



A COVID-19 Virtual Ideation Experience

The Autonomous Workplace

Team Number: 01



A COVID-19 Virtual Ideation Experience

Team members:

Name	Organization
Josh Wilkinson	CBRE, Hong Kong
Kamran Sathar	Spacematrix, Australia
Bipin Misra	Cognizant, India
Evodia Alaterou	Hassell, Australia
Michael Wheal	Gallagher Jeffs, Australia
Pramod Panda	Cognizant, Philippines



IDEA



CONNECT



SOLVE



PRESENT

A COVID-19 Virtual Ideation Experience

Short Term Plan (< 6 months)

Suggested action items in Short Term -

Human body temperature check through **Digital Thermal Scanners**

UV light screening for immediate & effective sanitization in zones

'**Touchless Entry**' – use of QR code based apps through hand phones

Touchless elevator operation through hologram/mobile app/tap card

Touch free vending machines through mobile app based access

Sensor based water dispensers & toilets

App based food ordering & payment systems at cafeterias

Avoid over-crowding by tracking through QR code/wifi access points in a given zone/floor



A COVID-19 Virtual Ideation Experience

Medium Term Plan (6-12 months)

Suggested action items in Medium Term -

Sophistication of zoning by logical segregation & making smart BMS control systems

Shift in 'mindset' towards health & safety, beyond logical construction guidelines

Sensor/Gesture based control for AV/lighting/HVAC

To avoid every physical touch point, by shifting towards & introducing **control through hand-held personal devices**

Gradually move away from card based access to **app based or biometric access (Retina)**

Use of robotics technology for various level of automation including usage of drones to capture data, that can assist with social distancing/large gathering analytics

More stress towards **'paperless' organizations** which will avoid physical touch points

Encouraging virtual meeting participation through **large screen connectivity from logical zones**



A COVID-19 Virtual Ideation Experience

Long Term Plan (18+ months)

Suggested action items in Long Term -

Sophisticated **seat booking/seat management systems** that can provide real-time status update and do the data analytics for required periodical sanitization of seats

Robotics based UV light systems to sanitize larger zones, quickly & effectively

Use of '**Service Robots**' to minimize touch points and exercise absolute control to ensure discipline and real-time data analytics

Device/Drone to scan air quality at work place, in real-time

Replacement of elevators buttons (by landlord) with latest **touchless technology & built in thermal scanners** that can provide real-time data analytics

Replace 'card based access' with **biometric/RFID/NFC** with increased usage through hand held devices

Contact tracing with the help of mobile technology/app based location tracing, to stop the spread of infection/isolation of the infected person and those who may have come in his contact

Tech enabled virtual working environment to minimize work force at office