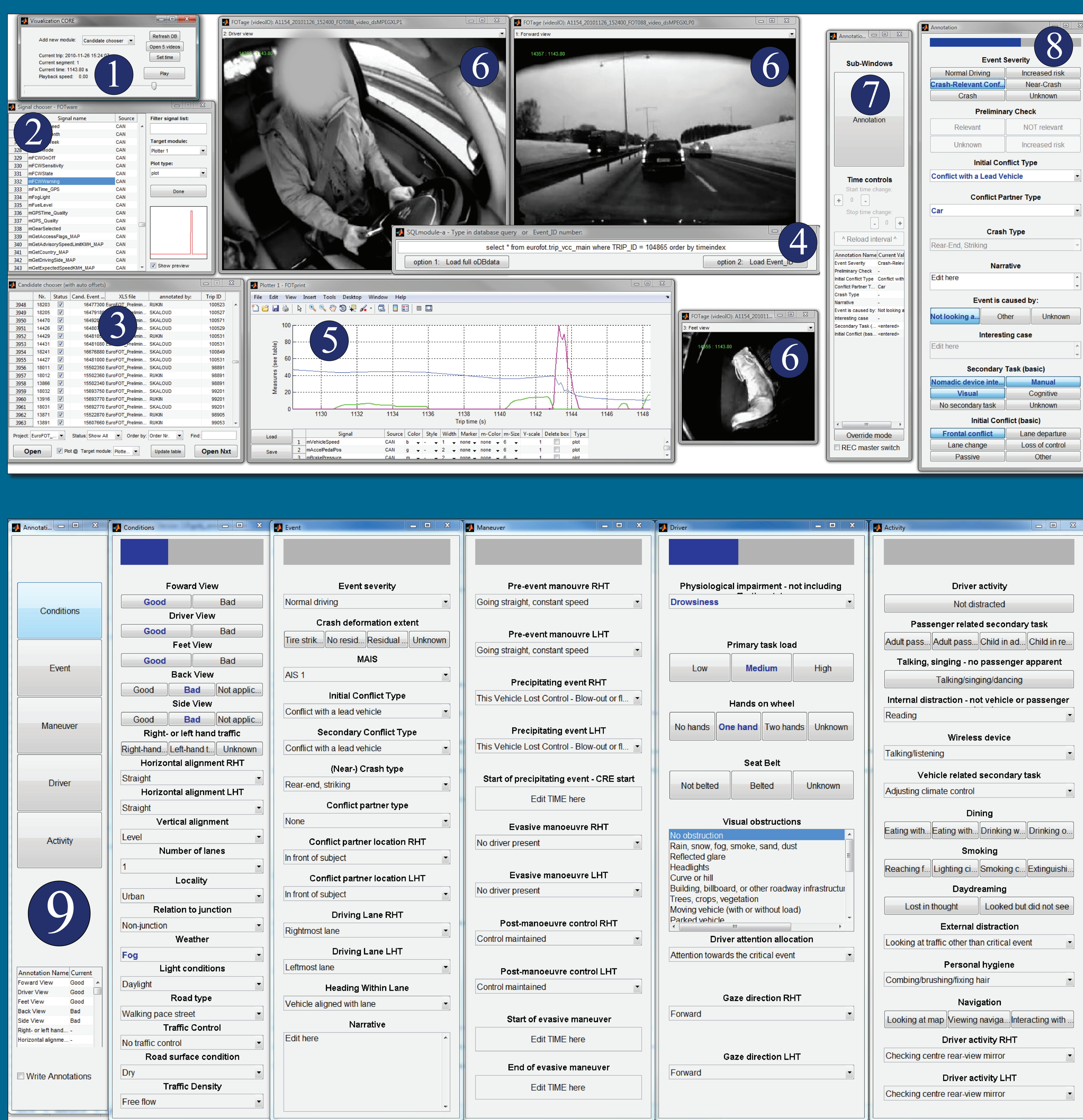




Bringing intelligent vehicles to the road

Data Analysis Tool at the Swedish Vehicle Management Centre

FOTware is an analysis tool for naturalistic data. It is an object oriented application with a flexible core and customised modules, built using Matlab®. FOTWare can replay a trip or an event by displaying camera views (five in this implementation), and graphically visualise synchronised information about the vehicle performance, state of systems and driver/vehicle interactions. There is also a module for manual video annotation in order to validate computed events and annotate identified safety critical events and baseline.



1. **Main module:** To choose what modules to view and, with a slider, navigate in the trip.
2. **Signal chooser:** To choose what measures to visualize in the Signal visualiser.
3. **Candidate chooser:** Shows the list of available Safety Critical Event (SCE) candidates (from database – found by kinematic triggers) for the annotators to validate safety relevance.
4. **SQL query module:** Enables SQL queries to be run directly on the database with the continuous in-vehicle data. Results in a list of trips from which a specific trip can be chosen to be visualised.
5. **Signal visualiser:** A time-history viewer of measures with synchronised indication (vertical line) of what the video panes (6) are showing.
6. **Video panes:** Windows for visualisation of the collected video. The analyst can in (1) choose what videos to show.
7. **Annotation main:** The main window for annotation control.
8. **Annotation candidate:** The interface for annotators to validate safety relevance of candidate Safety Critical Events (SCEs).
9. **Annotation full:** Highly flexible tool for manual video annotation. For complete SCE event annotation. Customisable using configuration files.

