

## ACCELERATOR MEDIA INNOVATION PROGRAMME

**6DOF AUDIO-LED NARRATIVE AND MUSIC EXPERIENCES IN THE METAVERSE** 

**Premium Sponsor** 



Programme Sponsor Microsoft

#accelerators2022





## 6DOF :

*six degrees of freedom;* freedom of movement of a body in threedimensional space.

#### **The Metaverse:**

Connected virtual 3D spaces that bridge digital and physical worlds







## IBC 2021 'Immersive Audio & Sound Imagery'

Compared delivery of 'flat', fixed-head binaural and dynamic 6DOF content.

## **IBC 2022:**

Taking dynamic 6DOF audio content into physical spaces, creating digital twins and transmedia broadcast content.



## 6DOF AUDIO-LED NARRATIVE AND MUSIC EXPERIENCES IN THE METAVERSE

**CHAMPIONS** 













PARTICIPANTS



- 1. What value can 6DOF audio-led content bring to audiences?
- 2. Can non-linear and immersive audio production be incorporated into established broadcast chains?
- **3. What interactivity and immersion might be possible using established broadcast chains?**
- 4. To what extent can current and future standards cover these new audio use-cases?

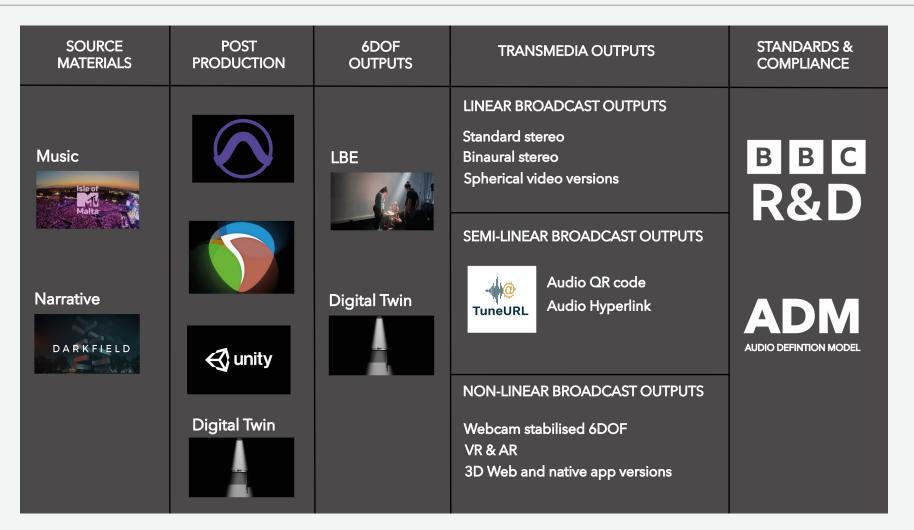




- 1. Build a 6DOF free-roam experience from standard broadcast media
- 2. Create an LBE and digital twin
- 3. Explore transmedia outputs including audio interactivity through established channels
- 4. Explore the use of current and future standards

## **PROJECT STRUCTURE**





**#ACCELERATORS2022** 





- Location based experience and Digital Twin
- Audio triggered interactivity study
- ADM discussions



## **CHALLENGE & OBJECTIVES - Interactive Audio**

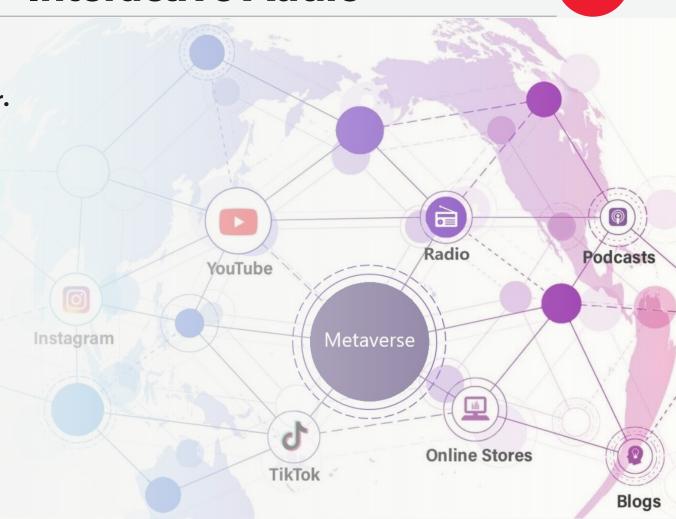
Audio has one direction from the host to the listener. There is no option for the audience to react to the content they heard and no engagement data for content creators.

Our goal is to include audio into the metaverse.

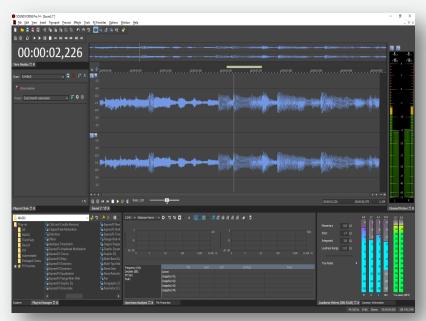
Everything that is possible on the web, we want to make available for audio.

✓ Audio QR code
✓ Audio hyperlinks
✓ Real-time Emoji reactions

✓ A/B testing



#### AUDIO TRIGGER: the ultimate in the moment engagement method



Content Production inserts an Audio Trigger for Promotions, Ads, Phone-in, Link to more information. **Audience Responds;** simple and in the moment Swipe left or right



6

Engagement Data is automatically collected; impressions, engagement score, attribution, the economic value of content, and clickthrough rate. **Interactive Audio - podcast POC** 

2



# Create a Podcast based on audio of the Mae Muller concert in Malta provided to us by Paramount.







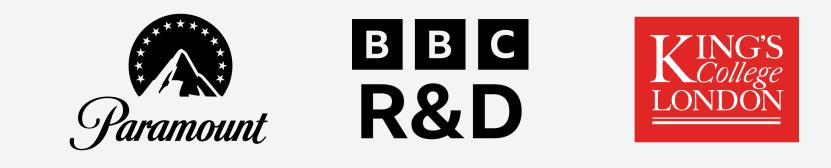
- Audio can be a strong driver of engagement and immersion
- Psychoacoustic effects matter
- Hardware matters for spatial content (headphone variation)
- Low friction is necessary for onboarding and engagement
- Open standards will be key to driving universal adoption



- Look at relationship of spatial parameters between LBE and Digital Twin
- Closer look at details of ADM support and prepare suggestions for future development
- Incorporation of new research results from KCL's acoustic simulation
- Further audience testing and refinement

## THANKS TO EVERYONE INVOLVED









## **THANK YOU** 6DOF AUDIO ACCELERATOR TEAM

Premium Sponsor



Programme Sponsor
Microsoft

#accelerators2022