BLOCK-SEMINAR: MIXED REALITY APPLICATIONS FOR HUMAN-ROBOT COLLABORATION

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OVERVIEW

- Progress
- Planned Features
- Schedule
- Next Steps

HARD-& SOFTWARE

PROGRESS

- Improved interaction with GearVR
 - Drag-and-Drop added
 - Created User-Interface
- Implemented Augmented Reality for Tango
 - Drag-and-Drop added???

PROGRESS

- New tools for HTC VIVE:
 - User-Interface Menu on controller
 - Warp to position
 - Point to position
 - pick-and-place

VIDEODEMO

- VoiceChat
- Recording of the Scene (Object and Participants positions)

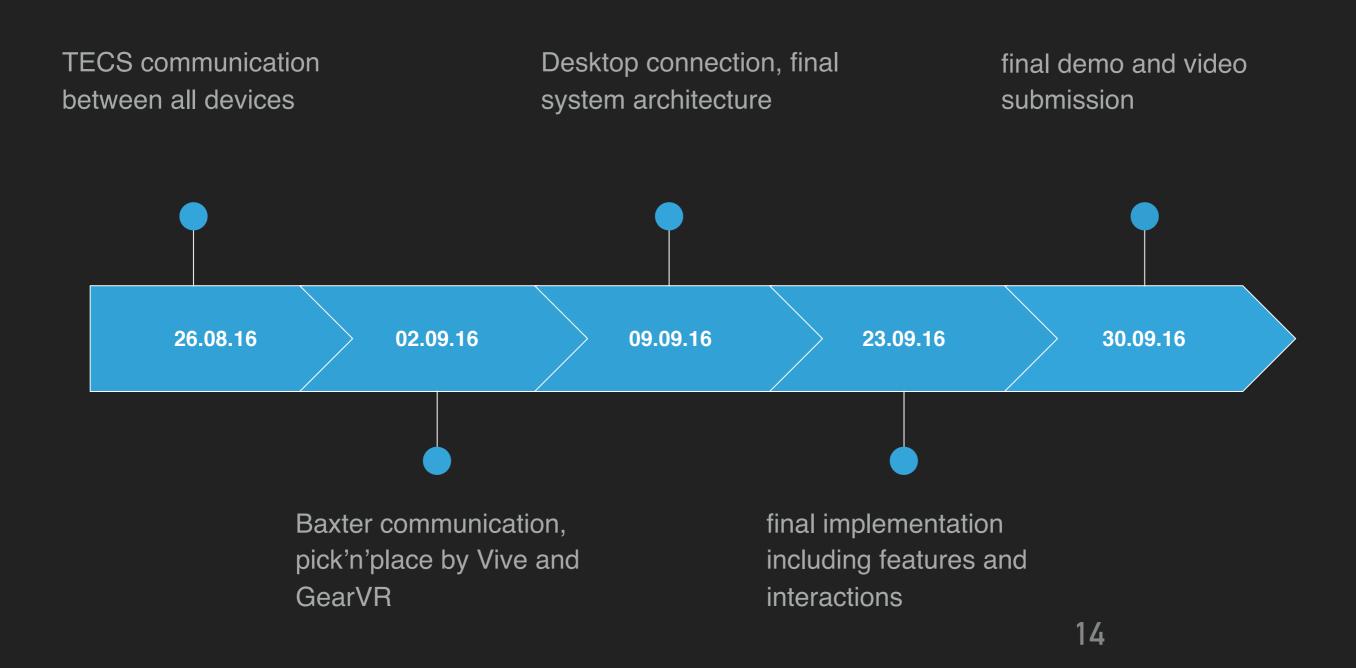
- Additional interactions with HTC Vive
 - inspect and annotate objects
 - use controller as Laserpointer (sending)

- Additional interactions with GearVr
 - inspect and annotate objects
 - use View-Direction as Laserpointer (sending)

- Additional Features with Project Tango
 - automatically map coordinates (using Vuforia)
 - receive additional information about objects

- Additional Features for PC-Client
 - Switch between all participants views
 - Change permissions of participants
 - Can set possible interactions with Objects

SCHEDULE



GOALS FOR NEXT MEETING

- Final Implementation
- Including Planned Features and Interactions

QUESTIONS?