Virtual vs Physical Validation

	Physical Test	Simulation	Dynamic Simulator
Set Up	Specific Vehicle Set up	Parametrized Vehicle Set up	Parametrized Vehicle Set up
Evaluation	• Driver Subjective evaluation	Objective evaluation	Objective & Subjective Evaluation (human in the loop)
Outputs	Driver Subjective evaluation	Objective outputs	Objective/subjective outputs
Test Conditions	Nonreplicable conditions	Replicable conditions	Replicable conditions to evaluate the performances
Iterations	• Expansive and time-consuming Iterative tests	 Iterative test at computation time 	 Iterative test at computation time
Critical Tests	Safety risk for operatore	No operator risk	No operator risk
Maneuvers	Difficult to repeat	Standard and repeatable	Standard and repeatable

