

Post-experiment

What is your participant number?

Fidelity questionnaire

How aware were you of the surrounding world while wearing the AR headset (i.e. sounds, temperature, other people etc.)

1. Extremely aware	2	3	4	5	6	7. Not aware at all
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How real did the virtual objects seem to you?

1. Completely real	2	3	4	5	6	7. Not real at all
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

AR experience

	1. Fully disagree	2	3	4	5	6	7. Fully agree
I had the sense of being in the real world, rather than begin in a virtual world	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was not aware of my surroundings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt that the virtual assets belonged in the surrounding environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt present in the surrounding space	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I paid attention to my surroundings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It felt like I was in a virtual world	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It felt like I was perceiving pictures/video	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was completely captivated by the virtual objects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1. Fully disagree	2	3	4	5	6	7. Fully agree
I felt like I was playing a game	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
While wearing the AR headset, I behaved in the same manner as I would have in a real situation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How much did your experience through the AR headset seem consistent with your real world experience?

1. Not consistent	2	3	4	5	6	7. Very consistent
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How real did the augmented objects seem to you (i.e. car, traffic interfaces etc.)?

1. Imaginary	2	3	4	5	6	7. Realistic
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I did not feel present in the surrounding environment.

1. Not present	2	3	4	5	6	7. Present
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

While wearing the AR headset, I had the sense of "being there".

1. Not at all	2	3	4	5	6	7. Very much
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Is there anything else you would like to comment about your experience?

Interface preference

Which interface do you prefer the most? Please drag and drop one interface in each box.

Reference images:

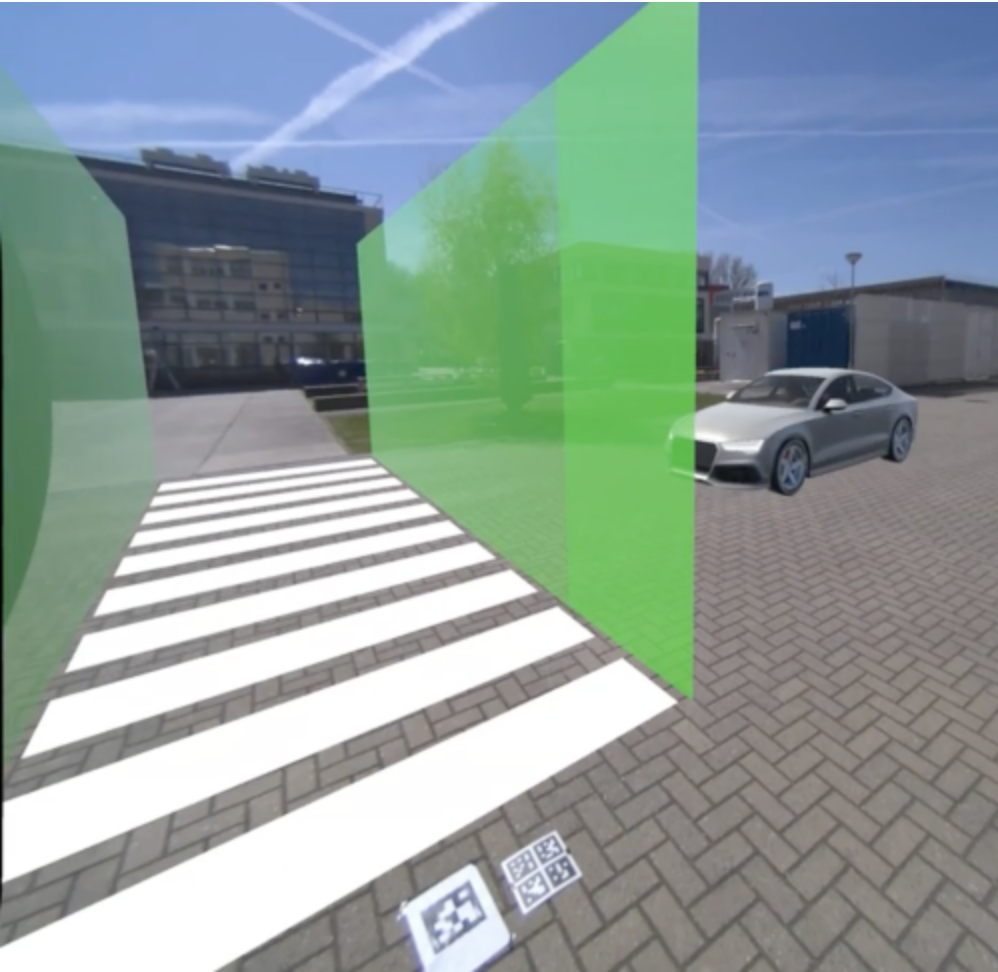
[Virtual fence](#)

[Pedestrian signal - fixed](#)
[Pedestrian signal - HUD](#)
[Planes on vehicle](#)

	First choice (most preferred)	Second choice
None (Baseline)		
Virtual fence & zebra		
Fixed pedestrian signal		Third choice
HUD pedestrian signal		
Planes-on-vehicle	Fourth choice	Fifth choice (least preferred)

Virtual Fence

Virtual Fence



Rate the following questions

	1. Fully disagree	2	3	4	5	6	7. Fully agree
The GREEN interface was intuitive for signaling "Please cross the road"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The GREEN interface convinced me to cross the road.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1. Fully disagree 2 3 4 5 6 7. Fully agree

The RED interface was intuitive for signaling "Please do NOT cross the road"

☐ ☐ ☐ ☐ ☐ ☐ ☐

The RED interface convinced me NOT to cross the road.

☐ ☐ ☐ ☐ ☐ ☐ ☐

I trust the interface to make a decision based on the interface

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was triggered too early or too late?

1. Too early 2 3 4 5 6 7. Too late

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was too small or too large?

1. Too small 2 3 4 5 6 7. Too large

☐ ☐ ☐ ☐ ☐ ☐ ☐

How clear (understandable) was the interface to you?

1. Very unclear	2	3	4	5	6	7. Very clear
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How visually attractive is this interface to you?

1. Very unattractive	2	3	4	5	6	7. Very attractive
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Acceptance: Please rate the interface based on the scale below

	1	2	3	4	5
Useful - Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pleasant - Unpleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad - Good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nice - Annoying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective - Superfluous	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Irritating - Likeable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assisting - Worthless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4	5
Undesirable - Desirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raising alertness - Sleep-inducing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please add a few words to justify your choices above (eg. comment on the shape, colour, functionality, and the clarity of the interface).

Fixed Pedestrian Signal

Pedestrian Signal - Fixed



Rate the following questions

	1. Fully disagree	2	3	4	5	6	7. Fully agree
The GREEN interface was intuitive for signaling "Please cross the road"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The GREEN interface convinced me to cross the road.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1. Fully disagree 2 3 4 5 6 7. Fully agree

The RED interface was intuitive for signaling "Please do NOT cross the road"

☐ ☐ ☐ ☐ ☐ ☐ ☐

The RED interface convinced me NOT to cross the road.

☐ ☐ ☐ ☐ ☐ ☐ ☐

I trust the interface to make a decision based on the interface

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was triggered too early or too late?

1. Too early 2 3 4 5 6 7. Too late

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was too small or too large?

1. Too small 2 3 4 5 6 7. Too large

☐ ☐ ☐ ☐ ☐ ☐ ☐

How clear (understandable) was the interface to you?

1. Very unclear	2	3	4	5	6	7. Very clear
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How visually attractive is this interface to you?

1. Very unattractive	2	3	4	5	6	7. Very attractive
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Acceptance: Please rate the interface based on the scale below

	1	2	3	4	5
Useful - Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pleasant - Unpleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad - Good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nice - Annoying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective - Superfluous	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Irritating - Likeable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assisting - Worthless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4	5
Undesirable - Desirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raising alertness - Sleep-inducing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please add a few words to justify your choices above (eg. comment on the shape, colour, functionality, and the clarity of the interface).

HUD Pedestrian signal

Pedestrian Signal - HUD



Rate the following questions

	1. Fully disagree	2	3	4	5	6	7. Fully agree
The GREEN interface was intuitive for signaling "Please cross the road"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The GREEN interface convinced me to cross the road.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

1. Fully disagree 2 3 4 5 6 7. Fully agree

The RED interface was intuitive for signaling "Please do NOT cross the road"

☐ ☐ ☐ ☐ ☐ ☐ ☐

The RED interface convinced me NOT to cross the road.

☐ ☐ ☐ ☐ ☐ ☐ ☐

I trust the interface to make a decision based on the interface

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was triggered too early or too late?

1. Too early 2 3 4 5 6 7. Too late

☐ ☐ ☐ ☐ ☐ ☐ ☐

Do you think the interface was too small or too large?

1. Too small 2 3 4 5 6 7. Too large

☐ ☐ ☐ ☐ ☐ ☐ ☐

How clear (understandable) was the interface to you?

1. Very unclear	2	3	4	5	6	7. Very clear
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How visually attractive is this interface to you?

1. Very unattractive	2	3	4	5	6	7. Very attractive
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Acceptance: Please rate the interface based on the scale below

	1	2	3	4	5
Useful - Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pleasant - Unpleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad - Good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nice - Annoying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective - Superfluous	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Irritating - Likeable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assisting - Worthless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4	5
Undesirable - Desirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raising alertness - Sleep-inducing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please add a few words to justify your choices above (eg. comment on the shape, colour, functionality, and the clarity of the interface).

Planes-on-vehicle

Planes-on-vehicle



Rate the following questions

	1. Fully disagree	2	3	4	5	6	7. Fully agree
The GREEN interface was intuitive for signaling "Please cross the road"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The GREEN interface convinced me to cross the road.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1. Fully disagree	2	3	4	5	6	7. Fully agree
The RED interface was intuitive for signaling "Please do NOT cross the road"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The RED interface convinced me NOT to cross the road.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I trust the interface to make a decision based on the interface	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do you think the interface was triggered too early or too late?

1. Too early	2	3	4	5	6	7. Too late
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Do you think the interface was too small or too large?

1. Too small	2	3	4	5	6	7. Too large
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How clear (understandable) was the interface to you?

1. Very unclear	2	3	4	5	6	7. Very clear
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How visually attractive is this interface to you?

1. Very unattractive	2	3	4	5	6	7. Very attractive
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Acceptance: Please rate the interface based on the scale below

	1	2	3	4	5
Useful - Useless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pleasant - Unpleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad - Good	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nice - Annoying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Effective - Superfluous	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Irritating - Likeable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assisting - Worthless	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1	2	3	4	5
Undesirable - Desirable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Raising alertness - Sleep-inducing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please add a few words to justify your choices above (eg. comment on the shape, colour, functionality, and the clarity of the interface).

AR-interfaces in the future

Rate the following questions about the use of AR interfaces

	1. Fully disagree	2	3	4	5. Fully agree
The AR interfaces are useful for making a decision whether to cross the road or not	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I trust the AR interface to help me make my decision about when to cross	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	1. Fully disagree	2	3	4	5. Fully agree
I prefer interfaces mapped to the road rather than on the vehicle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I prefer interfaces that move around with my head rather than interfaces that stay fixed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would like to have the ability to customize the AR interfaces	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In general I trust such an AR system to communicate the correct information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If I would own an AR headset, I would be willing to use the AR interfaces as an aid for road crossing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>