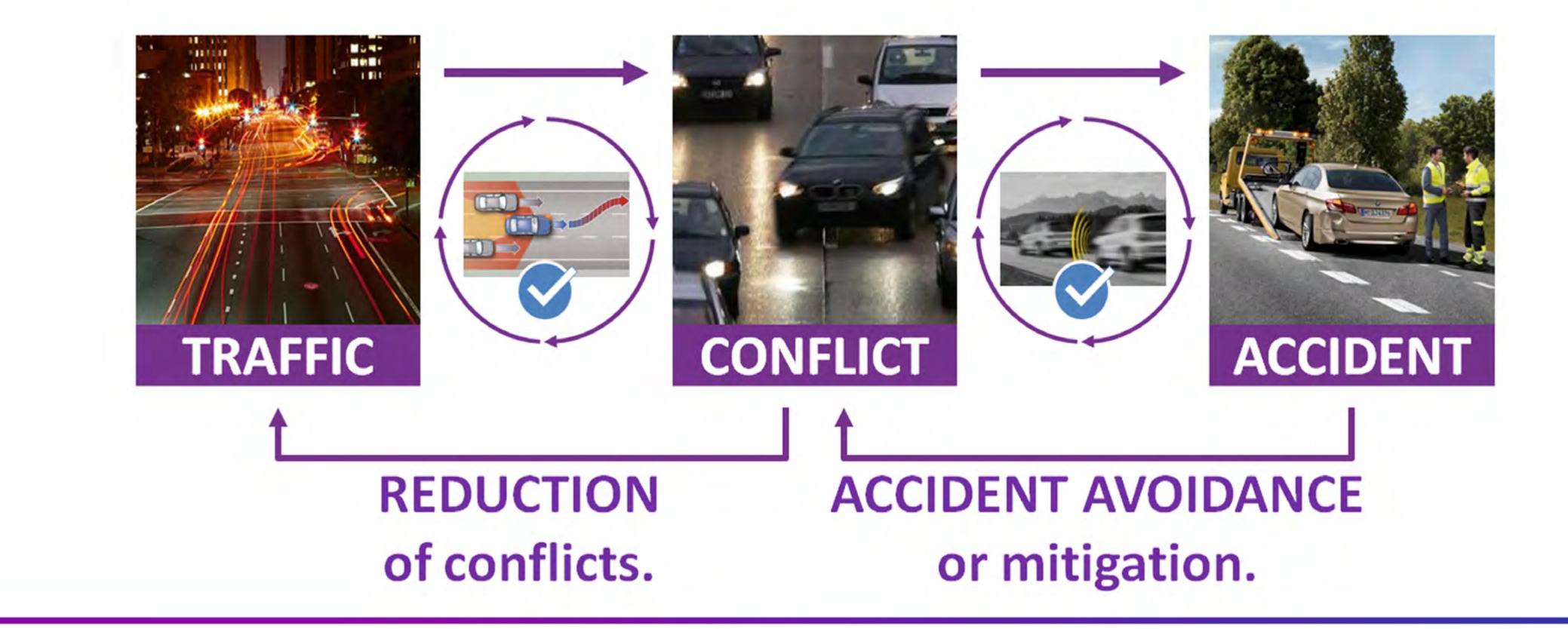




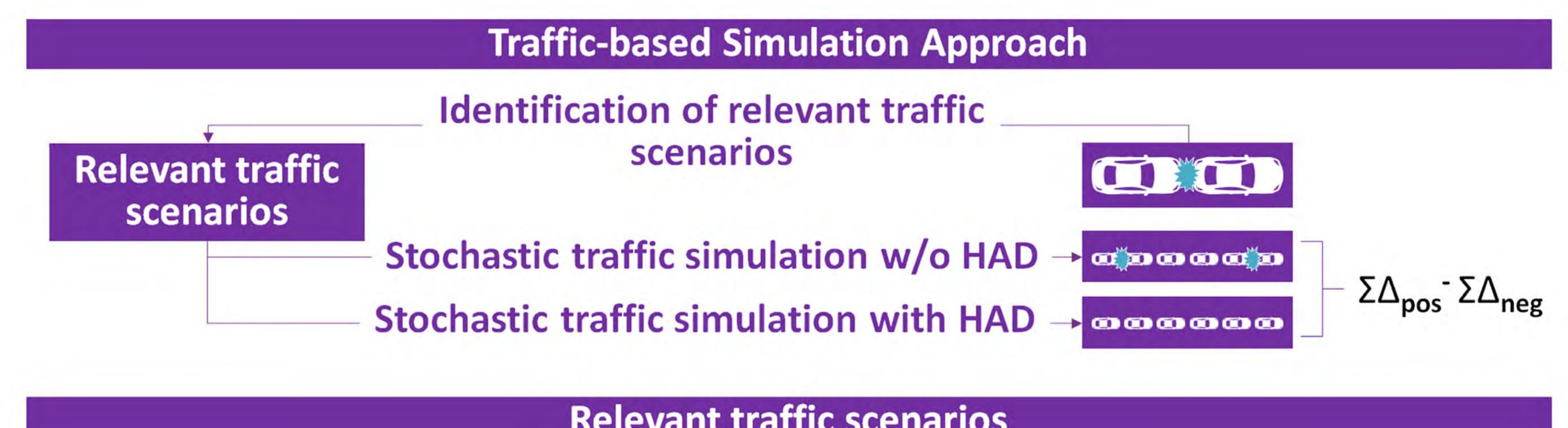
# Prospective Effectiveness Assessment

## ANALYSIS OF POTENTIAL EFFECTS OF AUTOMATED AND COOPERATIVE DRIVING ON TRAFFIC SAFETY

#### ACCIDENT AS A PROCESS OF INTERACTING FACTORS



#### METHODOLOGY & SCENARIOS

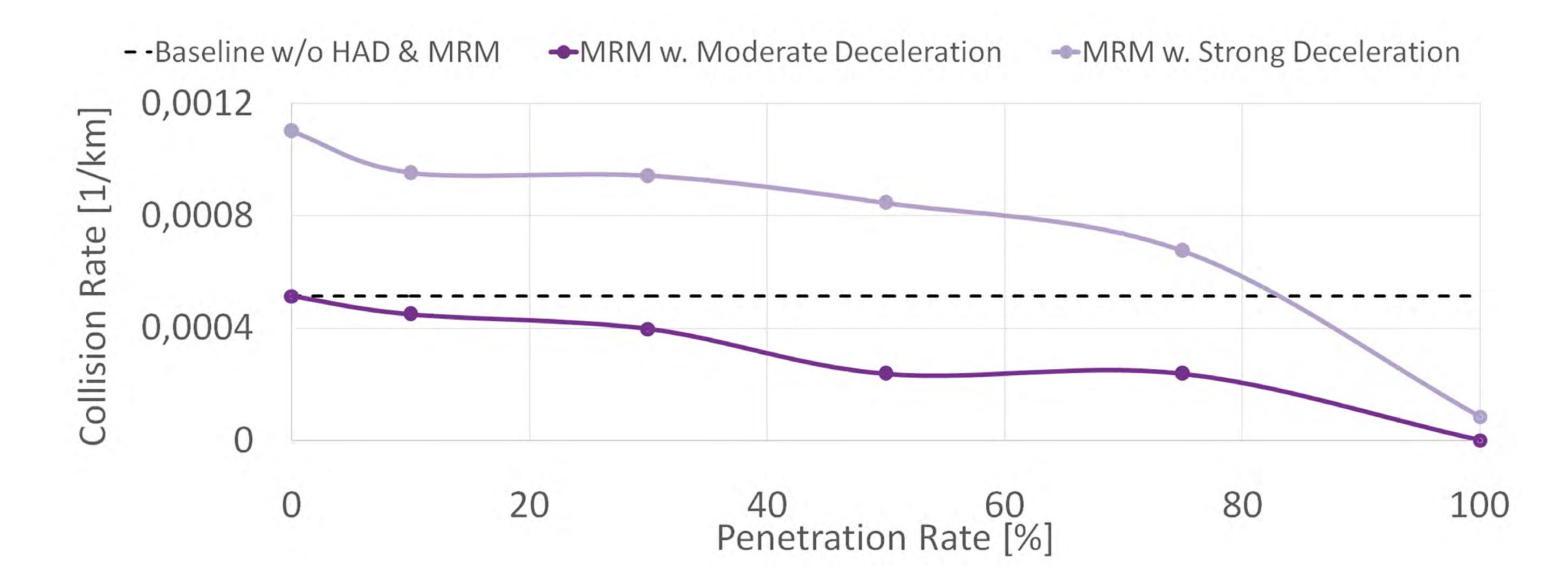


	Rele	vant traffic scena	irios	
Highway Entrance	End of Lane	Obstacle in Lane	Approaching Traffic Jam	Minimum Risk Manoeuvre

### RESULTS

#### **Example: Minimum Risk Manoeuvre Scenario**

- Simulation conducted with different penetration rates of cooperative HAD vehicles.
- Comparison of two MRMs that consider only braking within the lane (moderate deceleration vs. strong deceleration).
- Main risk for the simulated MRM are collisions with the rear traffic.



- For a MRM with strong deceleration an increased risk of a collision compared with the baseline without any HAD vehicles is detected; this additional risk can be compensated with high penetration rate of cooperative HAD vehicles.
- For a MRM with moderate deceleration no additional risk is detected.
- However, in order to achieve a MRM with a moderate deceleration higher technical efforts including better sensors and lager planning horizon need to be taken.



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