

Industrial Metaverse als Kollaborationsumgebung in Wertschöpfungsnetzwerken

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University of Europe for Applied Sciences, Hamburg

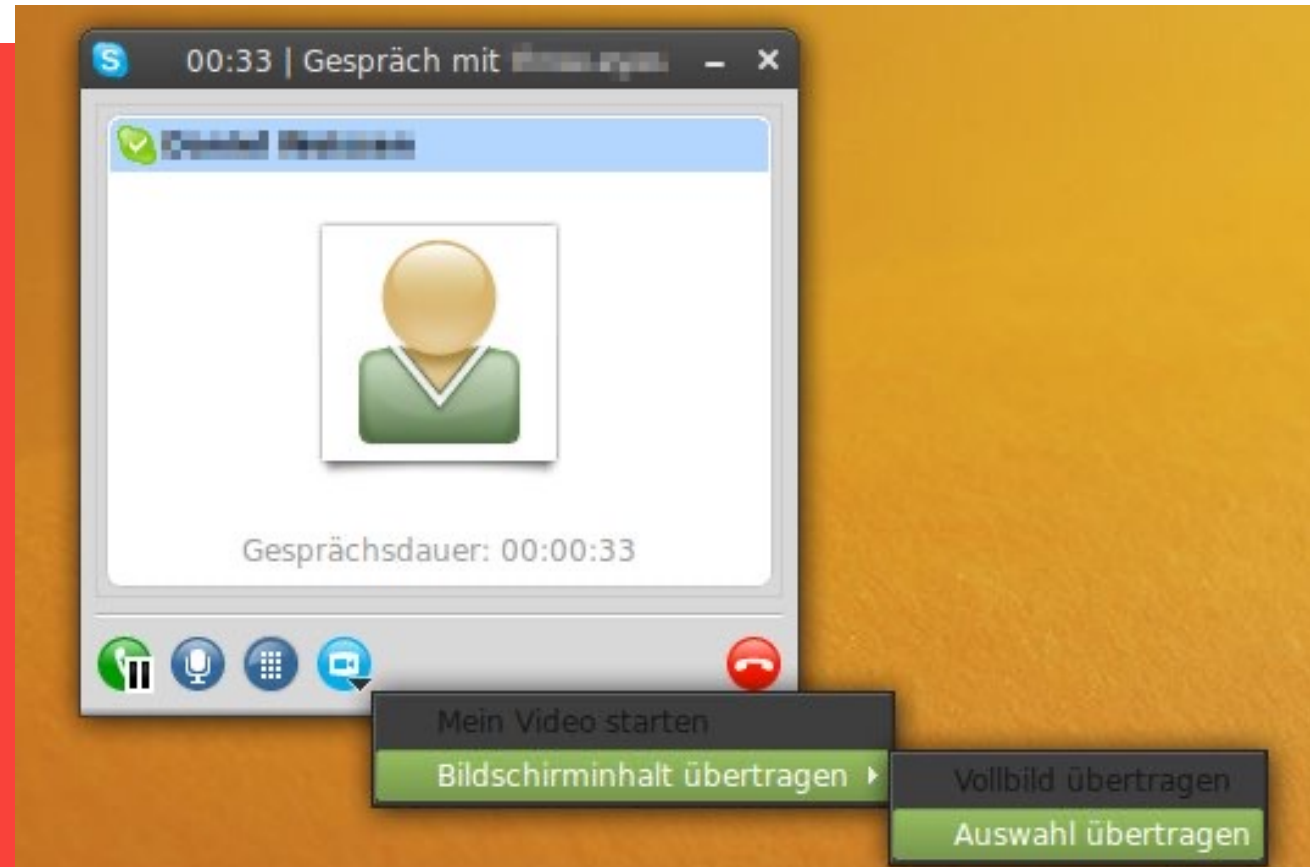


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ERINNERN SIE SICH AN IHREN ERSTEN SKYPECALL?

DAS MAG 2006 GEEWESEN SEIN



Was folgte? Ein Videocall gleich dem Anderen..



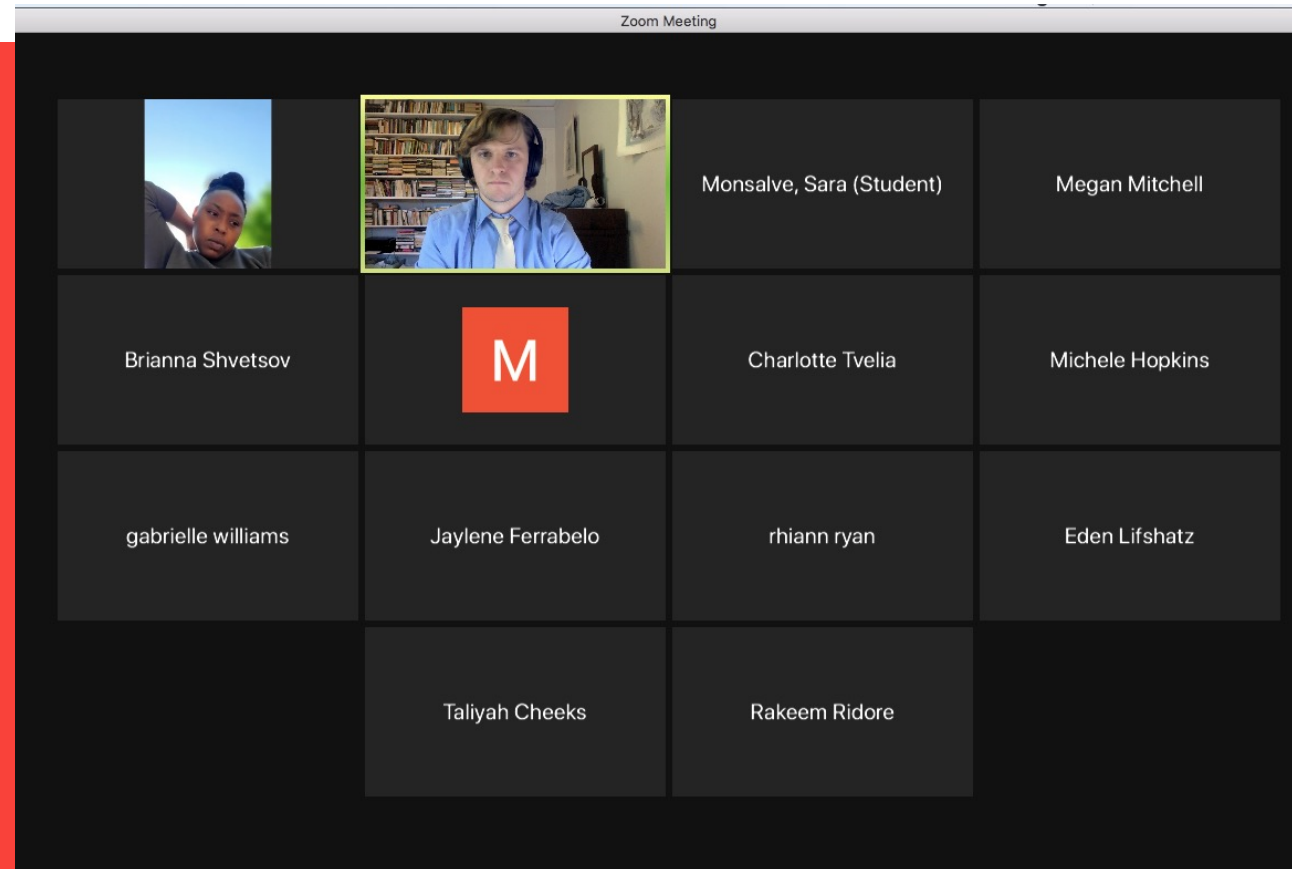
Dutzende Videokonferenzen in den letzten 36 Monate?
Woran erinnert man sich ?

Zukunft der Arbeit?



Die Euphorie nimmt ab. Das "new normal"?

Zoom Fatigue...



Jan 18, 2021, 06:00am EST | 200 views

What's Next After Zoom?



Charlie Fink Contributor

Consumer Tech

I'm a former tech executive covering VR, AR and new media for Forbes.

Virtual Reality (VR) allows collaboration between distant colleagues, simulating the feeling of being co-present in the same location. Its use in business consistently returns measurable improvements in training, often surprisingly so. For example, according to a recent [Harvard Business Review](#) article, VR reduced training time for Wal-Mart workers from eight hours to fifteen minutes.



A virtual boardroom in Virbela. Each avatar represents a unique remote user. VIRBELA

Virbela
30. Januar um 18:02 · 🌐

In September of 2020, [NEOMA Business School](#) launched a fully virtual campus powered by Virbela! Read how they use a [#VirtualWorld](#) to promote psychological wellbeing and maintain connections with their students in [The European](#): <https://bit.ly/3ps7wEn> [#Virbela](#) [#BePassionate_ShapeTheFuture](#)

THE-EUROPEAN.EU
Immersive education - The European Magazine
Alain Goudey of NEOMA Business School describes the launch of the school's all new vir...



ue.germany · Gefolgt
Hamburg



ue.germany VR meets AI!

Prof. Lauritz Lipp and Communication Design students created a virtual space for our students in Artificial Intelligence for a lecture on AI & Sustainability by Prof. Dr. Iris Lorscheid (@iris.view).

Students from both programmes met in the VR environment "FRAME" where Communication Design students prepared spaces for team challenges for the AI students. Our professors are always innovating and exploring new ways of teaching, interdisciplinary and learn more about VR. Take a look at some impressions from the class.

#uegermany #uehamburg #hamburg #vr #ai #teaching #sustainability #communicationdesign #art #tech #design #artificialintelligence #students #team #communication

8 Wo.



jamb.hoji900 Send pic ❤️ @art._of.life



8 Wo. Antworten



Gefällt brokdorfbleibt und 137 weitere Personen

MAI 13



Kommentieren ...

Posten

BEREITSTELLUNG UND BETRIEB EINES METAVERSUMS FÜR DAS M-D Z WERTNETZWERKE – TEILVORHABEN HAGEN

Drittmittelprojekt mit
Studierenden aus den
Studiengängen User
Experience Design und Game
Design



Interaktion im M DZ Metaversum

1. "normale" Konversationen unter Avataren
2. Avatar-Aussehen anpassen
3. Emotions
4. Einbindung von PDF Dokumenten, Integration von Video Integration, Bildschirm teilen



Zugang zum M DZ Metaversum









1. VR Headsets (meta quest, HTV, ..)
2. Windows Laptop, PC
3. Apple MacBook, iMac
4. Tablet PC (Android, iOS)



Benutzerverwaltung

- Admin
- Teilnehmer
- Gast

PERMISSIONS

	Editing:	Admins	▼
	Interacting:	Anyone	▼
	Viewing:	Anyone	▼
	Speaking:	Anyone	▼
	Camera:	Anyone	▼
	Photosphere:	Anyone	▼
	Emoji:	Default	▼
	Zone Lock:	Default	▼

MEMBERS

Email Address

ADMINS

Email Address

info@rahmacher-media.de

kay.sendelbach@ue-germany.

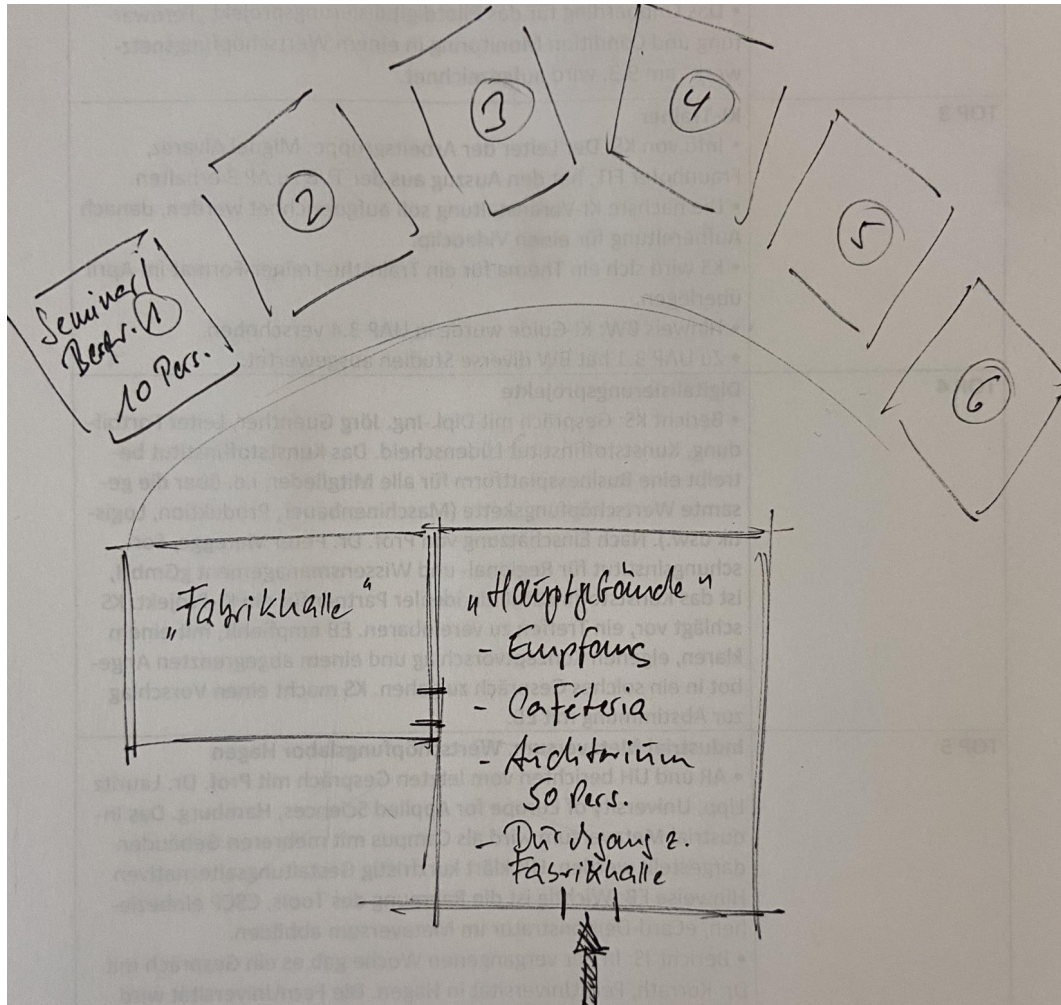
Räumlichkeiten

Verschiedene, virtuelle Treffpunkte

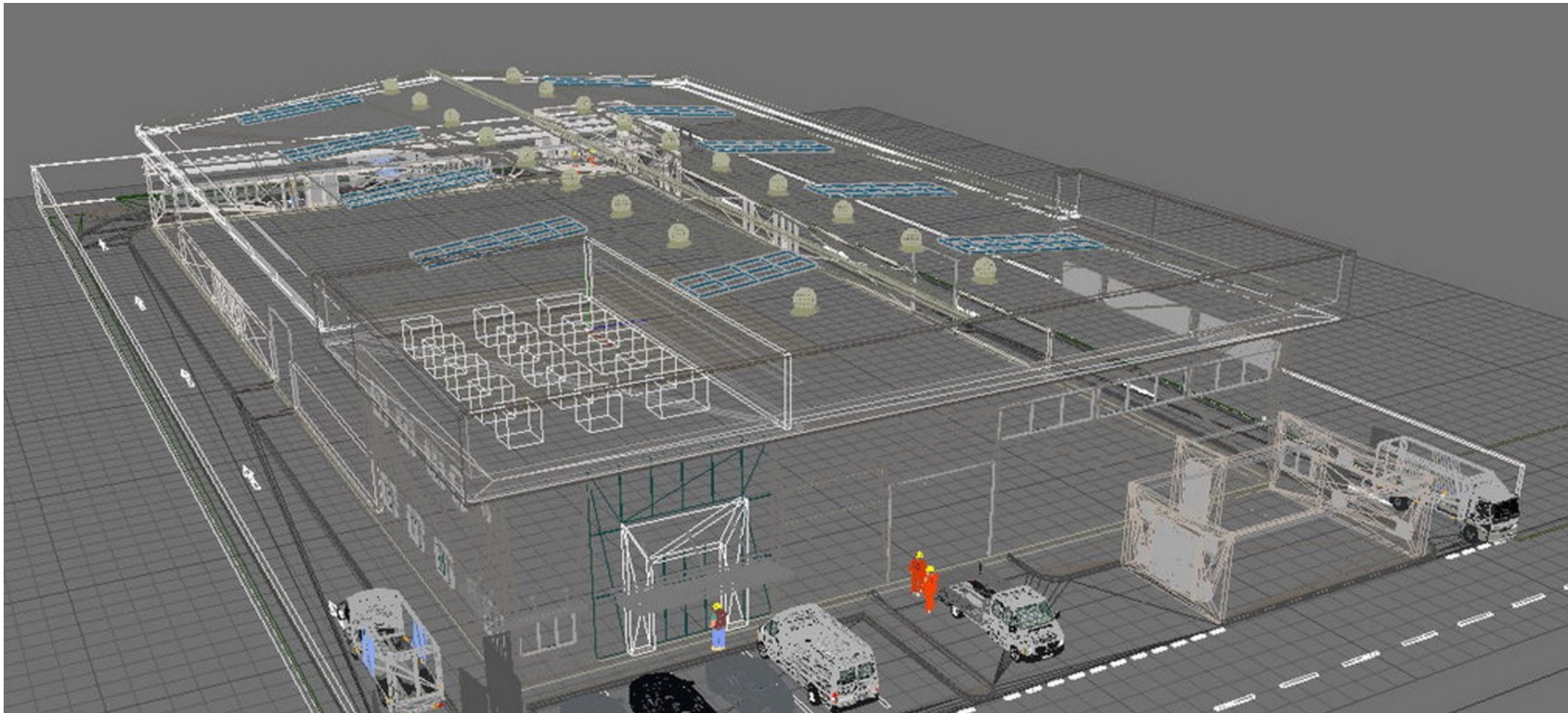
- Außenbereich
- Empfangsbereich
- Konferenzräume
- Lounge
- Ausstellungsfläche
- Fabrikhalle
- ..



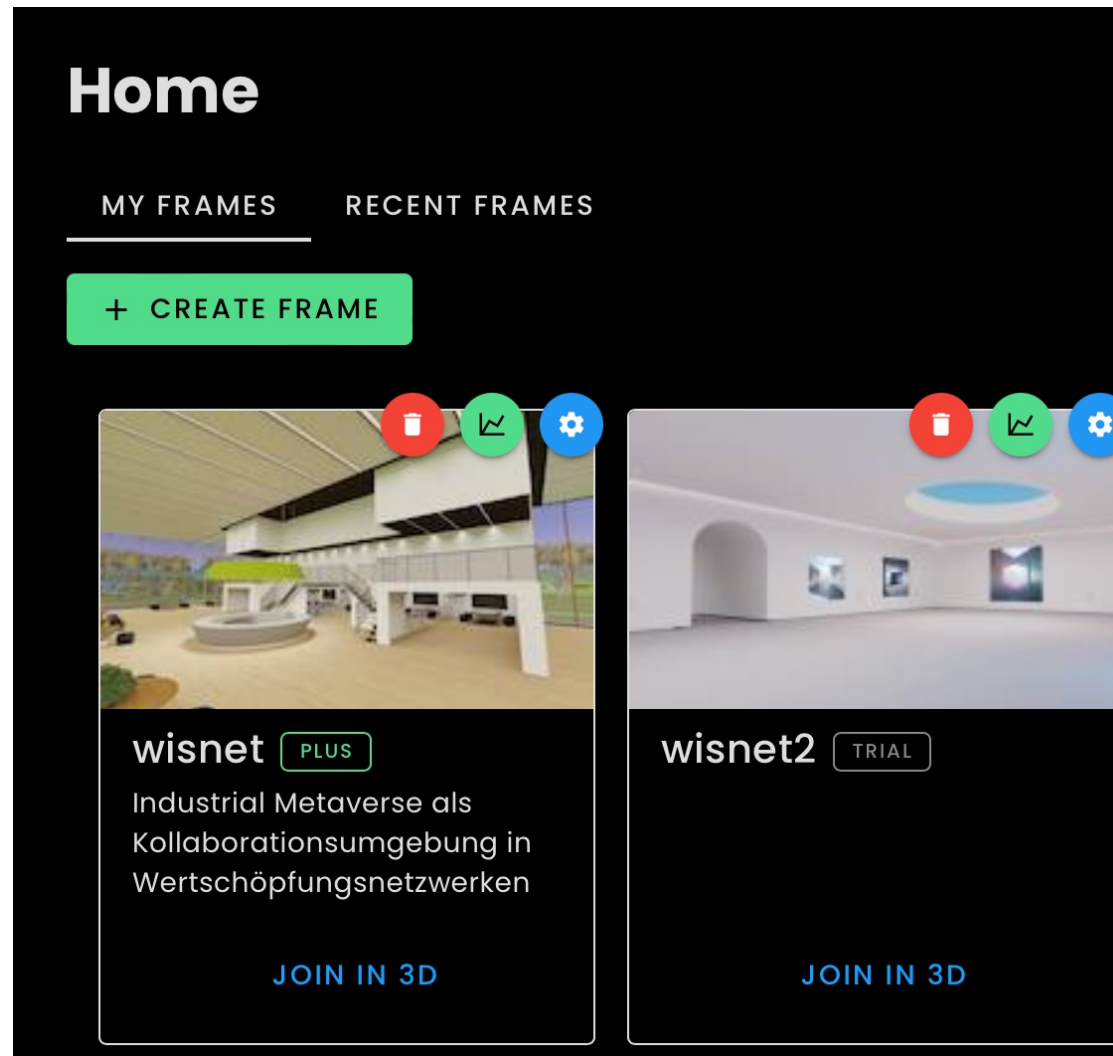
Phase 1a: Entwurf eines Geländes für das MDZ



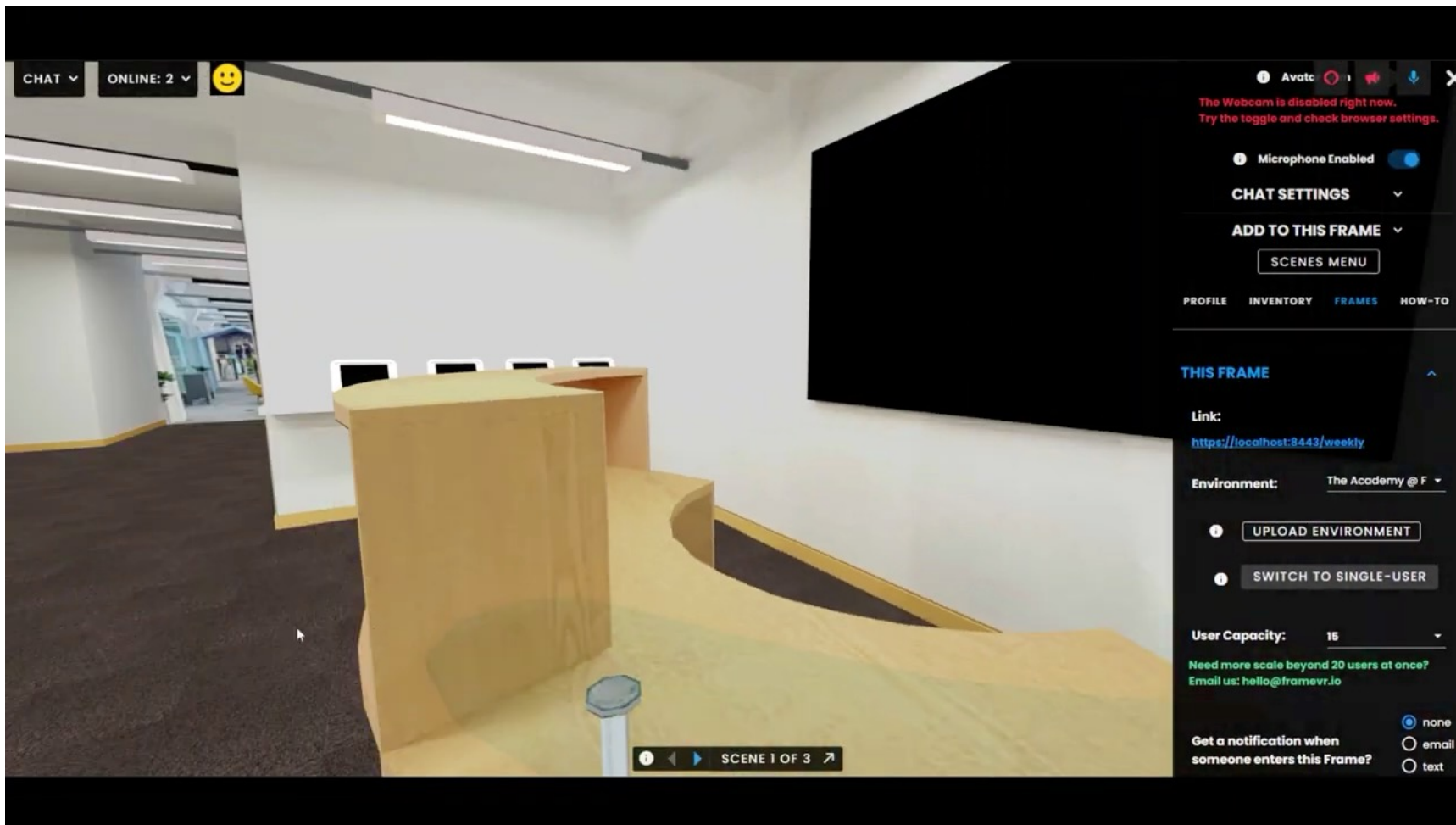
Phase 1b: Umsetzung in 3D



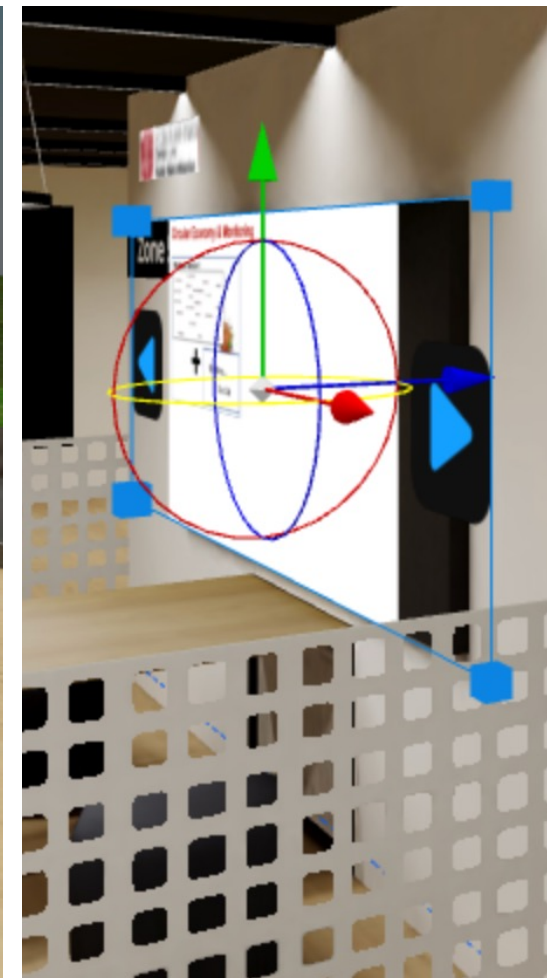
Phase 1c: Import auf eine Metaverse Plattform



Phase 1c: Import auf eine Metaverse Plattform



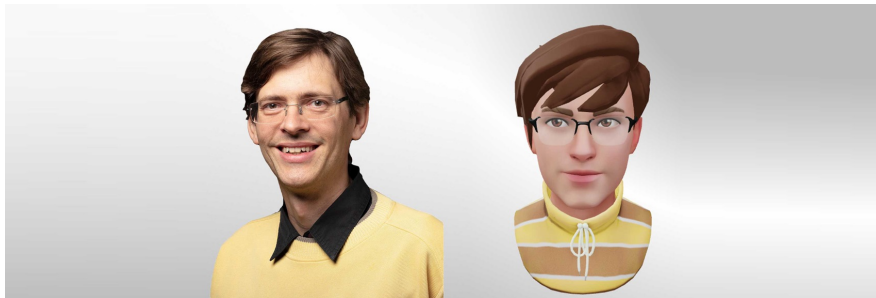
Phase 2: Platzierung von Assets



Phase 2: Platzierung von Assets



Avatar Anpassen



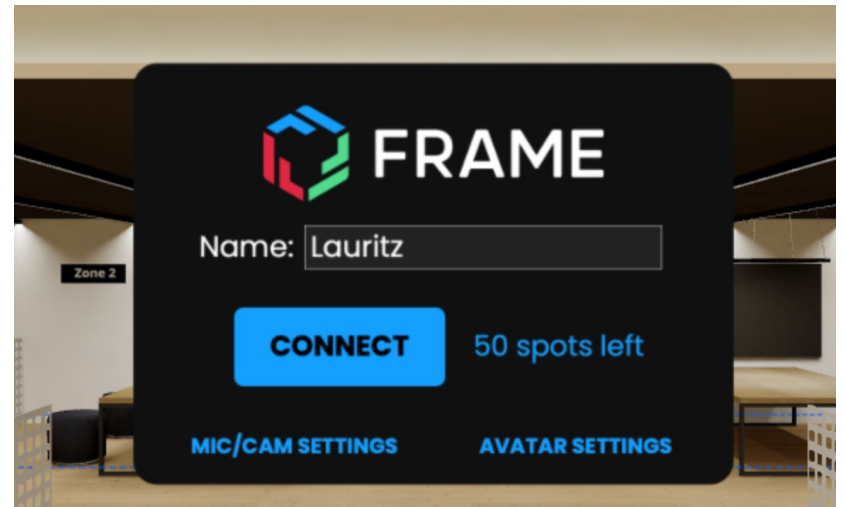


FRAME

POWERED BY EE

Phase 3: Live Event

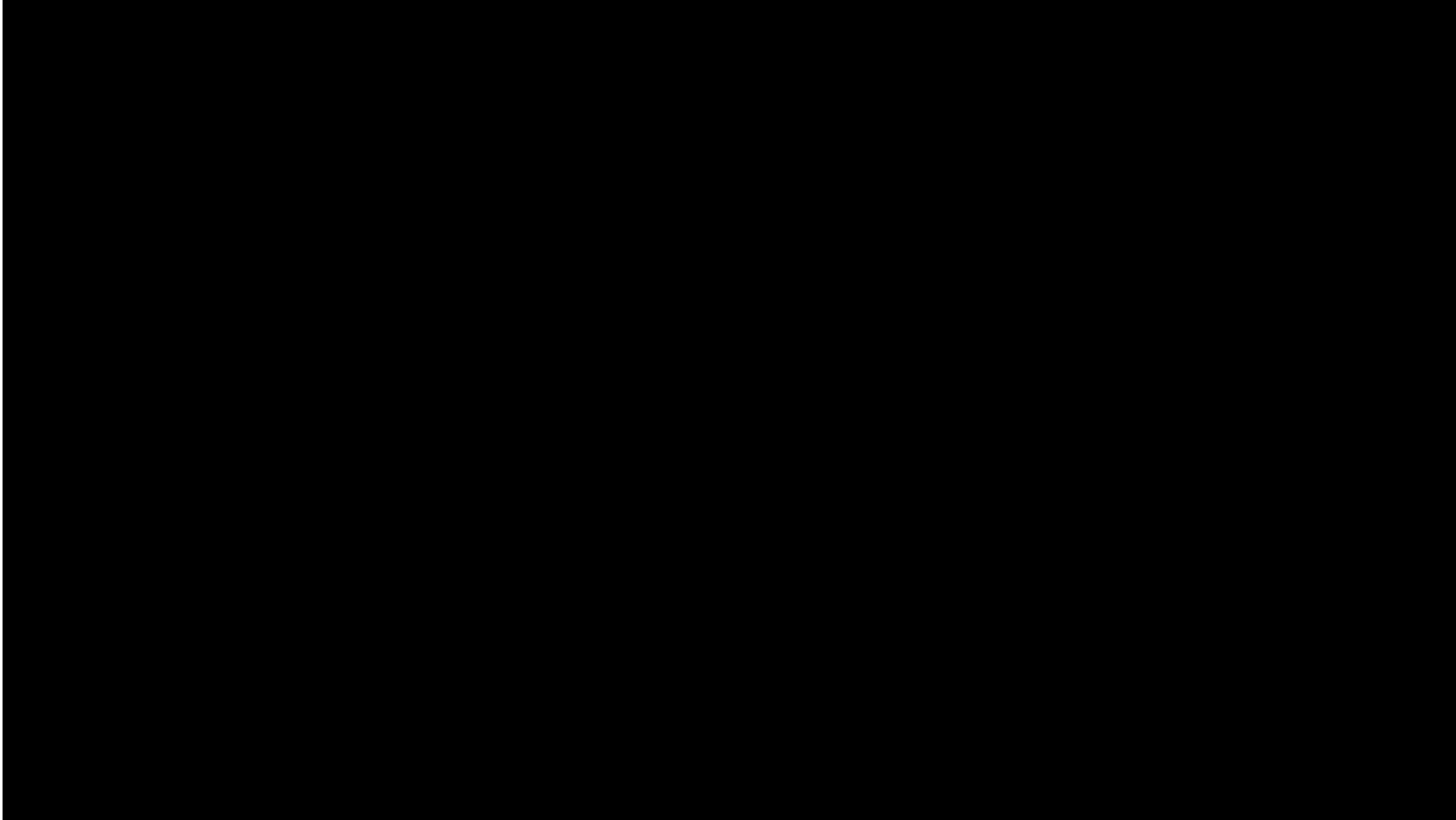
- <https://framevr.io/wisnet>



Alles ist bereit für ein Event



Live Event



Ausblick



- Einladungs-und Veranstaltungsmanagement
- Zugangsmanagement
- Virtuelle KI Bots für die Bereitstellung von grundlegenden Nutzungsinformationen für das MV.
- Bereitstellung von anpassbaren Sub-Welten (konfigurierbar und einrichtbar durch Backend-Admins)

Academic Use Cases – Live Lectures

- Cross Campus
- Prof. and students interact in shared virtual space
- "real" breakout rooms
- Course content can be spread around multiple walls, rooms, ..
- Many different forms of interactions (compared to ZOOM and real live)



Academic Use Cases – Team Collaboration

- Special rooms for specific tasks
- Preparation of meetings in advance, work in progress
- Open or closed sessions
- AI integration possible (PVA)

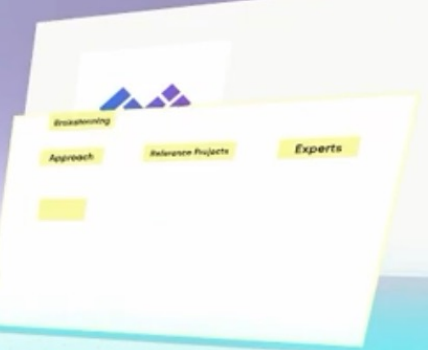
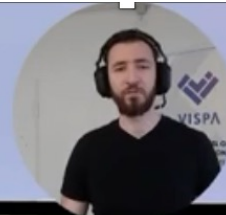


resentation content

collaboration

BENEFITS

- All knowledge in one space**
 - Central storage of all relevant information
 - Easy access to all generated knowledge
 - Intuitive understanding and guidance in space
- Fast preparation & standardization**
 - Build workshops in seconds with our templates
 - Integrate your own methods
 - Fast onboarding of new project members
- Easy accessibility and usability**
 - No VR Hardware necessary
 - Optimized for business PCs
 - High focus on usability for ease of use and fast onboarding



Videolink



Kornelius

0:41,01

Academic Use Cases – Simulation



Videolink



Academic Use Cases – Recorded Interactive Lectures



- Lectures held in the metaverse can be recorded and refined for self-study+
- Building on the experience of instruction designers
- Let's get inspired from the gaming industry :-)

Videolink



Use Cases – Erstie Days & Graduation



Student Live and Networking

- Stroll around the campus and make chance encounters
- Take part in extracurricular activities
- Go on a museum-, boot-, ...tour with fellow students
- Get off-VR notifications when someone tries to visit you in VR
- design your virtual dorm room
- Regular Exhibitions

Videolink



Student Live and Networking

- Establish open Tutoring groups
- AI powered suggestions find like minded fellow students based on data
- Unlimited space for the students



Student Live and Networking

- Stream live events like a rock concert, jazz jam session, movie premieres, etc. to the auditorium
- Host poetry slams, comedy shows → participants can enter the stage and become part of the show!
- Let's party in the club on the Virtual Campus Environment

Videolink



Marketing & Sales



1. Virtual Tour

- Invite Leads to a guided virtual tour
- Offer Tours on a regular basis without invitation.
- After the tour, leads could stay on the virtual campus environment and talk to people they meet there.

2. Open House

- On the open day, leads can stroll around and drop in at different live events on the campus.

3. Student for a day

- Invite leads to attend real lectures for a day

