Creating Virtual Meeting Rooms
XR HUB Bavaria

The Challenge

Background

The XR HUB Bavaria is an initiative to strengthen Bavaria as a media and business location, funded by the Bavarian State Ministry for Digital Affairs. We have developed the XR Network, a platform to strengthen the XR community and promote active exchange, as well as the XR Spaces, a platform to connect self-created virtual 3D showrooms with each other and thus take a joint step towards the metaverse.

Vision

Our vision is a functionality that allows the automated generation of virtual 3D showrooms based on existing datasets from user profiles from the XR Network, as well as their integration into the XR Spaces.

Mission

You will develop a theoretical concept that describes concrete possibilities to automatically generate and fill virtual showrooms based on existing data from the user profiles of the XR Network, if possible, in the form of 3D elements. In addition to the description of current and future possible functionalities and algorithmic automation processes, as well as their added value from the user's point of view, concrete technical solution and implementation possibilities are also required. If possible, we also look forward to a first prototypical implementation on your part. We will provide a 3D model of a showroom and an exemplary dataset of an XR Network profile that you can use for the implementation.

The Tools

- Mozilla Hubs
- A-Frame / Three.JS
- JavaScript

The Skillset

- 3D Development
- Web Development

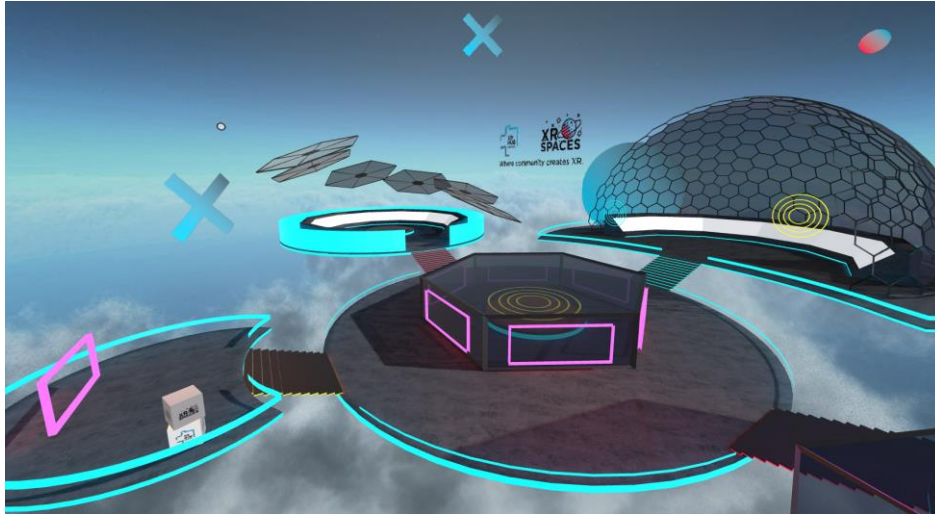Figure 1: Virtual showroom in Mozilla Hubs (XR Spaces)

Figure 2: Example profile (XR Network)