

# CRITICALITY IDENTIFICATION SYSTEM (CRISYS)

**CriSys is a software framework for criticality assessment of traffic scenarios**

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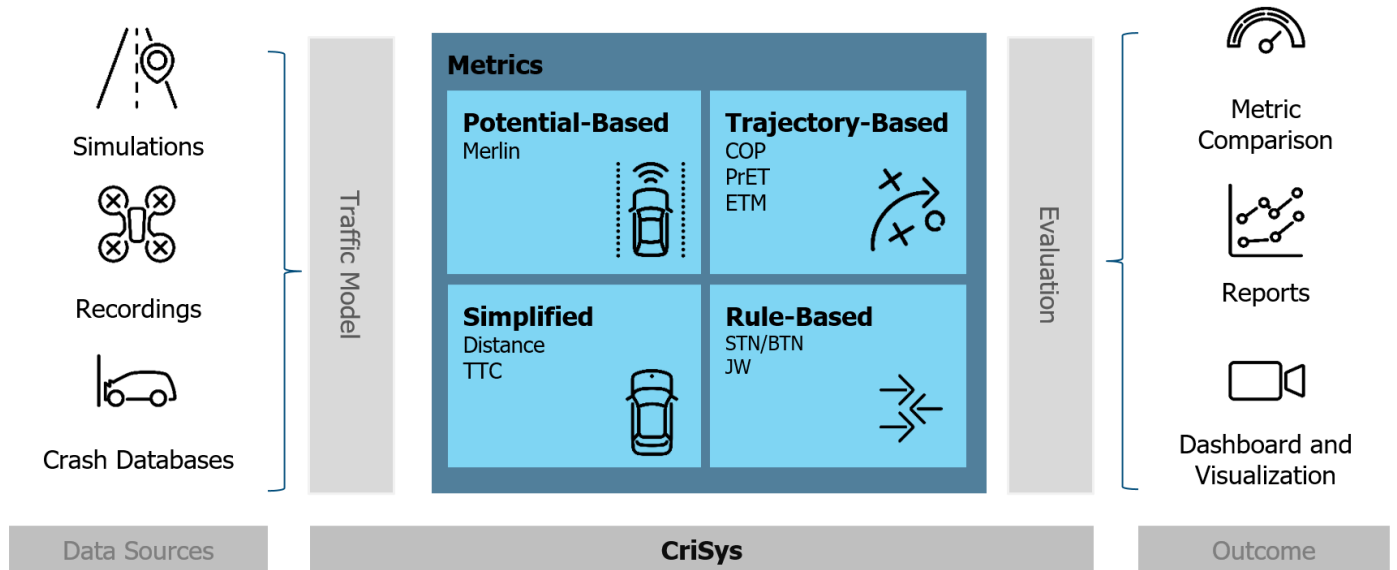


Figure 1: CriSys architecture

**CriSys** allows state-of-the-art criticality metrics to be applied to trajectory data from various sources, e.g., in the **GIDAS**, **openPASS** and **OMEGA** format. It also allows new approaches to be developed, such as **MerLin** and **ETM**. For criticality investigations, visualization and comparison tools are provided.

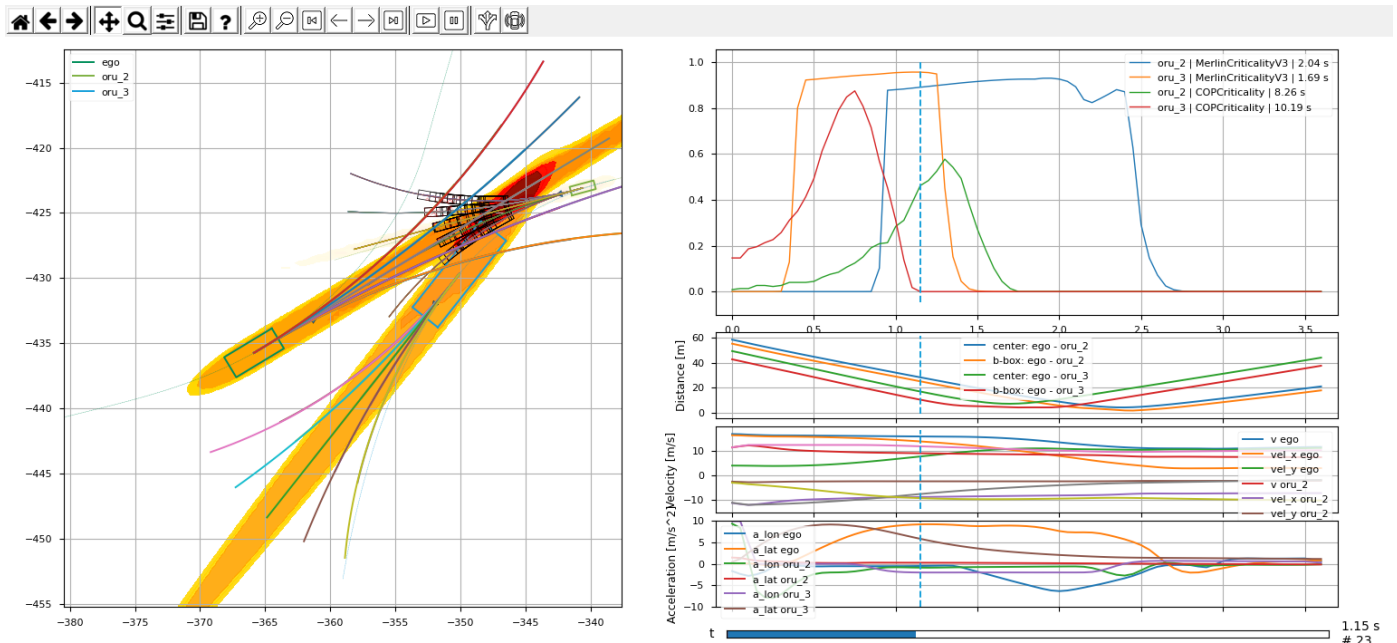


Figure 2: CriSys dashboard: Evaluation of two criticality metrics for a VVM functional use case

## Use Cases

As a criticality phenomena research tool, **CriSys** allows for the implementation of criticality metrics. Within the **VVM** project, the functional use cases are investigated, and metrics are compared. Moreover, **CriSys** extends to a **KPI** framework, e.g., for crash severity and injury probability analysis and allows for straightforward integration into **ADS** validation toolchains. It can be used as standalone application, web application or Python library.

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