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Virtual reality increases the safety of
children and teenagers in road traffic

PAPS-XR | Collision Zero

Children and teenagers are among the most vulnerable participants in road traffic, although they do not necessarily behave in the wrong way. Roughly 50 percent of accidents involving adolescents on bicycles or on foot are not caused by the adolescents themselves*.

Within the PAPS-XR project («Public Accident Prevention School with eXtended Reality»), accident researchers, engineers and psychologists worked together to develop the accident prevention system of the future. The resulting virtual reality module allows users to experience real accident events in virtual space.

The project aims at helping young traffic participants to better detect and assess dangers in road traffic. To achieve this, real accident scenarios involving bicycle riders and pedestrians are simulated using VR glasses. At the computer-generated 3D accident site, the observers can assume the points of view of motorized traffic participants and experience how they interact with each other in dangerous situations.

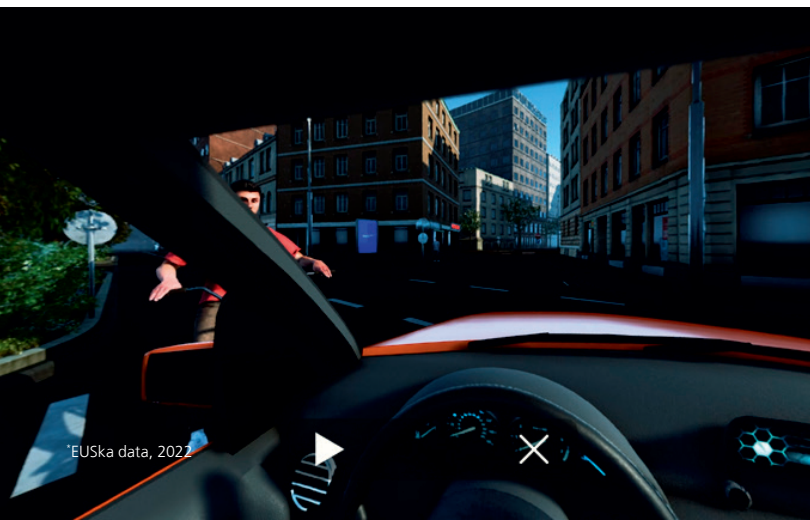
The Collision Zero follow-up project, which is based on the results from PAPS-XR and on accident data provided by public authorities, pursues the goal of developing the first national online VR experience platform offering interactive perspectives of animated accident events using virtual reality in 3D map surroundings.



Virtual reality allows safe experimenting within real accident scenarios.«

Nora Strauzenberg,
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