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# Technology and Office Spaces



# THE ASSIGNMENT

1

Explore design options to activate virtual and physical gathering spaces for large groups at Norwest eg. Town Halls, large workshops and team meetings, including technology. In a covid safe environment.

NOTE:

Large Group: 100

Small Group: 12

# OVERVIEW

## The Presentation ...

1. Technology
2. Space (Work Space)
3. The Space x Technology
4. Implementation in Large Groups and Small Groups.

# THE CURRENT FLOOR PLAN



# Part 1: The Technology

Technology is powering unprecedented collaboration in the workplace, from AI wearables to VR presentations to smart whiteboards, and it's about to reach a new frontier. For decades, email has been the dominant form of workplace communication. But with the rise of technologies powered by the cloud, workers are increasingly able to collaborate using innovative new mixtures of video, smart-screen touch and messaging apps, the resulting work and conversation saved automatically in the cloud, everyone able to access it using any device on their own time.

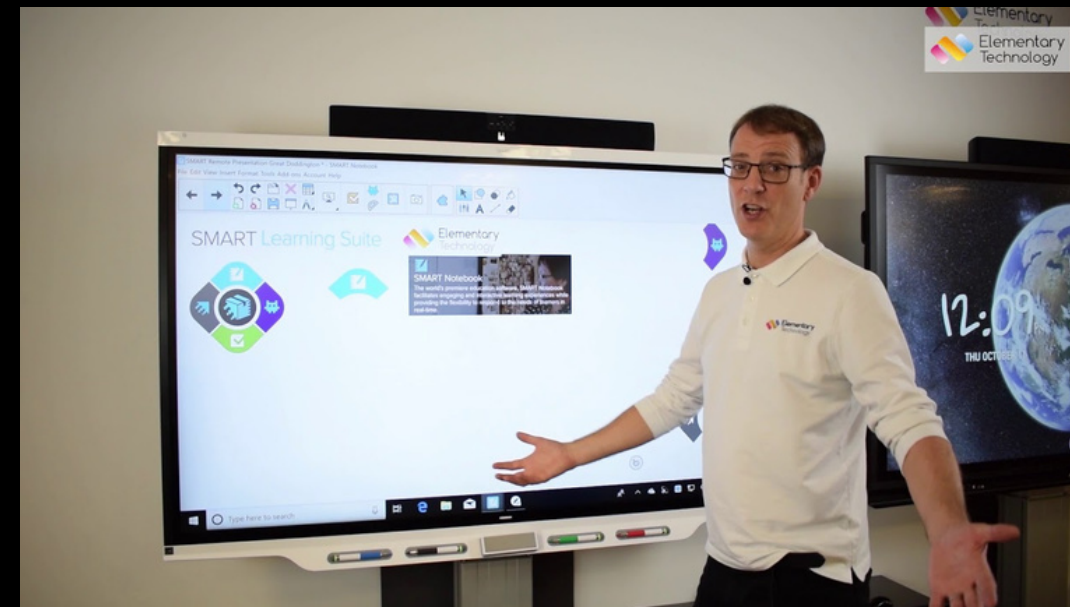
## AI Wearables

Apps and virtual assistants on glasses, watches and other personal devices. That can navigate your work, check in on your health, communicate between workers and upload documents. Ensuring better health, productivity and communication among workers.



## Smart White Boards and Video Screens

Digital whiteboards that allow conferencing with video, audio and file-sharing capabilities. Now workers can interact and access using any device for online, offline and enhanced real-time collaboration on projects advancing after or during meetings.



## Compact Video Devices for Desks

Affordable, smaller video devices on desks that empower small, personal collaboration between workers at home or even from the office.



# The Technology

## Virtual Reality

VR systems are being developed in which remote workers can truly feel part of the office, viewing people and documents as if they are present for a meeting.



## The Cloud (Cloud System)

Remote servers that allow workers and companies to share and store files remotely, powering collaboration tools like ZOOM, that give people the freedom to work together using any device anywhere in the world.



## Wireless Sharing

Compact devices such as Webex Share can be plugged into a simple USB or HDMI port, letting you wirelessly share presentations or any display.



# The Technology

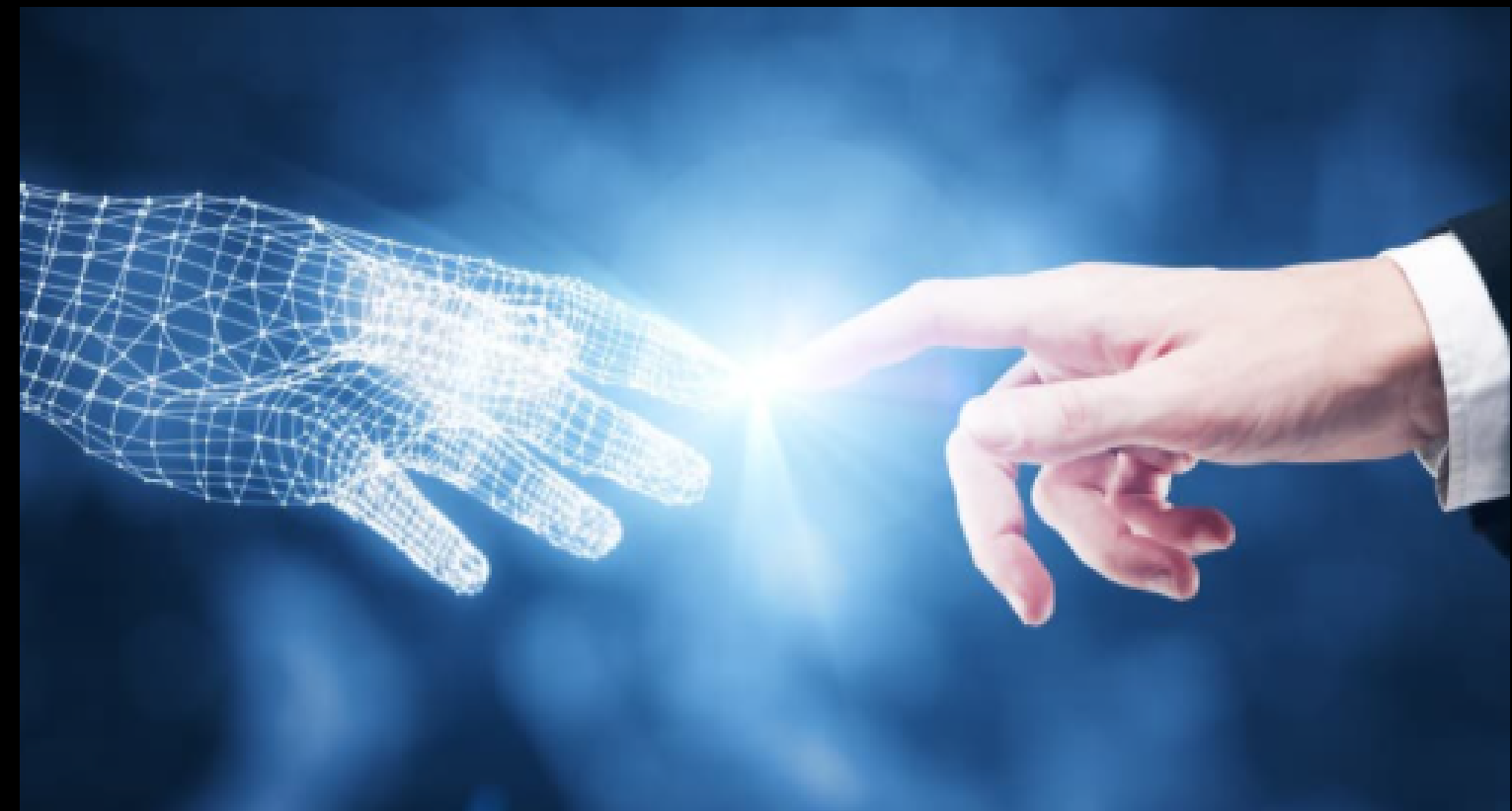
## Video Systems

Smart Voice activated video systems with AI that can track and count people in the room while automatically suppressing distributive noises are transforming offices and allowing remote connectivity to feel neutral and easy.



## Digital Twins

A digital twin is a 3D model of a physical entity like a building or city, but with live, continuous data updating its functions and processes in real time, providing a means for analyzing and optimizing a structure. When live data from the physical system is fed to the digital replica, it moves and functions just like the real thing, giving you instant visual feedback on your processes. The collected data can be used to calculate metrics like speed, trajectory, and energy usage, and to analyze and predict efficiencies. *(Definition from <https://www.unrealengine.com/en-US/digital-twins>)*



# The Technology



## Part 2: The Space

For years, work has been confined to one realm — the office. But now, thanks to technology, workers are able to collaborate with different devices from anywhere around the world, this new model creating a more mobile workforce — and office-space revolution. In the past, offices were largely limited to the four walls of their buildings, everyone clocking in to work at a desk, the entire enterprise supported by an in-house IT system with bulky servers occupying space. But now, IT systems are increasingly being outsourced remotely to the cloud, ensuring more efficient communication while also freeing up physical office space — radically changing how and where we work. Increasingly, office design is guided by a simple principle — creating open spaces in which workers can collaborate both in person and with others abroad. Instead of personal cubicles, workspaces now feature video-enhanced boardrooms, smaller three-person huddle rooms and quiet garden rooms for contemplation — the entire space anchored by a mixed-use environment like a café in which workers can relax and brainstorm ideas.

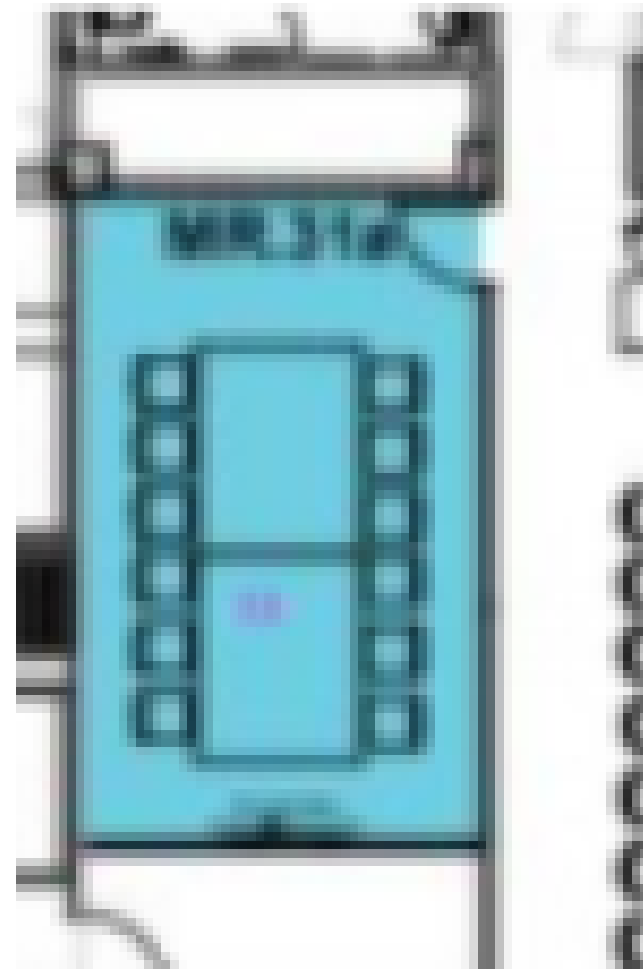
# Part 2: The Space

## THE VISION -

In video-enhanced boardrooms, teams often work off panels of digital whiteboards, far-flung workers participating via video from their laptops, tablets or smartphones, a working document of the project updated and altered in real time on everyone's screens. For smaller sessions, huddle rooms are equipped with video-enabled desks, two-to-three-person teams collaborating in person while virtual workers weigh in from afar. In office cafes and garden spaces, workers brainstorm casually, while lounge chairs with built-in desks are available for individual workspace. Unlike past video-conferencing systems that required dongles and various service providers, the power of this new technology is its simplicity.

## Board Rooms (Conference Rooms)

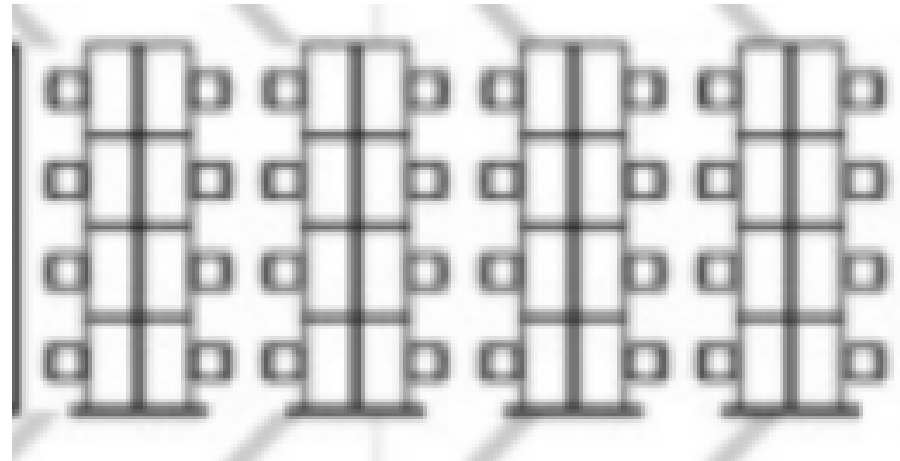
For meetings and where workers, executives and etc can collaborate on major issues, projects and products.



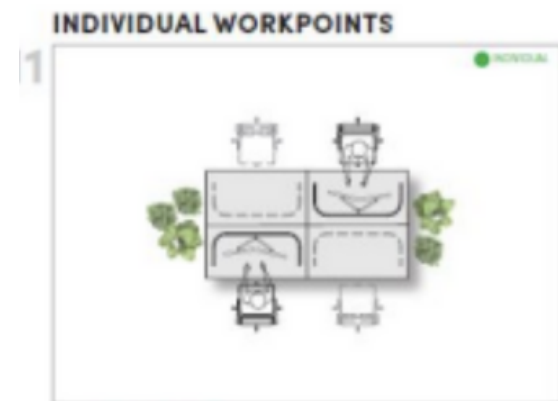
**POSSIBLE  
WORK  
SPACE  
IDEAS**

# Individual Workpoints

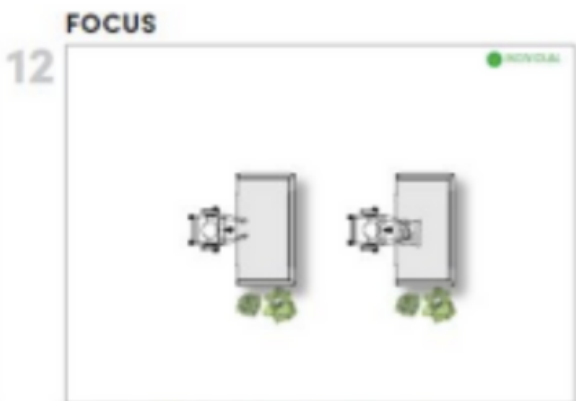
For workers to work on their individual parts when part of a collaborative project.



# POSSIBLE WORK SPACE IDEAS



- 1P (4P NON-CORED)
- NON BOOKABLE PRIVATE WORKPOINTS FOR INDIVIDUALS
- 1000 X 800 WITH ACOUSTIC SCREENING
- SIT & STAND OPTIONS
- TO BE LOCATED AWAY FROM SOCIAL OR LARGE COLLABORATION SPACES

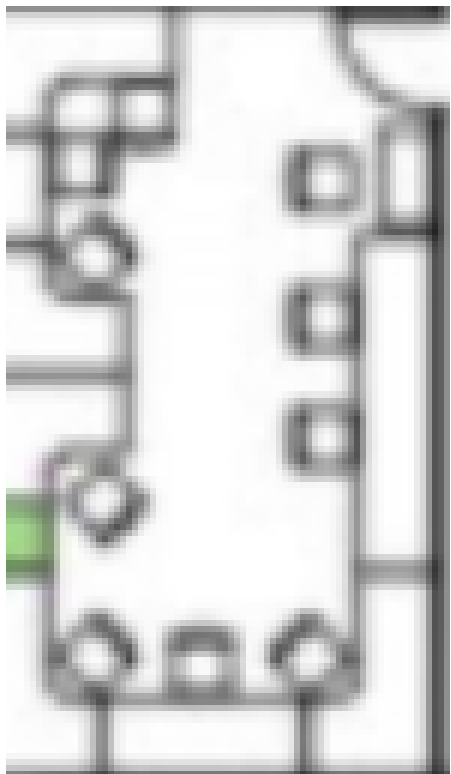
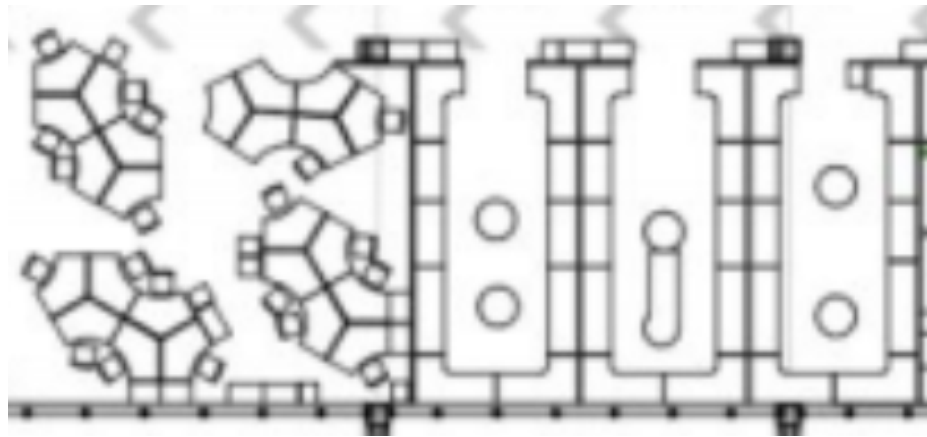


- NON BOOKABLE FOCUS WORKPOINTS FOR 1 PERSON
- 1500 X 800 WITH ACOUSTIC SCREENING
- POWER AND DATA POINTS
- ISOLATED SETTING
- TO BE LOCATED AWAY FROM SOCIAL OR LARGE COLLABORATION SPACES



## Creative Space

In office cafes and garden spaces, workers brainstorm casually, while lounge chairs with built-in desks are available for individual workspace. Unlike past video-conferencing systems that required dongles and various service providers, the power of this new technology is its simplicity.

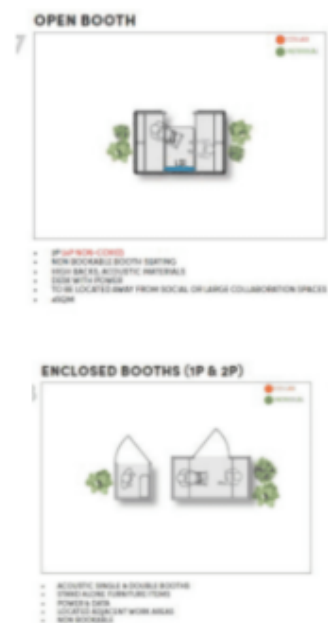


**POSSIBLE  
WORK  
SPACE  
IDEAS**

# Booths

Booths are a great idea for both collaborative and individual workers to be productive as-well as to have a sense of pride and achievement towards their work.

# POSSIBLE WORK SPACE IDEAS



# Part 3: Work Space & Technology

## THE VISION -

In video-enhanced boardrooms, teams often work off panels of digital whiteboards, far-flung workers participating via video from their laptops, tablets or smartphones, a working document of the project updated and altered in real time on everyone's screens. For smaller sessions, huddle rooms are equipped with video-enabled desks, two-to-three-person teams collaborating in person while virtual workers weigh in from afar. In office cafes and garden spaces, workers brainstorm casually, while lounge chairs with built-in desks are available for individual workspace. Unlike past video-conferencing systems that required dongles and various service providers, the power of this new technology is its simplicity.

# Part 3: The Space x Technology - Board Rooms

## Board Rooms (Conference Rooms)

Video-enhanced boardrooms, teams often work off panels of digital whiteboards.

### TECHNOLOGY IN THE SPACE

- AI Wearables
- Smart White Boards and Video Screens
- Wireless Sharing
- Video Systems





# Part 3: The Space x Technology - Individual Workpoints

## Individual Workpoints

Individuals can work with higher technology and sit while working through online platforms as-well as work productively on their individual parts on a collaborative project.

## TECHNOLOGY IN THE SPACE

- AI Wearables
- Compact Video Devices for Desks
- Virtual Reality



# Part 3: The Space x Technology - Creative Spaces

## Creative Spaces

Groups of people can brainstorm, collaborate and test their ideas products, etc.



## TECHNOLOGY IN THE SPACE

- AI Wearables
- Smart White Boards and Video Screens
- Virtual Reality
- Digital Twins



# Part 3: The Space x Technology - Sound Proofing (Acoustics)

## Booths

### Booths

Work individually and collaborate with others using technology.

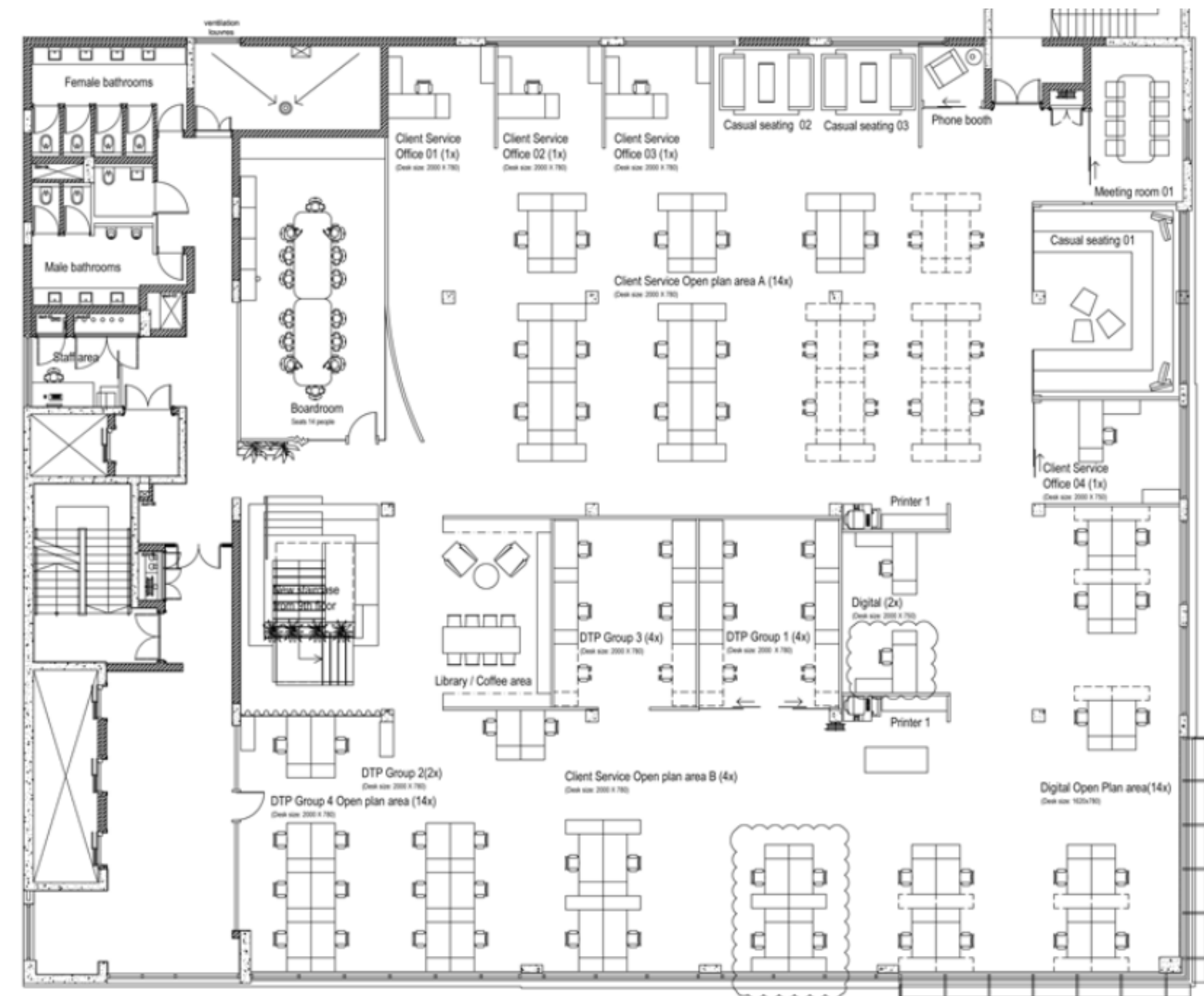
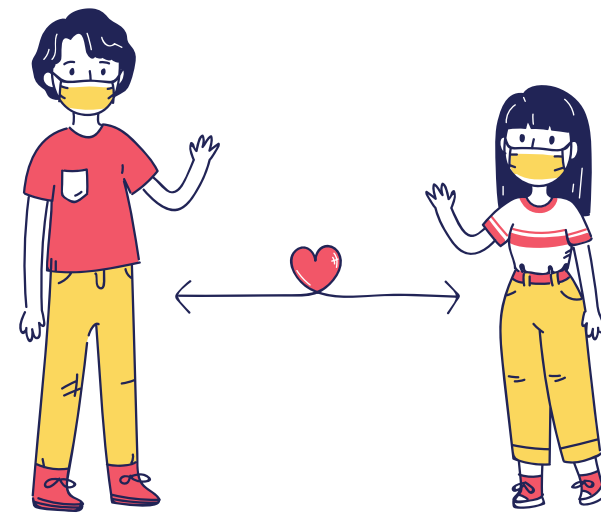
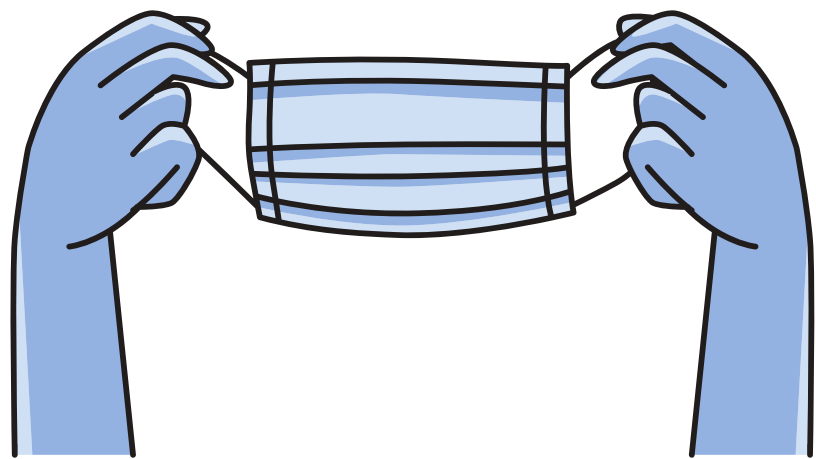
### TECHNOLOGY IN THE SPACE

- AI Wearables
- Smart White Boards and Video Screens
- Compact Video Devices for Desks
- Green Acoustics for Sound Proofing

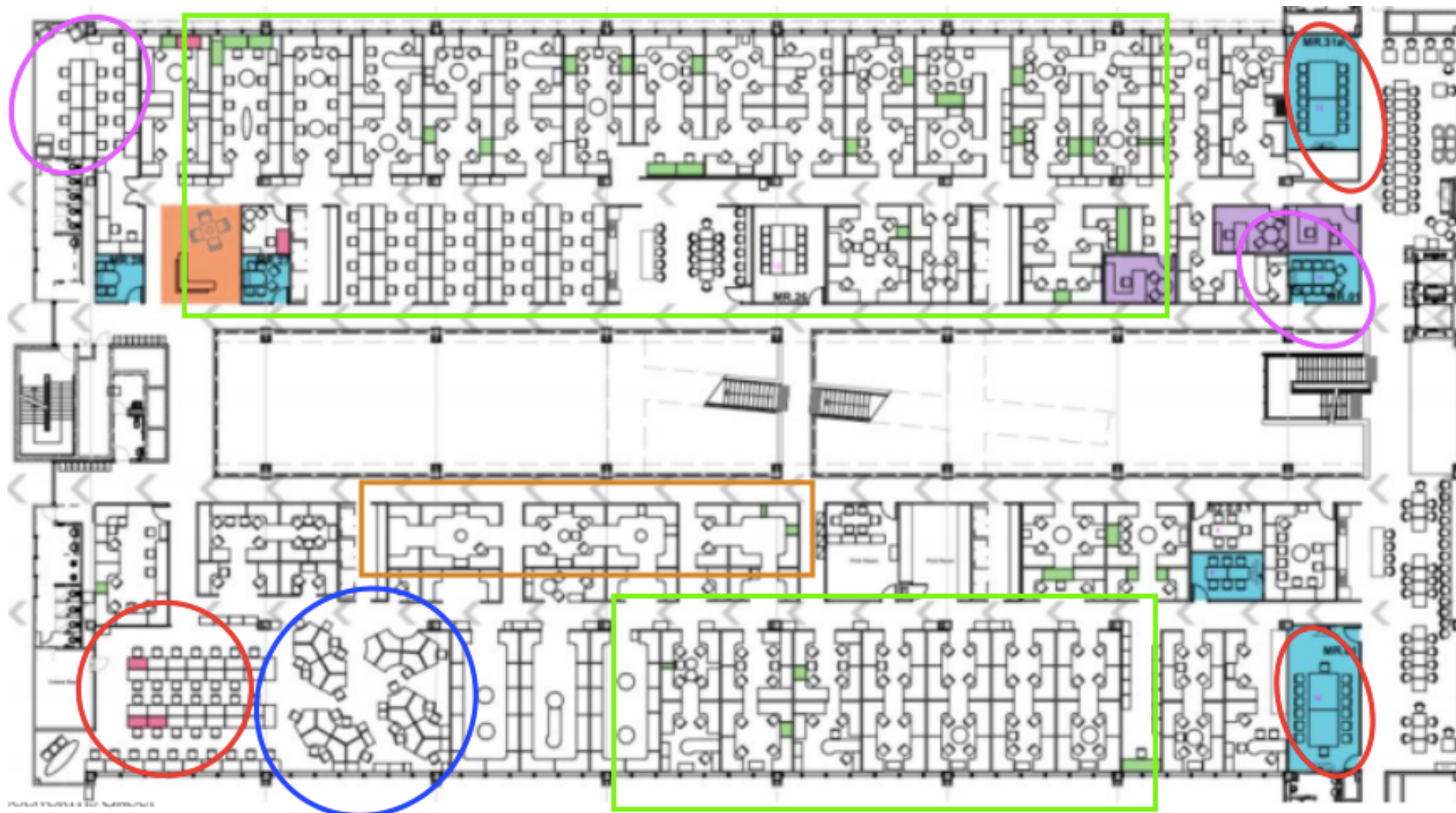


# Part 4: COVID -19

Taking COVID -19 into consideration in all offices QR code systems and AR (Augmented Reality) Systems will be put in place to raise awareness about the rules and restrictions within the the office to the workers in order to not spread COVID-19. We also have spaced seating charts too.



# Where I would place everything in the current floor plan -

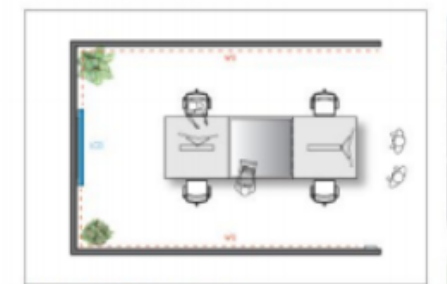
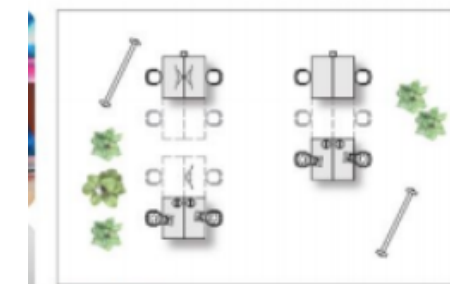
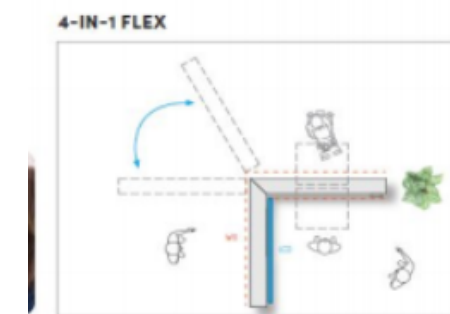


- Green - Individual, Collaborative workspace (Average Working Areas)**
- Red - Meeting Areas (Board Rooms)**
- Pink - Booths**
- Blue - Creative Spaces**
- Orange - Creative Spaces (Experimental Products)**

# Large Room - 100 People COVID -19 - Flexible Furniture



# Part 5: Putting Everything Together in Scale.



Office Spaces can now be part of a new modern age, a stress free, collaborative, covid safe and a productive environment.

