

## WORKPLACE RESILIENCE

### TOP 10 WORKPLACE THEMES POST COVID

1. New protocols
2. Touch-free
3. Technology (Infrastructure)
4. Technology II (Applications)
5. Materiality
6. Air quality
7. Design crossover
8. Distributed workspace
9. Resilient space
10. New ergonomics (Health and wellness)

### DIRTT SOLUTIONS DELIVER

THEME	DESCRIPTION	CONVERSATION	SOLUTIONS
<b>Resilient space</b> <small>Sources: 1, 2, 3, 5, 6, 7, 8, 11</small>	Interior construction that solves the practical needs in the now and can be adapted, customized and can flex with future needs of the business. Resilient space must be able to accommodate current and emerging technology. It has to be built quickly and safety in a health-and-safety-controlled environment.	All spaces should be resilient all the time, not just when responding to a crisis. Relevant and useful space should be fluid, simple to adapt and cause minimal disruption to individuals and business. They can change with the circumstance. Resilient space is built for the now, ready for the future and designed to be architecturally, economically and environmentally sustainable.	<ul style="list-style-type: none"> <li>All of DIRTT's modular solutions have 21-day manufacturing lead times and install quickly. They're agile and ready to respond quickly to meet client needs.</li> </ul>
<b>Distributed workplace</b> <small>Sources 1, 2, 5, 6, 7, 8, 11</small>	Remote and on-site working environments will be designed to maximize productivity and collaboration while respecting personal safety boundaries and individual needs. This may include increased remote/home working, more collaborative spaces in the workplace and office neighborhoods specific to fostering team dynamics. All of this will be governed by new social and physical norms.	Respecting the needs of the individual and the business is an iterative process. This will require ongoing communication and modifications as the world re-integrates into working within a new personal safety paradigm. Relevant physical space facilitates productivity, efficiency and communication. Organizations need to prioritize how to modify their environments to consider current and evolving requirements while simultaneously encouraging collaborative behaviors that drive revenue.	<ul style="list-style-type: none"> <li>All of DIRTT's modular solutions have 21-day manufacturing lead times and install quickly. They're agile and ready to respond quickly to meet client needs.</li> <li>ICE software allows individuals to experience the space to ensure it meets personal safety boundaries and individual needs.</li> </ul>

<b>Design crossover</b> <small>Sources: 6, 7, 8</small>	<p>Application of healthcare-specific infection-control strategies to non-healthcare spaces will ensure building occupant safety. This includes negative air pressure systems, and infection prevention and control measures.</p>	<p>Employee priorities have shifted. Personal comfort now means safety, not convenience. Organizations now need to demonstrate how they're keeping individuals and facilities safe and protected. This means integrating preparedness and occupant safety measures into physical working environments</p>	<ul style="list-style-type: none"> <li>• ICE software allows individuals to experience their space during design and field test it to ensure it practically addresses the physical needs of employees.</li> <li>• DIRTT solutions can be designed in ways that limit touchpoints to prevent infection transfer.</li> <li>• DIRTT offers hospital-grade materials to improve infection prevention and control (see materiality).</li> </ul>
<b>Materiality</b> <small>Sources: 3, 7, 8, 9, 11</small>	<p>Spaces should be safe to touch and easy to disinfect. Infection prevention and control can include anti-microbial surfaces.</p>	<p>Solutions should be easy to clean and safe to touch. Investments should be made in building materials that prevent harm, mitigate risk for contamination, are highly functional and can be adapted and repurposed with changing workspaces.</p>	<ul style="list-style-type: none"> <li>• DIRTT has a suite of hospital-grade power and finishes to address these needs.</li> <li>• Using Enzo® with Optifiller provides easy-to-clean wall surfaces.</li> <li>• Thermofoil on millwork is easy to clean.</li> <li>• Our Carnegie fabrics that are used in hospital settings can provide infection-control properties to the workplace.</li> <li>• DIRTT allows for easy use of customer's own materials (COM) such as Corian.</li> <li>• DIRTT allows for technology to be embedded into walls behind easy-to-clean 6 mm glass.</li> </ul>
<b>Physical and mental health</b> <small>Sources: 1, 3, 5, 7, 8</small>	<p>There is global acknowledgment that personal safety and well-being within the workspace has significant impact on productivity and business continuity.</p>	<p>Creating an environment that ensures individuals feel secure and protected has benefit. It facilitates increased concentration, efficiency and engagement. It builds trust between employees and employers. Physical environments shaping workspace behavior needs to be adapted quickly to reflect the concerns and needs of individuals and must provide visual cues confirming the environment aligns with their priorities. Speed is key.</p>	<ul style="list-style-type: none"> <li>• DIRTT solutions allow the workplace to be easily modified to create more personal space for the individual.</li> <li>• DIRTT has solutions that incorporate natural (biophilic) elements into the workplace. Timber structures and Breathe® walls, bring the outside in, having a positive effect on well-being and increasing productivity.</li> <li>• Using graphics on Willow Glass provides imagery that can calm and encourage employees. In healthcare environments, that is referred to as distraction imagery.</li> </ul>

## DIRTT SOLUTIONS ACCOMMODATE

THEME	DESCRIPTION	CONVERSATION	SOLUTIONS
<b>New protocols</b> <small>Sources: 1, 6, 7, 11</small>	Employers will want to manage and minimize human interaction points and increase safety and hygiene safeguards. Welcome to the six-feet office.	In order for people to feel safe at work, protocols will be put in place to ensure co-workers maintain a minimum safe distance of six feet. Being part of the design conversation early allows clients to maximize the benefits of the solutions in the workplace. This allows them to create spaces that support meeting guidelines. It also creates a space that allows them to change as the guidelines do.	<ul style="list-style-type: none"> <li>• DIRTT allows clients to adapt and re-adapt their floorplan as needed.</li> <li>• DIRTT graphics can display protocols in easy-to-read, readily visible formats.</li> <li>• Wayfinding graphics can be incorporated to allow safe passage through office spaces.</li> </ul>
<b>Touch-free</b> <small>Sources: 3, 7, 11</small>	The goal will be to eliminate hand-to-surface contact wherever possible. This will include using automatic doors, liquid dispensers and motion-sensing technology to support workers and keep them safe.	In this post-COVID world, touchpoints have become a concern for infection transfer. As new technology is introduced to create a truly hands-free office, investing in infrastructure that can support those changes is crucial.	<ul style="list-style-type: none"> <li>• DIRTT wall panels can be easily removed to allow for updated technology to be integrated into a space in hours rather than days.</li> </ul>
<b>Technology infrastructure</b> <small>Sources: 7, 8, 9, 11</small>	Employers and employees want accessible, trustable and platform-compatible technology that facilitates communication between remote and on-site working.	As our return-to-work plans evolve, workspaces have to be ready to support those who are back at their desks and those who are still working remotely. Collaboration between the two will be facilitated by integrated tech. Maintaining a connection both from a network standpoint and a personal standpoint is key. Making this connection easy is essential.	<ul style="list-style-type: none"> <li>• DIRTT quick-connect power and network solutions are flexible and future-proof. When more data or power cabling is needed to enable technology, pre-terminated modular solutions make that process fast.</li> </ul>

<b>Technology applications</b> <small>Sources: 3, 7, 8</small>	<p>Monitoring and alerts. Notifications sharing individual movement, suggested pathways and predicative collision points. Building health updates like air-quality reporting, cleaning alerts, health and safety protocols.</p>	<p>How will building owners and managers convey information to employees about building usage. Using integrated tech can help distribute information. For example live-tracking maps show usable space, indicate “hot spots,” and highlight cleaning protocols and building air-quality information.</p>	<ul style="list-style-type: none"> <li>• DIRTT media walls can be embedded in high-visibility walls to integrate with new monitoring and alert protocols. Because the monitor is behind glass it does not become an infection risk.</li> </ul>
<b>Air quality</b> <small>Sources: 3, 6, 7</small>	<p>Improved air filtration systems will integrate with building management systems. They will be designed to communicate air-quality levels and alert when quality is compromised.</p>	<p>As a specialty subcontractor it’s important to be aware of how air filtration fits into the design of an environment. The goal is to support and enhance HVAC and airflow considerations.</p>	<ul style="list-style-type: none"> <li>• DIRTT’s Breathe® wall incorporates living plants into an environment. They can act as a low-grade natural air filter.</li> </ul>

## SOURCES (+ FURTHER READING)

1. *Cushman & Wakefield - 6 Feet Office* (article and webinar)
2. *Resilient Design Institute - Boosting Organizational Resilience and Managing Change in Crisis* (webinar)
3. *JLL - COVID-19: Global Real Estate Implications* (article)
4. *CBRE - COVID-19 and the Future of Furniture* (article)
5. *Gensler - Taking Care of Each Other in the Post-Pandemic Open Office* (article)
6. *Gensler - What Happens When We Return to the Workplace* (article)
7. *Interior Architects - A Changed World: What Happens When we Return to the Office?* (webinar)
8. *BWBR - Design Thinking Series: Future of the Workplace (Episode 1)* (panel discussion)
9. *The Commercial Interior Design Association - Collective D(esign): Responding to Change* (webinar)
10. *The Commercial Interior Design Association - Collective D(esign): Healthcare Designers at the Forefront* (panel discussion)
11. *The New York Times - What Will Tomorrow's Workplace Bring? More Elbow Room, for Starters* (article)