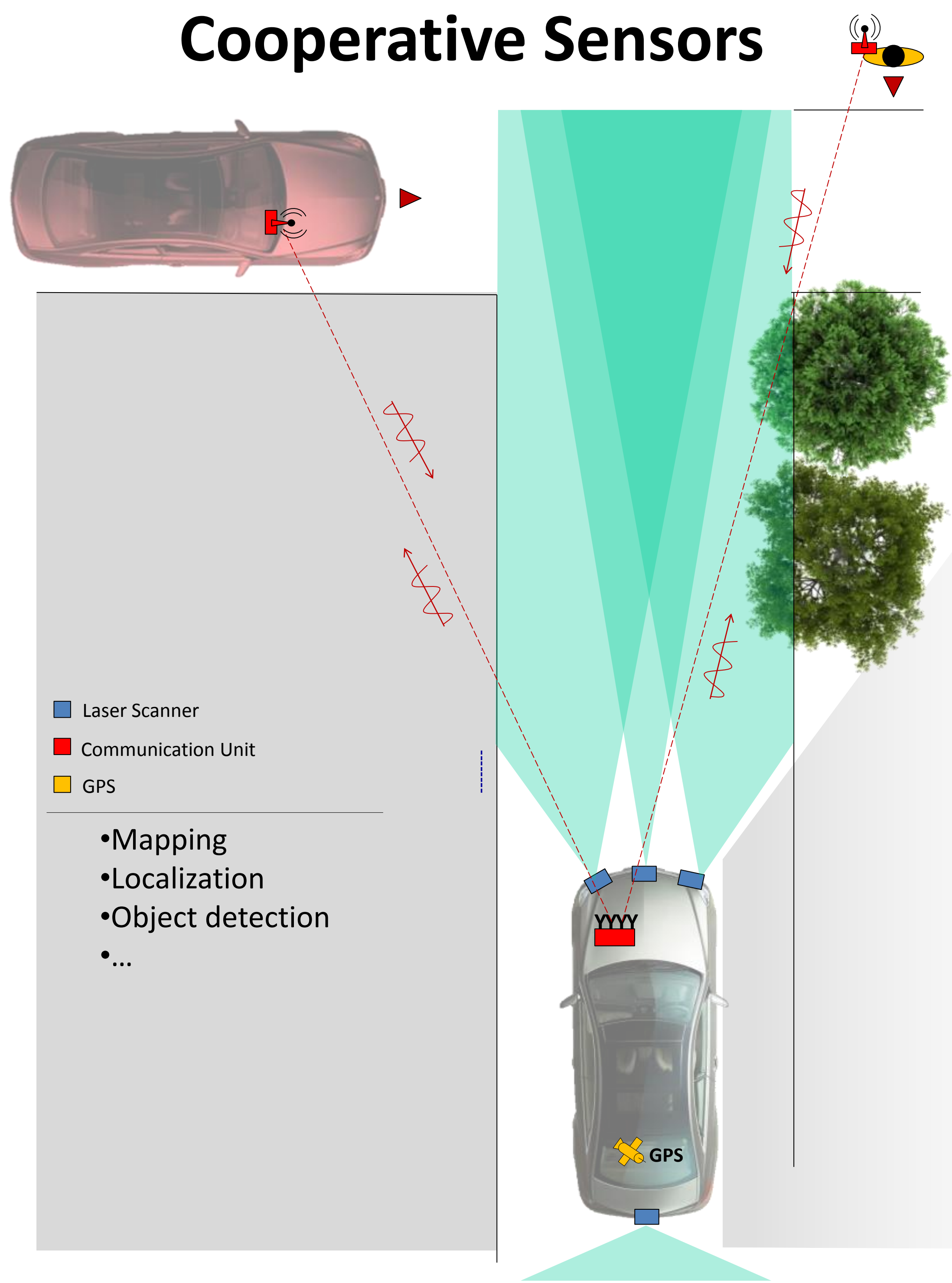
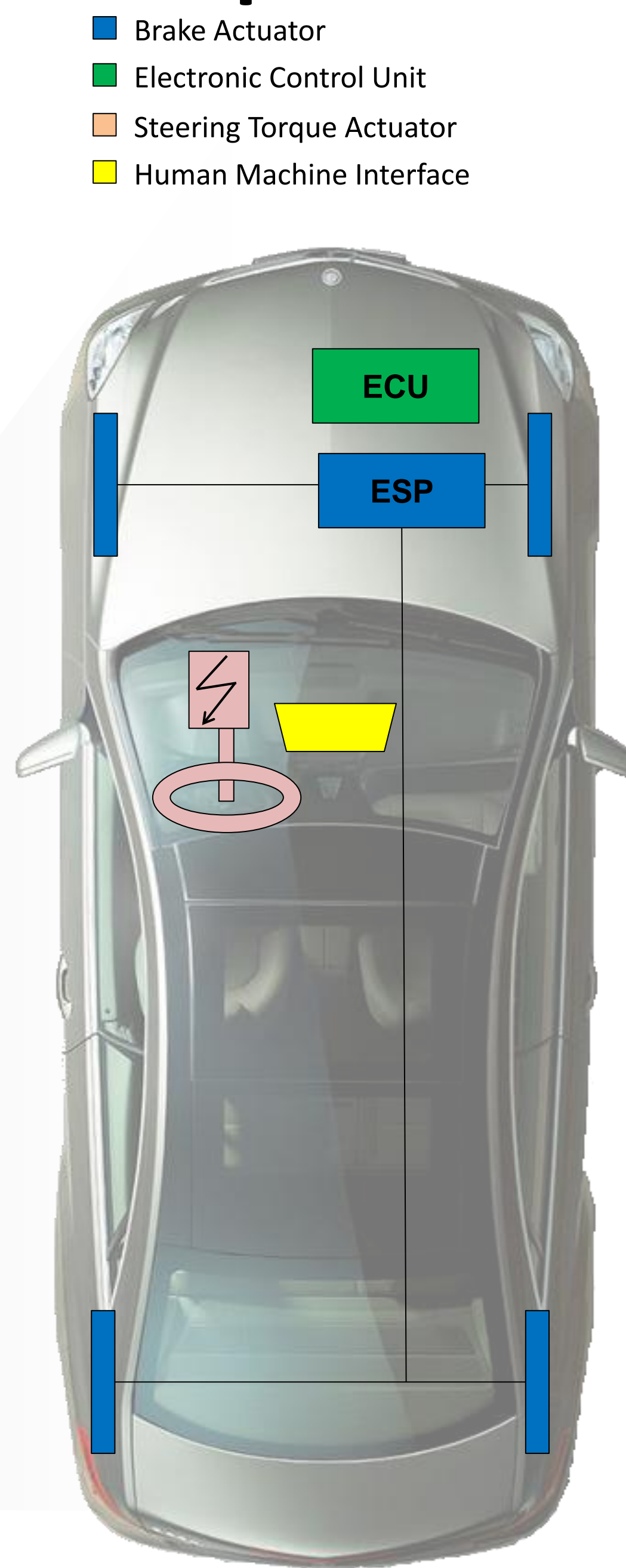




Cooperative Sensors



Other Essential Components



System Benefit

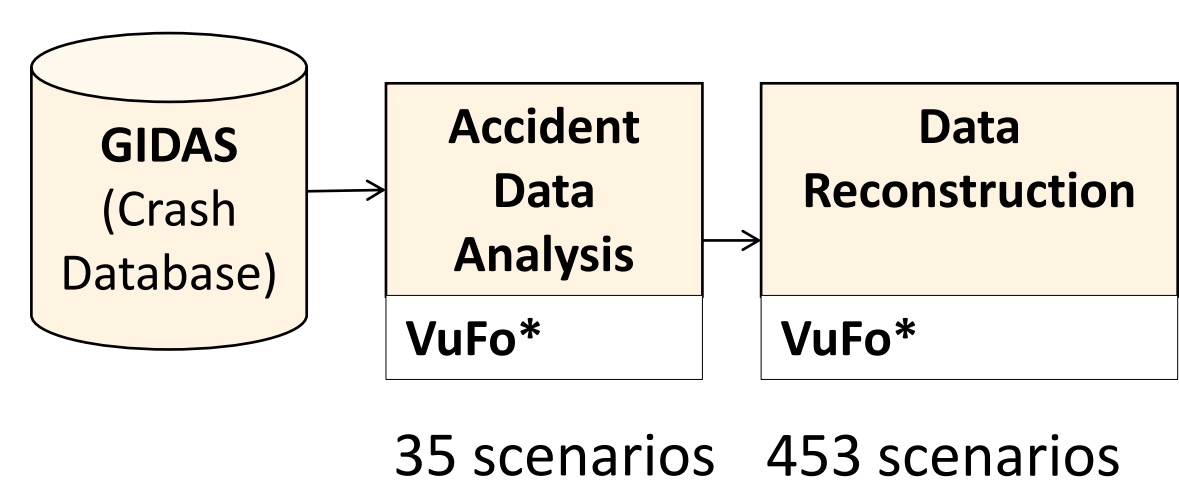
- Precise environment perception
- Early detection of hidden obstacles
- Reliable and early information about acceleration of obstacles
- Early recognition of critical traffic situations
- Take advantage of maximal transmittable wheel forces
- Situation dependent active reaction of system

- Collision avoidance or mitigation by preventive measures
- Optimization of the crash compatibility

Reducing the number of

- death,
- seriously injured,
- slightly injured
- and also physical damages

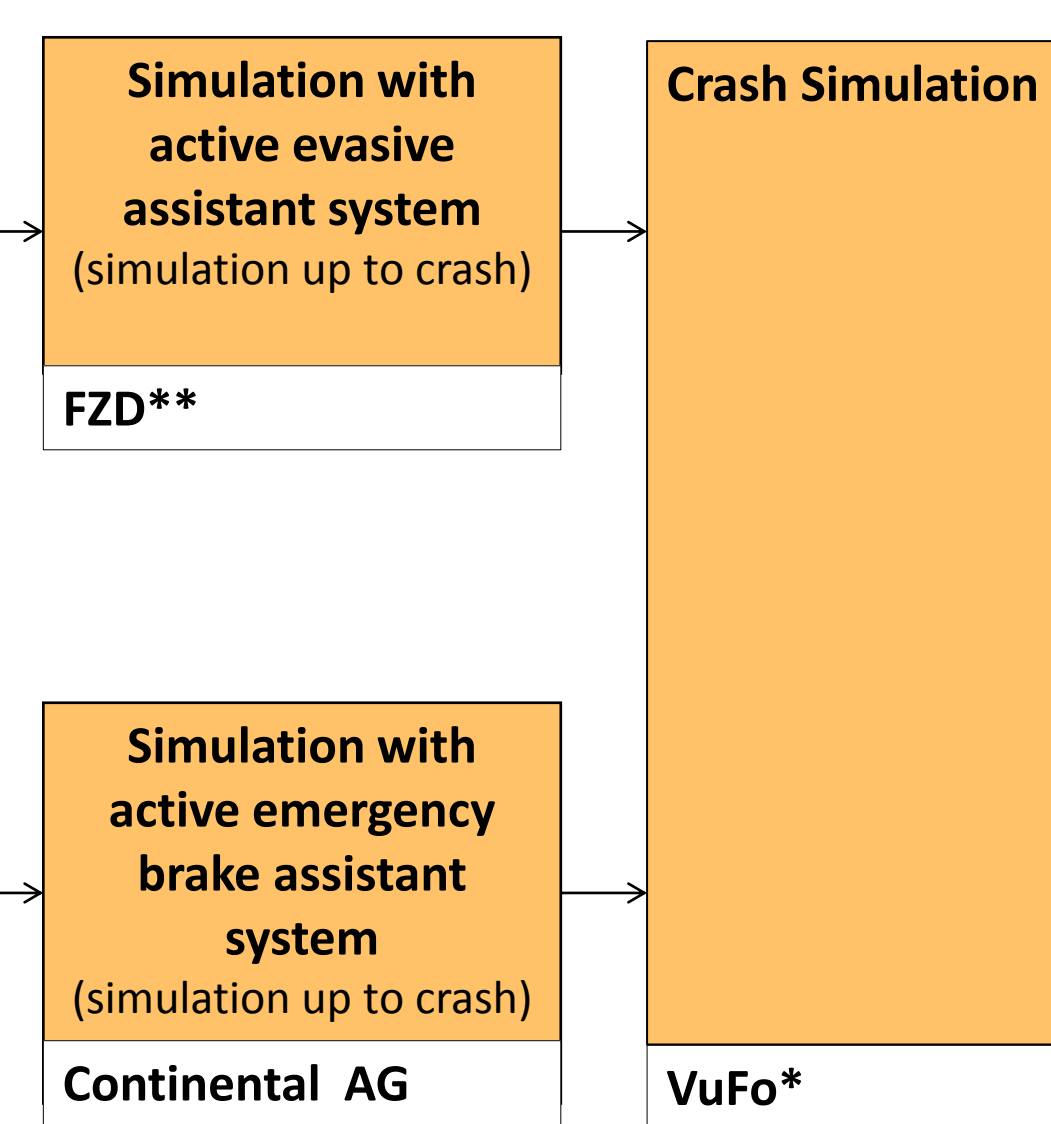
Pre-Processing Data Preparation



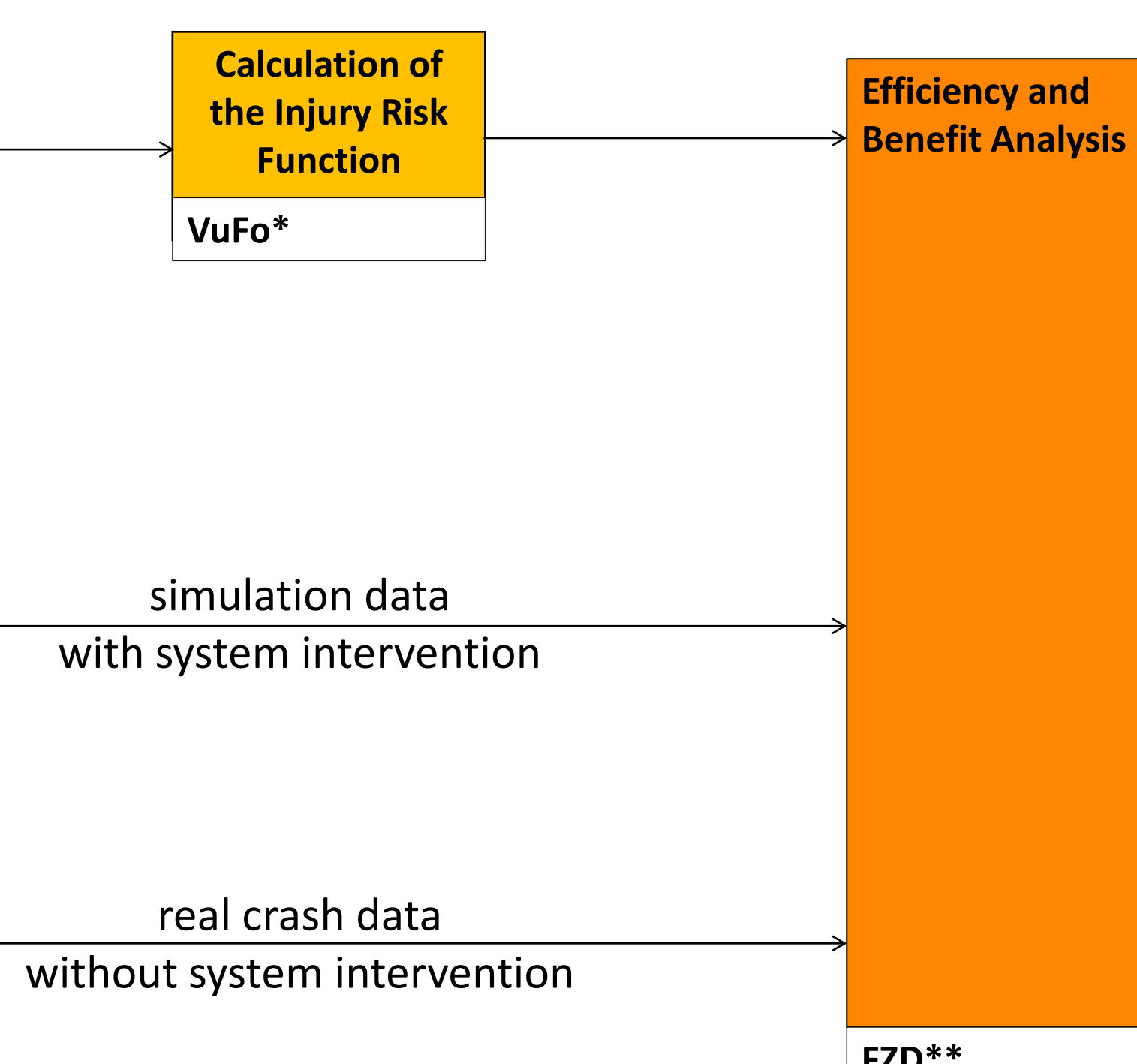
* VuFo: Die Verkehrsunfallforschung an der TU Dresden
** FZD: Fachgebiet Fahrzeugtechnik der TU Darmstadt

Simulation

Pre-crash and In-crash



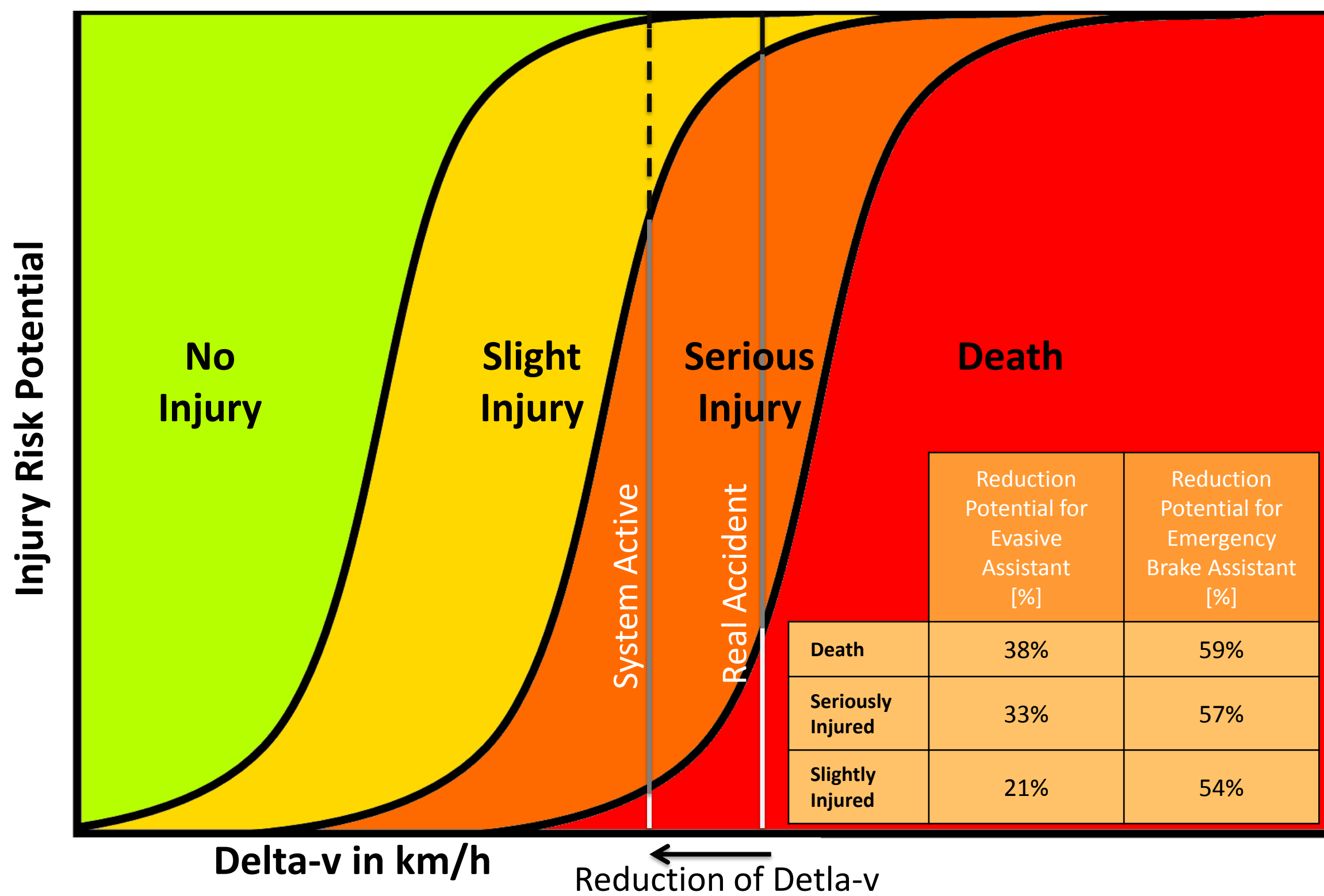
Post-Processing Data Analysis



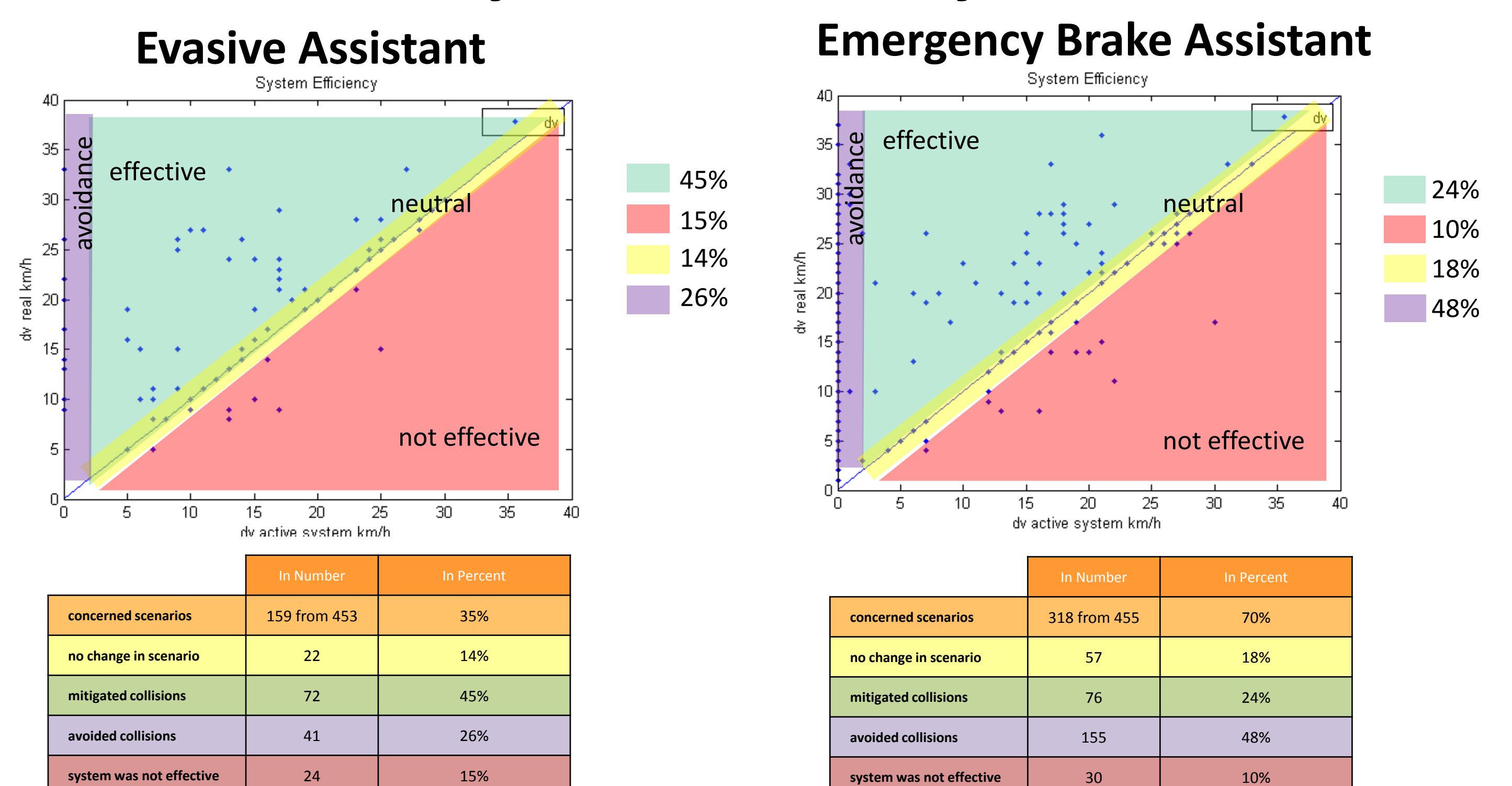
- 453 Crash Scenarios, 906 Vehicles and 1654 Persons are taken into account.
- Number of scenarios concerned for
 - evasive assistant is 159 (~35%)
 - and for emergency brake assistant is 318 (~70%)

	In year 2011	Evasive Assistant with full market penetration	Emergency Brake Assistant with full market penetration
Number of Death	125	78	51
Number of Seriously Injured	3500	2356	1502
Number of Slightly injured	28200	22354	12972

Reduction of Injury Risk Potential with System Intervention



System Efficiency



Supported by: