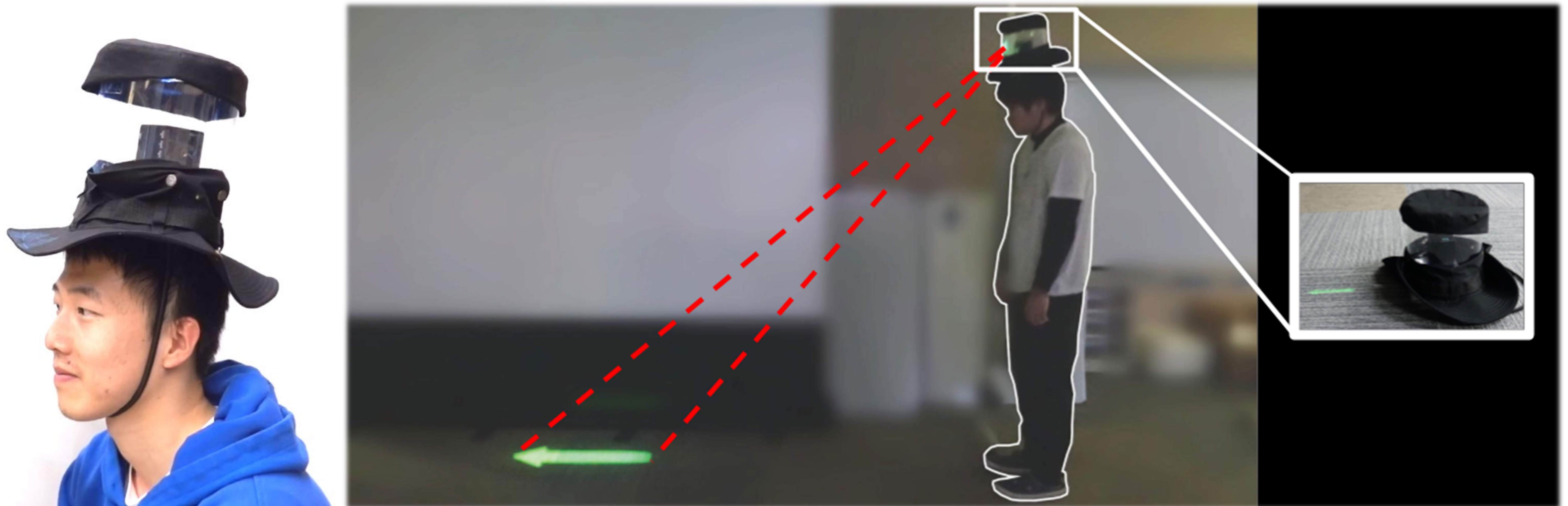
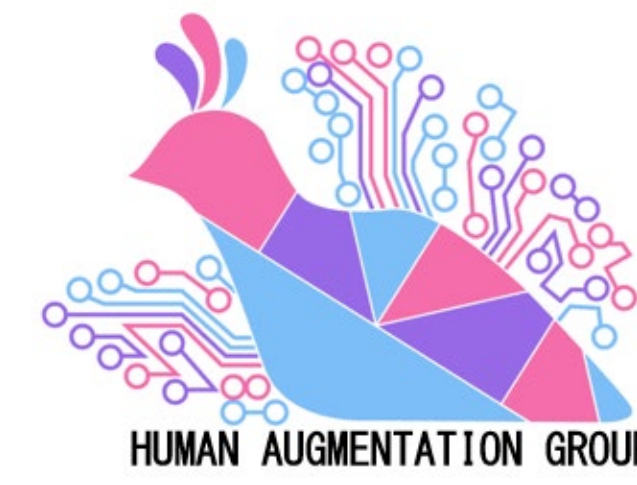


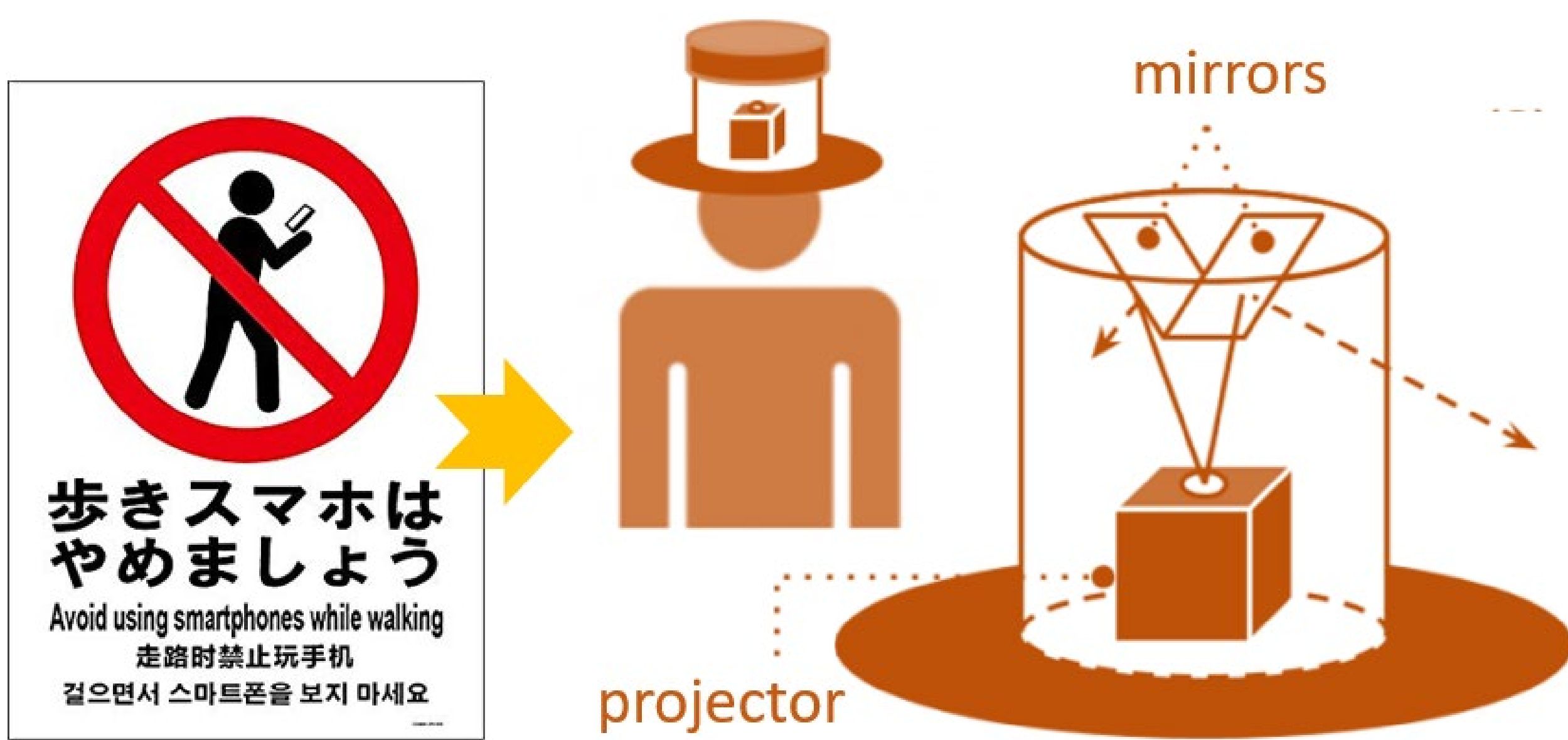
EgoSpace: Augmenting Egocentric Space by Wearable Projector

Yuya Adachi, Haoran Xie*, Takuma Torii, Haopeng Zhang, Ryo Sagisaka
Japan Advanced Institute of Science and Technology, ISHIKAWA, JAPAN



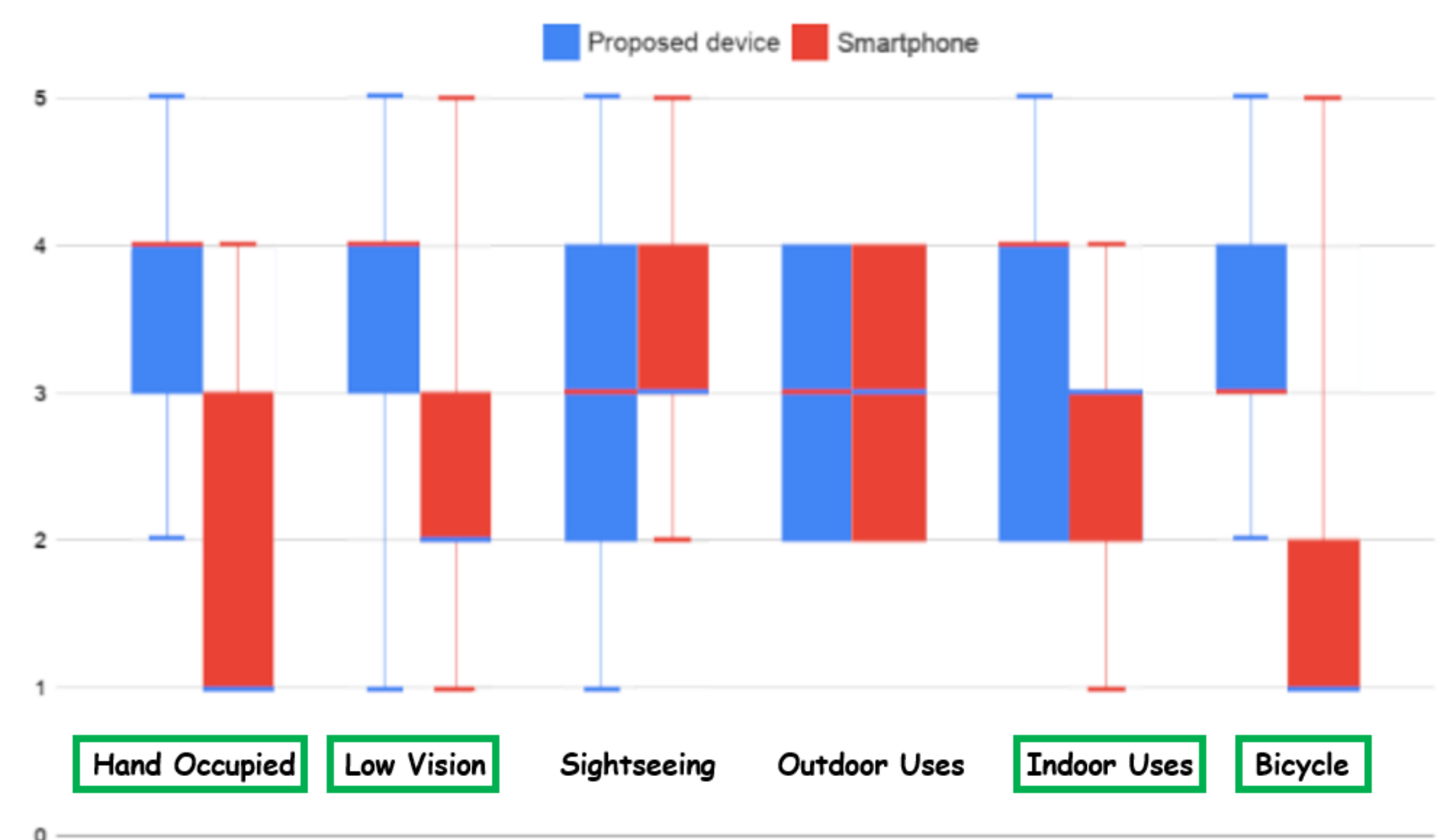
CONCEPT

Smartphone zombie becomes a serious social issue nowadays. Inspired by the communication design of autonomous vehicles, we adopted a projection-based interaction for the wearer and surrounding individuals to augment egocentric space.



APPLICATIONS

In our preliminary study, we asked the participants to wear the proposed device and confirmed their intentions based on the wearing experience in various usage scenarios in contrast to smartphones.



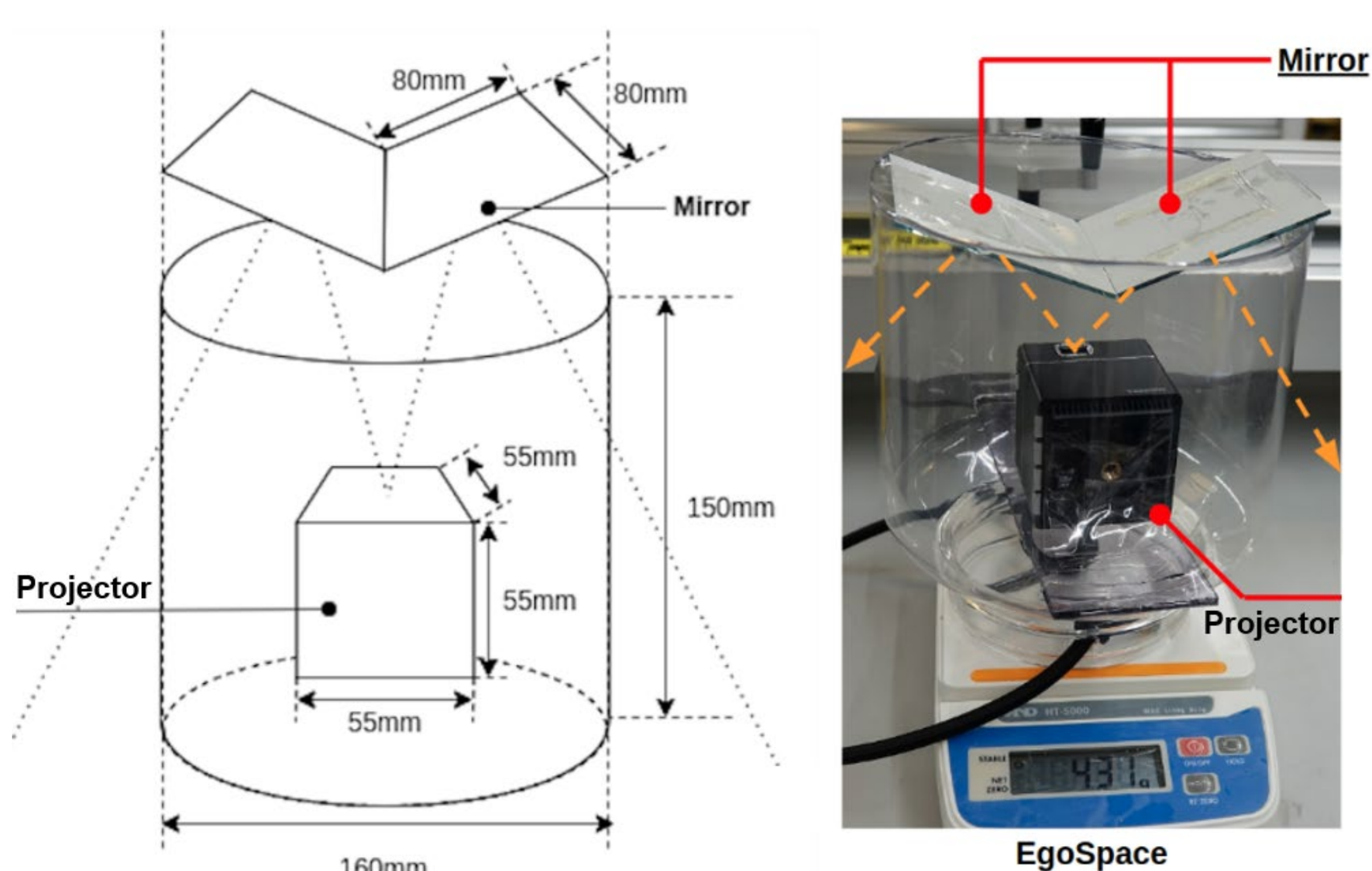
EGOSPACE | Hand Occupied



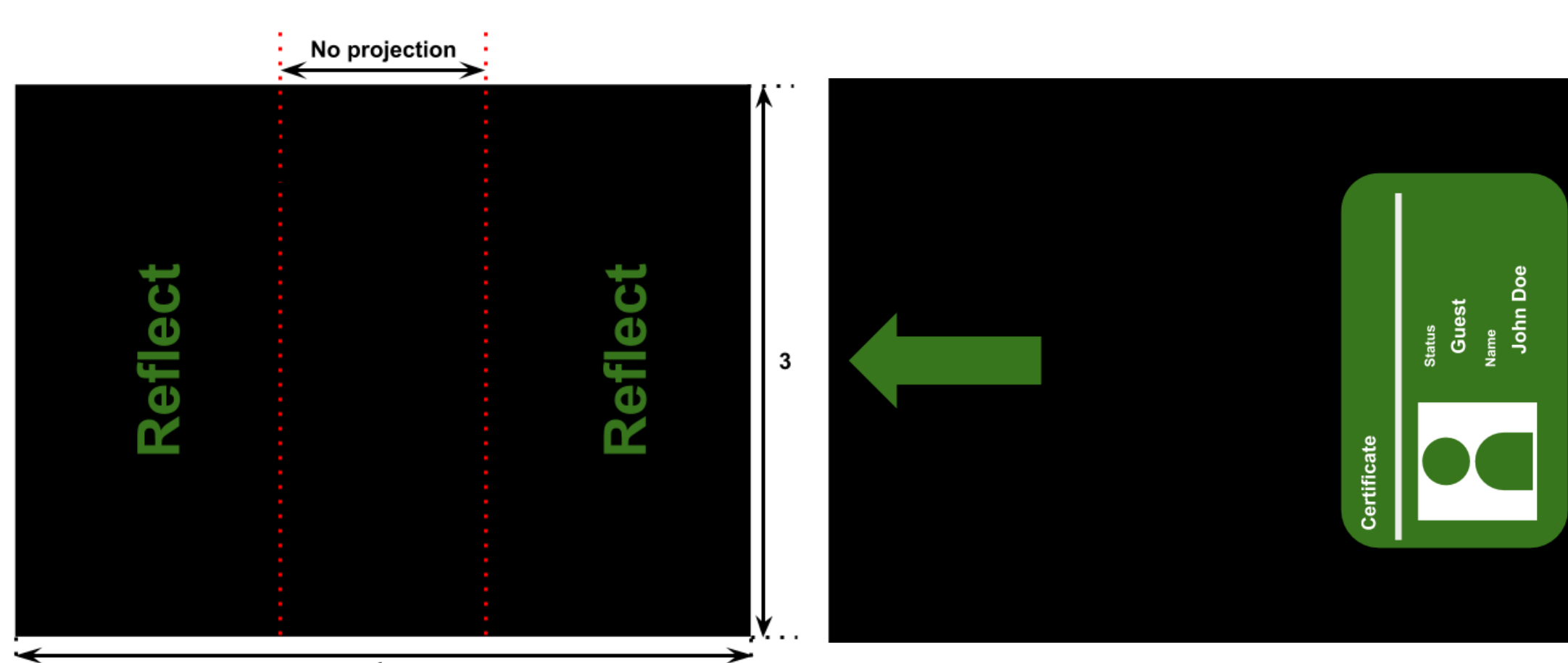
EGOSPACE | Bicycle Driving



DESIGN



Design blueprint of the proposed device (left) and our developed prototype (right)



Design specification of projection images (left) and a sample image for route navigation (right).

Future Works

- ❖ Stable Hand-Mounted Device
- ❖ Omnidirectional Wearable Projection
- ❖ More applications and interaction designs