## Two types of functional limit

Human driver ensures safety

1

Humans take over driving.

Minimum Risk Maneuver

Ensure safety by slow normal control(e.g., stop and go, shoulder waiting, etc.)

Humans NOT take over driving.

Limits on the amount of time a human driver can request to be replaced with sufficient time.

Lv.3 foreseeable limit

ADS ensures safety without relying on human drivers

Minimum Risk Maneuver

Ensure safety by slow normal control(e.g., stop and go, shoulder waiting, etc.)

Difference between Risk and Hazard Risk = Hazard × probability (frequency)

Emergency Maneuver Emergency Hazard Avoidance



Do not depend on human drivers. Hazard avoidance with ADS

or

(The time of appearance)

cannot be foreseen

Unforeseen

or

Emergency Maneuver Emergency Hazard Avoidance