

allOffice | Room requirements

Your immersive space at a glance



Touch
Interactive



Tablet
Control



Content
Library



360 Camera



Bespoke 360
Filming



Advanced
Control PC



360 Video
Library



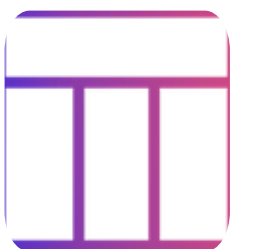
Full Training



High quality
Projection



Aroma
Dispensers



Template
System

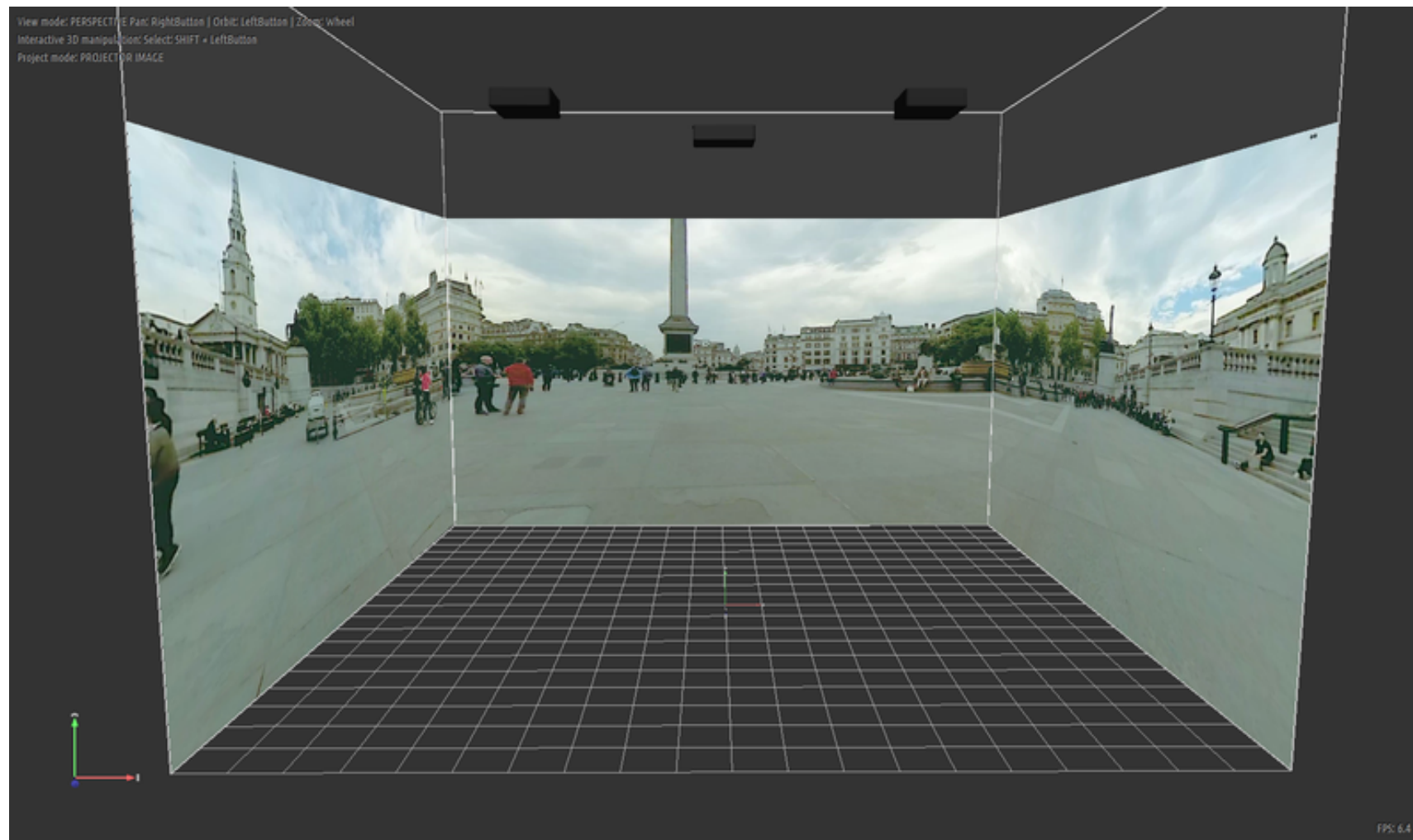


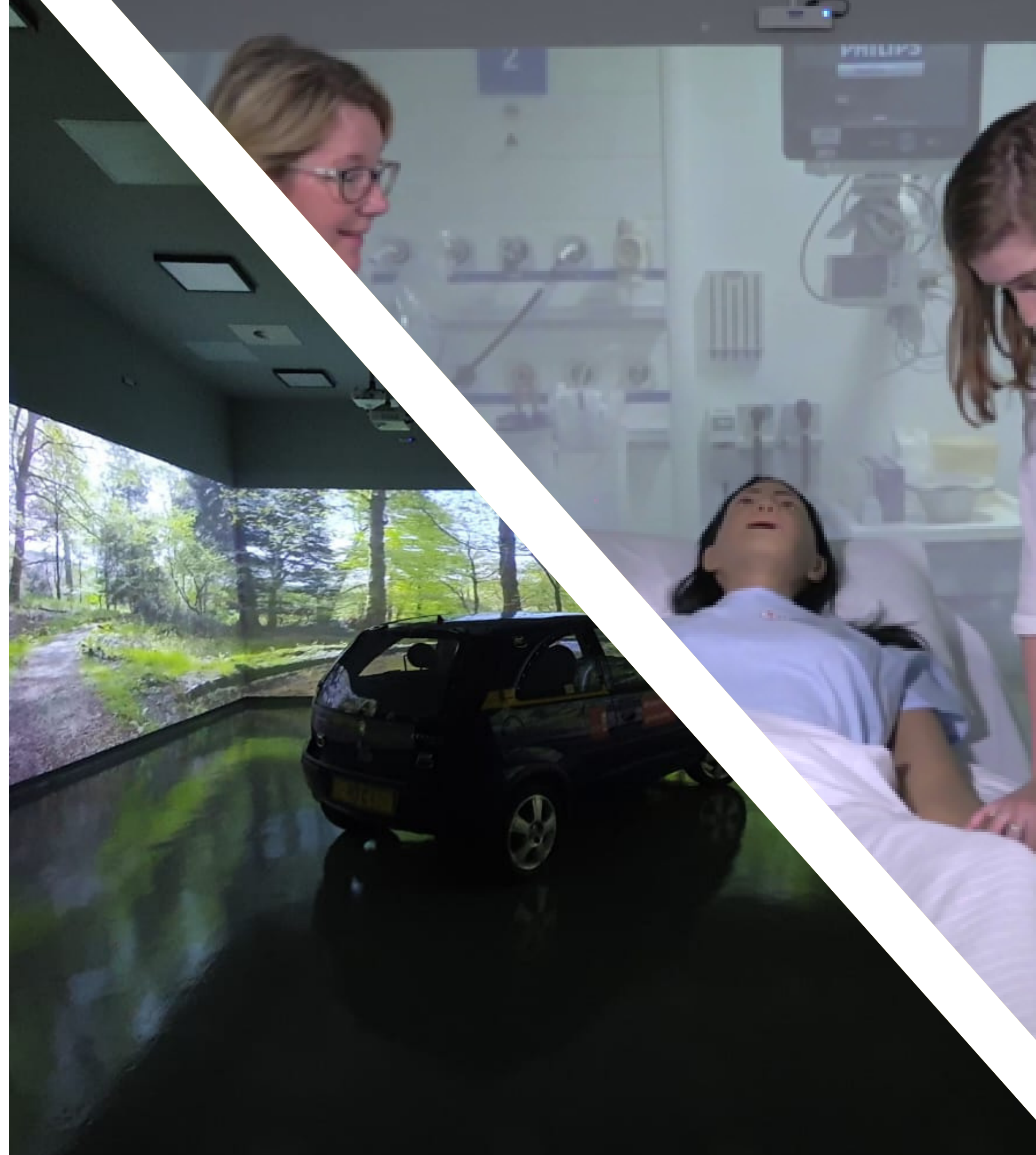
Room Dimensions

Ideal 4 x 4m, 3m height

Can work with spaces ranging from 2.5 to 12m and heights as low as 2.25m

Square or rectangular rooms





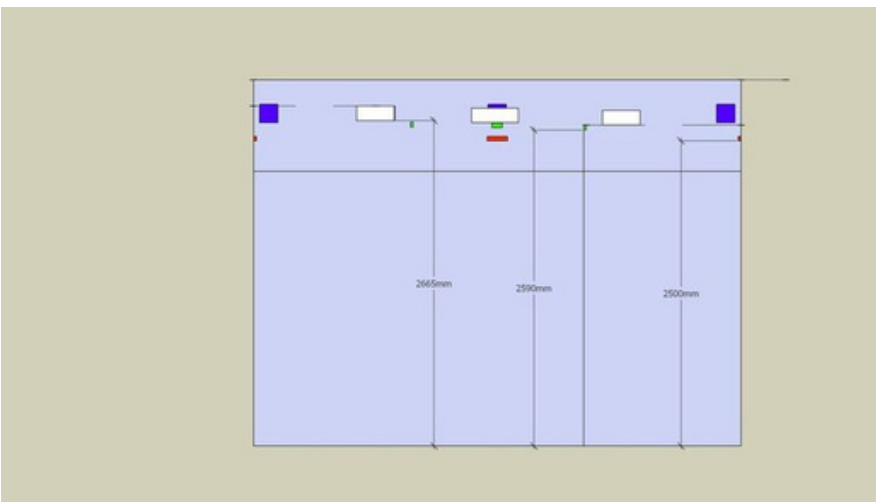
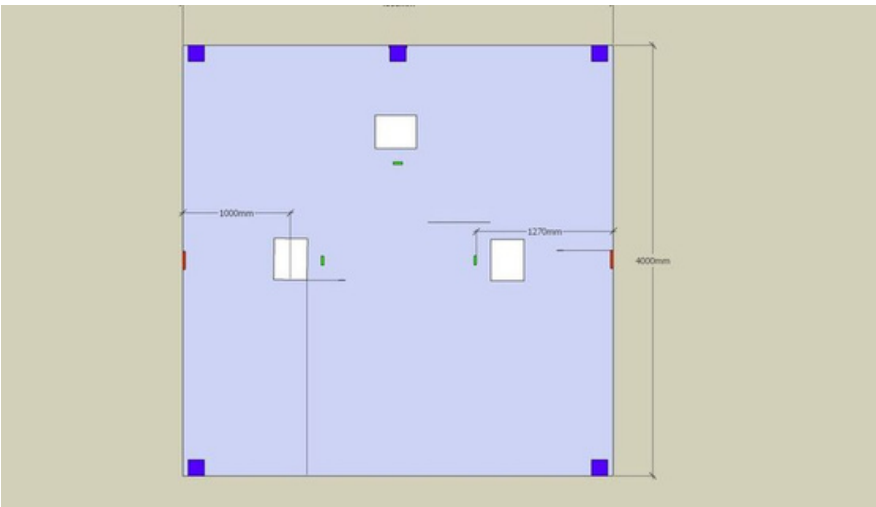
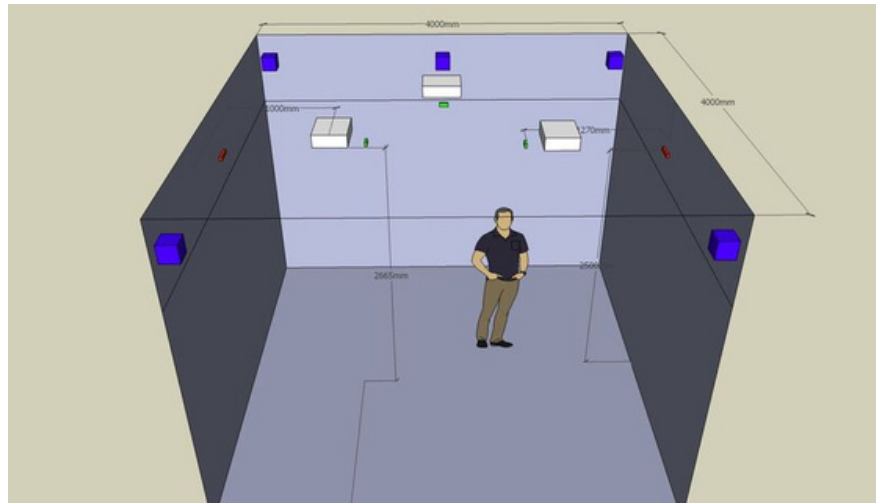
Power Supply

- 10 twin sockets at the back of the immersive space room.
- 2 twin sockets where the pc will be installed.
- 1 network point where the pc will be installed.



Typical Equipment

Product	Number of power outlets	Location
Control Room	N/A	N/A
Control PC	1	19" server rack
Tablet controller charger	1	N/A
Amplifier	1	N/A
Immersive walls rooms	N/A	N/A
Ultra Short throw laser projectors	3+	Ceiling centre
Wall sensors	3+	Ceiling 1 per wall
Sub-woofer	1	Ceiling rear
Scent dispensers	3	N/A
DMX relay	1	N/A
Intake fan	1	N/A



Equipment positioning

Most equipment is installed in the ceiling or on the upper walls. Projectors are installed as close to their optimal position as possible according to their optical characteristics, for example, lens type.

These are all calculated in advance and used to position the projectors in the drawings.

The closer to this optimal position the better the final image. During installation, we use laser lines and levels to ensure the projector is correctly positioned.

Windows and Wall obstructions



Where possible we recommend **keeping the walls clear** of any obstructions or windows.

Numerous options are available to handle situations where flat walls are not available such as:

- Construction of plasterboard walls.
- Bi-folding pull-out walls.
- Mechanical drop-down projection screens.
- Press in screens with frames – where the screen can be removed.
- Removable Window covers.
- Positioning any potential obstructions at the rear of the space.
- Moving power switches above the image height
- Cassette blackout blinds

Example one : Covering windows with blacked out projector screens



Before

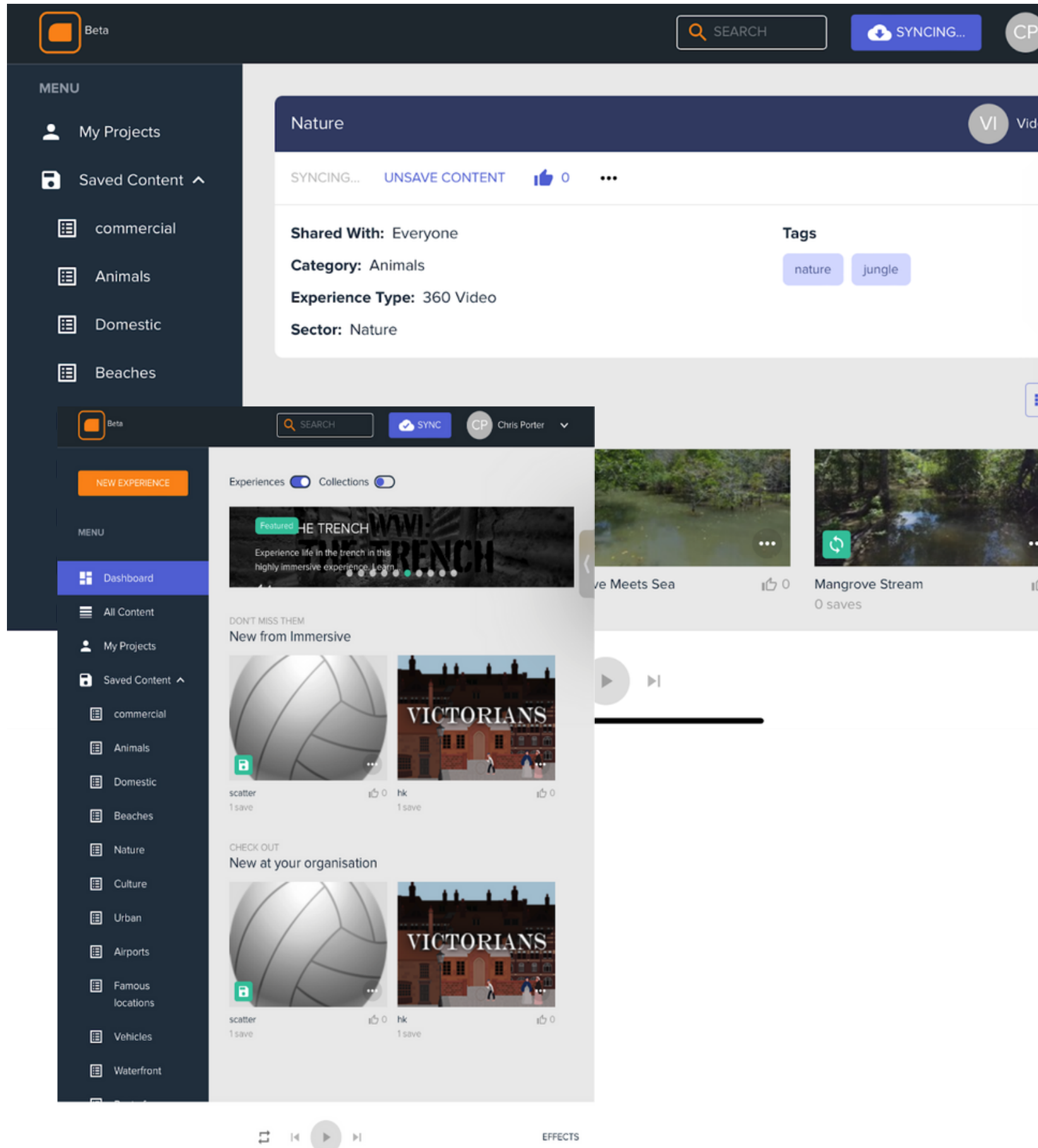


After



Example two: Room with a door





Tablet Controller

- The immersive rooms can be controlled by an app that runs on a tablet in the room.
- We can supply a router that connects to the PC or use your own network / WiFi as required.
- The tablet can be any brand, as standard, we supply Samsung Galaxy tablets.



Scent and Effects Control

Some systems include sensory effects – LED lighting, Scent machines, wind machines, etc.

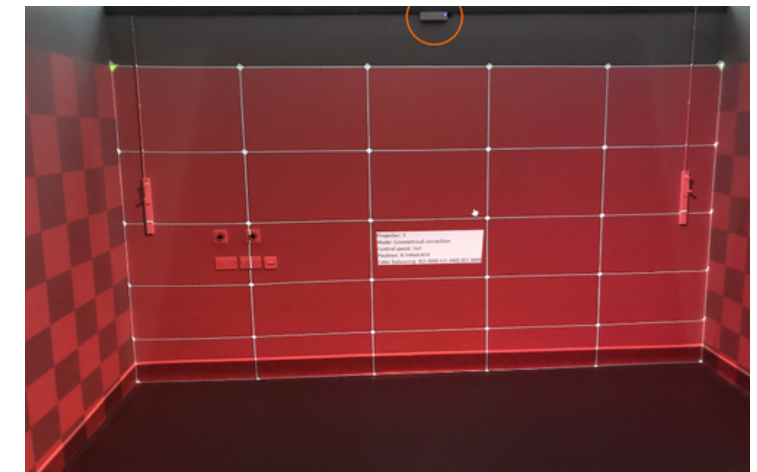
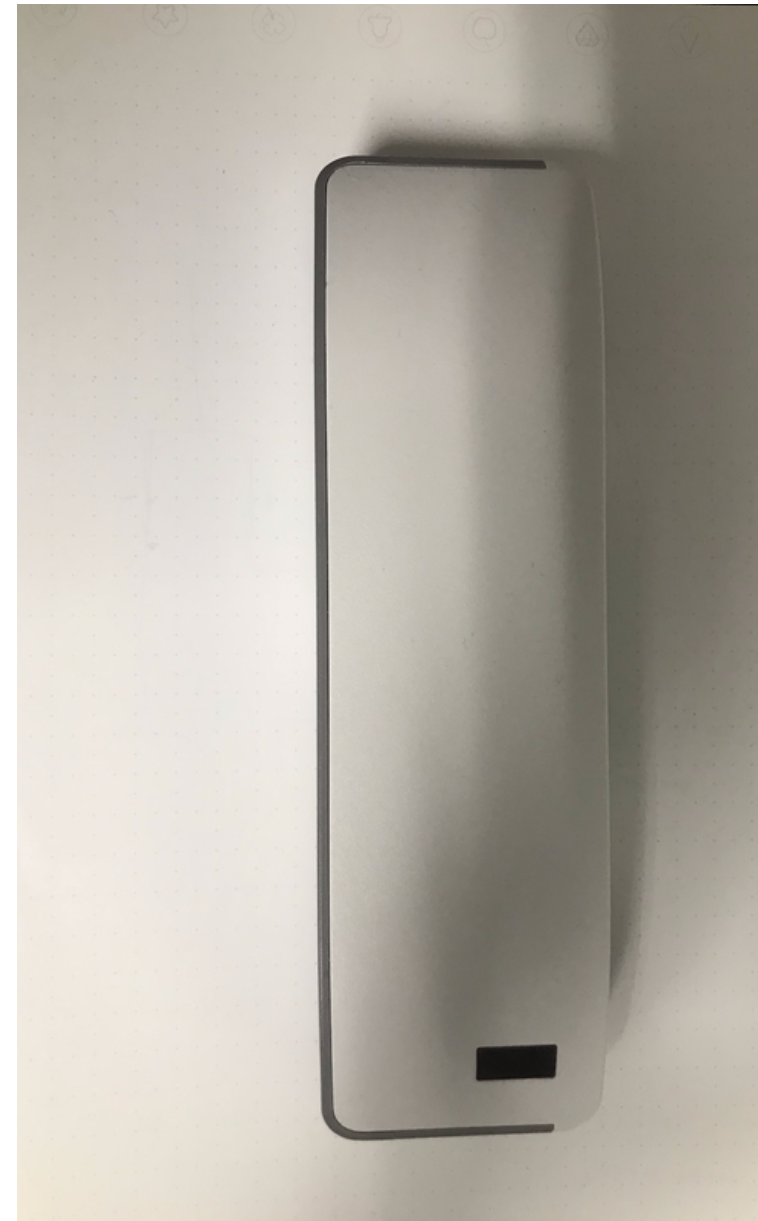
These are typically installed just below the ceiling tiles on the rear of the room.

Each Device requires one power outlet,
The scent machines are combined with a fan unit to bring the scent into the center of the room.



Interactive Sensors & Camera

- The wall touch sensors consist of two components: a wall-mounted laser and a ceiling-mounted camera.
- The lasers each require a power outlet.
- The cameras are connected to the PC via USB cable.



Wall structure

The walls are a critical part of the immersive room experience – not only do they form the image when projected they are the touch interaction surface.

They should be hard-wearing to facilitate years of touch interaction. Completely flat to enable accurate touch interaction.

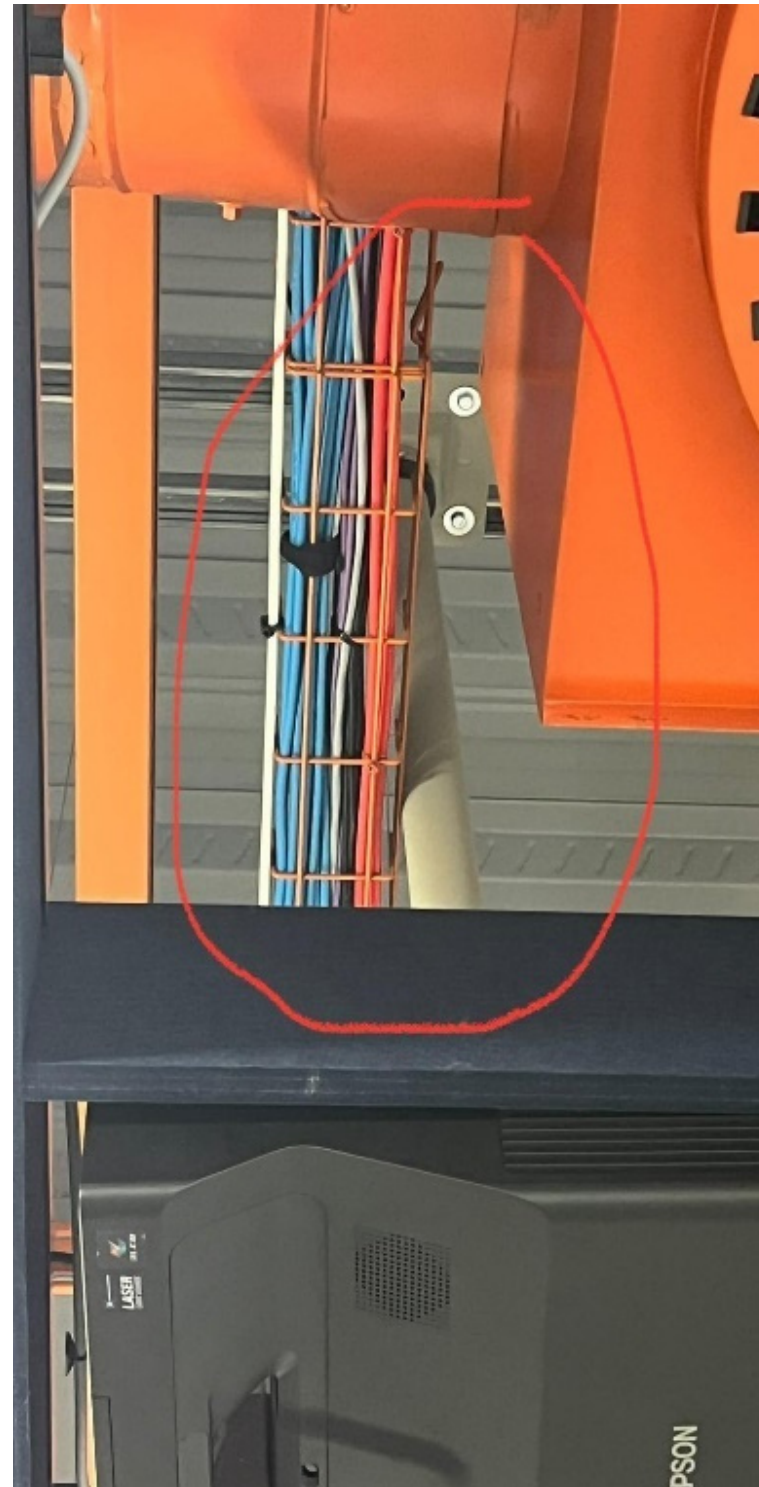
Easily to maintain and clean to maintain the clarity of the images.

Solid – no movement of sensors, or other equipment which could affect the experience.

As detailed below we will advise on the optimal wall finish and paint to use for the most vibrant images.

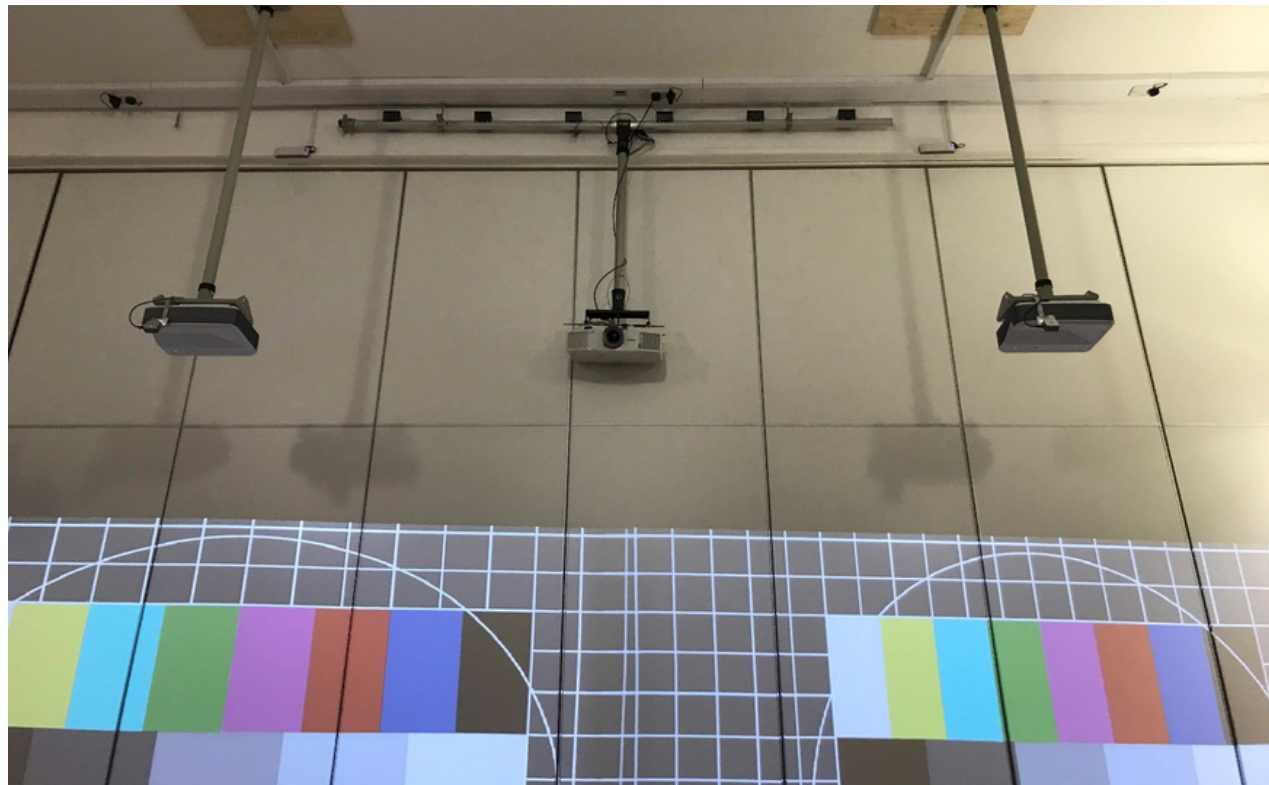
We recommend the walls are finished to a level 4 dry-wall standard.





Ceiling

- Spaces with fixed or suspended false ceilings or indeed no false ceilings at all have all been used in the past.
- The ceiling needs to perform several functions in an immersive room
- To absorb ambient light to allow the wall projections to shine.
- To dampen and absorb audio to prevent echoing and to create optimal audio conditions within the rooms.
- To provide installation points for most of the equipment:
 - Projectors
 - Sensors
 - Speakers
- To provide containment for the cables, power points, most of the bracketry, etc.
- To leave the room uncluttered and therefore give the participants a better and more immersive learning experience.
- Ideally a mat-black ceiling finish can be used although many rooms use standard grey ceiling tiles.
- Note where a fixed ceiling is used service hatches should be provided in order for us to room cables to and maintain the equipment.



Projection installation

- The projectors are mounted via mounts / poles to the true ceiling normally via Uni-strut.
- The total weight of the projector / bracket does not normally exceed 15kg.
- Where necessary pattering can be used to strengthen mounting points.
- The projectors are brought down to be below or level with the false ceiling.

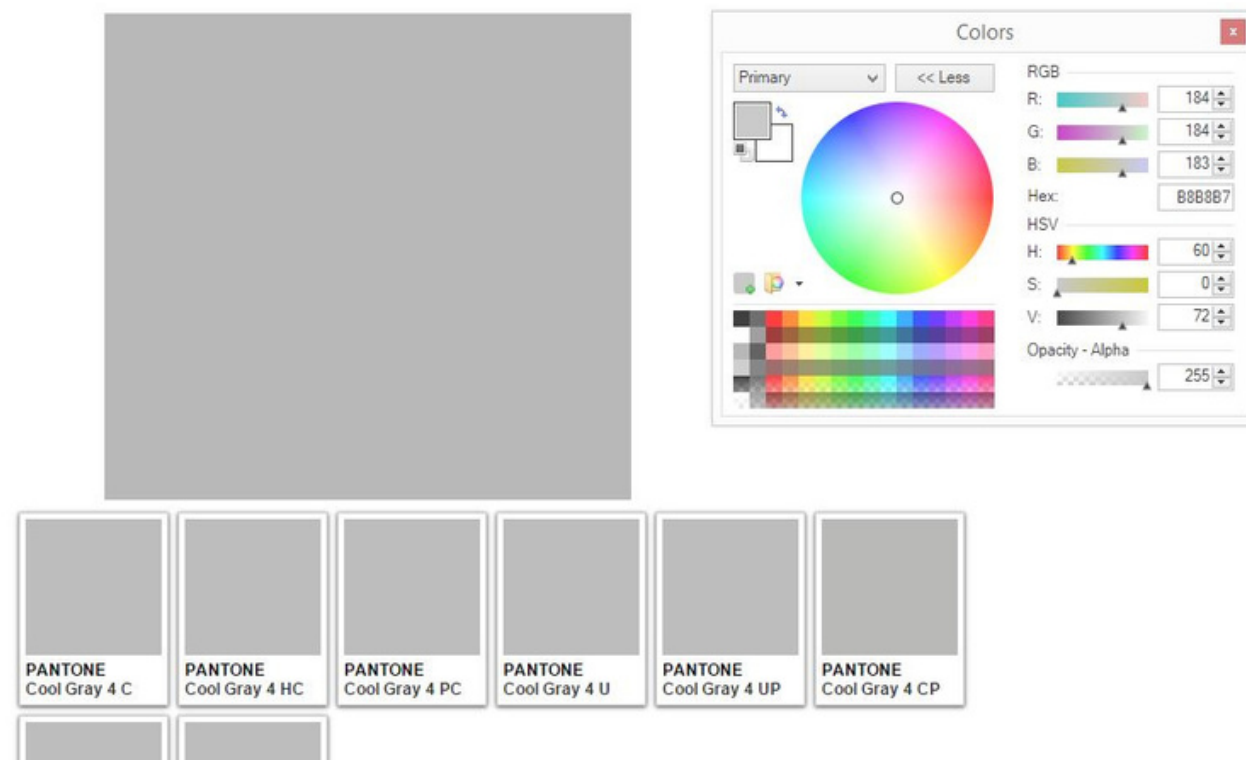


Wall Paint

Walls to be painted **'Grey Steel 2'**

<https://www.dulux.co.uk/en/colour-details/grey-steel-2>

(Pantone cool grey 4 CP (RGB 184, 184, 183)
or Pantone cool grey 4 CP (RGB 184, 184, 183)



- Hard-wearing, smooth finish paint is best. Ideally the material should be wipe-clean to facilitate maintenance.

If required we can also advise on specialist projection paint which transforms the walls into high-performance projector screens.

Floor covering & finish



Many of our rooms include interactive floor projection so this is an area we pay extra close attention to.

We recommend a mid-grey colour closely matching the wall colour:

Minimising ambient light reflecting onto the walls.

Easily concealing any marks from shoes, beds brought into the space etc.

Easy to clean floor surface: you will want a surface that is easily moped clean.

Hardwearing

The surface must work for many years – it should therefore be highly durable.

Vinyl

A hardwearing vinyl will exhibit these required characteristics.

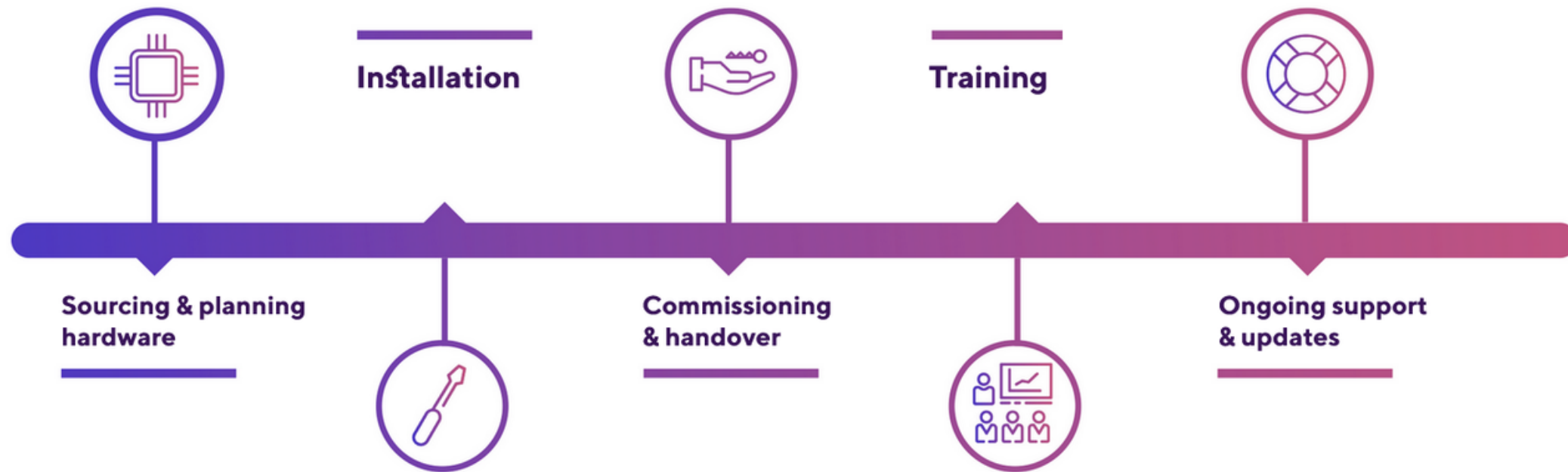
However, we are happy to discuss the options available to the contractor and to fully test and examine those options to achieve the best outcome.

PVC Hospital Skirting

We will also discuss with you and the contractor the possibility of installing a hardwearing skirting – as seen in hospitals to protect the interactive walls.

This is particulate recommend in areas where beds and trolleys and other wheeled equipment is likely to be regularly brought in and out.

Timeline



- Design, hardware sourcing, planning = 1-2 weeks
- Delivery = 1-2 weeks
- Construction = 5 days
- Installation = 1-2 days
- Commissioning and handover training = 2 days



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