Mantis Vision

Volumetric communication

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Factsheet

Founded: in 2005 by Gur Arie Bittan (CEO), Eyal Gordon (CSO) & Amihai Loven

Headcount: 50 employees

Offices: HQ in Israel, USA, and China(JV).

Acquisitions in 2018: Alces Inc (USA) – BrainVu Ltd (Israel)

Funds raised: 90M$

IP: 46 granted patents and 30 pending applications, across 36 patent families

Key investors: 联美集团 LUEN MEI GROUP, FLEXTRONICS, SAMSUNG, QUALCOMM, O-film

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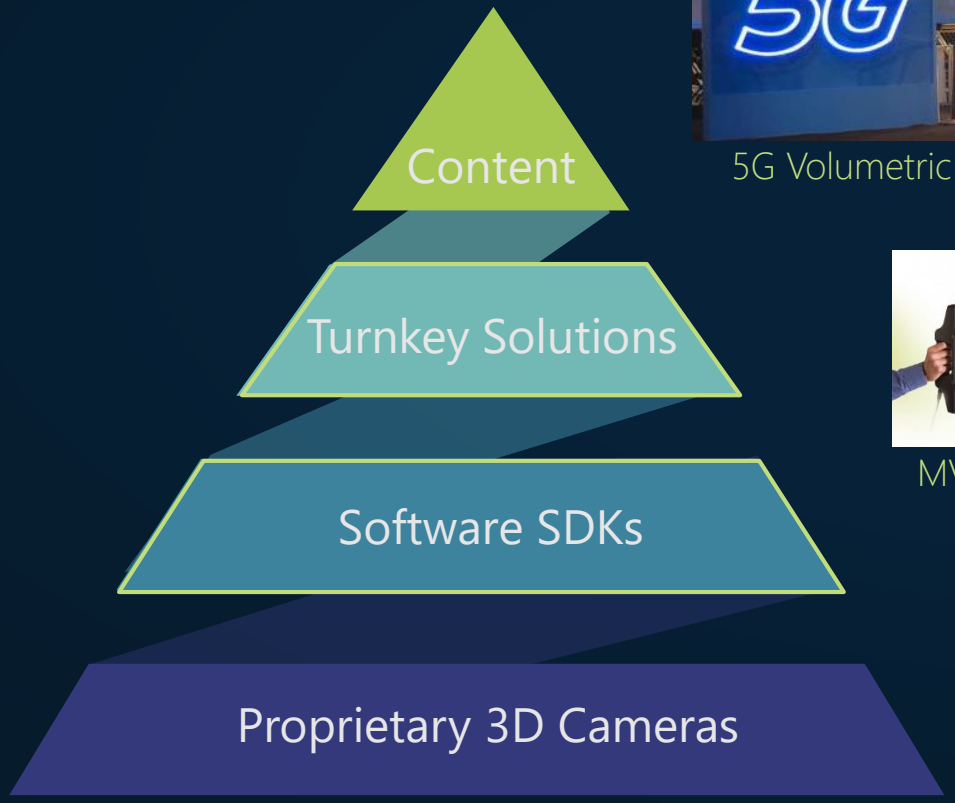
Bringing MV and 3rd party Turnkey products leveraging costume camera spec and Algo pipeline.



5G Volumetric Activation Ring (AT&T)

Body Capture Kiosk

MV Portable Volumetric Ring

3D Face Capture (Baidu)

MV F6 handheld

Honeywell AutoCube

Urovo
Auto measurement

Xiaomi 8 Explore
FaceID camera

Google Tango First 3D tablet

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Volumetric remote communication Background

- Remote collaboration and communication has been pushed and accelerate during that last few years, but has been a must with the global corona epidemic.

> Zoom's daily active users jumped from 10 million to over 200 million in 3 months
>
> REUTERS APRIL 2, 2020 7:43 AM

- Video Conferencing lacking the basic face to face experience and has no real eye to eye

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Leap beyond Video Conferencing

- Having a full 3D view of speakers and attendees.
- Allowing virtual meeting spaces with collaborative boards and presentation space
- Fully compatible with existing Video conferencing
- Targeted to a Minimum video rate ~5Mbps bandwidth, While allowing HQ experience with 5G
- Instant playback to WebAR\AR Phone\\VR\AR Glasses.

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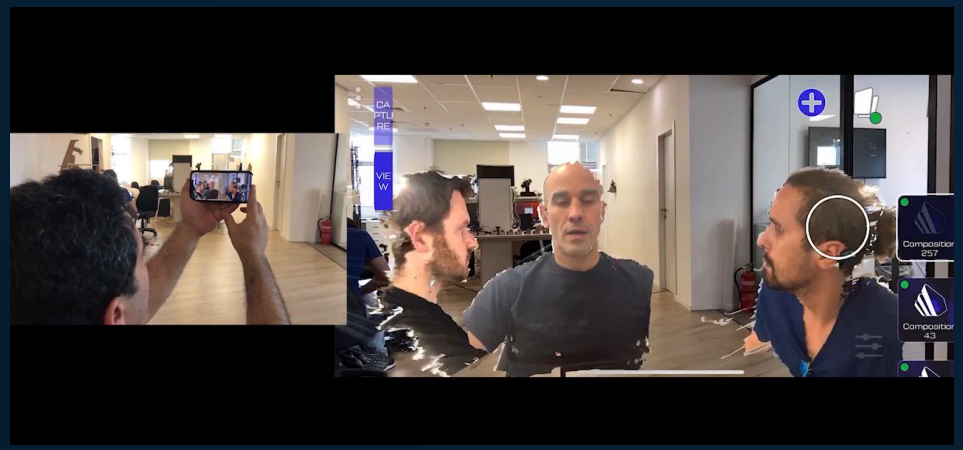
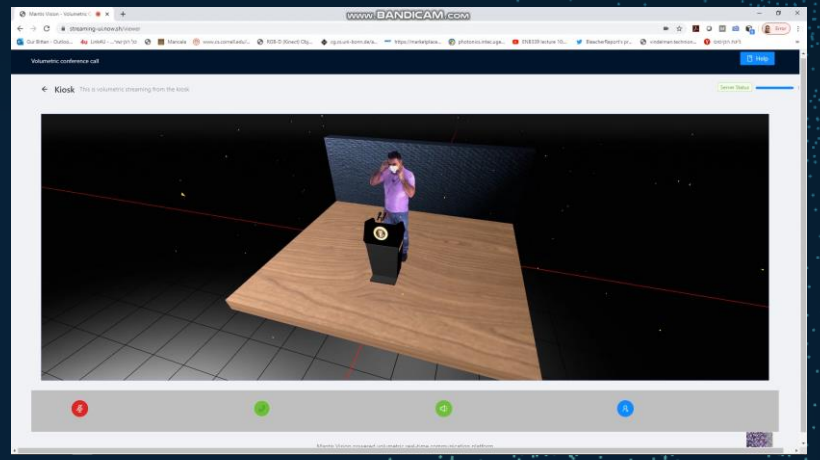
Next step from Video to Volumetric conferencing

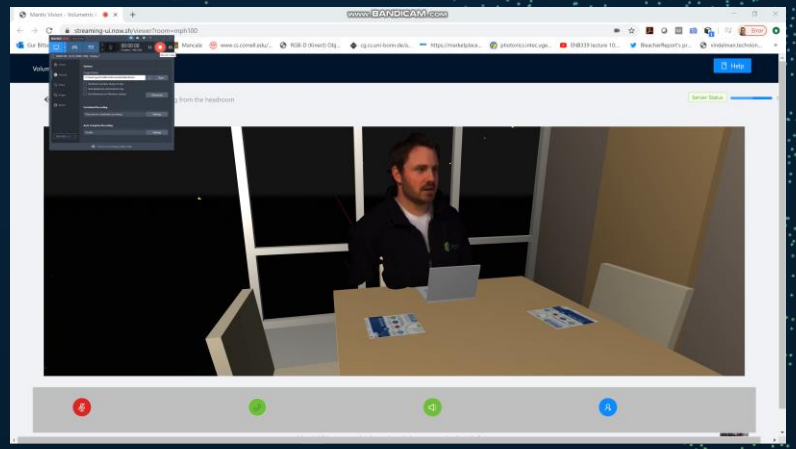
- Real time 3D (volumetric) enable real Eye to eye communication across group of peoples.
- Simulating perfectly a face to face interaction within a group.



3 mobile cameras RTC streaming to 4th.



Full body live volumetric to WebAR over <5Mbps



Front Torso (4Cams) live volumetric to WebAR <5Mbps

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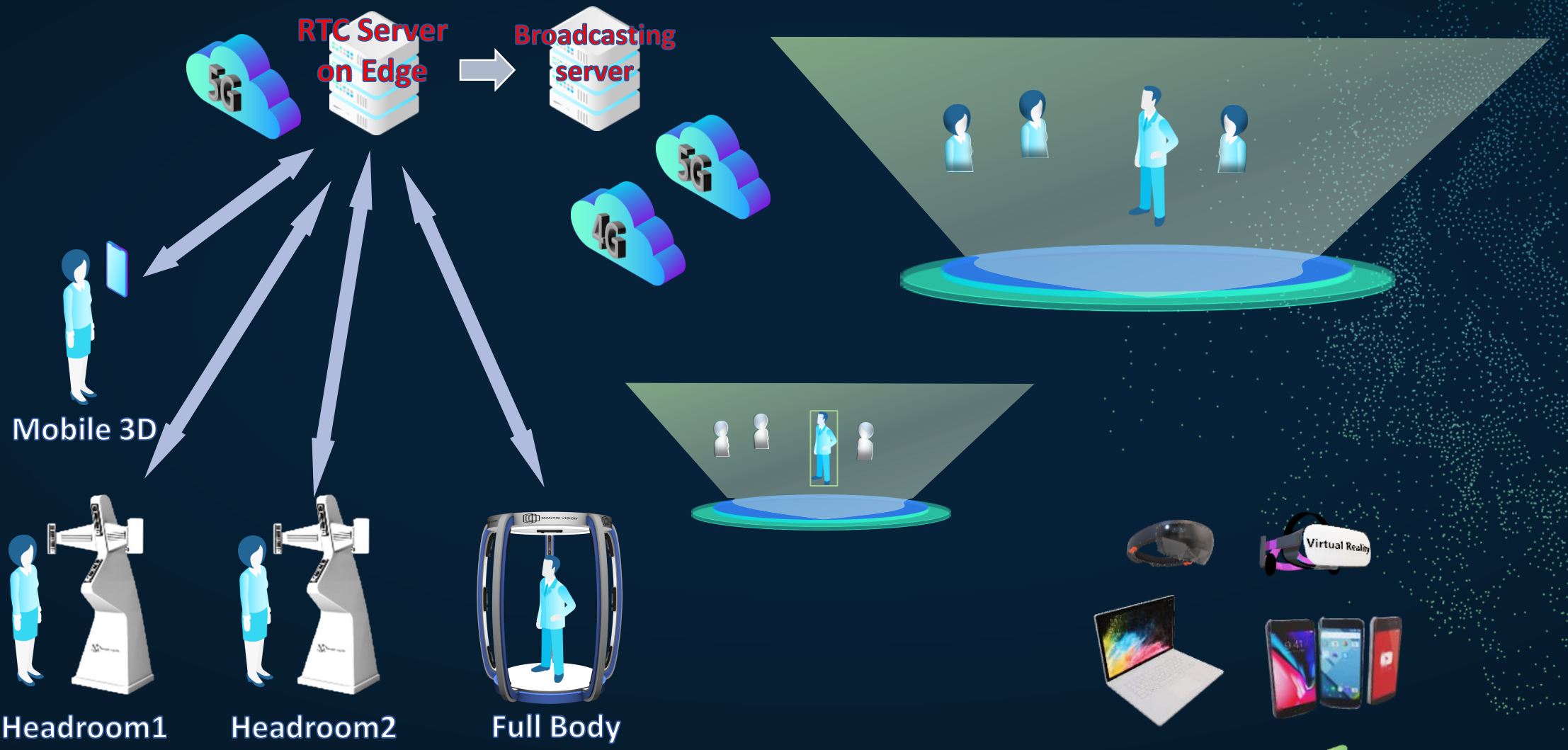
Real-Time Communications



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Higher bandwidth (20Mbps) = Higher quality

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Conventional Volumetric studios

- Need huge space
- Covered with greenscreen
- Requires days of setups.
- Requires 8-16 hours of processing for every minute…
- Or accelerated processing on expensive cloud service

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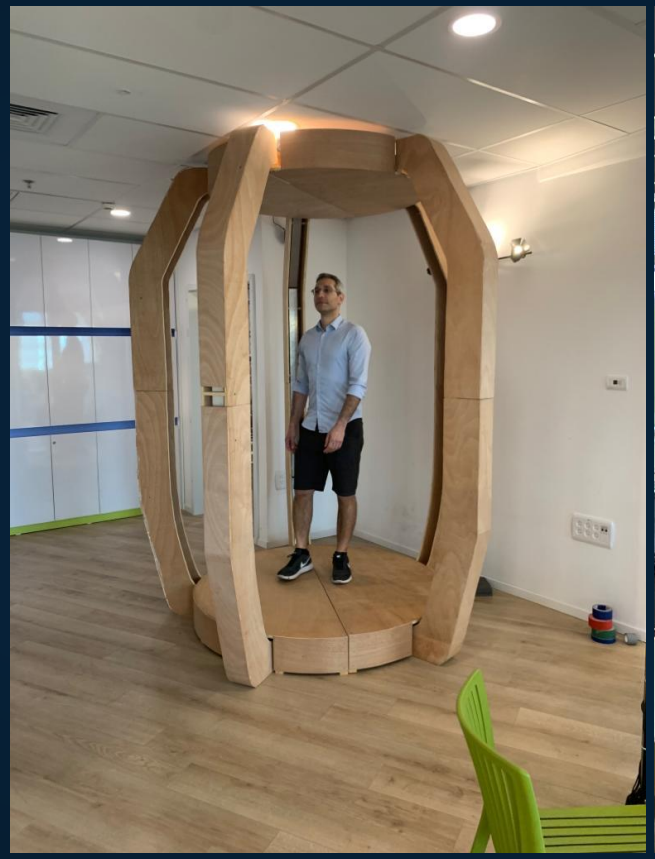
Mantis Volumetric studios\3iosk

Portable Studio



Kiosk

Headroom

- 20% of conventional space
- No greenscreen
- Portable option with 4 hours setup
- Support Real Time process as well as fast modes (1 minute\minute)
- No cloud processing requires.
- Enable live stream to AR\VR

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Key Experience Points

- The ultimate experience is with AR glasses.
- Headroom is all you need for front body Kingsman Conference
- Mobile 3D Phone could be adding lower quality experience from anywhere.
- Full body captures are perfect to allow product and training intro, as well as entertainment.

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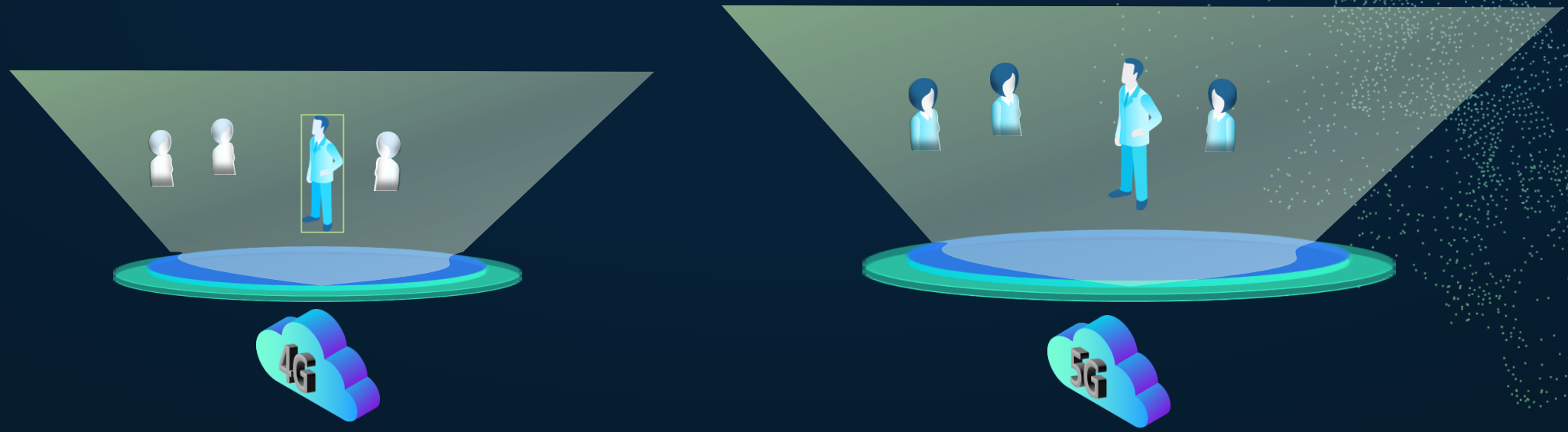
Optional Broadcast Feed to the Experience

- Additional Volumetric broadcasting stream of any RTC session can be used to reach a wide audience (Expert Panel, Summit Meetings…)
- 5G clients can enjoy to full scene experience with all attendees.
- 4G clients will experience only one speaker at a time from same session.



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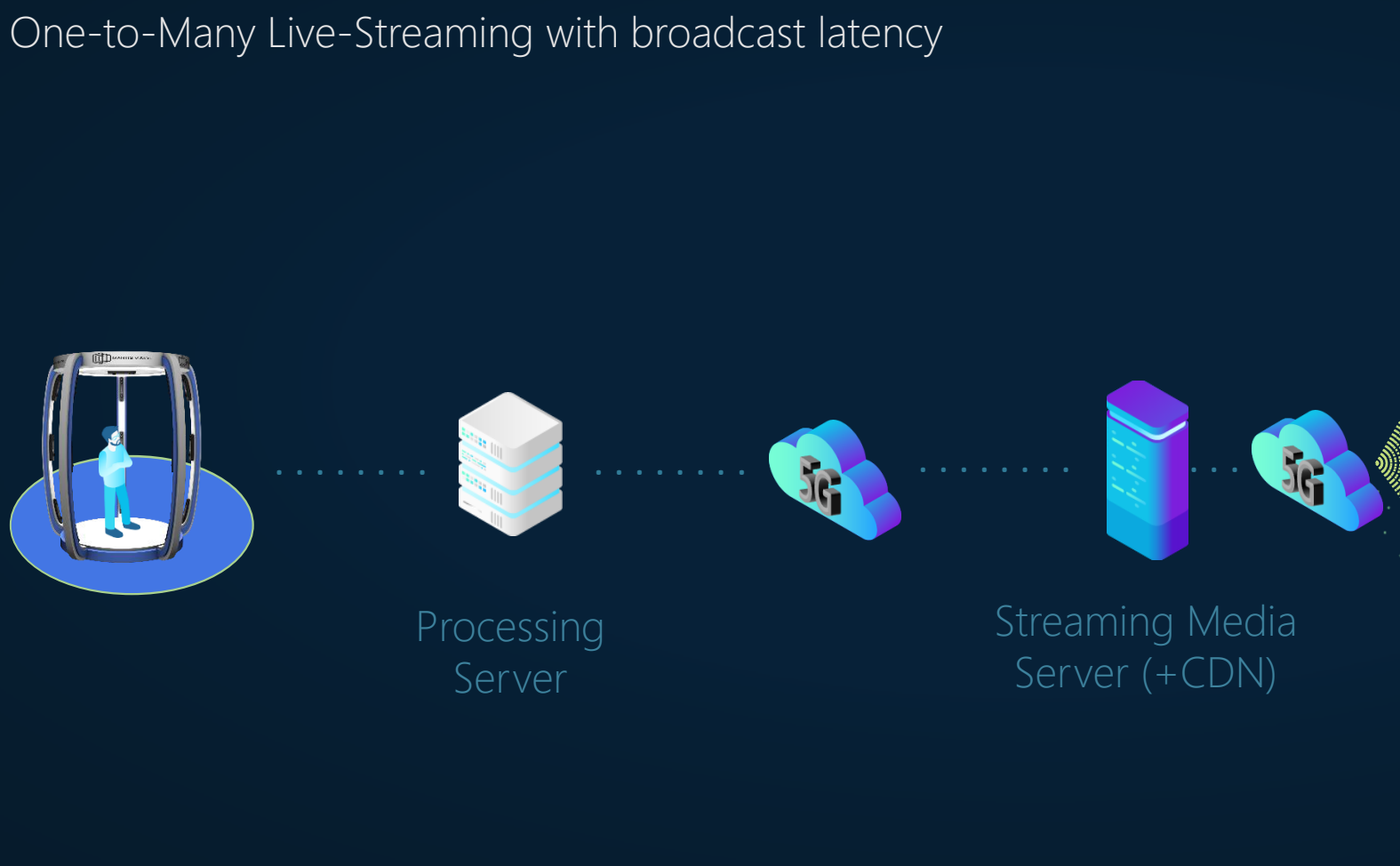
3iosks - Streaming with 5G

One-to-Many Live-Streaming with broadcast latency



Processing Server

Streaming Media Server (+CDN)

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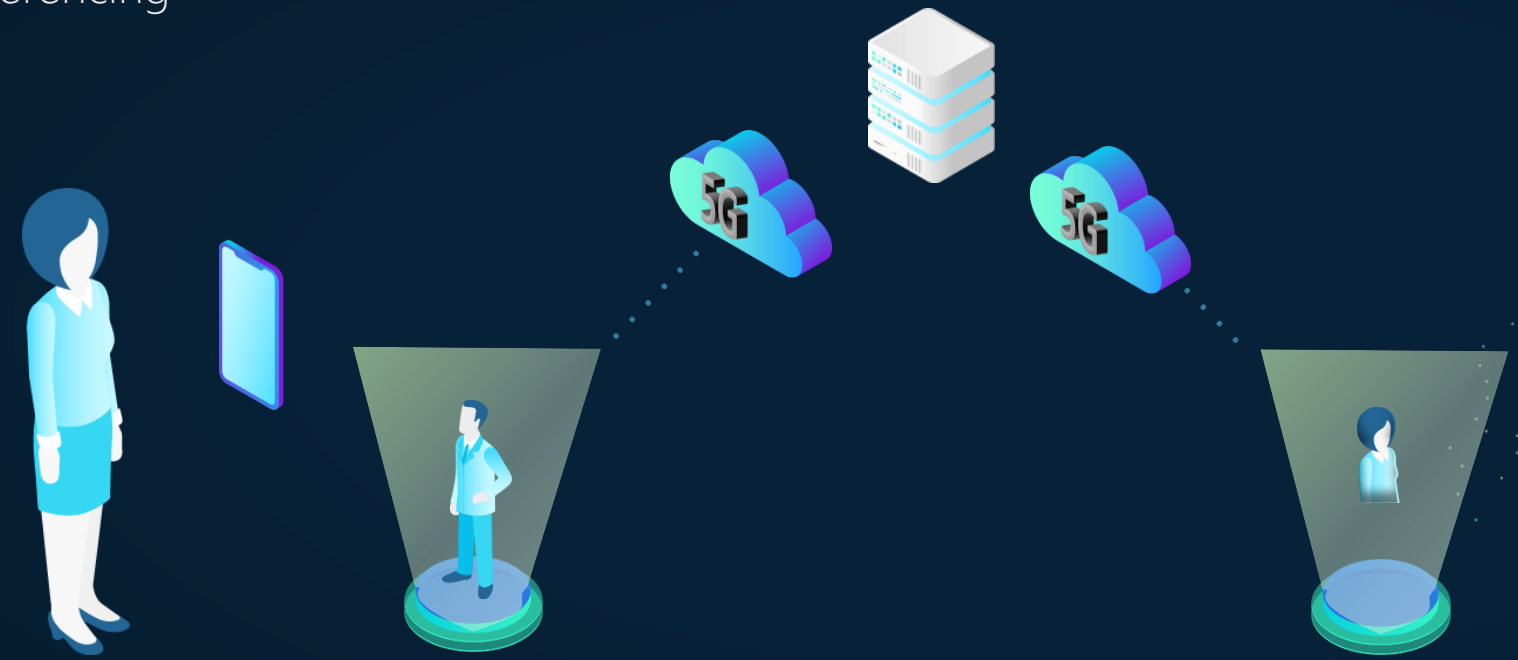
Real-Time Communications

Holographic communications to become the next form of conferencing



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Back up Slides

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Professional Handheld Scanners

Capture high resolution 3D depth data

- With the fastest workflow on the market
- In high resolution and accuracy
- In full color
- Static 3D modeling
- Publish and share VR\AR scenes

Echo Software with sophisticated measurement tool

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Professional Handheld Scanners

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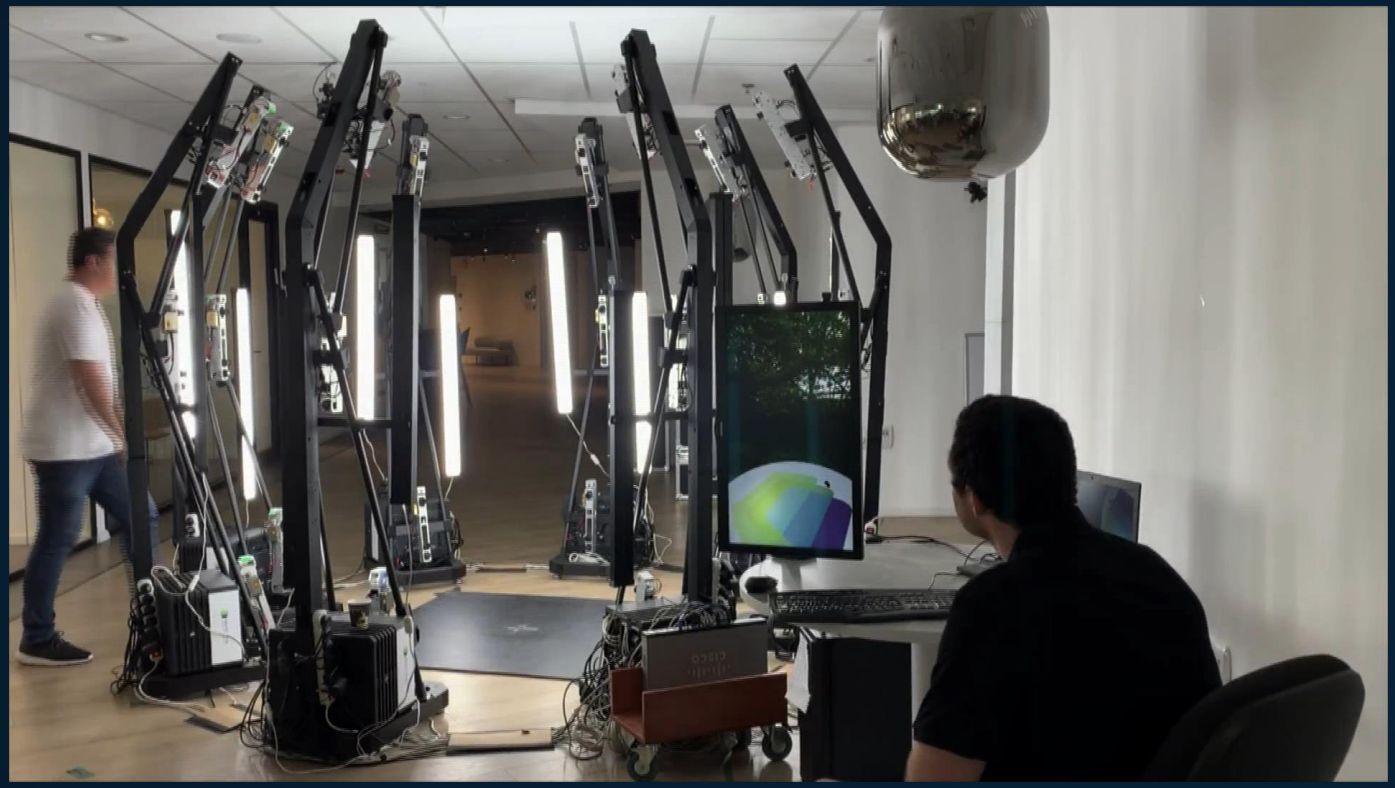
Mantis Portable Volumetric Studio



- 20% of conventional space
- No greenscreen
- Portable option with 2 hours setup
- Support Real Time process as well as fast modes (1 minute\minute)
- No cloud processing requires.

- Enable live stream to AR\VR
- By end of year – live streaming to AR over 4G/5G network (<20mbps)

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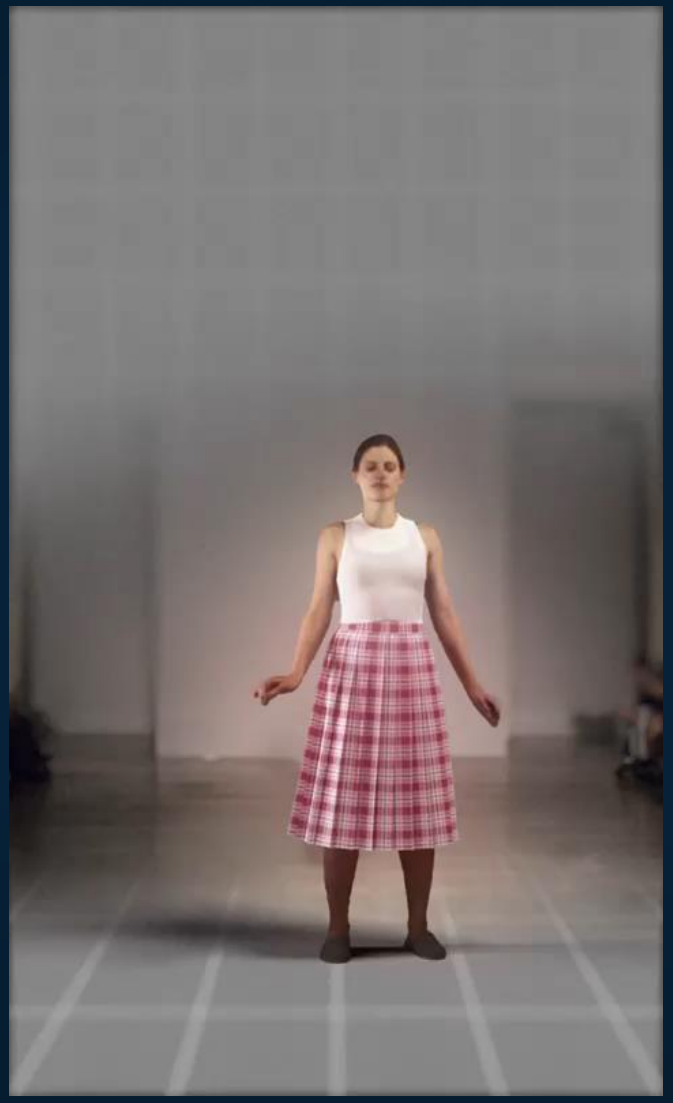
Virtual Try on



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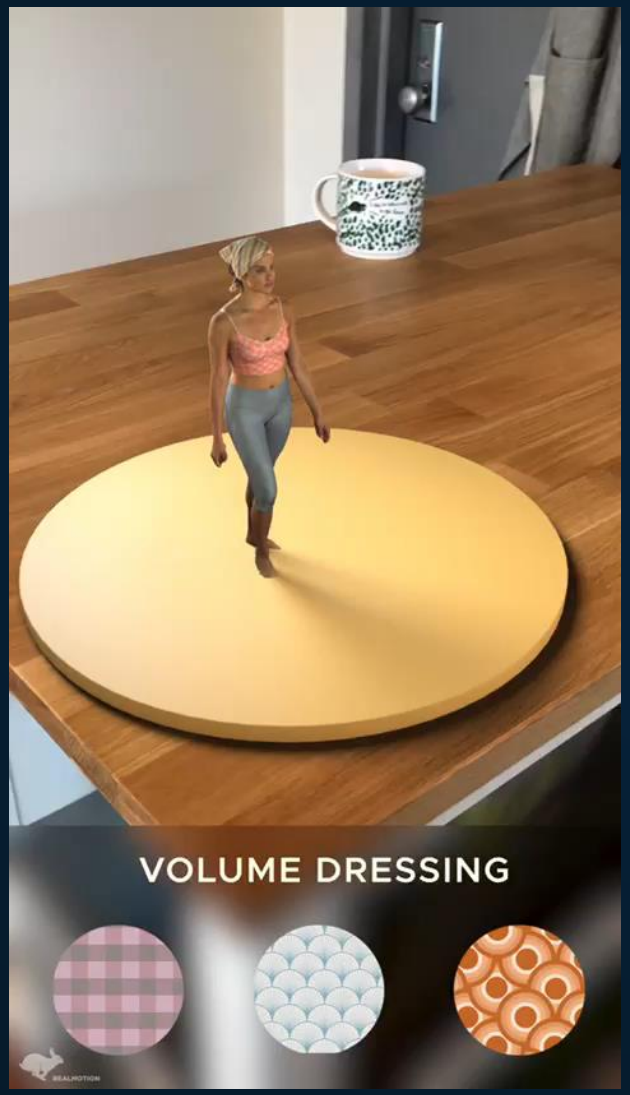
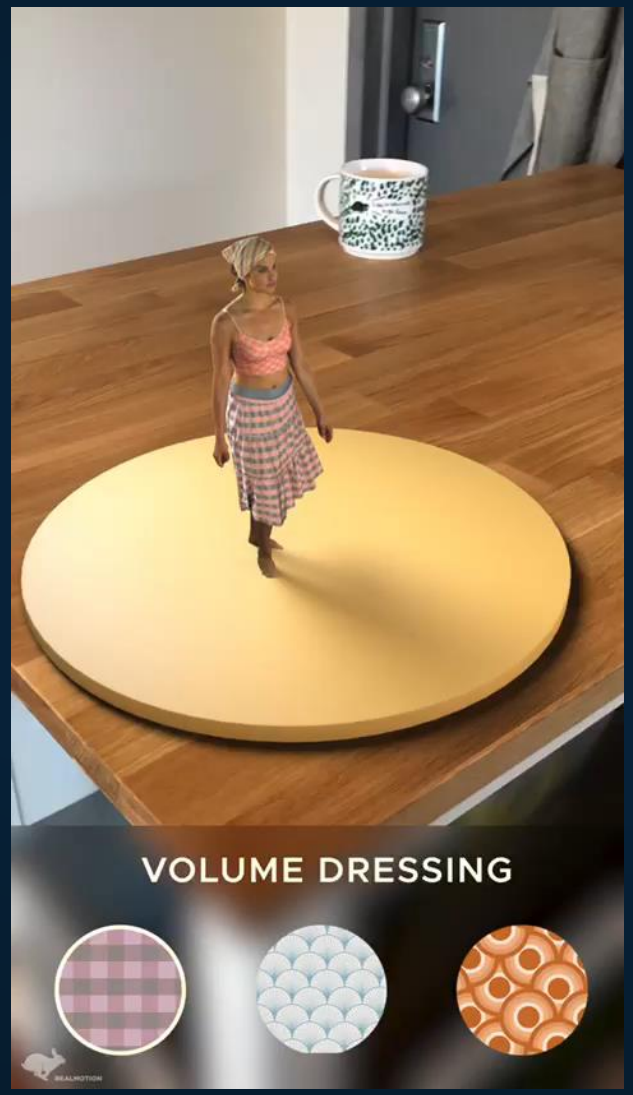
Complement offline-online experience





- Captured once while in store
- Receives Video\AR for new collections and offers.
- Able to shop anywhere with clear vision of the outfit

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Thank you

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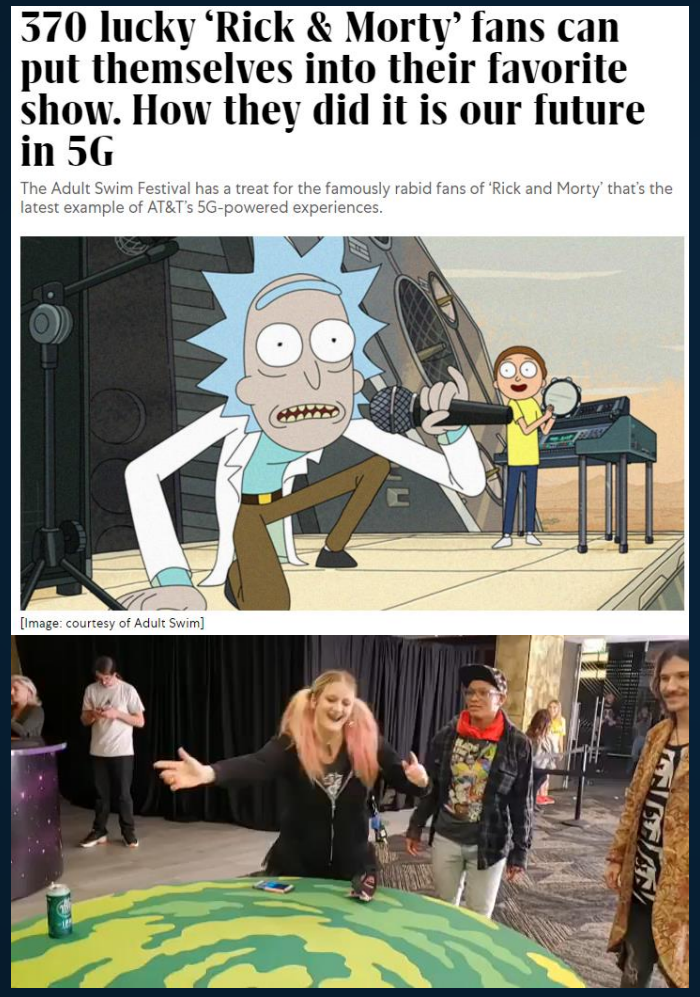
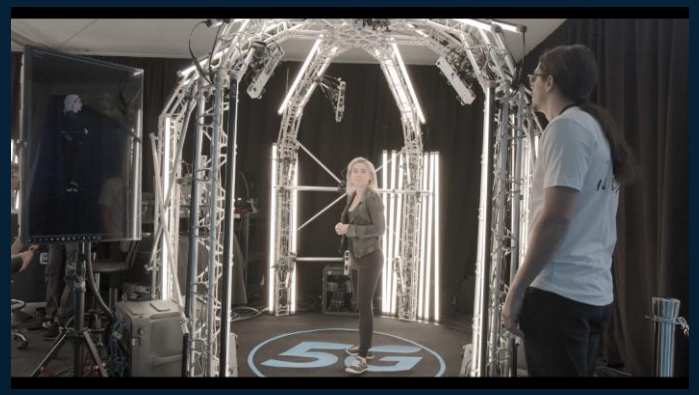
Mantis Volumetric content is getting into prime stage



LA Nov.15.19 -Rick & Morty Event, 900 Peoples instant holograms

LA Oct.22.19 NBA Season opening
Prime Time TV hologram interview



Activation event intro

LV Oct.18.19
Friends 25th, anniversary
1500 peoples instant capture Holograms

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