Presentation of a Traffic Safety Assessment Model Method - SSAM

The presentation lists some modern models used to assess traffic safety, paying special attention to an increasingly widespread traffic safety assessment tool based on the model method, i.e. SSAM (Surrogate Safety Assessment Model). The traffic safety analysis of a road or road network segment using this model method is based on a microscopic traffic model whose precision ensures high-quality SSAM analysis. The SSAM software analyses individual vehicle trajectories exported from the microscopic model and outputs the various interactions between individual vehicles as well as a list of all potential traffic accidents. The presentation will show all the possible analyses and results of such a traffic safety analysis.

The theoretical part of the presentation shown in the first part of the presentation will also be illustrated by a concrete example, a connection road between the north and south bypass roads in Bled together with both roundabouts. A microscopic model has been created for the case, as well as a simulation using PTV Vision, Vissim 5.40 software. The microscopic model was used as a basis for the SSAM traffic safety analysis, the results of which will be shown at the presentation. The results were used to improve the solution used by the main project.
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