Acoustics Virtual Reality





# **Acoustic Virtual Reality**

#### **Benefits**

- Get it right the first time minimises errors and risk
- Offers all parties a deeper understanding of the acoustic perception of the building
- Make informed choices about finishes and materials
- Enhanced stakeholder engagement – attaining 'buy-in' from parties through Virtual Reality
- Helps to streamline the approval process for funding

#### How loud is your building?

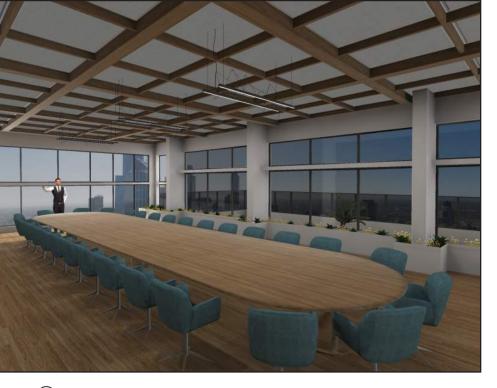
When the design team tells you the right wall configuration could reduce noise leakage by 10 decibels, do you know what that actually means? Most people have no idea. How do you make an informed decision?

#### We have a clever solution for that

We developed software that can demonstrate aurally how noises will sound within your building. You can also hear the level of noise likely to transfer - from one room to another, inside to outside or vice versa. We can demonstrate how loud the local bus will sound driving past your ground floor conference room before it's even built.

What's more, we can manipulate elements, such as internal surface finishes, room insulation or floor coverings, to identify the options that will make the biggest impact – all within a Virtual Reality environment.

It's 'Try Before You Buy' for your ears.



### **Acoustic Virtual Reality**

Using a game engine platform, we convert existing Revit models into virtual, explorable spaces. Moving around the rooms and corridors, we can demonstrate the difference that carpet or ceramic floor tiles will make to both the visual and sound design.

The design of this signature commercial space, intended for multiple functions, presented challenges through the use of extensive glazing. We demonstrated the benefit of acoustic curtains using our immersive VR.

CONFIDENTIAL CLIENT, BOARDROOM SETUP



CLUB JUBILEE ONE AQUATIC CENTRE

## Acoustic Feasibility

Our software simulates the exact level of noise the building occupants – or even their neighbours – will encounter. You can test the effectiveness of partition walls to hear the sound experienced in neighbouring rooms or corridors. We've even modelled the cumulative acoustic properties for a mixed-use development to assess its impact on nearby residents. What's more, we can calibrate the software for any venue, so demonstrations can take place anywhere – your conference room, at the Planning office or at a meeting for local stakeholders.

In a typically noisy environment, we used Acoustic VR to demonstrate the effects of including acoustic ceiling tiles in the space.

