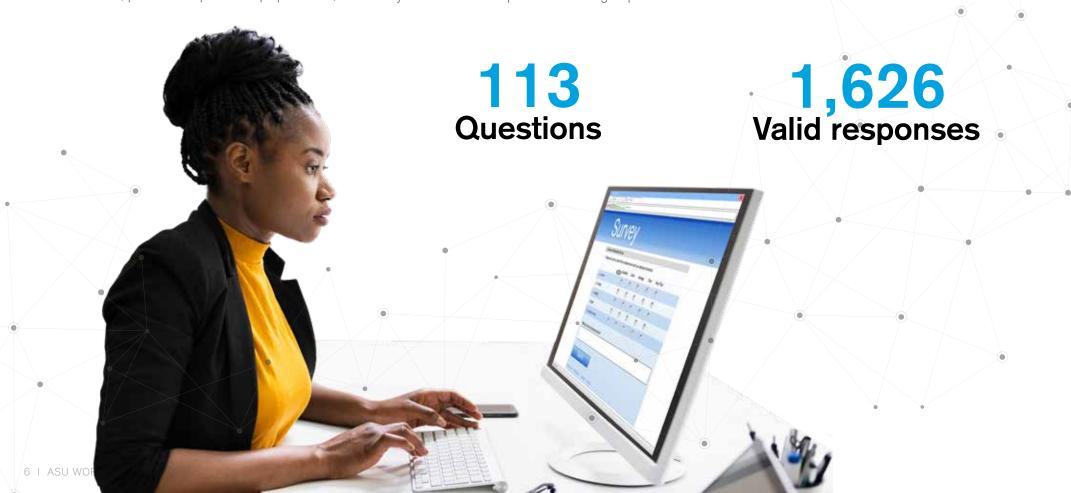
1,626 Facilities

### Methodology

The COVID-19 Workplace Commons - Keeping Workers Well survey was distributed to companies and trade association leaders aged 18+ in 23 industry sectors in 40 countries on six continents. The survey was conducted online between August 2, 2021 and August 20, 2021 in English and approved by Arizona State University's Institutional Review Board (IRB). The survey contained 113 questions within six broad categories including testing and contact tracing, vaccination, employee wellbeing, the future of work, pandemic response and preparedness,

and financial impact. Respondents were informed that their participation would remain anonymous and confidential and were given the ability to skip any question within the survey. lpsos, a global leader in market research, assisted with securing a majority of survey responses, resulting in 1,561 completions through the use of multiple panels across various industry sectors in English-speaking countries with an emphasis on companies located in the U.S. or U.K with at least 250 employees. An identical publicly available survey resulted in 65 completions. Excluding responses

with less than 90% completion rate, the survey resulted in 1,626 valid responses. Survey data were examined, including categorization of qualitative responses (e.g. 'Other - please specify') and transformation of variables for areas like industry sector and dates. ASU's Decision. Theater summarized results and the data featured on the COVID-19 Workplace Commons website dashboard represents valid responses.



# **Survey Overview**

Top10 industries represented in rank order (Left-Right, Top-Bottom)



**Technology** and Software



Business + **Professional Services** 



Manufacturing



Construction



Retail **Stores** 



Healthcare, Hospitals, and Clinics



Government and Quasi-Public



**Education** (Colleges & **Universities**)

U



**Energy & Utilities** 



Consumer Retail Services

93% are from US and UK (70% US / 23% UK)

250 or more employees

(n=1.264)

1,000 or more employees (n=604)

### **Our Top Insights**

#### **Vaccination**

- 93% of employers currently require or encourage COVID-19 vaccination for employees
  - 61% require some or all employees to be vaccinated against COVID-19
  - 32% encourage but don't require employees to be vaccinated
- **56%** require proof of vaccination
- 68% encourage proof of vaccination
- **55%** offered incentives to encourage employees to be vaccinated



### **Workplace Policies**

- 39% had employee resignations due to COVID workplace policies
  - 42% lack of workplace safety policies
  - 17% existing workplace policies not being stringent enough
  - 39% overly restrictive workplace policies
- 35% terminated an employee due to COVID workplace policies



#### **Future of Work**

- Anticipated work environment in the future is hybrid (42%), physical (32%) and virtual (25%)
- 25% plan to downsize, 6% plan to no longer offer a physical workspace while 15% plan to increase physical workspace
- 61% intend to allow their employees work from home full-time through 2021
- 63% believe that employees should be in the office at least 20 hours per week
- 66% intend to offer more flexible or expanded work from home policies



### **Testing**

- 70% of employers are testing with the vast majority of tests being viral tests
- 46% test weekly and 27% test daily
- Test technology varies significantly for viral testing
- 41% use both PCR and Antigen tests
- **39%** PCR only
- 20% Antigen only



### **Employee Mental Health Wellbeing**

- 73% say employee mental health wellbeing has become a top priority
- 24% report significant increases in employee mental health concerns
- **36%** report slight increases
- Interestingly, employers saw a dichotomy when looking at their employee's response to work over the pandemic. They report increases in engagement, productivity and morale (58%, 53%, 48% respectively) but also increases in burnout at 53%



### **Pandemic Response** and Planning

- 56% have kept their COVID workplace safety precautions in place while 43% have reduced or removed some forms of workplace safety precautions (masking, testing, remote working, etc.)
- 69% had a disaster/emergency response plan pre-pandemic with 75% currently having one in place today



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### **Vaccination**

93%

Require or encourage employees to be vaccinated

61%

Require all or some employees to be vaccinated

Vaccination is at the center of the fight against COVID-19. Our survey shows that employers in every industry now recognize this fact, and they are mandating or encouraging employees to be vaccinated. Employers reported an overwhelming support for vaccination with 93% reporting that they currently require or encourage employees to be vaccinated against COVID-19. Breaking that down further, 61% of respondents, in both the US and UK, require vaccination for all or some of their employees. Just over half of employers are offering some kind of incentive for employees to be vaccinated. The top three incentives were cash, additional time off and contributions to health savings accounts.



80%

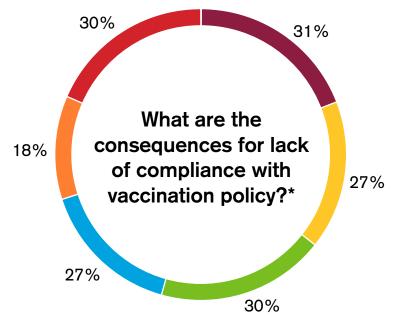
Would allow vaccinations to be administered to employees at their facility

68%
Proof of vaccination from employees is encouraged

56%
Proof of vaccination from employees is required

59%
Plan to change safety mitigation measures once broad vaccination is achieved

55%
Incentivized employees to be vaccinated



- Change of work responsibilities
- Require participation in mandatory testing
- Disciplanary action up to termination
- Require employee to wear a face mask
- No Consequences
- Not allowed to return to the physical work environment

Vaccine COVID-19

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<sup>\*</sup> Multiple responses are allowed

### **Vaccination**

Companies' policies for employees regarding COVID-19 vaccination

Require all employees to be

vaccinated against COVID-19

Require some employees to be vaccinated against COVID-19

**Encourage but not** require employees to be vaccinated against COVID-19

We don't have a policy developed at this time

We don't plan to encourage or require our employees to be to be vaccinated against COVID-19



### Incentives offered to get vaccinated\*

Additional paid time off

Contribution to health spending accounts

Free vaccine administration

Entered into a lottery or raffle for a prize

Regular testing not required

Mask wearing not required

Can return to the physical workspace

**Daily health** screening not required

Gifts (Gift cards, food vouchers, etc.)



<sup>\*</sup> Multiple responses are allowed

# **Testing & Contact Tracing**

Testing remains the most effective, yet the underappreciated part of pandemic response. COVID-19 is unique, in that approximately 40% of people infected have no symptoms at all but can still t ransmit disease. Employers recognize this with 70% testing some or all of their employees. For those testing, 73% consider it mandatory testing. The vast majority of that testing is viral testing - most often weekly (46%) but as many as 27% of respondents are testing daily. Test technology varies with 41% using both PCR and Antigen testing, 39% PCR only and 20% antigen only.

These testing numbers show a small increase from 68% of employers who were testing in our last survey.

70% Test their workers

46% Perform environmental/ surveillance testing

27% Test for both



**Test only for** 

viral infection

#### Reasons why companies choose not to test\*

Too costly

Too complicated to implement

Main reasons companies do not test

**Concerned about** test accuracy

Worried about

employee privacy

13% Don't believe it will help reduce infections

**13%** Worried about liability

13% Time to obtain test results

12% Time to obtain test results

Lack of knowledge or information

**Future testing plans** 

32% Don't test and don't plan to test

30% Uncertain



Test availability

\* Multiple responses are allowed

This distribution represents 70% of companies that test their workers

### **Viral Testing**

1,107 (98%) Companies that test for viral infection

**73%** Companies with mandatory testing

Companies that test at least once a week Does testing policy change for vaccinated employees?

testing

No longer

require testing



What was the most important factor in you choosing a test provider?

41% 22% **Quality of tests** 

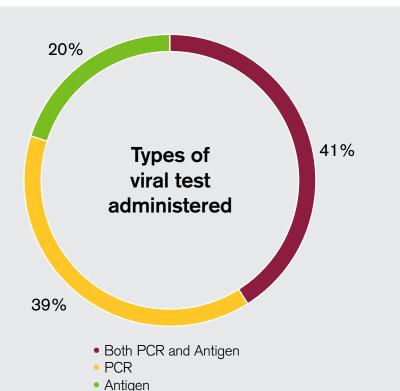
Test result turn

available

around time

Government recommended

Colleague recommended 2%



### **Contact Tracing**

Companies that perform contact tracing

Are you tracing worker contacts outside of the workplace?

36%

# **Viral / Antibody Testing**

**Viral Testing** 

(98%) Companies that test for viral infection

% of workers that tested positive

# Where are your workers being tested?\*

Health testing laboratory

36% On site at our facility

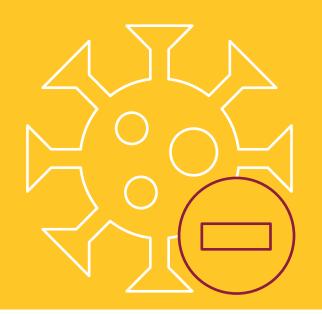
Local/regional hospital

**Retail pharmacy** 

Academic or university site At home - send to lab

At home immediate results

\* Multiple responses are allowed



#### **Antibody Testing**

(73%) Companies that test for antibodies

% of workers that tested positive

# Where are your workers being tested?\*

Health testing laboratory

facility

35% Local/regional hospital

Retail pharmacy

On site at our

**15%** Academic or

university site

At home



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### **Employee Wellbeing**

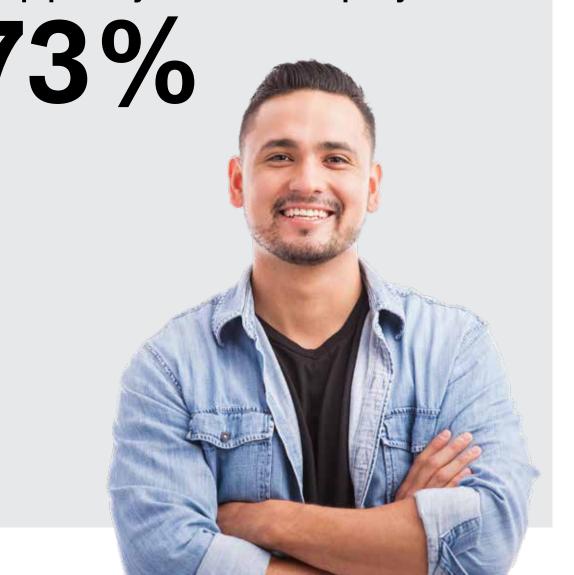
For employers, the pandemic's toll on employee mental health and wellbeing is top of mind. The results from our survey show that employers are acting to intervene to try to reduce the burden on their employees while hoping to sustain or increase productivity, morale and engagement.

Interestingly, employers report increases across the board for both positive indicators of employee wellbeing (engagement, productivity and morale) and negative indicators of employee wellbeing (burnout and mental health concerns). This dissonance has appeared in both this and the previous March 2021 survey.

Employers' concern about their employees' mental health is clear with 73% indicating that it is a top priority for their organization. Consistent with that, employers reported an uptick in the use of available company mental health resources by 38% since the start of the pandemic.

Where do we go from here? As the pandemic drags on, with each passing month, employers will need to focus even more attention on employee wellbeing and find creative and innovative solutions to ensure their workforce's physical, emotional and mental health stays strong.

**Employers that indicated employee** mental health wellbeing has become a top priority for their company



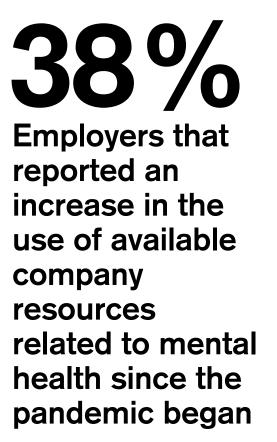
60% Increased mental health concerns

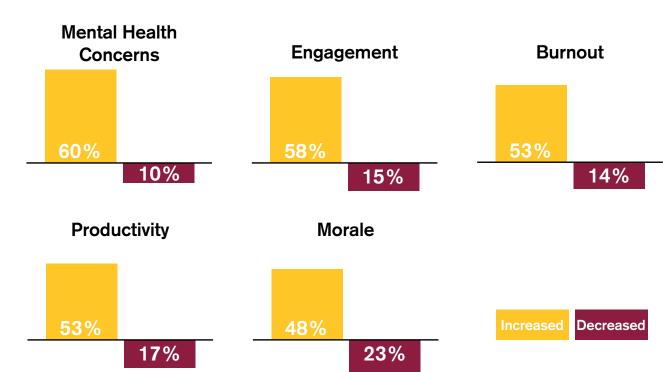
58% Increased engagement

**53**% Increased productivity

53% Increased burnout

Increased morale





### **Future of Work Overview**

The way we work has forever changed. Prior to the pandemic, most adults spent more of their waking hours at their workplace than at their homes. The pandemic, however, demonstrated that this new model, Work from Home, was possible and productive. And, it was not just traditional office jobs that were moving to the "virtual" work environment. The availability of sophisticated video conferencing systems along with the relatively low cost of personal computers allowed educators to engineers to event planners to even exercise consultants to never leave their living room and work all day.

As many are now moving into hybrid mode, employers are grappling with workplace policies (e.g., masking, testing, vaccination, or remote work options) to keep their workforce safe and well. 42% of employers reported having an employee resign due to nonexistent COVID-19 workplace policies with an additional 17% reporting an employee resignation due to COVID-19 safety policies not being stringent enough.

While the initial shift to Work from Home happened shockingly guickly, employers are now, 18 months later, reassessing and reimagining the future of work. Most don't want to simply go back to the way things were - but leverage and keep the best practices and innovations developed out of necessity during the pandemic.

How will they do this? Our survey shows that a majority of employers intend to allow employees to work from home through the end of 2021 and plan to offer more flexibility by expanding Work from Home policies even after the pandemic ends.

66% Intend to offer flexible or expanded work from home

policies post-pandemic

**63**% Believe employees should be in the office at least 20 hours a week

Intend to allow employees to work from home full-time through 2021



#### Main challenge in returning employees to physical work environment

**Employees not** wanting to return to in-person work

17% Safety of employees is difficult to achieve

14% **Expense of** 

**COVID** testing

13% Lack of available

11% Lack of available **COVID** vaccines **COVID** testing

Cost of making workspace safe

for employees

7% Lack of available childcare for employees due to obstacles like school closures

6% Lack of work due

to loss in revenue or clients

3%

Other employers offering work-athome optoins



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### **Future of Work Overview**

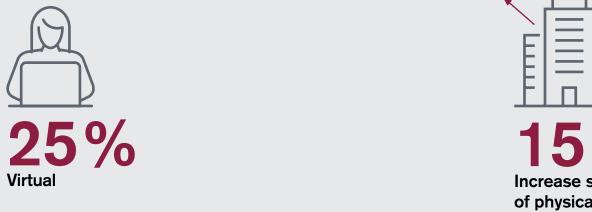
### Describe your anticipated work environment in the future



**Hybrid (Combination** of physical and virtual)

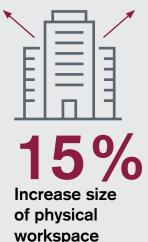




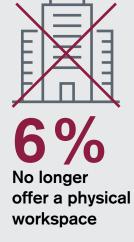


#### **Companies future** plans for their physical workspace









# Reasons why companies think employees should be in the office at least 20 hours a week

Allows for social connections to be created and maintained with colleagues

**17% Ensures employee** productivity

16% spontaneous idea sharing and problem solving

12% **Contributes** to creating and defining company culture

**Encourages** teambuilding **Ensure use** of facility

**Ensures proper** training and mentoring of new employees

Provides ability to monitor employee performance



## Challenges

**Employee Response to COVID Workplace Policies** 

Employers who stated employees haven't resigned due to COVID workplace policies 39%

Employers who stated employees have resigned due to COVID-19 workplace policies

Resignation due to COVID workplace policies (masking, testing, vaccination, remote work)\*

Policy not restrictive enough









**COVID Workplace Policies** and Employee Termination

60% Haven't had an employee terminated

Have had to terminate at least one employee

COVID-19 workplace policies that resulted in employees being terminated\*

36%

**Testing policy** 

Remote working policy

Vaccination policy

Lack of policy

\* Multiple responses are allowed

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Overly restrictive policy

<sup>\*</sup> Multiple responses are allowed

# Challenges

#### What are the top concerns employers have?

**COVID-19 variant (Delta or other)** continues to infect many more people

COVID-19 vaccines lose effectiveness

10% **COVID-19** variant not able to be detected by current tests

**COVID-19 death rate increases** substantially

**COVID-19 rebounding in the US** 

5%

COVID-19 rebounding outside of

the US

**Labor shortage** 

4% **Retaining current** employees / workforce attrition 4%

Inflation

**Evolving work** environment landscape

Liability related to COVID-19 workplace policies 4%

Global unrest

Lack of childcare for employees with children

Supply chain





# **Employee attitude towards returning** post-pandemic (+/-)

Negative attitude towards returning

Positive attitude towards returning

post-pandemic

Highest % of remote employees during pandemic

Average % of

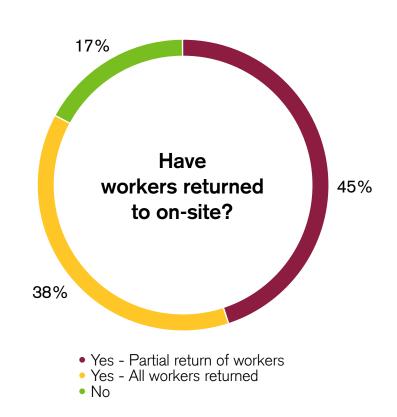
workers returned

**Current % of** remote employees

**Reduced COVID-19** workplace safety percautions

### Primary concern about coming back

Personal health / High risk for infection



What is the overall workforce's opinion about returning back to the workplace?

They wanted to return earlier than possible

They want to return immediately

They are reluctant to return

They want to return eventually but not yet

want to return



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## **Coming Back and Remote Work**

What milestones need to occur in order for you to return workforce to work onsite?\*

When all of our workforce is vaccinated

in the community

When a majority of our workforce is vaccinated

16% When we have

When we have testing protocols in place

18%

planned safety

measures in place

24% When government or health agency allows

13% **Predetermined** time



If you reduced COVID-19 workplace precautions, what would cause it to get reinstated?\*

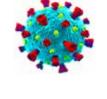
New variants emerging (Delta or other)

**New government** 

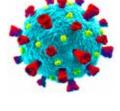
ordinances (Local. state, national)

Increase in employees positive test cases

No plans on reinstating of safety precautions







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<sup>\*</sup> Multiple responses are allowed

# **Coming Back and Remote Work**

What are worker's concerns about returning?\*

56% Personal health / Higher risk for infection

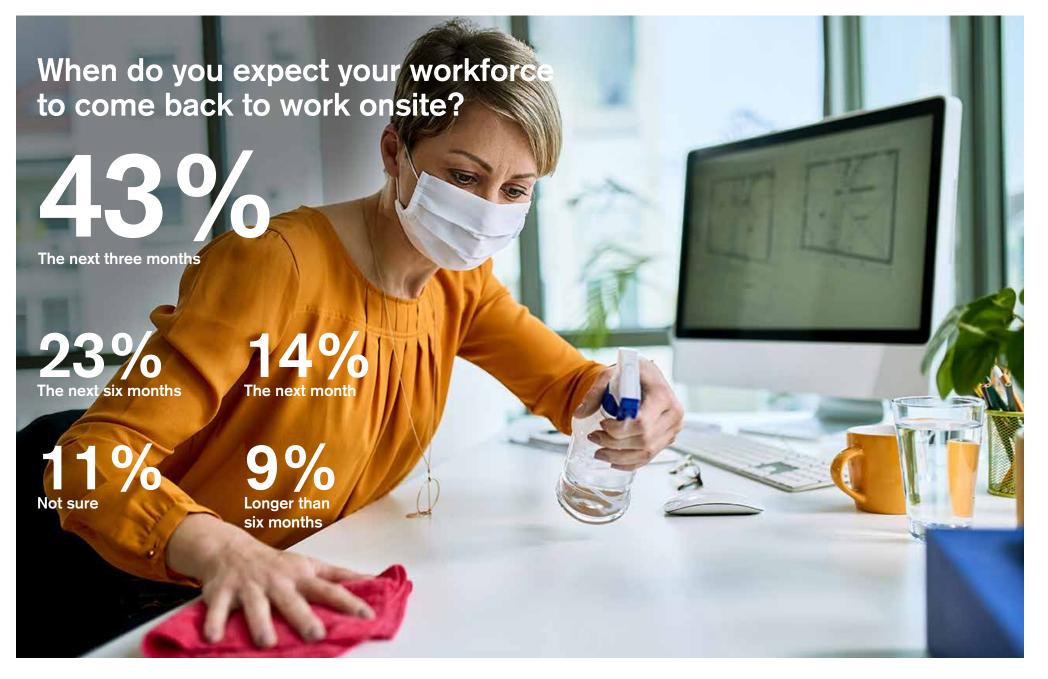
**Transportation** to facility

\* Multiple responses are allowed

32%

They do not have concerns about returning





### Pandemic Response & Preparedness

Being prepared for the unlikely and unexpected is the essence of an emergency response plan. Overall, 75% of employers reported having an emergency response plan in the survey which is only 6% more than those who reported having a pre-pandemic emergency response plan. Given the obvious, we expected that this number would be close to 100%. There was a significant difference between the US and UK on this issue - with 79% of US respondents and 64% of UK respondents reporting that they currently have an emergency response plan. The most significant change from pre- to post-pandemic emergency response planning happened in the epidemic/pandemic category which increased from 52% pre-pandemic to 70% as of August 2021.

Companies that made permanent adjustments

#### Allow employees to work from home

Top permanent action taken due to financial pressures

#### What actions have you taken?\* (Permanent / Temporary)

42%/31% Allow employees to work from home

36%/29% Reduction in workforce

35%/13% Changes in employee health benefits

28%/30% Hiring freeze

26%/22% Reduced hours for

hourly workers

24%/18% Reduced physical office space

21%/20% Executive / management pay cuts

19%/17% Closure

17%/20% **Furloughs** 

17%/12% Bonuses or other incentives

16%/11% Increased salary for

15%/16% Rescinding

15%/11% Increased hiring

11%/9% Reduced pay for non-management workers

10%/7% Increased salary for non-management workers

hourly workers

\* Multiple responses are allowed

job offers

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### Pandemic Response & Preparedness

# **Emergency plan**

69% vs. 75% 2019

**55%** Very useful



Have these plans been useful for responding to the COVID-19 pandemic?

**55%** 

Not at all useful

What type of emergency plans did those companies have?\* (2019 / 2021)

**52%/70% 53%/56%** Epidemic / pandemic Fire



Natural disaster

53%/52% 43%/47%





44%/43% 29%/30%

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### Financial impact

The financial impact of the pandemic varied widely by industry but there were several commonalities. Over half of employers (52%) reported an increase of more than 25% in operating costs due to the pandemic. Industries that work with consumers including Consumer Retail, Consumer Transportation, and Healthcare Services (e.g. doctor's offices) reported experiencing higher increases in operating costs compared to other industry sectors. The most common cost categories were masks and hand sanitizer followed by cleaning supplies and gloves. For UK employers - facility upgrades (other than ventilation) often appeared in the top three.

Over 25% increase in operating costs (excluding testing) due to the pandemic

#### Not including testing, what one-time costs have you incurred?\*

64%

ventilation)

19%

Other forms

of PPE

58% Hand sanitizer

47%

Cleaning supplies

Gloves

Facility upgrades (other than

Ventilation system

13%

Consultation

for risk

upgrades

29% **Plexiglass** 

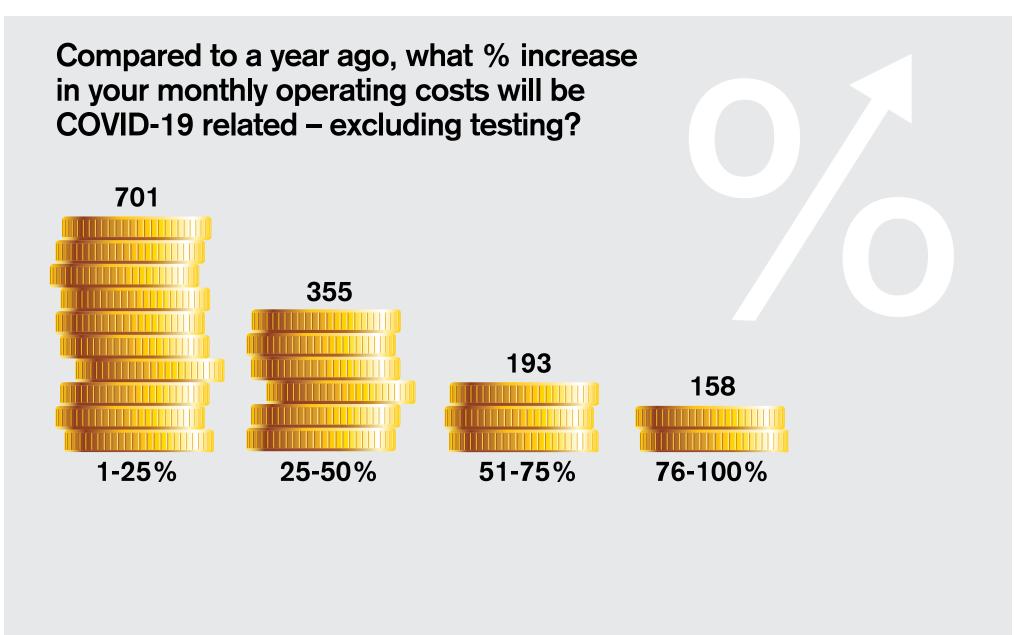
barriers

25% **Technological** resources (hardware. software, apps)

Marketing/ Communication

None of the above





### **ASU COVID Commons Initiatives**



https://ASUcovidcommons.com



https://chs.asu.edu/diagnostics-commons/evidence-commons



https://testingcommons.com



https://chs.asu.edu/diagnostics-commons/blog





https://ConnectToTest.com



https://chs.asu.edu/diagnostics-commons/webinars



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