

OICA/CLEPA Input




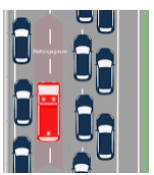

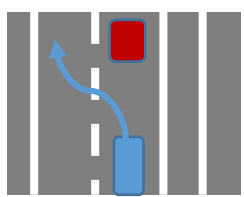
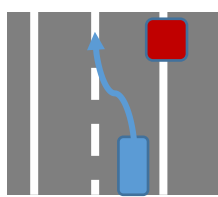
to the

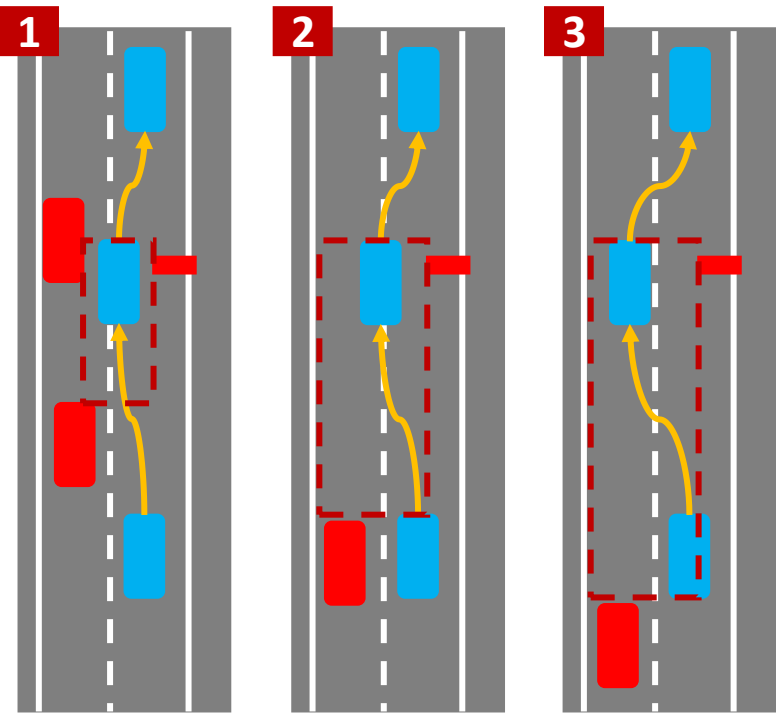
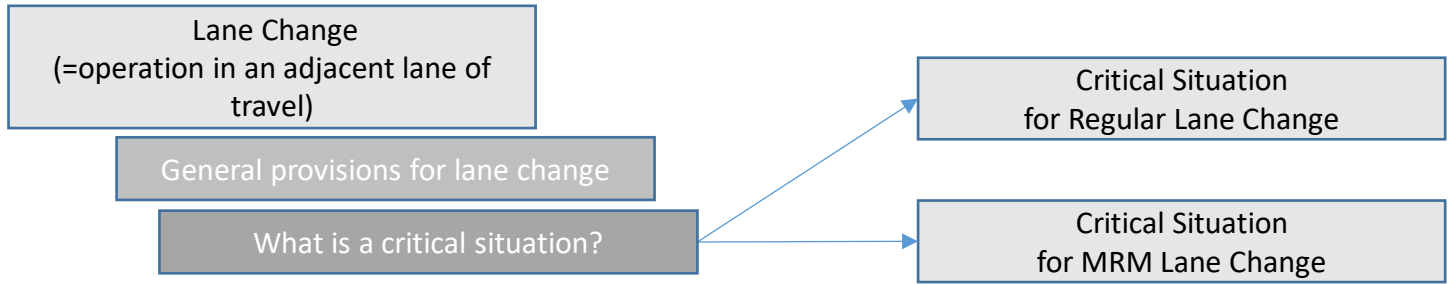
Special interest group on UN-R 157

with regard to

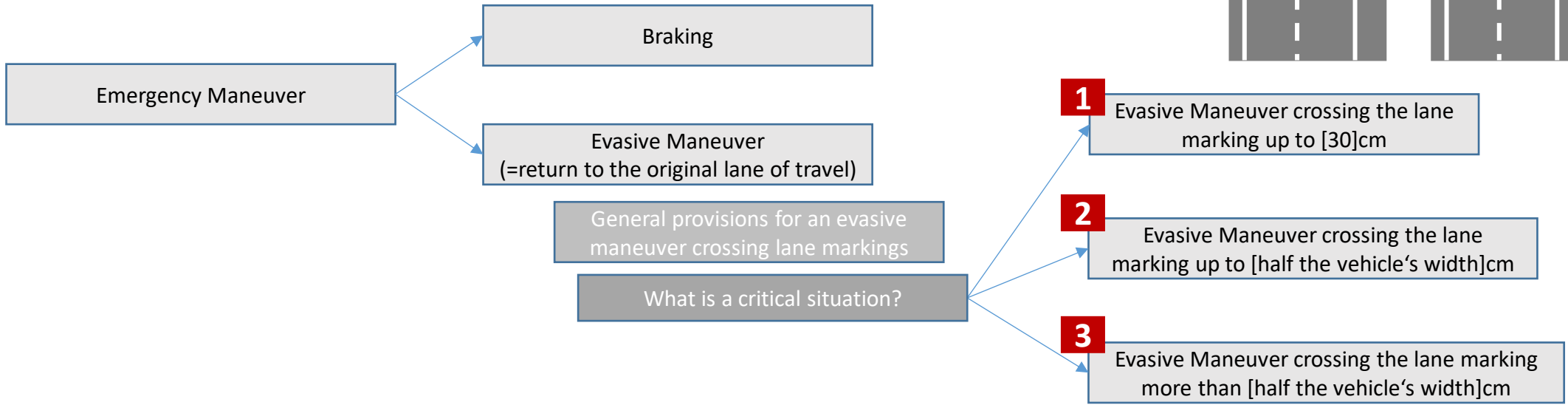
Different types of lane crossing manoeuvres

ALKS types of manoeuvres leading the vehicle to cross lane markings

	A	B	C	D	E	F	G
	Regular Lane Change		MRM Lane Change	Manoeuvre crossing lane markings		Evasive Steering crossing lane markings during an Emergency Manoeuvre	
1	Regular lane change („optional“)		Regular lane change („required“)			Emergency Lane Change	Emergency evasive manoeuvre crossing lane markings
2							
3	Operation can in principle be continued in the current lane, lane change is performed to e.g. maintain cruise speed, follow traffic rules		Operation cannot be continued in the current lane	Lane Change that is performed during an MRM (a) MRM lane change across regular traffic lanes (a1) MRM lane change to a lane intended for slower traffic (a2) MRM lane change to a lane intended for faster traffic (b) MRM lane change to the hard shoulder	Examples: (a) Forming an access corridor for emergency vehicles (b) Moving the vehicle off the road as far as possible during an MRM	A maneuver aimed at avoiding a collision with an obstacle, by creating a lateral offset. ALKS vehicle will continue operation in the adjacent lane.	A maneuver aimed at avoiding a collision with an obstacle, by creating a lateral offset. ALKS vehicle will continue operation in the original lane.

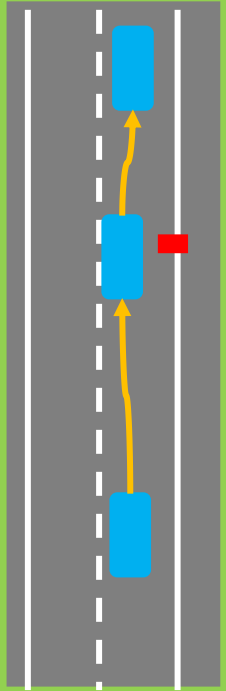


Identical as for [MRM] lane change

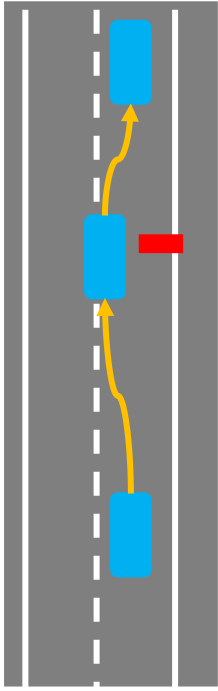


Regular maneuver crossing lane markings??
See next slides

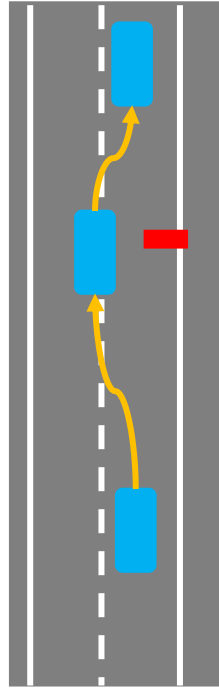
ALKS types of manoeuvres leading the vehicle to cross lane markings



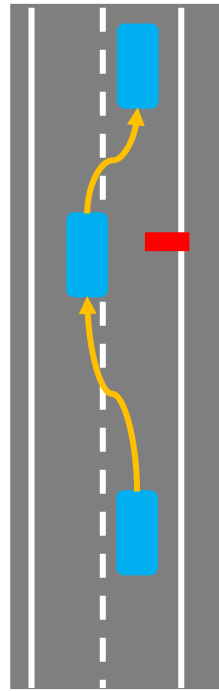
Evasive steering without crossing lane markings



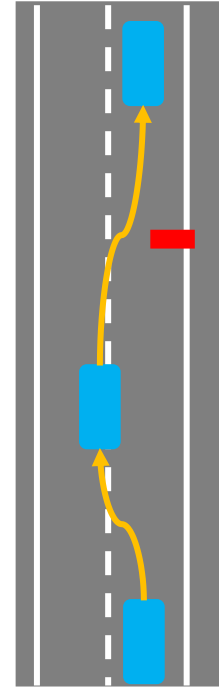
Evasive steering with up to [30cm] crossing of lane markings



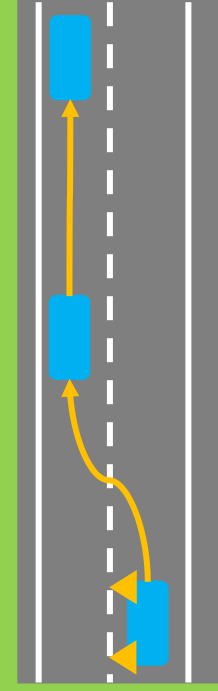
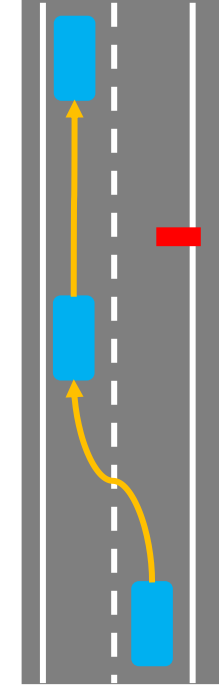
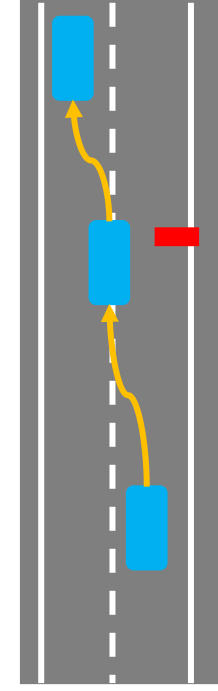
Evasive steering with up to [half the vehicle's width] crossing of lane markings



Evasive steering with more than [half the vehicle's width] crossing of lane markings



Is criticality really relevant?



Regular Lane Change

How far the vehicle enters the adjacent lane influences the required freespace.

As the ALKS does not return to its original lane, the criticality assessment shall be the same as that for a lane change.

ALKS types of manoeuvres leading the vehicle to cross lane markings

