Strategic Approach Hollo360

TRANSMIXR

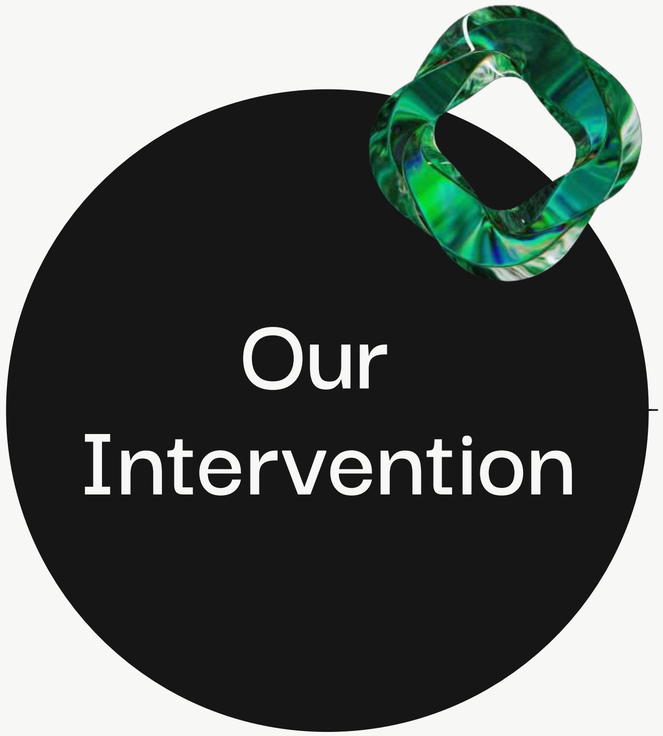
NOV 2023

IMMERSION
IMAGINATION, INTERACTION ...

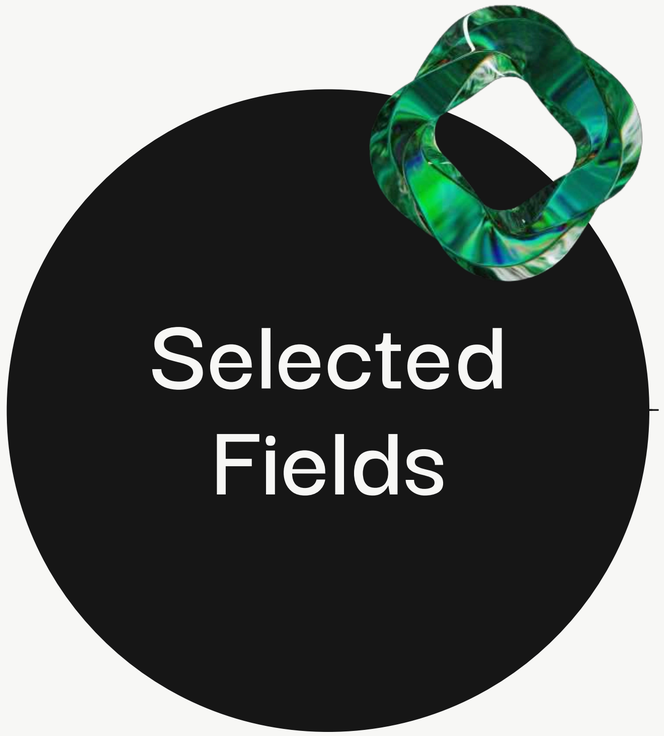
The Demand

Redefined

00



- Research = Guidelines
- 360 View Recording
- 3D Depth of Field Capture
- Solution Package



~~Museums~~

Reporting

Art shows

Green screen integration

Our Approach

Research

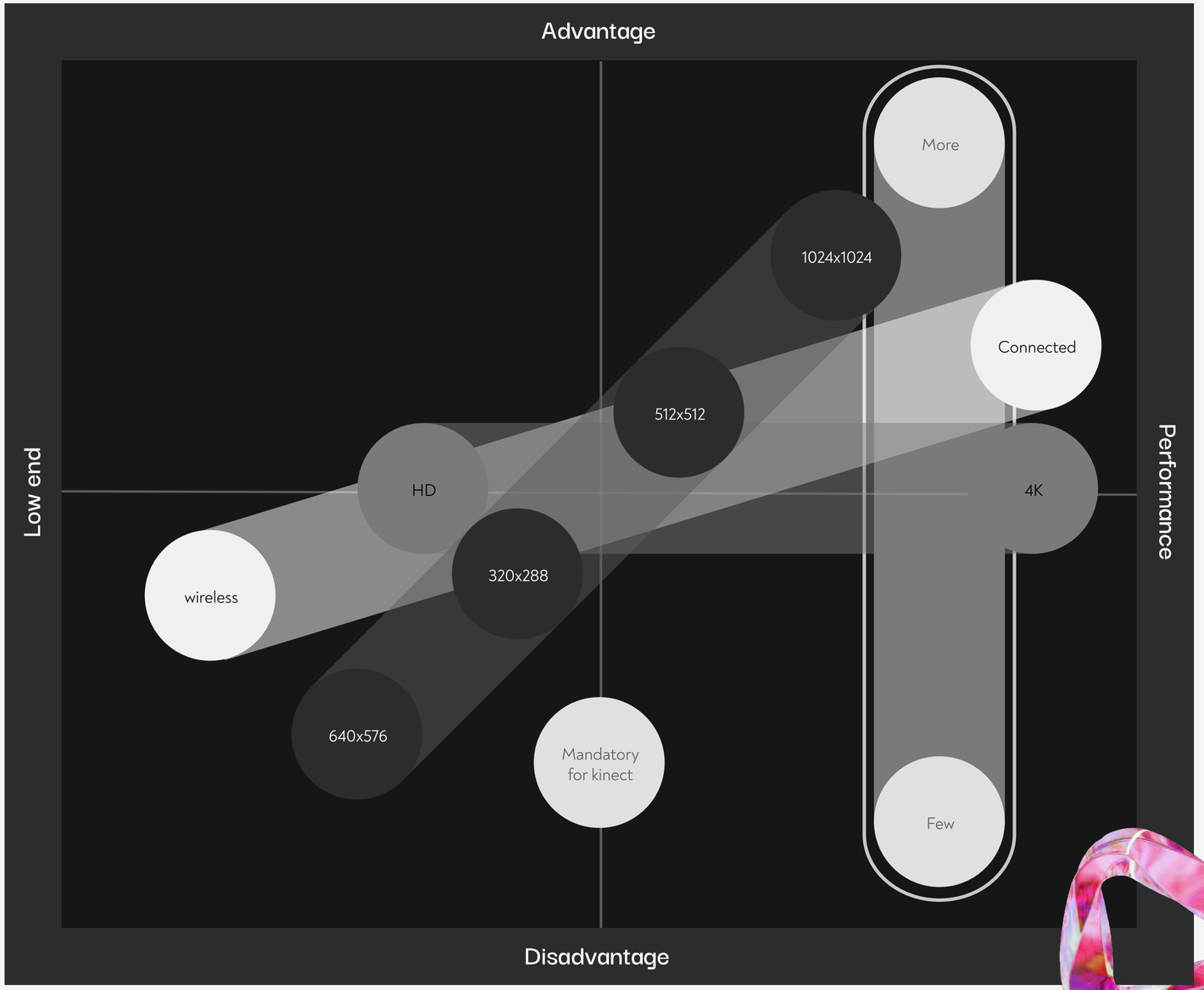
01

Legend

Disadvantage	Technical disadvantages
Advantage	Technical advantages
Low end	Low Performance
Performance	Optimal Performance

Tension points

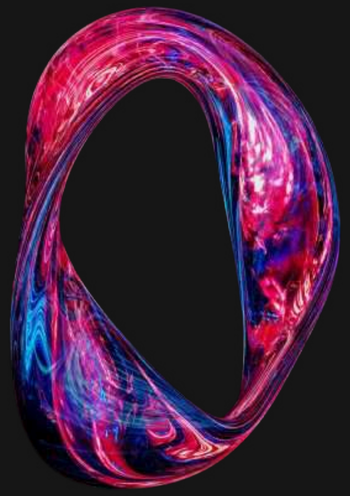
Resolution Kinect	-Following 5 modes of captation respectively: NFOV without compartimentation/with(SW), WFOV(2×2) with compartimentation/without, Passive infrared
Number of Kinects	-More the kinects more accurate coverage in height and width
Cable management	-Each Kinect need one power cable and one data cable.
360 Resolution	-HD videos give an average result in a vr headset
VR Headset	-VR headset quality improve if connected with a data cable to the pc.
PC Performance	-PCs should be installed in consequence on the number of Kinects (1 PC for each Kinect)



Guidelines

02

After a long feasibility study we initiated guidelines to respect for a successful and fluid experience while using these technologies in our selected sectors.



Our Geographical Guidelines

Kinects field of view for a basic installation will provide 3 m^2 coverage, all that is in this field will be perceived in 3D, the minimum distance from a Kinect should be 25 cm to give an accurate reading. If out of this field the elements will appear in the 360 video view only.

Legend

Kinect

360 view camera

Journalist

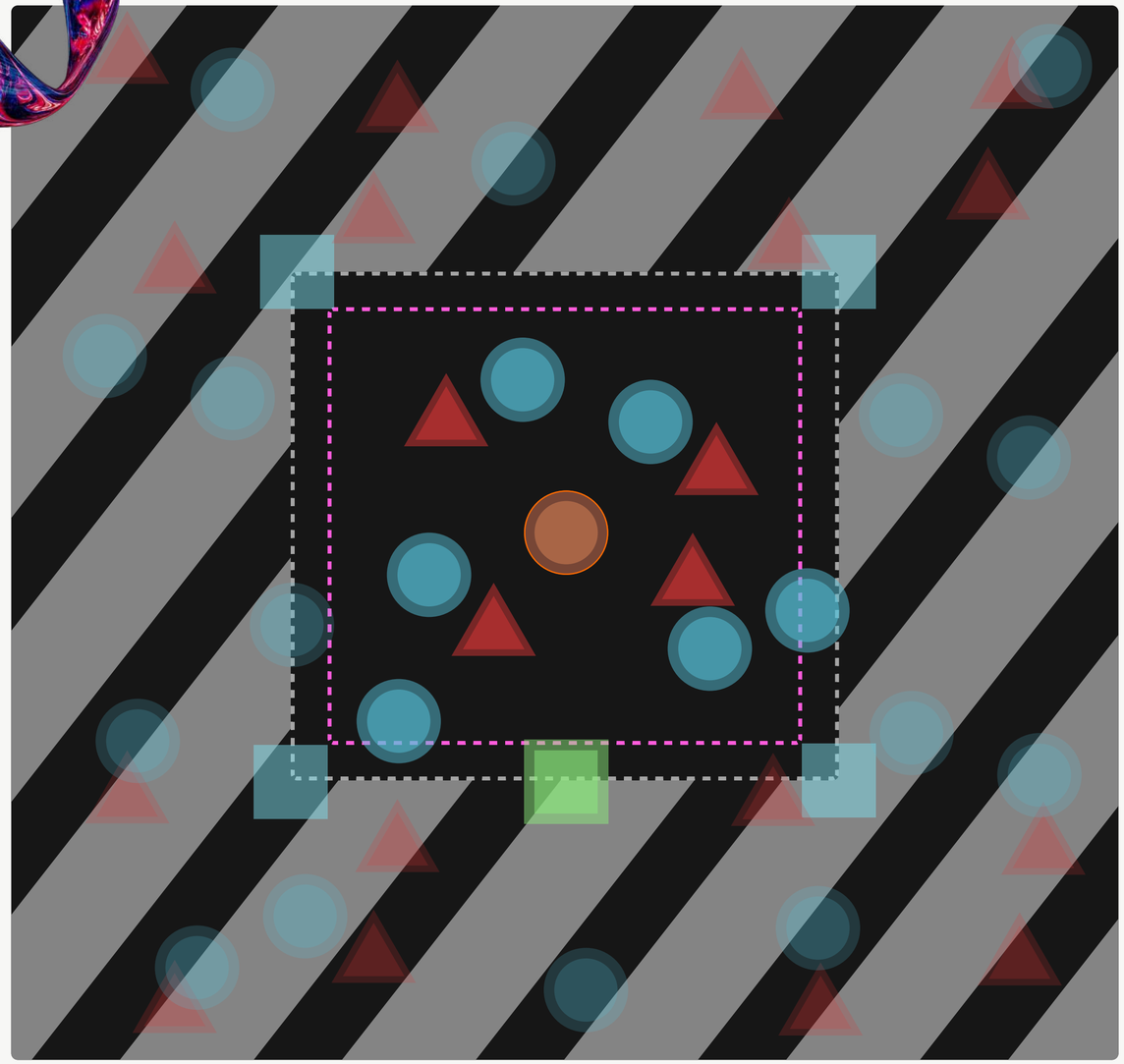
People (if faded= Visible only in 360 view)

Geographical elements (if faded= Visible only in 360 view)

Kinect feild of view

View covered by 360 camera

Kinect margin (Minimum distance from kinect 25cm, max is 3m)



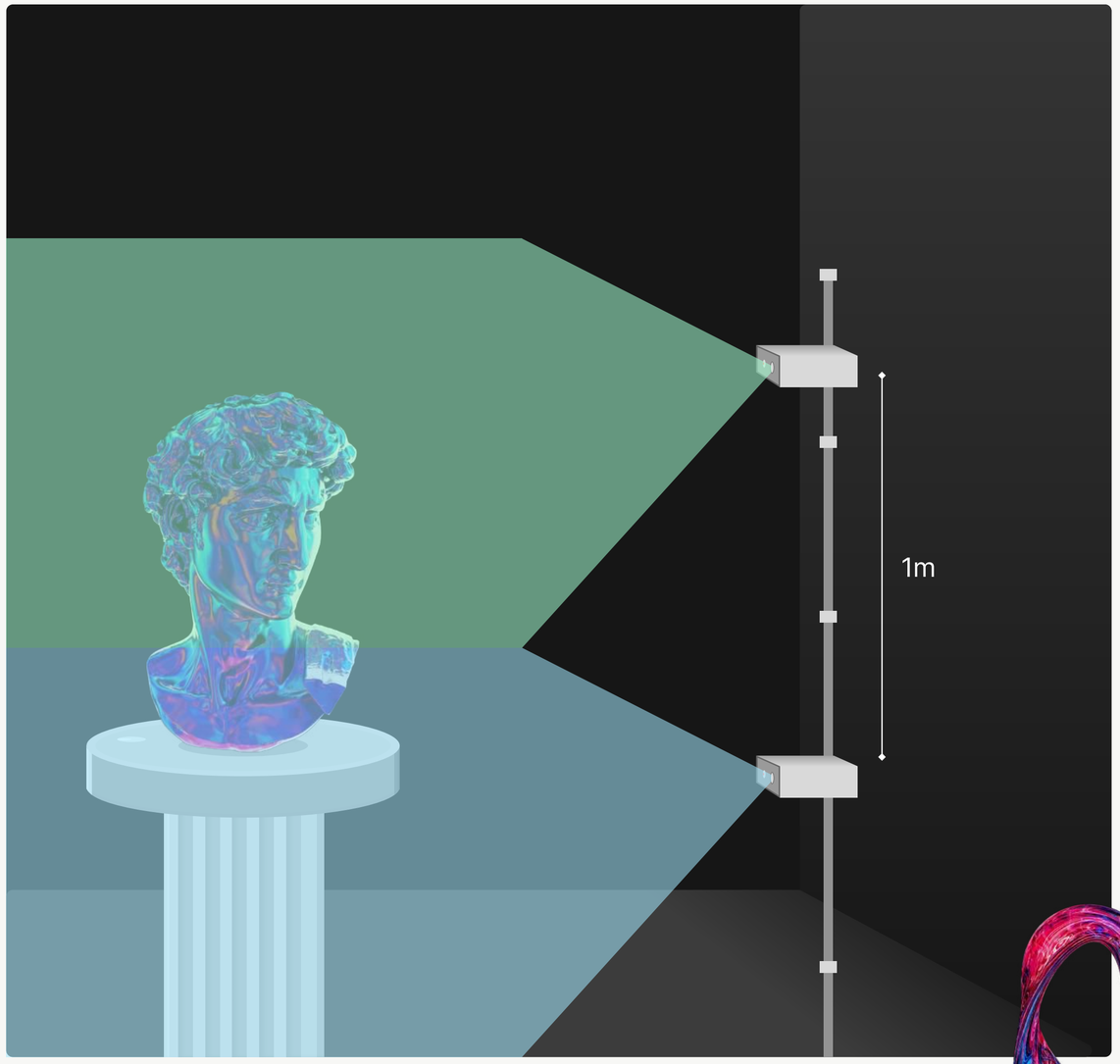
Our Geographical Guidelines

To capture volume in height there should be a “Kinect stacking”.
In this field if the desired elements that will be displayed are too tall to fit into a kinect’s height field of view, another kinect could be stacked on top of the first one with a 1m height spacing between the two and so a new level of height will be unlocked.

Legend

New stacked camera field of view

Old camera field of view



Our Geographical Guidelines

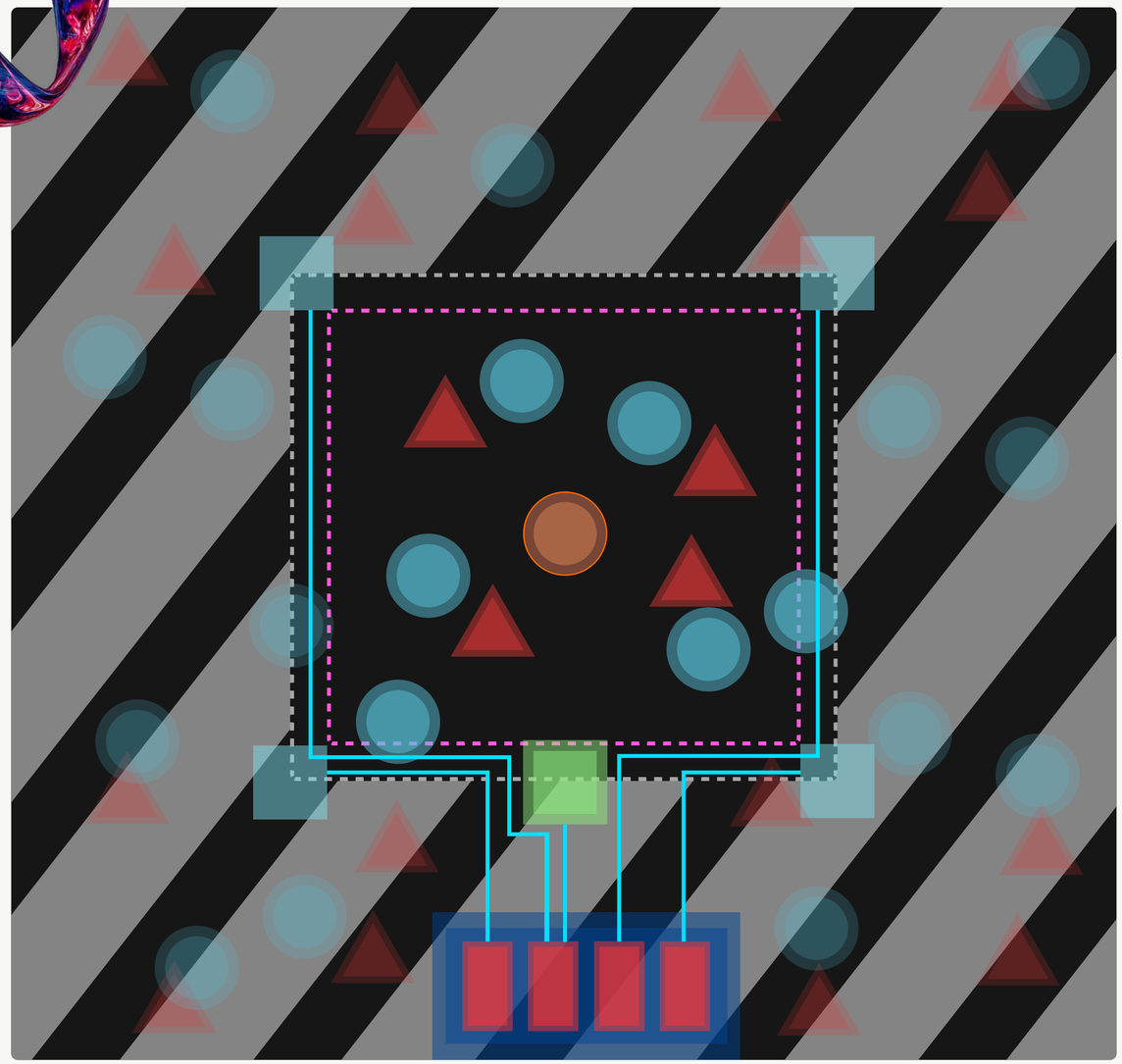
Near the recording location should be a station that will power the Kinect and 360 view camera. It is preferable to have for each camera a computer that power it for a better experience and final result/reduce over heating and technical issues.
In addition all the cameras should be wired with a power cable and a data cable to provide electricity and data transfare.

Legend

Computer

Data and power cables

Station



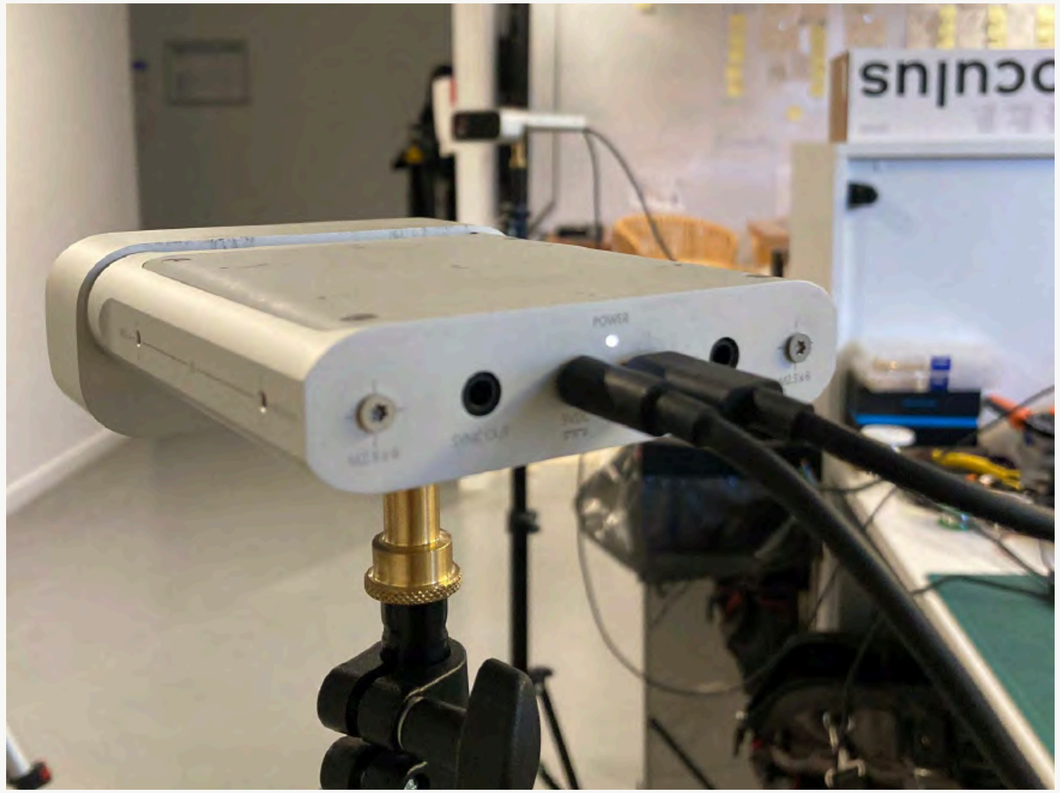
The Results

03

The material used on display.

This case show 3 Kinects directed towards the center to record passing individuals

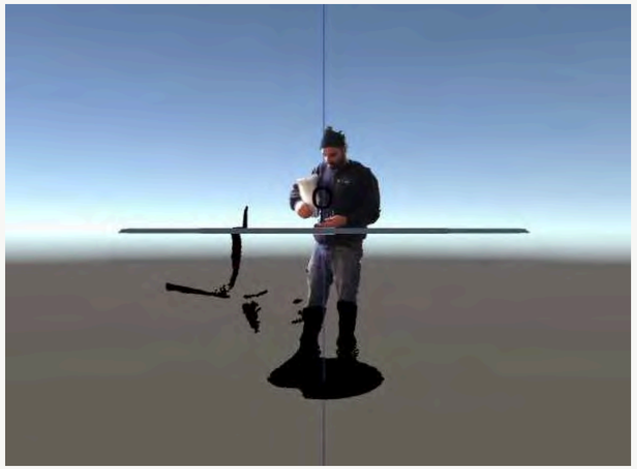
We can see the power cable and type-c data cable attached to the back of each camera going straight to separate computers.



One showcase of the multiple possibilities

A 360 live recorded environement

An individual recorded in a Volumetric capture environement



The end result: the integration of this person in the 360 view environement

Thank You

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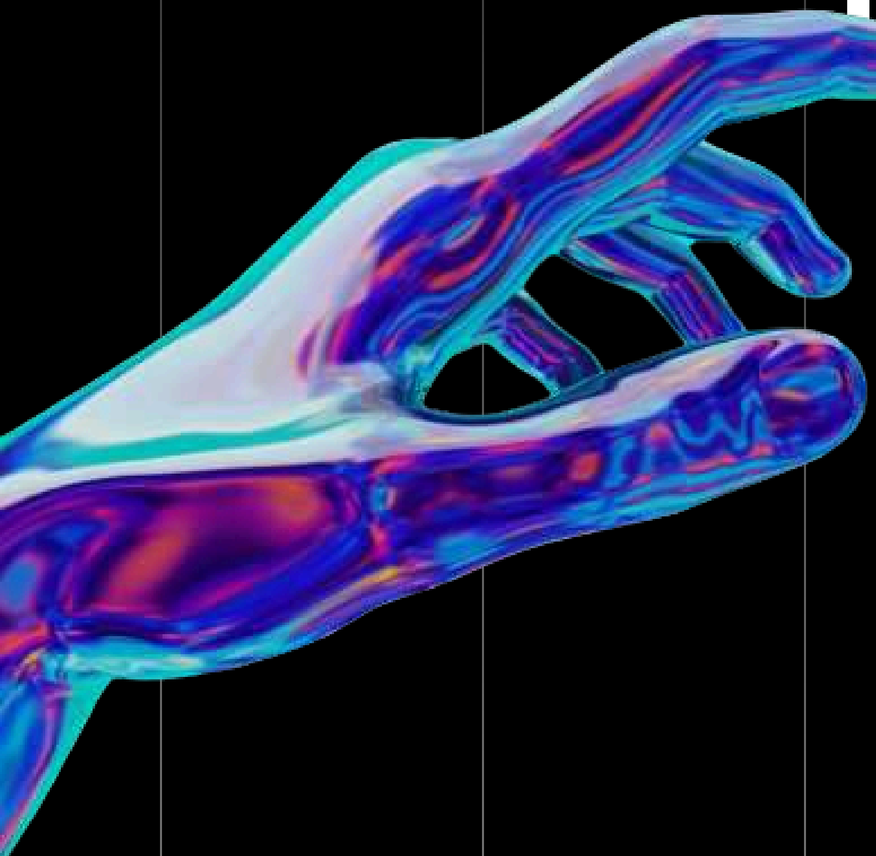

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