





International Broadcast Day 2019 Broadcast & Media on the move



DIGITAL STRATEGY

CROSS-MEDIA PRODUCTIONS

ARTIST & BRAND PARTNERSHIPS



CLIENT TASTER PORTFOLIO

ALL3MEDIA, AEG LIVE, ANGRY BIRDS/ROVIO, BBC ONE, BBC RADIO 1, BBH, BERLIN MUSIC MOST WANTED, CBBC, COMEDY CENTRAL, CONDE NAST, DUBLIN MUSIC X TECH SUMMIT, ISLAND RECORDS, IBC, ITV, JAMIE OLIVER, JAMIROOUAI LTD, LIVE NATION, MARVEL, MTV, MUTE RECORDS, MICROSOFT REACTOR (LDN), NICKELODEON UK, OBJECTIVE MEDIA GROUP, O2 MUSIC, PRINCE'S TRUST, ROYAL HOLLOWAY LONDON UNIVERSITY, SAMSUNG, SKY, SKYPE, SONY MUSIC, SYCO, TRUST, ROYAL HOLLOWAY LONDON UNIVERSITY, SAMSUNG, SKY, SKYPE, SONY MUSIC, SYCO, STARCOM/MEDIAVEST, SWATCH, UNIVERSAL MUSIC, VIRGIN/EMI, THE VOICE UK, VOGUE, WARNER STARCOM/MEDIAVEST, SWATCH, UNIVERSAL MUSIC, WALL TO WALL, WARNER BROS TELEVISION & MORE...



@muklapproved

TELEVISION

ROYAL









International **Broadcasting** Convention



Innovate UK

Knowledge Transfer Network



THE 4th INDUSTRIAL REVOLUTION:

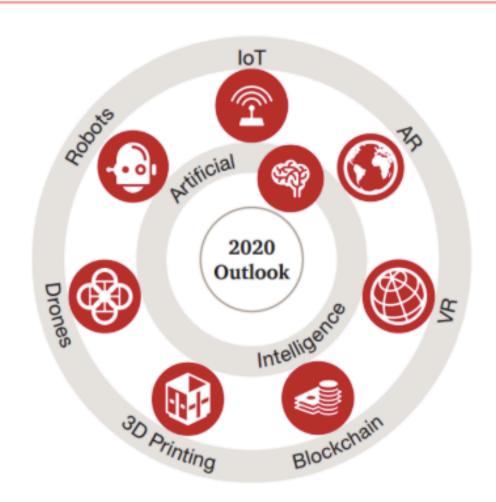
THE RE-BIRTH of the IMMERSIVE FORMAT

THE WINKY DINK!

1950's US of Hey
the world's 1st
immersive, interactive
'magic window' /
experience?



The "essential eight" emerging technologies



The Cheat Sheet

VR= Virtual Reality

AR = Augmented Reality

AudioAR = 3DSpatial Audio

MR= Mixed Reality

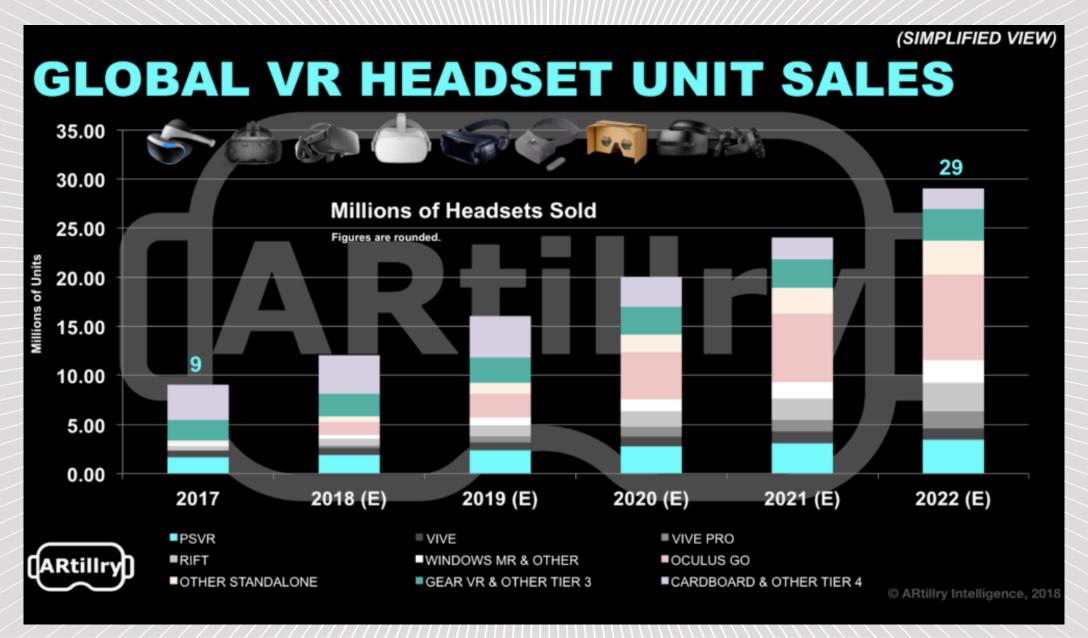
XR= Extended Reality

EE= Enhanced Experiences

AI= Artificial Intelligence

VA= Voice Activation

LBE= Location Based Entertainment



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Where:

MOBILE APPS **TABLET HEADSET** DESKTOP GAMING/esports ANYWHERE (LBE!)

Who:

NEWS/JOURNALISM MEDICINE, SCIENCE & NATURE **CHARITY EDUCATION** TRAVEL **MILITARY SPORT** MUSIC FILM & TELEVISION **FASHION BRANDS & EVENTS**

New adventures in storytelling across media, platforms & industries

GAMEPLAY – IMMERSION - INTERACTIVITY
EMOTION - INTIMACY - EMPATHY
ENGAGE - RECONNECT- ENTERTAIN
INSPIRE – EXPERIMENT

#ThrowbackThursday The Virtual Voice

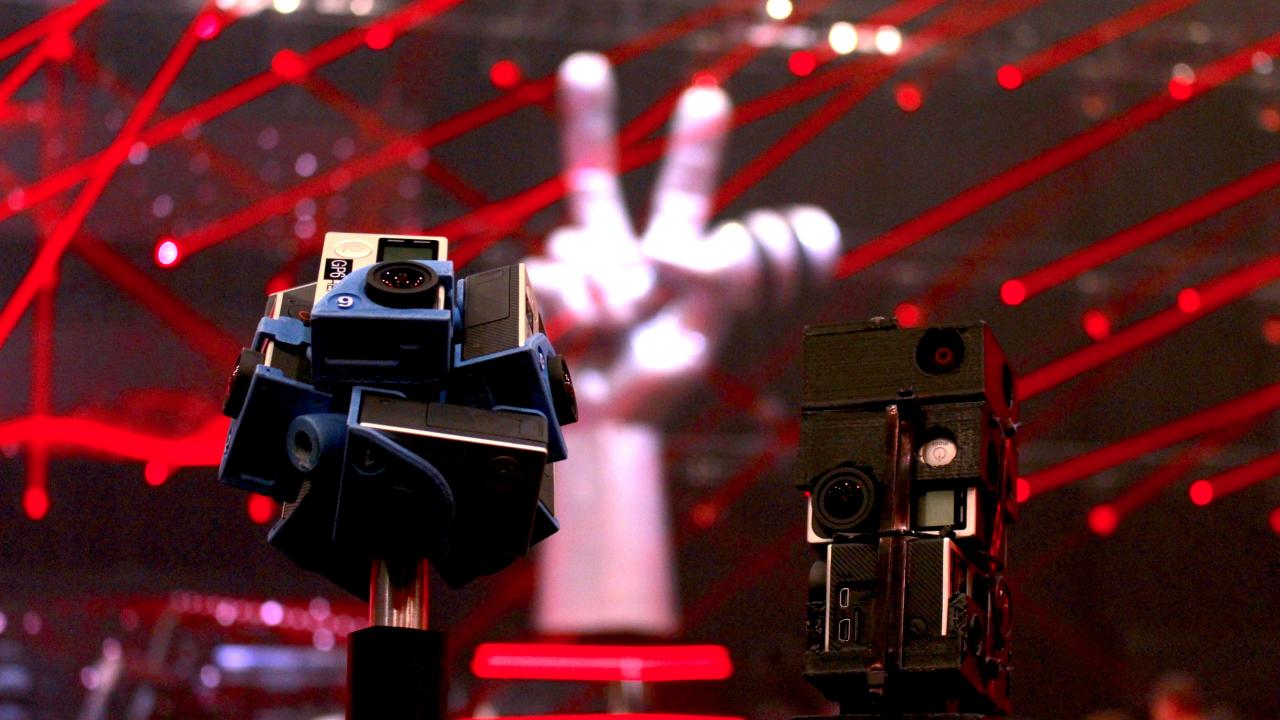














The fan's voice of VR...

- People loved/wanted more of Ricky & will.i.am
 - The demographic: mainly 16-24 male
- Pilot accessed mostly via their mobiles & The Voice App
- "Some confusion at first, but most fans got it & enjoyed it"

@MukiApproved Will.i.Wonder



5 February at 22:07 · ⊘

Check out this Virtual Audition for #TheVoiceUK! Brought to you by BBC Taster

http://www.bbc.co.uk/taster/projects/virtual-voice-audition





Comment Comment

Share

Gadget Man, Araz Muradyan, Patrick Alexandre Morella and 1,864 others like this.

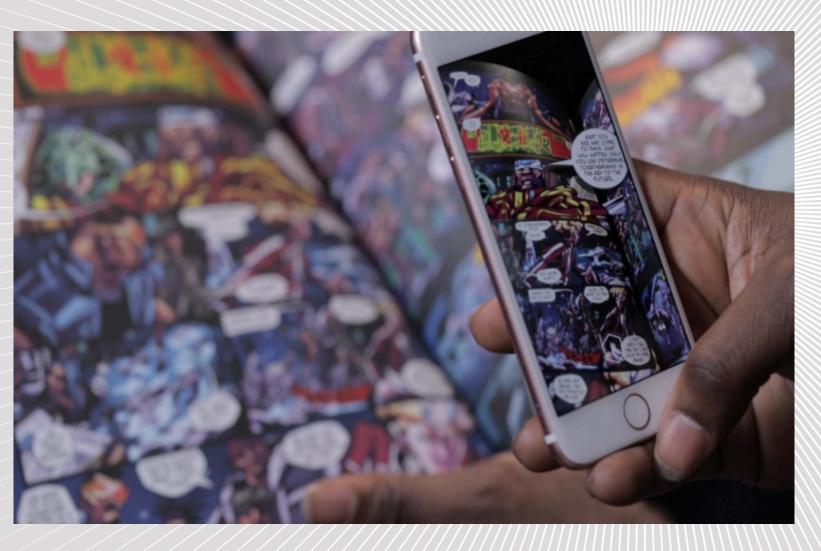
Top Comments -





Black Eyed Peas & Marvel Comics – all platform, enhanced experience

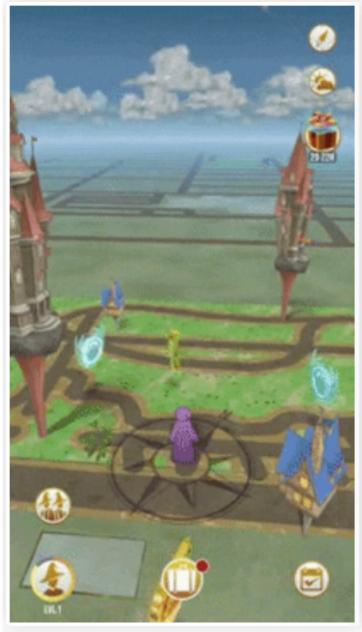
114-page afro-futurist graphic novel via Marvel Comics, with app/ AR experience, V/O from rap legends like KRS-One, Rakim, Queen Latifah, Common and Stan Lee (RIP)

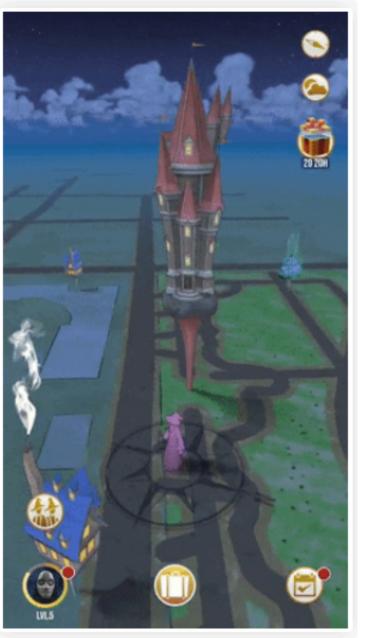




NIANTIC's "Harry Potter: Wizards Unite" 2019

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Images by Tommy Palladino/Next Reality

- \$100 Million Projection by mobile research group App Annie of how much "Wizards Unite" would make in its first 30 days
- **400,000** first-day installs in the U.S. and U.K. for "Wizards Unite", an estimated \$300,000 in revenue, yet only about 5 percent of the installs that "Pokémon Go" had, and 15 percent of the revenue
- 7.5 million day one installs for "Pokémon Go", grossing \$2 million
- #104 The debut place that Wizards Unite earned in the top grossing app charts ("Pokémon Go" debuted at #1)
- 15 -hours it took "Wizards Unite" to reach No.1 position on the iOS App Store in the U.S.

Experiences to live for? - Magic Leap & Game of Thrones 2019



Cinematic VR &

Immersive Journalism

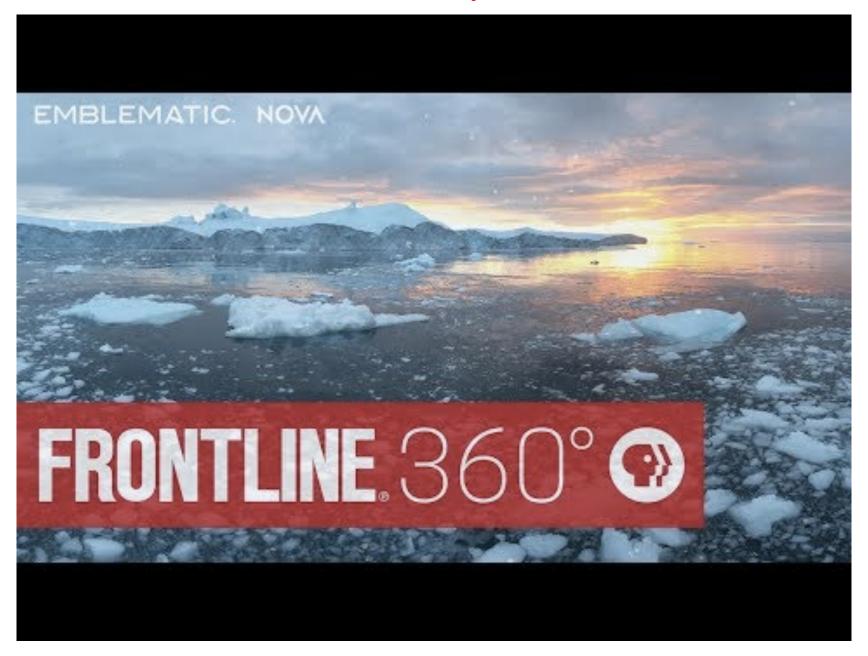
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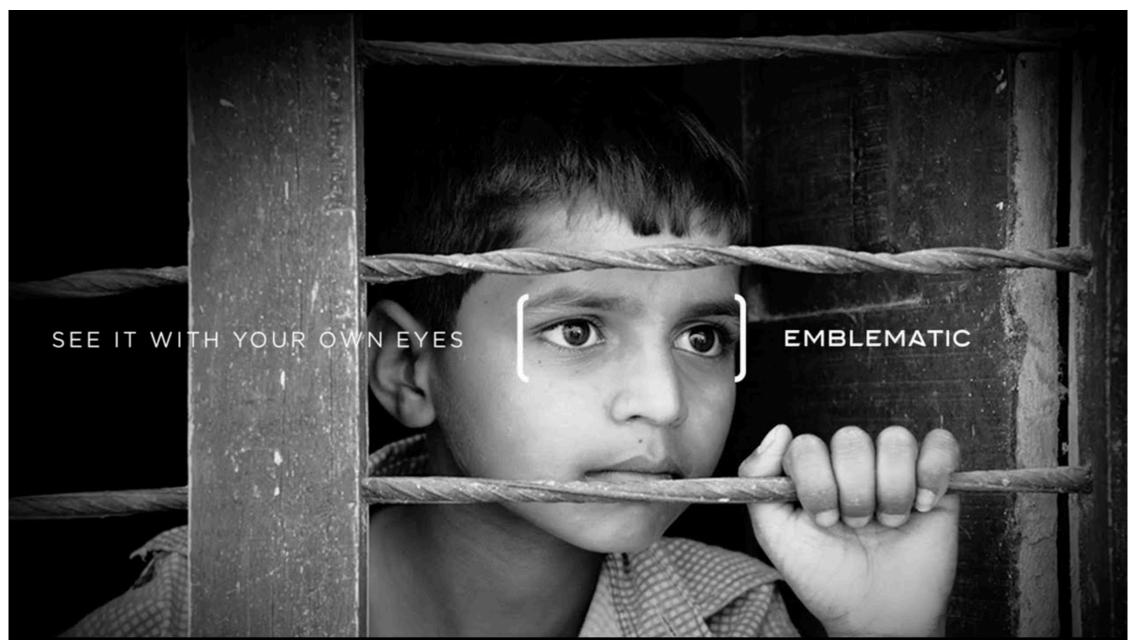
Director Jon Favreau shot the remake of the animated classic inside virtual reality. He doesn't know what to call the result, but it looks like a real movie.

DISNEY'S NEW LION KING IS THE VR-FUELED FUTURE OF CINEMA

360VR Immersive Journalism: Emblematic Group, USA



Global perspectives, up close & personal



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SUNDANCE FILM FESTIVAL 2019

JAN 24 - FEB 3





Whistling Woods International Film School- Mumbai, India



VR production: Research via Whistling Woods Intl, Mumbai, India

VR Content Structure – Question to be solved...

	Film / Theatrical	TV	Digital	VR/AR
Platform Viewing Details	Fixed frame, large screen, 2D & 3D, Captive Community viewing	Fixed frame, small screen, 2D, Non-captive Family viewing	Fixed frame, mini screen, 2D, Non-captive Individual viewing	No fixed frame (FRAMELESS), 2D & 3D, Captive Individual viewing
Duration & Structure	110-180 mins 60-100 scenes 1-8 shots / scene	22-44 mins 8-10 scenes 1-20 shots / scene	3-60 mins 2-20 scenes 1-4 shots / scene	??? (60secs - 60mins) (15 mins — health advisory for mobile-based VR)
Fiction Content Structure	Primarily stand-alone, marginally serial	Primarily serial, marginally stand-alone	Equal amount of stand- alone & serial content	??? (expected to be similar to Digital)
USP	Larger Than Life, Audio-visual narrative spectacle	Appointment Viewing, Story & Character development	Individuality, High concept, writing- focused, pace is critical	??? (Immersive & interactive is all we know currently)

"360 Degrees of Immersive"... one day!



HOME M

MEMBERSHIP

CHAPTERS

COMMITTEES

RESOURCES

EVENTS

NEWS

MAY 20, 2019

The VR/AR Association Publishes the Universities and Colleges Report with over 40 Institutions that offer Virtual Reality and Augmented Reality

Courses and Programs

KRIS KOLO · COMMITTEES, UNIVERSITIES COLLEGES

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VolCap, Haptics & Holos (oh my!)

Technology

Arri & Volucap: global leaders in cutting edge production!

Worldwide Volumetric Capture Stages



4DViews	4DViews	
Creative Media Industries Instititue	4DViews	
Crescent	4DViews	
anonymous stage, Budapest	4DViews	
8i Los Angeles	8	
8i Wellington	81	
Softbank Tokyo	81	
anonymous stage, Seoul	81	
Verizon 5G Lab	Evercoast	
Verizon Media Studio	Evercoast	
HoloCap	HoloCap	
Intel Studios	Intel	
Jaunt Chicago	Jaunt	
Jaunt China	Jaunt	
Jaunt San Mateo	Jaunt	
Digital Nation Entertainment	Mantis Vision	
Mantis Vision	Mantis Vision	
Dimension	Microsoft	
Metastage	Microsoft	
Microsoft Mixed Reality Capture SF	Microsoft	
Microsoft Mixed Reality Capture SE	Microsoft	
Omnivor	Omnivor	
Samsung VR Dallas	Samsung	
Samsung VR Mountain View	Samsung	
Sony Innovation Studios	Sony	
Storyfile	Storyfile	
Volograms	Volograms	
Volucap	Volucap	
anonymous stage, Atlanta	Volumation	
anonymous stage, Dallas	Volumation	
anonymous stage, Los Angeles	Volumation	
Underminer Studios	Volumation	

Studio'



Prepared using publicly available information and data provided by capture stages Does not include portable solutions such as Depthkit, Scandy, and Volumetric Camera Systems

Looking Glass Factory: 3D Holographic, Volumetric & Lightfield tech – (look mom, no headset!)



2018

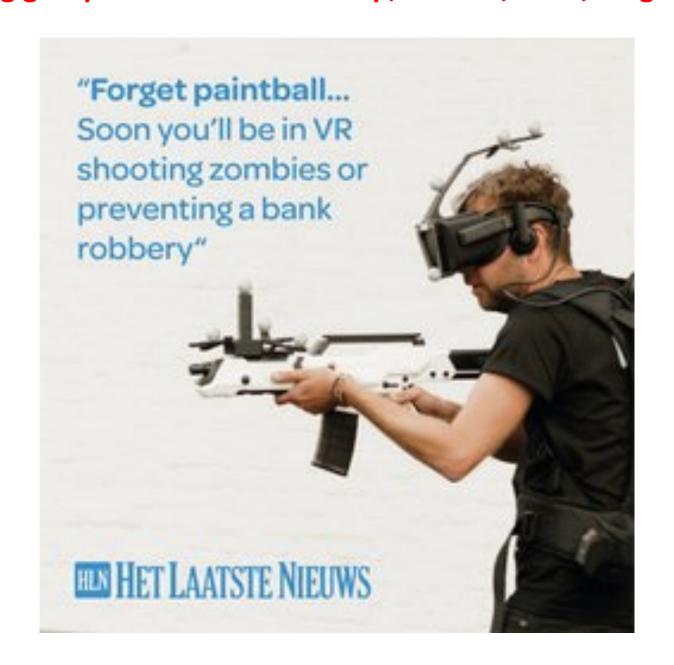
Looking Glass Factory launches the Looking Glass to 3D creators worldwide.

Looking Glass Factory puts the first holographic display on the desks of 3D creators everywhere thanks to the Looking Glass' patent-pending combination of volumetric and lightfield technologies.

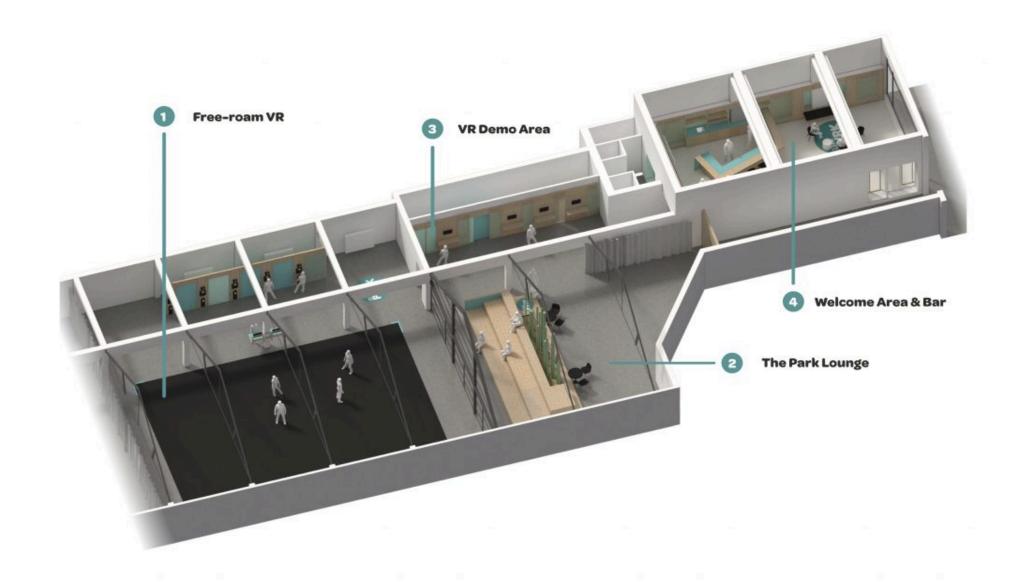
PRE-ORDER ON KICKSTARTER

LBE

The Park: Free-roaming group adventures- Antwerp, Hasselt, Gent, Belgium @MukiApproved



The Park: Free-roaming group adventures- Antwerp, Hasselt, Gent, Belgium @MukiApproved



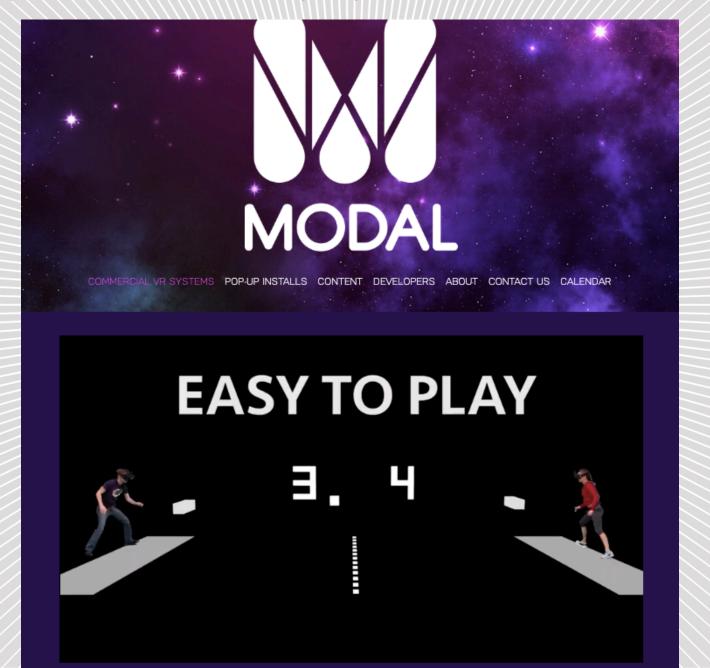




The Edge - Be Brave

VR Experience

An immersive virtual reality experience, entirely developed at Uqido. Some characteristics make it unique and particularly engaging: the senses of sight, hearing, touch, and smell are all involved, and participants are free to move within the play area without any constraint because they are free from cables or similar objects. The narration asks participants to challenge their fears and face their limits, in a crescendo of emotions that make the experience unforgettable.



Zero Wires. 100% Fun. VR for All.



Total Wireless VR Freedom Incredible untethered multiplayer fun.



Instant Turn-Key Operation
Plug in and add new revenue.



Outstanding Throughput
Unprecedented hourly ticket inventory.



Games Made for Business
Strong replay factor and social fun for all.



Fast ROI Including fantastic revenue per sq. ft.



Small to HUGE Play Areas
Deploy in 100 sq. ft. or up to 900,000 sq. ft.



Easy Operation by Anyone Attendent training in just minutes.



Ridiculously Portable
Looks permanent, fully mobile.

VIRTUAL IMMERSIVE ROOMS

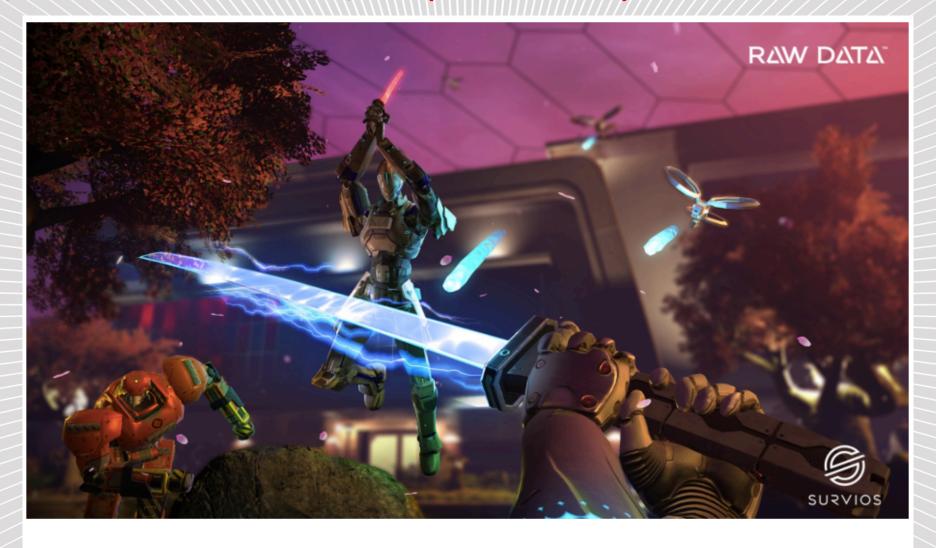
The next breakthrough in VR

The commercial virtual reality systems that currently exist in the market have limitations in terms of space and number of users.

The existing advanced systems that generate environments without these limitations are complex and require considerable investment.







Immotion Agree Three-Year Deal with MGM-Backed VR Studio

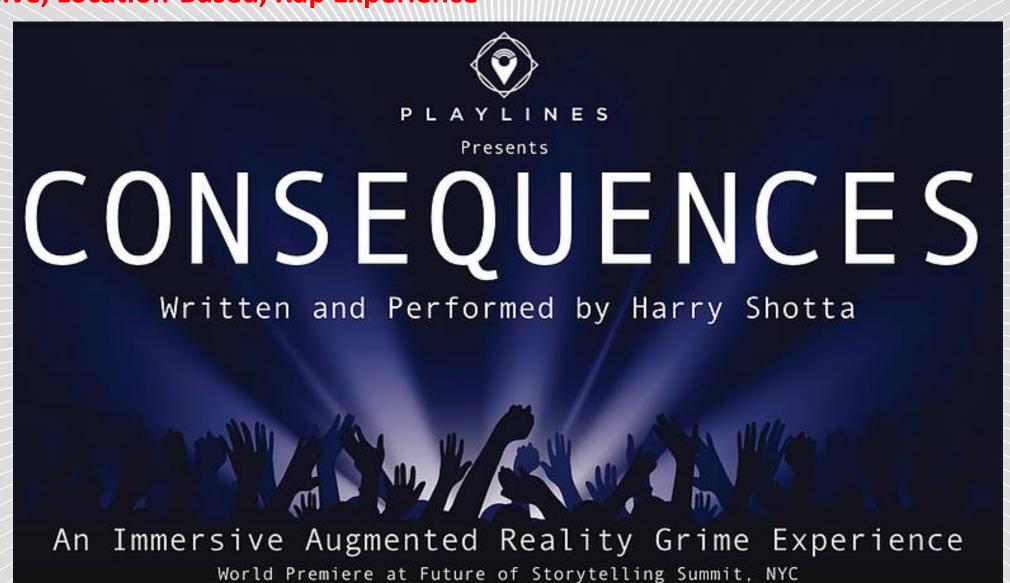
Agency Six 14TH JUNE 2019





Audio-AR & Spatial Audio

Immersive, Location-Based, Rap Experience



Snug Harbor, Oct 3-4 2018. Find out more at playlines.net

Playlines AR Studios & MC Harry Shotta present: 'Consequences'

CONSEQUENCES AR

- Immersive hip-hop opera
- Choose-your-ownadventure concept album
- Users become a character in the album & decide the ending



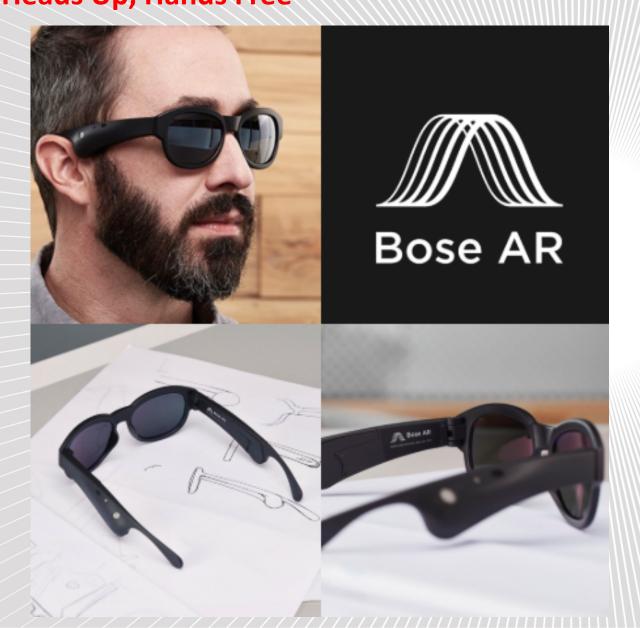


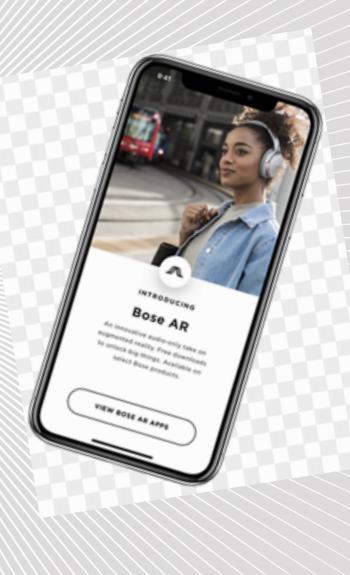
Tech Partnership





BoseAR & 3D SPATIAL AUDIO: immersive, interactive audio glasses "Heads Up, Hands Free"





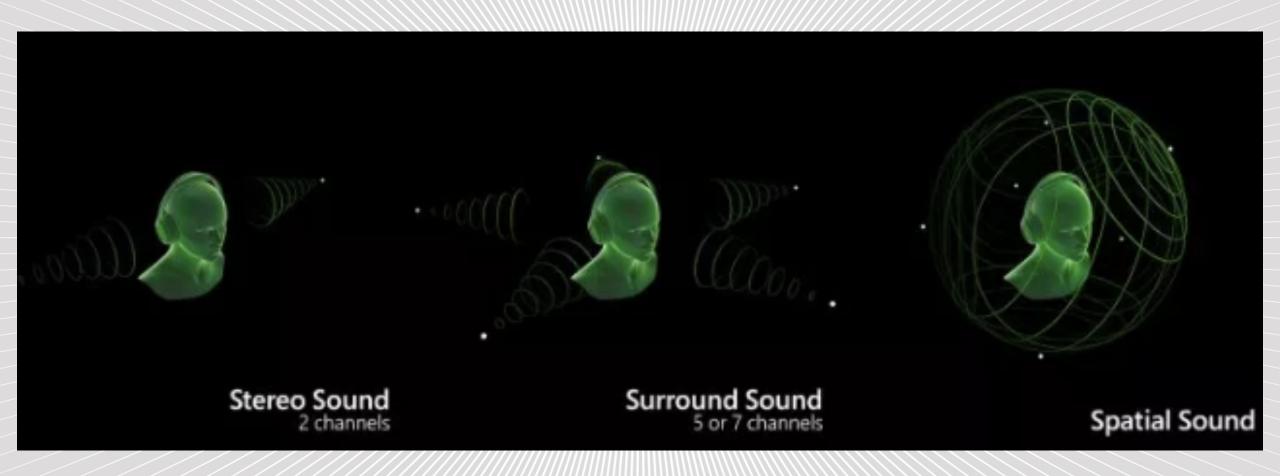
Tech: Spatial Audio

Through our developer partnership with Bose AR, we help develop cutting-edge Spatial Audio experiences for the next generation of context-sensitive wearables.



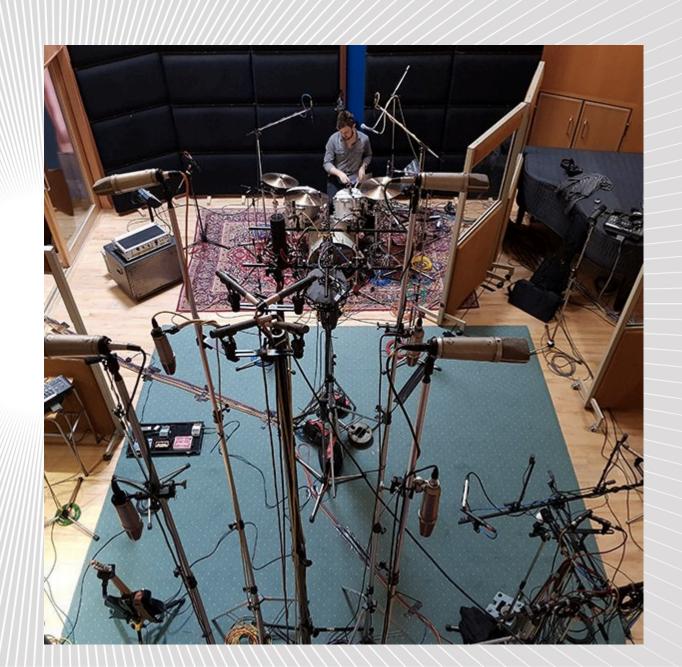
Tech: iBeacons

We use iBeacons to locate users and create context-sensitive adventures within festivals or venues. Players might explore by following ghostly whispers from a venue's past, or by discovering and carrying 'iBeacon props' imbued with personality.

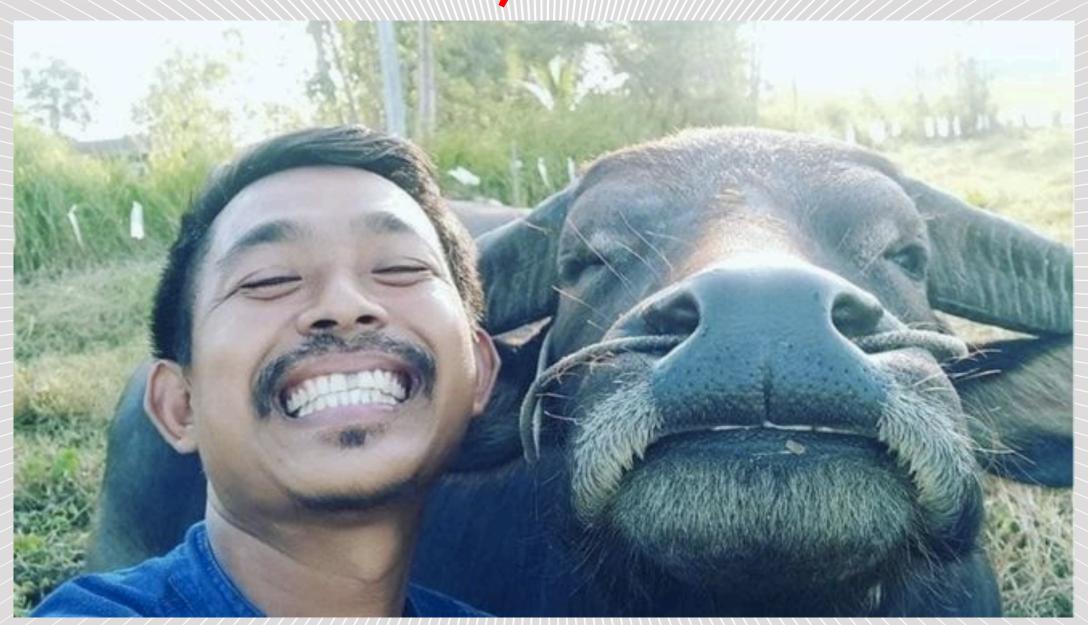


https://www.abbeyroad.com/spatial-audio





HELLO, FRIEND!



Community & Collaboration: Social XR, Game Engine





Build Sound.

Create modular, musical machines with MuX, the Sandbox Instrument.

Buy MuX on Steam

Watch the Trailer

Engineer SNAP together hundreds of different components into endless different combinations.

Compose

CONNECT wires to build an advanced logical system. A whole new type of programming



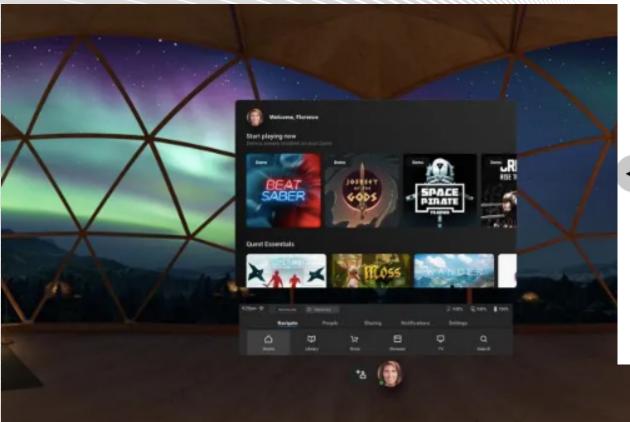


Hyperform: "Augmented Creative Collaborative Environment of the Future" @MukiApproved



Squint/Opera, BIG and UNStudio create virtual-reality collaborative design tool

"Oculus Quest - writing that it represents an impressive merging of next-generation technology and smart design that leads you to stop thinking about the hardware and truly embrace the experience" - TECH.PINIONS (June 2019)



05.21.19

The iPod of VR is here, and you should try it

Never before have I seen a single technology improve so quickly.



1/7 [Photo: Oculus

OMG, it's 5G!



5G Testbeds: Vodafone Innovation Hub: The Landing, Media City, Salford, England



5G testbed: Deutsche Telekom, Nokia, 'network slicing' June, 2019- Hamburg, Germany

Port of Hamburg 5G testbed reports success

14th June 2019



@ iStock/delectus

5G Testbeds: State Hermitage Museum, St. Petersburg, Russia

A night at the museum — with 5G

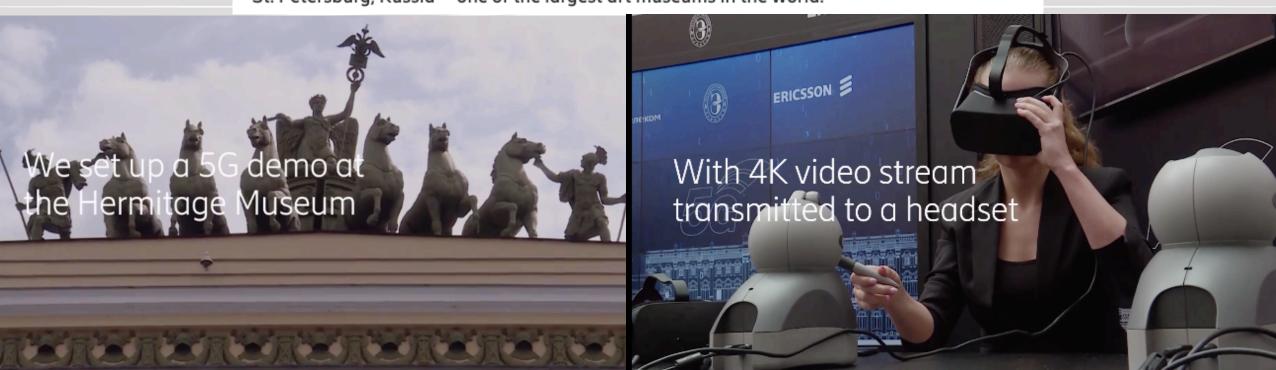
May 23, 2018

5G

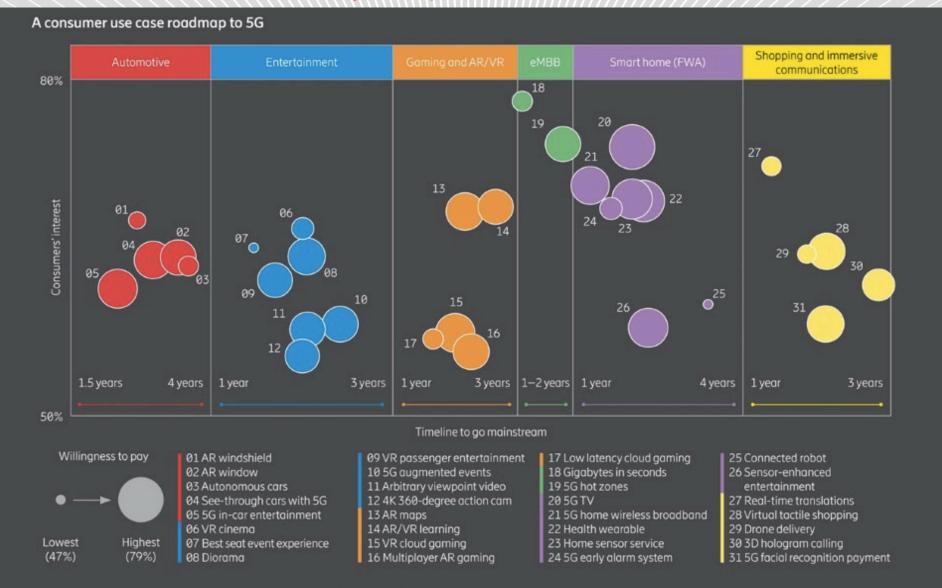
Networks

#Rostelecom, #internetofskills, #VR

Rostelecom and Ericsson have launched a 5G trial network at the State Hermitage Museum in St. Petersburg, Russia — one of the largest art museums in the world.



(via Ericsson's ConusmerLab 5G research May, 2019)



Base: Smartphone users aged 15–69 in Australia, Argentina, Brazil, Belgium, China, Canada, Chile, France, Finland, Germany, India, Indonesia, Ireland, Italy, Saudi Arabia, South Korea, Singapore, Thailand, Uruguay, the UAE, the UK and the US Source: Ericsson ConsumerLab, 5G consumer potential (May 2019)







Doing it for the kids: Integem Holographic AR Summer Camp (from age 2+..!!)



HOME

COURSES

REGISTRATION

FAQ

SIGN IN



Holographic AR Summer Camp

NOW WHAT?

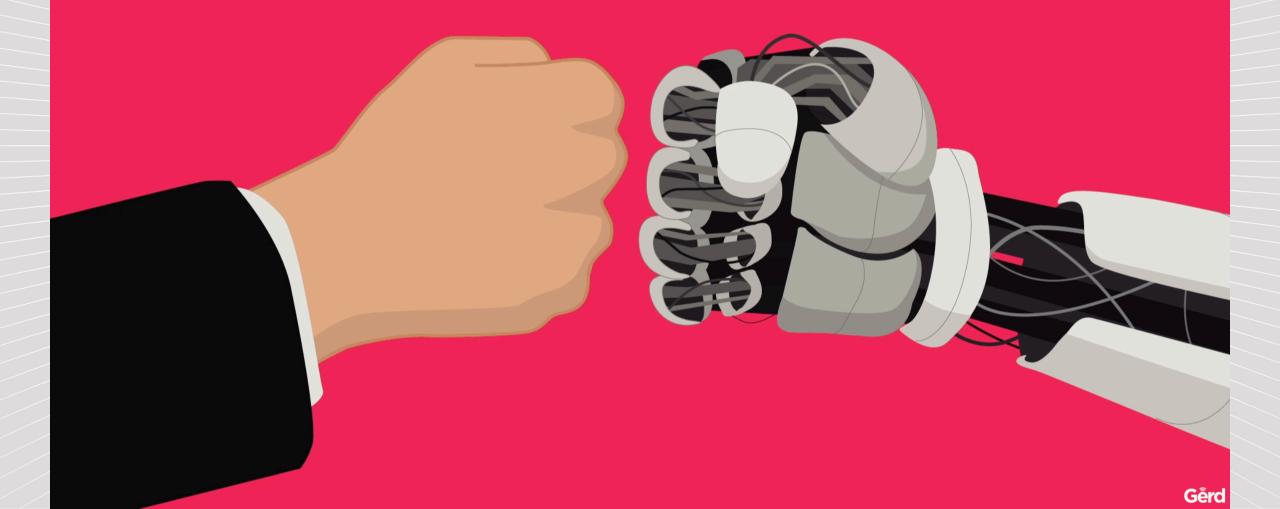
Good Times..

- o LIVE & LBE: Immersive Shows, Concerts, Theatre, VR-cades
- o BUNDLE UP: Interactive 'Enhanced' bundled, mixed realities
- o COMMUNITY: Multi-player, real-time/game engine engagement
- o EMPATHY: Holo, Haptics, Therapeutic, Storytelling
- o Al / ML: production-techniques & fan creation (fake-off!)
- o BIOMETRICS / SENSORY: Eye, face scanning, skin and saliva
- SURROUNDED SOUND: immersive, spatial audio
- WEARABLES & WOWABLES: beyond sunglasses
- o 5G: Testbeds, then the real thing
- o 6DOF/360Spatial (Al-based): bye bye motion sickness?
- CONTENT GALORE: We build it, they will come

CHALLENGES...

Bleeding Edge Kit & Techniques SAFETY FIRST Fickle Audiences Awareness Measuring Success Inclusion Diversity Ethics / Responsibility Content & Experiences And, most of all...

Finding the right balance between technology and humanity is becoming essential to our future



BUT SERIOUSLY, NOW WHAT?





