

# AUDIO ENGINEERING

## Microphone arrays

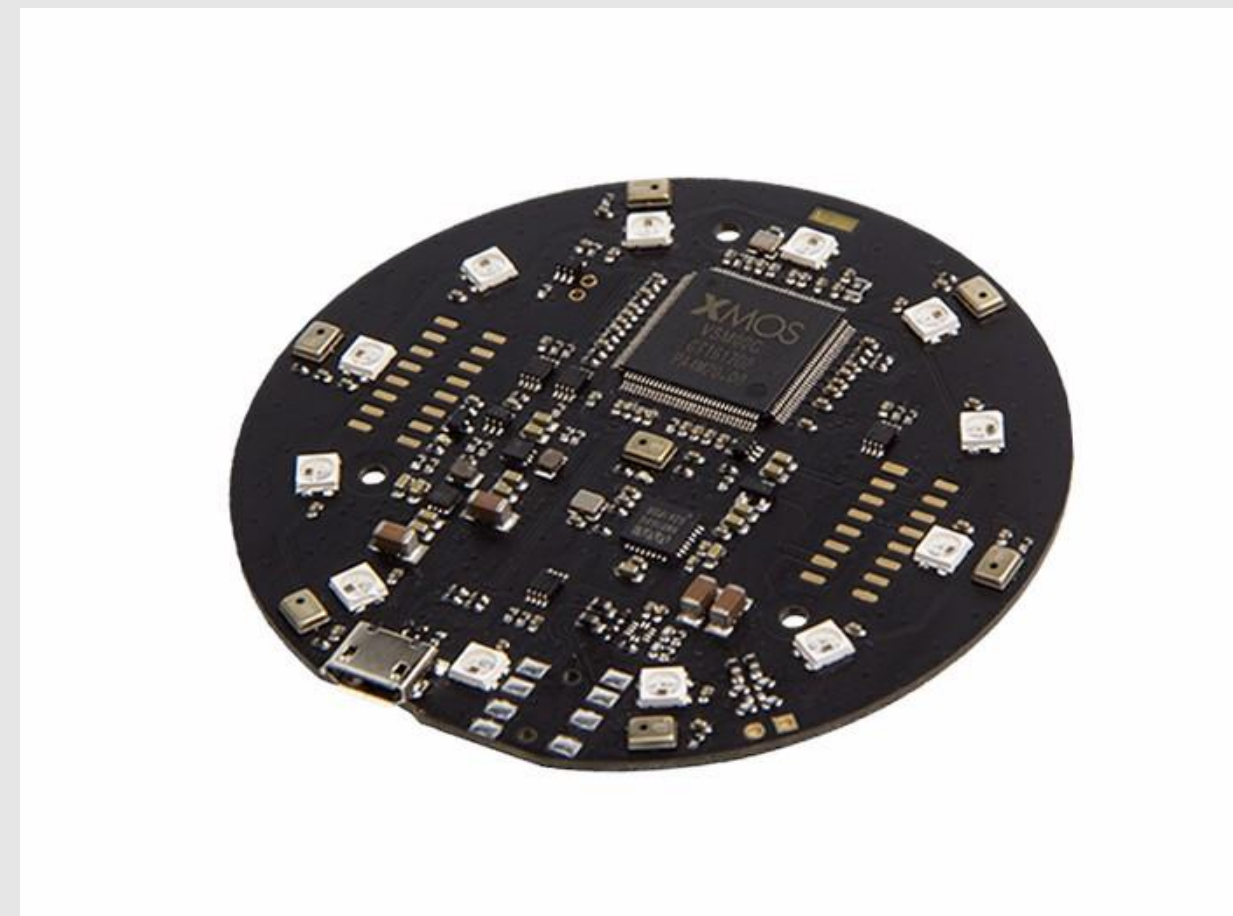
- Remote recording
- Sound source localisation, outdoor propagation causes complications: non LTI (linear time invariant)

## Soundscape reproduction

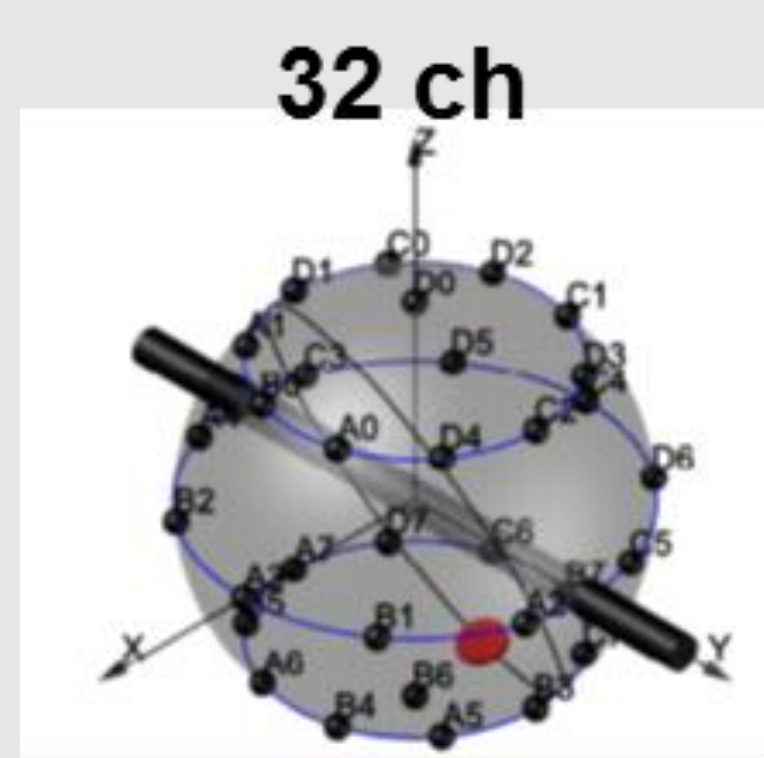
- Ambisonic recording and playback

## Ultra low power acoustic sensors

- Digital MEMS



Digital MEMS enabling consumer size microphone arrays

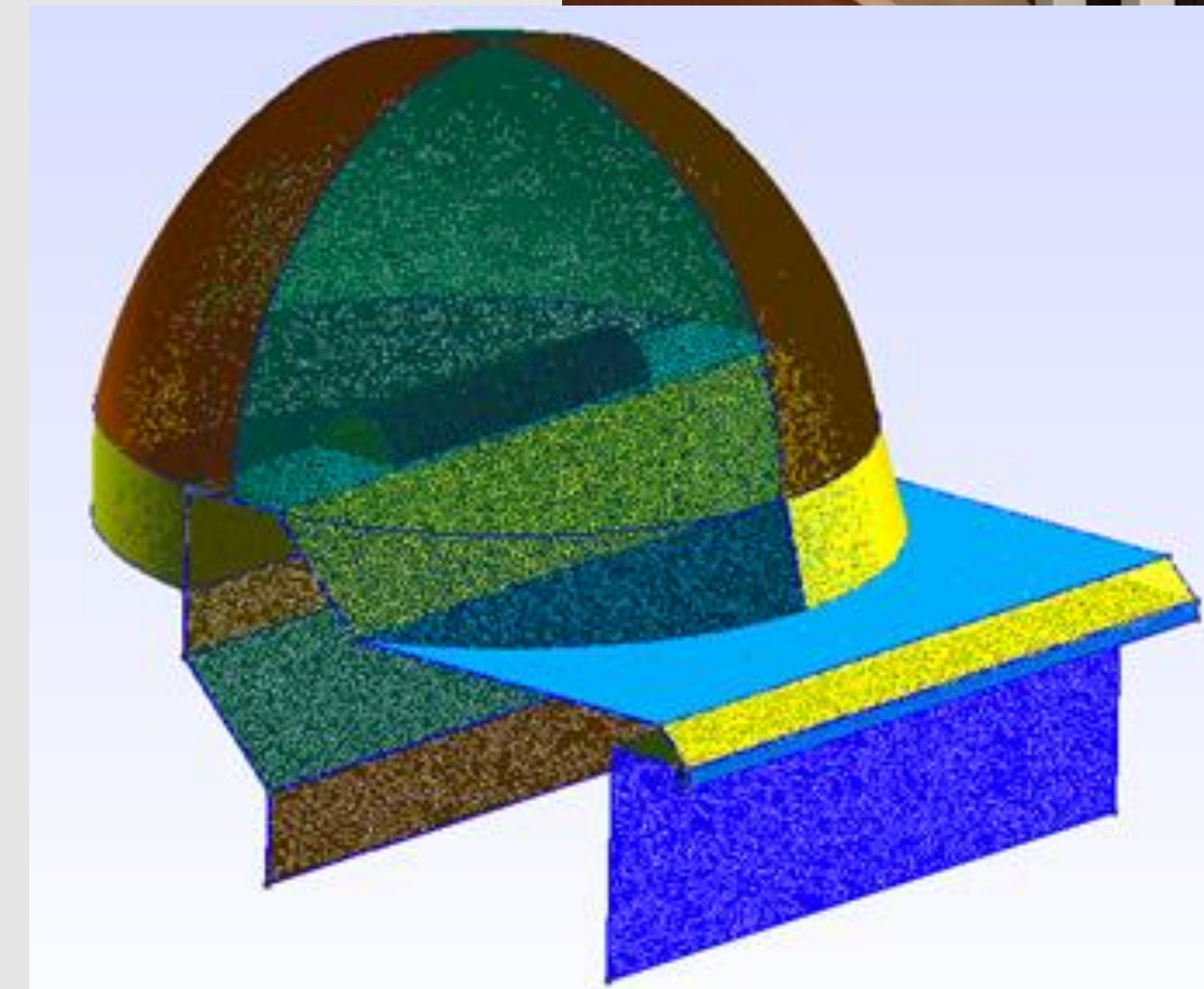
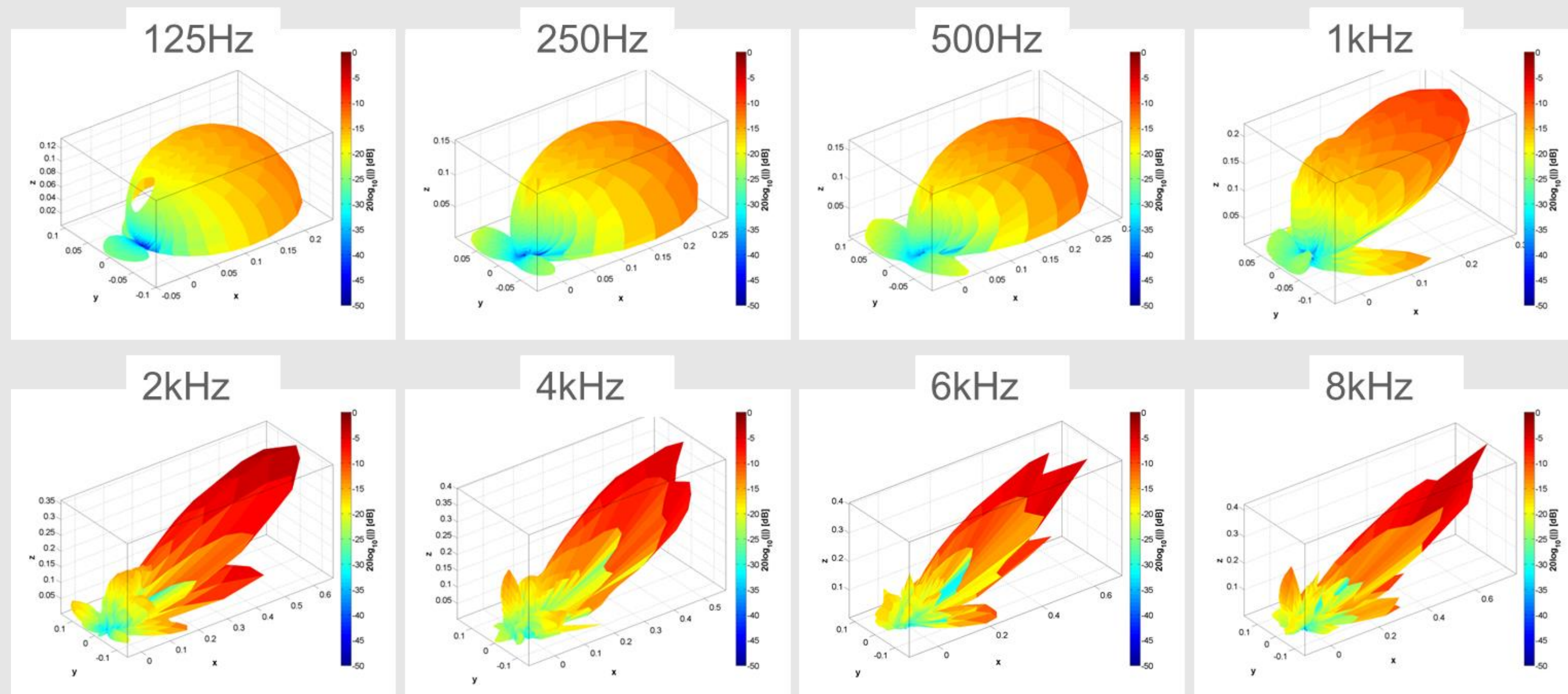
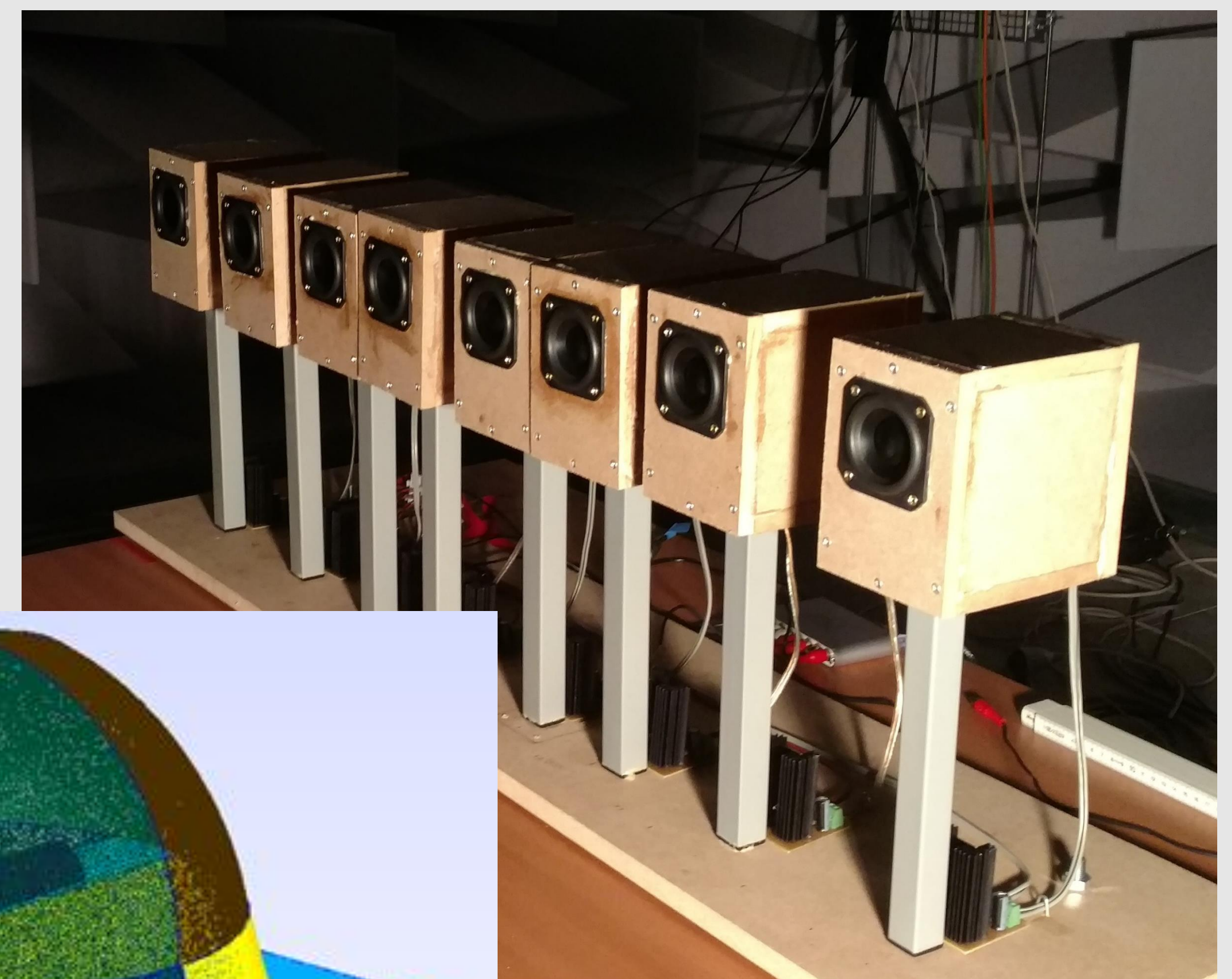


32 ch



2 ch

Quality of Experience  
Immersive experience  
Precision  
Flexibility  
Portability and energy efficiency



Large microphone arrays in a harsh outdoor industrial environment



Concert hall acoustics brought to open air festivals in city squares

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