SMART BUILDINGS What does the workplace of the future look like?

As countries and corporations step up efforts to reduce their carbon footprint,¹ there's a growing desire to decarbonise a major contributor to climate change real estate.² Advances in technology are driving a shift towards 'smart buildings', helping accelerate the shift to net zero.³



Total savings by 2050 from using smart glass windows, which use artificial intelligence to automatically control heat and glare⁸



THE EFFICIENT INTERIOR

HVAC systems

Responsible for up to 70% of a building's energy usage, HVAC systems will increasingly be smart and deploy features such as ventilation calibrated by occupancy rates⁹



Occupancy sensors

Detect the presence of people to aid the efficient use of lighting and air-conditioning



CO₂ sensors

Enhance indoor air quality by controlling levels of CO₂, which studies have shown can adversely impact productivity



Desk-booking apps

Provide real-time information on workspace availability to aid the smooth transition to a hybrid,























blended workspace¹⁰



BUILDING RESILIENCE IN THE COMMUNITY

Smart buildings integrate natural features into their design to preserve the landscape, and create a green and safe space for the surrounding community



Seamless connectivity

Encouraging the use of public transport to reduce the impact of personal vehicles on the environment¹¹



Smart parking¹² ¹³







Heightened security



EV-charging stations



Vehicle-employee schedule matching



Permeable tarmac for improved drainage





Grid-interactive

Constant communication between occupants and energy suppliers reduces strain on the grid and aids efficient distribution of power¹⁵¹⁶



MAKE THE FUTURE COUNT TOGETHER

The ANZ Finance & Treasury Forum is back in 2022 – and back in person. Held in Singapore on October 20, the forum will bring together some of the region's most compelling thought leaders to discuss how organisations are **making the future count together** on the path to net-zero carbon. As the threat to natural capital and biodiversity becomes ever clearer in a post-pandemic world, the

forum will explore key topics of global importance across geopolitics, sustainability, and the technology that will help bring your business into the future. ANZ Institutional Insights will provide coverage and insights into the key themes from the forum in the lead up to the event - and beyond.

- ⁷ https://gba.org/resources/green-building-methods/exterior-solutions/energy-efficient-windows/ ⁸ https://www.theenergymix.com/2019/03/26/smart-glass-would-save-2-19-gigatons-of-carbon-by-2050/#:~:text=By%202050%2C%20smart%20 glass%20

- ¹³ https://hesion-park.com/en/news-2/le-smart-parking-cest-quoi-exactement/ ¹⁴ https://www.rolandberger.com/en/Insights/Publications/Green-offices-are-the-future-of-today.html
- buildings%20are,footprint%20of%20the%20buildings%20sector.%22

