Remote collaboration across wall-sized displays

Large data sets
Scientific data,
CAD models, etc.

Large interactive platforms
Wall-sized display
3D immersive VR room

Remote collaboration

[Digiscope project / www.digiscope.fr]
Remote collaboration across wall-sized displays

[Avellino et al., CHI 2017]
Remote collaboration across wall-sized displays

Shared reference space
Deictic gestures and gaze direction toward content
Good for classification tasks

Virtual face-to-face
Eye contact and hand gestures
Good for tasks that rely on conversation
Remote collaboration across wall-sized displays

Multi-users remote collaboration

Do we always need video to represent users?
Which non-verbal cues need to be transmitted?
What could be the other interesting forms of representation?
How do we engage conversation with a remote user?
Remote collaboration across wall-sized displays

Integrate remote users without large devices

Laptop <=> HMD connected to a 360° camera