



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 761974.

END-TO-END WEB-BASED FRAMEWORK TO BUILD AND CONSUME SHARED AND SOCIAL VR EXPERIENCES



FEATURES

Simplified Technology Pipeline

- Use of Web-based components:
 - » WebRTC for communication.
 - » WebVR, WebGL for rendering.
 - » React, Node.js and A-Frame for UI frontend.
- Using common off-the-shelf and consumer grade equipment for capture and display.

Fully orchestrated

- Session management, with per session setup options.
- Multi-person capture and rendering management.
- Synchronisation of live and virtual content.

REAL-TIME LIVE CAPTURE

- Live 3D capture of users using RGB-D cameras (e.g. Kinect or Realsense).
- Provide self-view and HMD removal for local user.

PEER-TO-PEER OR BRIDGED COMMUNICATION

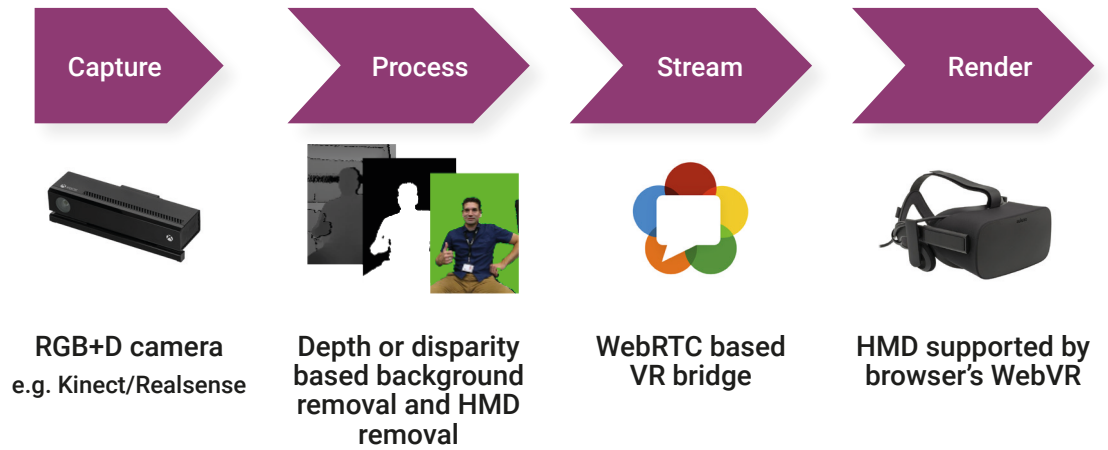
- Communication service through WebRTC.
- Peer-to-peer or if needed for scalability through a VR bridge, combining all individual participant's streams in one large stream.

EASY INTEGRATION OF VIRTUAL ENVIRONMENT

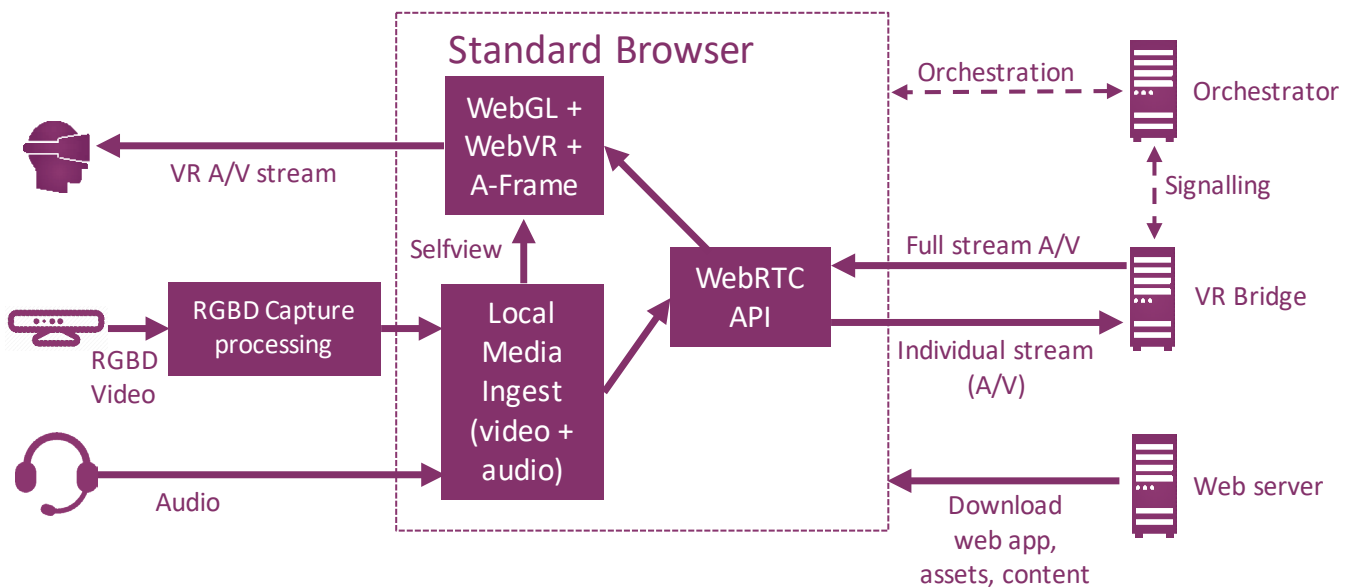
- Support for photo-realistic 360 video and virtual 3D environments.
- Multiple concurrent sources possible, eg. live streaming video in a virtual environment.



SIMPLIFIED TECHNOLOGY PIPELINE



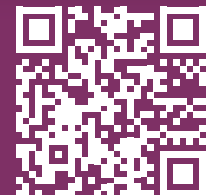
WEB ARCHITECTURE OVERVIEW



AN END-TO-END SYSTEM FOR THE PRODUCTION AND DELIVERY OF **PHOTOREALISTIC SOCIAL IMMERSIVE VIRTUAL REALITY EXPERIENCES**

FOLLOW US

@VRTogether_EU
www.vrtogether.eu



LEARN MORE

