## VRDC



**Thomas Bedenk**VR Consultant, Exozet



# How can I use social elements to make my own VR project better?





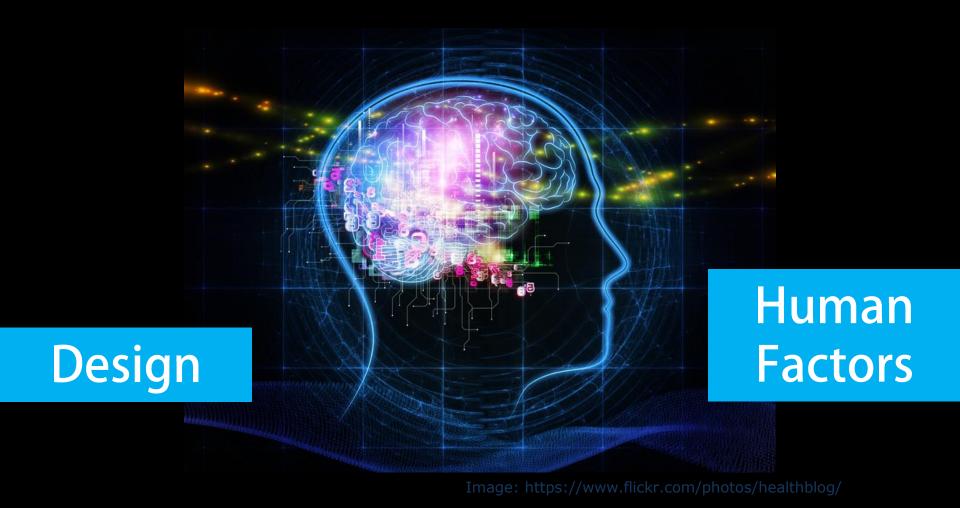
Thomas Bedenk
DIPLOM DESIGNER & M.SC. HUMAN FACTORS

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**Virtual Reality Consultant** 

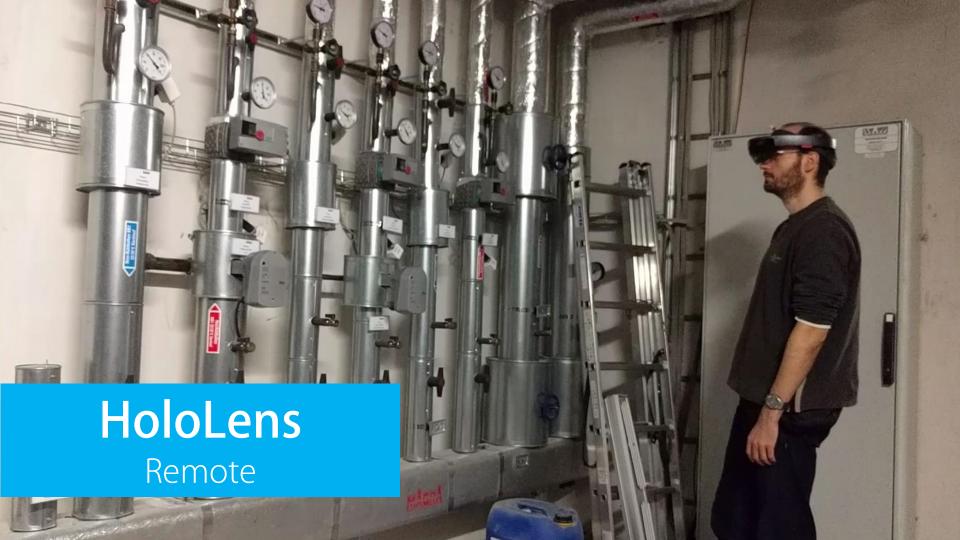


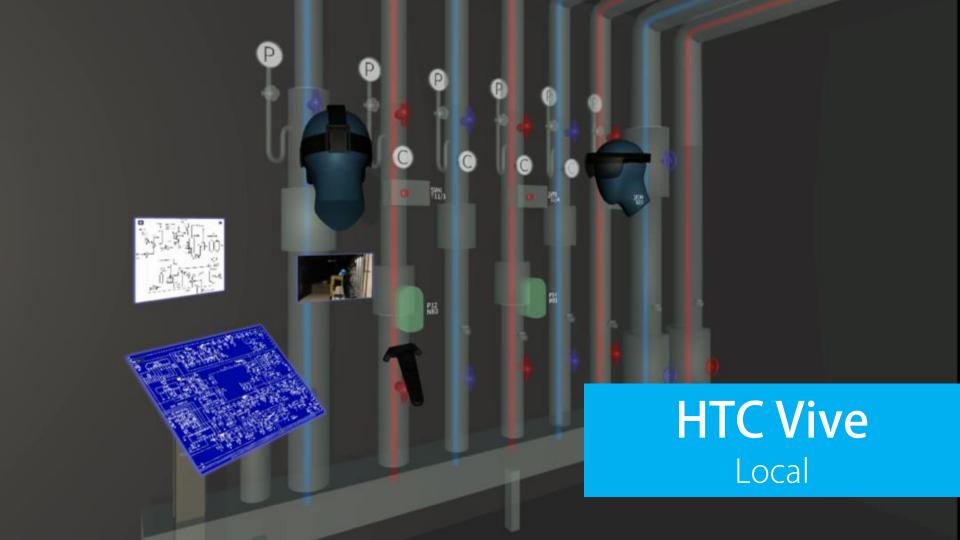


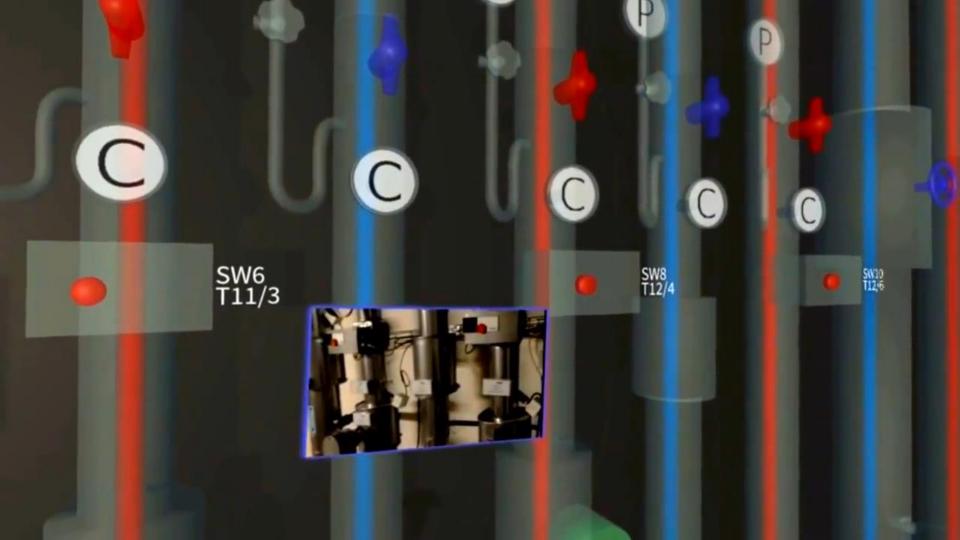












#### Think outside the box!

### VRDC

Cognitive Psychology of Virtual Reality: Basics, Problems and Tips

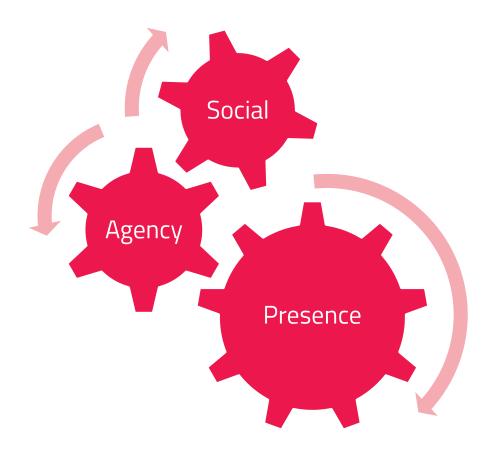
**Thomas Bedenk**VR Consultant, Exozet







#### **VR AS A NEW MEDIUM**

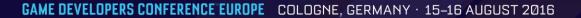






Psychology of Virtual Reality - Presence, Agency, Social

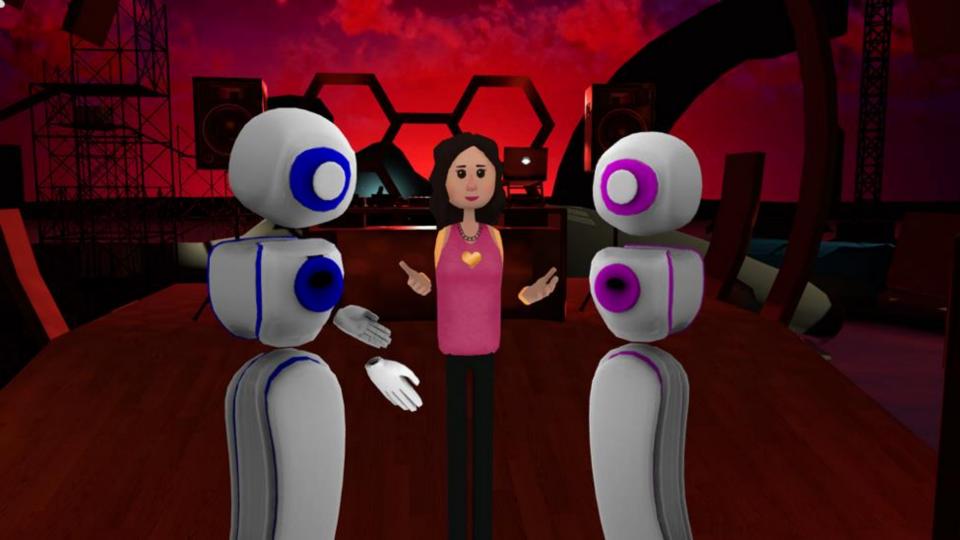
**Thomas Bedenk**VR Consultant, Exozet





# Agency Role Avatars vs Agents







## **VR Stars**









# Local Multiplayer









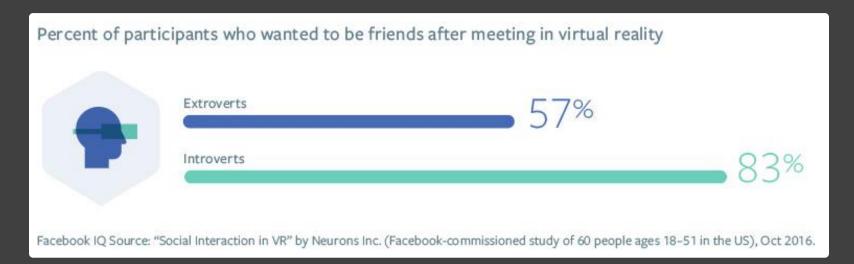
#### University of Vienna

Real-life prosocial behavior decreases after being socially excluded by avatars, not agents.





# Especially introverts can easily forge friendships in VR











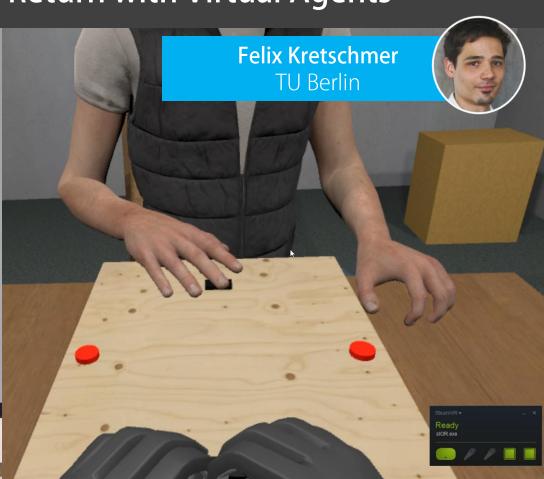


## Who are you?



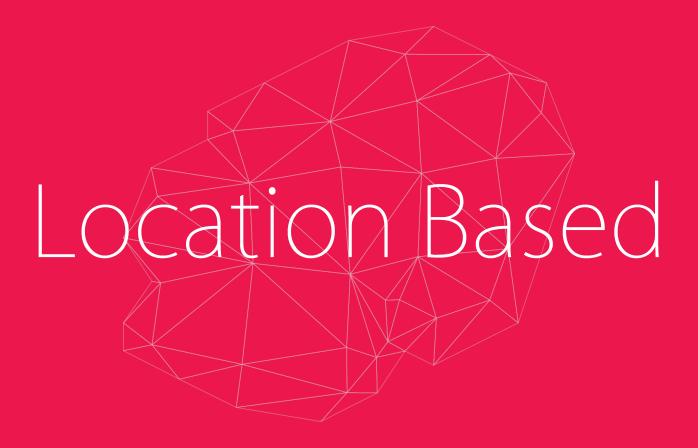
#### Social Inhibition of Return with Virtual Agents



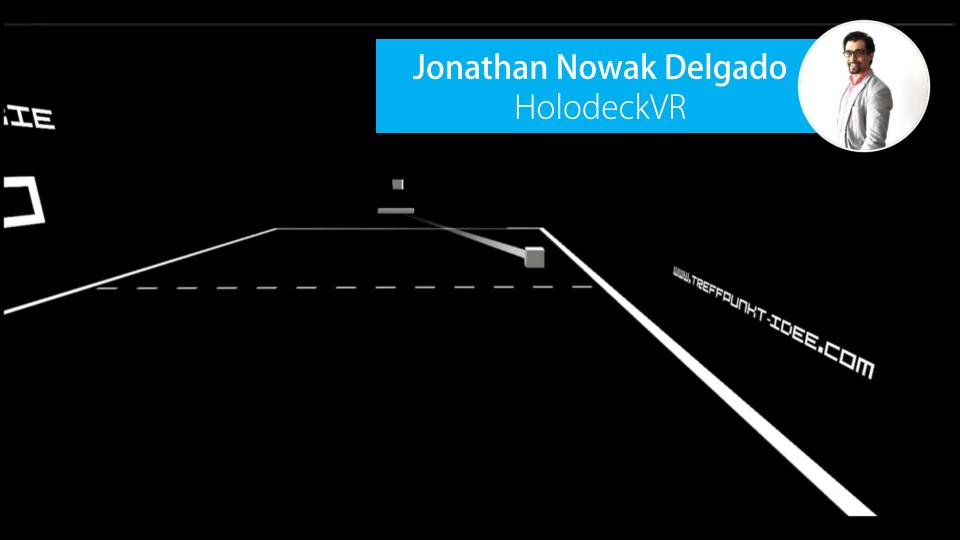




## Async Multiplayer



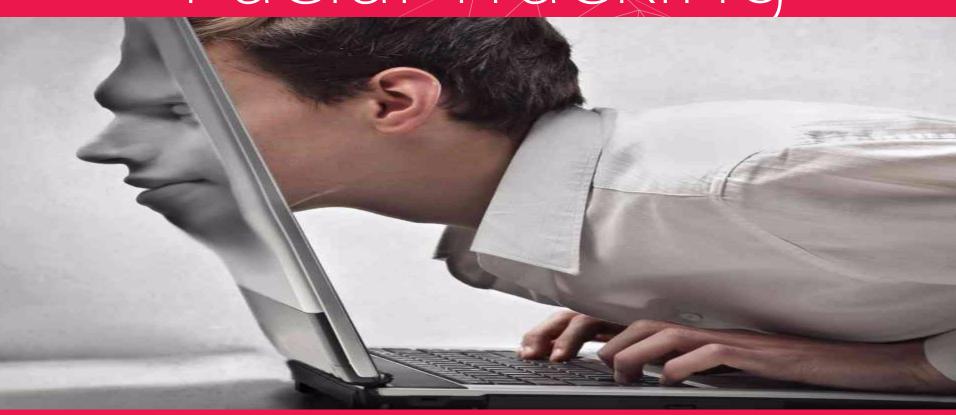


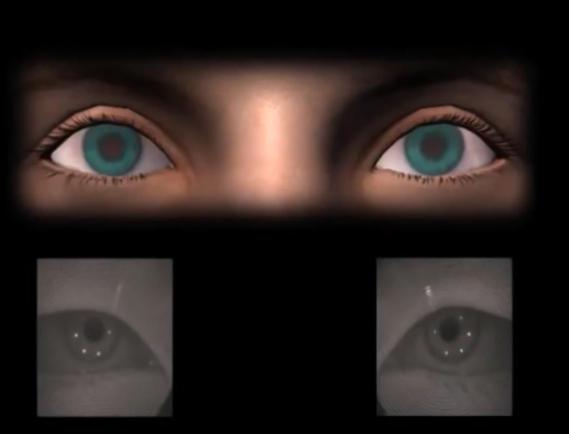




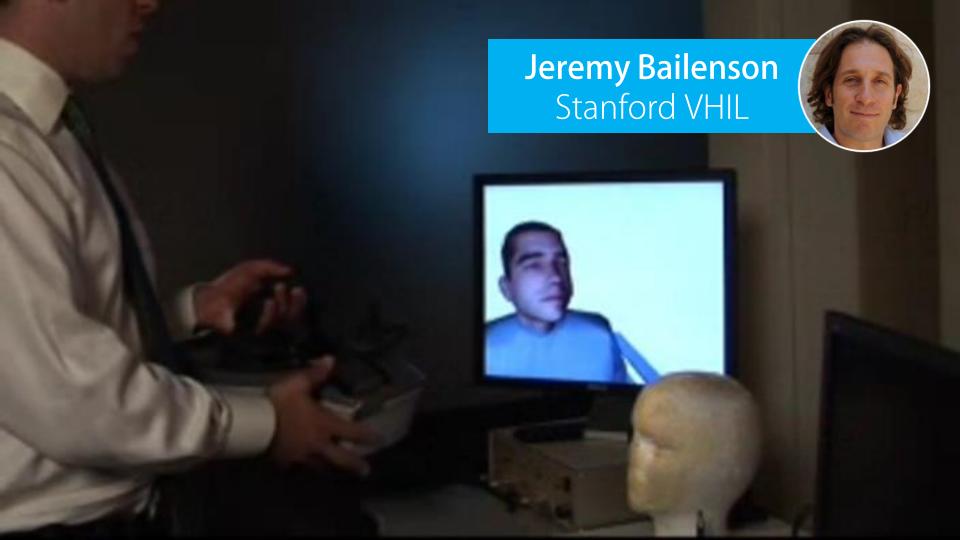


FacialTracking

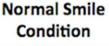








## Effects of Enhancing Facial Expressions in Virtual Environments





Accurate representation of smiling behavior

Enhanced Smile Condition



Enhanced representation of smiling behavior

Mouth Open-Close Condition



Slight smile regardless of smiling behavior









#### Roy Taylor AMD

My mother says to me: "Roy, will you give me a VR headset for Christmas?"

My mother is 72 years old. I said: "Sure. What do you want it for?"

She says, "In VR, Roy, I can be young again."



#### Episodic memory

**Psychology** 

Design

VR

**Iterative Approach** 

**Technology** 

### **Emotional** Meaningful Magical

# Presence Agency Social



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#### VRDC

Presence, Agency, Social: Shaping Great VR Experiences

Thomas Bedenk VR Consultant, Exozet Tuesday, Feb. 28<sup>th</sup>, 2:10 pm Room 134, North Hall, Moscone Center

