



CAREC Road Safety and Sustainable Mobility Course

February 2024

Primary and Supporting Safe System Treatments

'Primary' and 'Supportive' Safe System treatments

Primary treatments reliably prevent or minimize death and serious injury (either by preventing crashes, or by dissipating crash energy to such that serious injury cannot occur)

Supportive treatments reduce the likelihood and/or severity of crashes. They are typically incremental and/or temporary.

'Primary' and 'Supportive' Safe System treatments

Crash type	Primary Treatments	Supportive Treatments
Run-off-road	Remove hazards (clear zone)	Interim speed reduction but not to 50km/h impact
	Roadside and center barriers	Improved shoulder provision
	Speed reduction to achieve 50km/h impact	Audio tactile edgelines
Head-on	Separation by duplication or center barriers	ITS collision avoidance systems that alert motorists
	Convert to a one-way road	Wide painted medians
Intersection	Grade separation	Regulatory restriction of movement
	Speed reduction at or below 50 km/h	Vehicle activated speed limit signs
	Roundabout	