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TNO innovation for life



AN END-TO-END SYSTEM FOR THE PRODUCTION AND DELIVERY OF

# PHOTOREALISTIC SOCIAL IMMERSIVE VIRTUAL REALITY EXPERIENCES

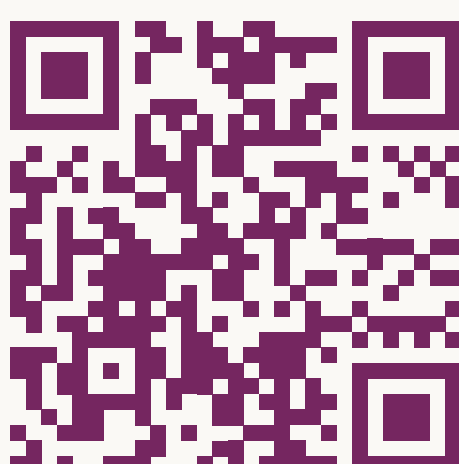


VRTogether

## SOCIAL VR LIKE NEVER SEEN BEFORE

VRTogether aims at enabling social Virtual Reality experiences that allow a natural interaction between **remote users immersed in a shared virtual environment** in an affordable way and with photo-realistic quality. It also explores the hybridization of content formats—2D, 3D, Point Clouds and Time Varying Meshes (TVM)—to achieve **the highest quality of experience possible** while keeping production costs under reasonable limits.

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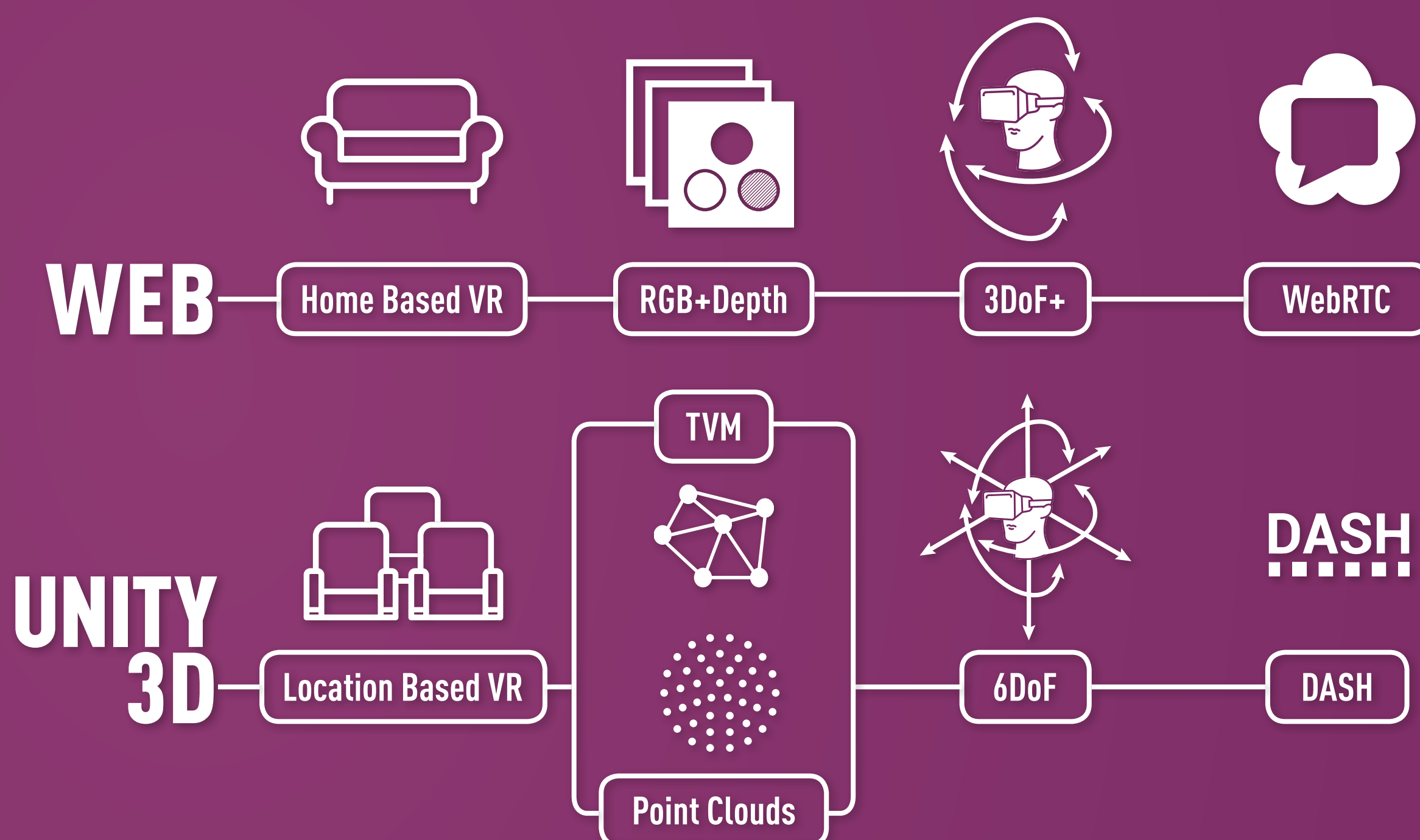


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## VRTogether PIPELINES



## VRTogether PLATFORM CHARACTERISTICS

- Multimedia delivery chain
- Workflow development
- 3D rendering engines
- Encoding & encapsulation of content stream
- Live motion capture
- 3D characters reconstruction with TVMs or Point Clouds
- Data orchestration within the information flow

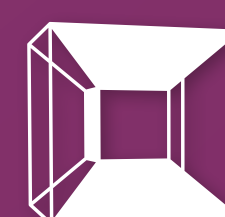
## PRODUCTS



Lightweight  
social VR  
service



Volumetric data end  
to end transmission  
system



4D Capture  
System



Point Cloud  
MCU



New protocol  
and metrics to  
evaluate social VR