Post-Study Questionnaire „PEARL" / Interview questions

Date, Time: _____   Expert ID:_____

General 1/2
1. What is your general impression of using *Augmented Reality* to support movement data analysis?
    o   Does it help to integrate augmented visualizations into the environment?
2. General User Experience
    o   What was your impression of working with the PEARL prototype?
    o   How did you feel while working with the presented prototype? Did you have fun, was it frustrating, …? (Engagement)

Physical Referents
1. What do you think about characterizing the space or the objects as the AOI as the workflow/ method for movement analysis?
    o   Does it help you to better understand how people moved and how did they interact with objects?
2. How do you think about the interaction techniques for working with lenses?

Filter
1. What did you like/dislike about filters?
    o   Is this function easy to understand, or is it too complex? *Why?*
    o   Does it help you narrow down the search scope? Does it help you find interesting observations?
2. What about complex filters with logical operations?
    o   Can you imagine a scenario using complex filtering like combining multiple filters?
    o   Is there any data filtering possibility that you would wish to have/use?

Visualization (superimposed; floor embedded; situated InfoVis; spatial-temporal vis)
1. What did you like/dislike about these visualizations?
2. How do you imagine using these visualizations?
    o   Do you suggest some particular order of viewing visualizations?
    o   Do you often need/ want to switch between visualizations? And is that important for you to view multiple views or visualizations at once, for instance, trajectories plus sequence view?
3. What do you think about the placement of visualizations?
    o   How do you think about superimposed vis overlapping on the objects? Does it help you to embed visualization on the associated objects? Does it cause perception occlusion?
    o   How do you think about the situated InfoVis side-by-side to objects? What else complex data can you imagine fitting in this visualization?
4. What do you think of floor-embedded visualizations?
    o   Are these visualizations help you find a pattern/ a trend/ an outlier?
    o   Is there anything else interesting, aside from visitor transition, approaching, staying, speed, etc., to visualize in order to understand movement?

General 2/2
1. Future features:
    o   What tools do you currently use to achieve the same?
    o   Could you imagine using this or a similar and enhanced tool in the future?
    o   What else features or components did you wish would be available to you? or
    o   In which way could the system be enhanced for the goal of understanding movement data?
2. Future use case
    o   Can you see other use cases besides the presented scenario here?
        ▪   to analyze the movement of other objects, such as robots, and drones?