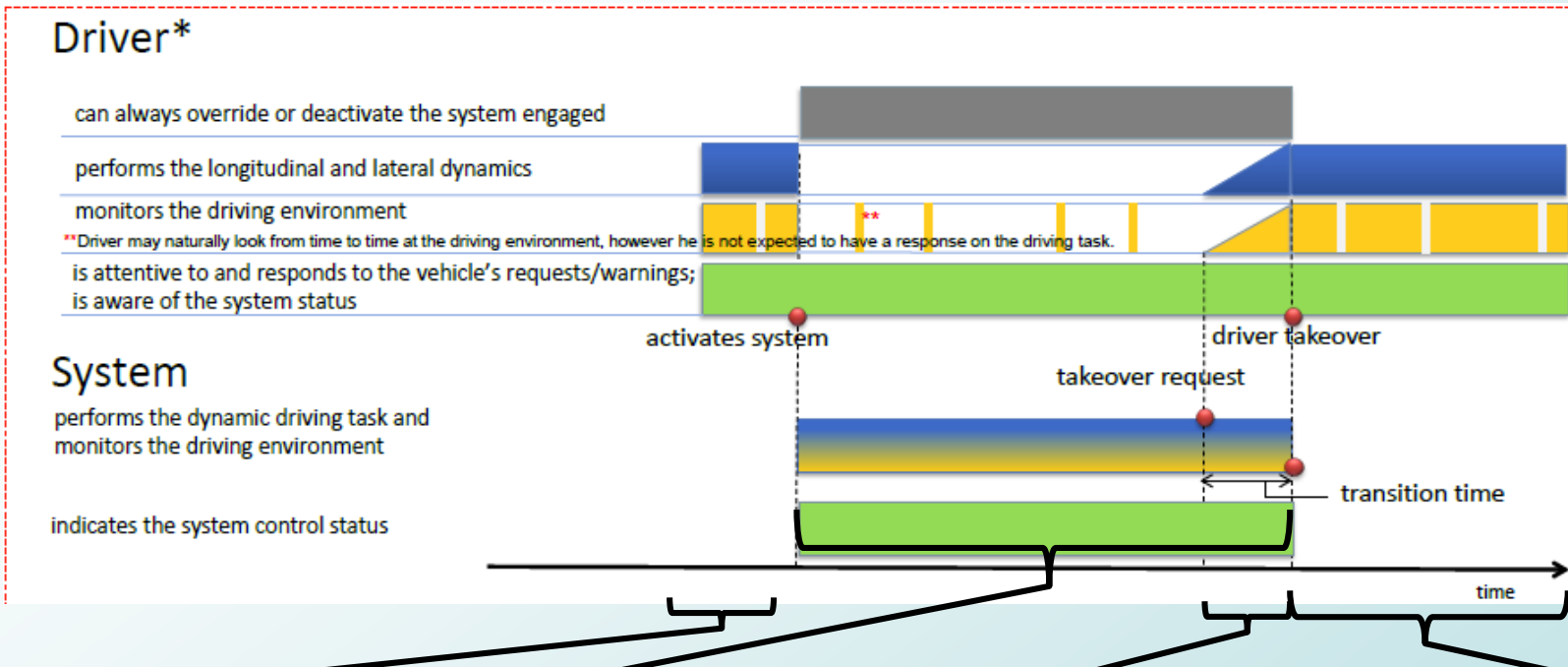# Conditional Automation (Level 3) Use-Case Description

Submitted by the Experts of OICA as Input to the IWG ITS/AD

November 3, 2015
Geneva

Level 3 system outline

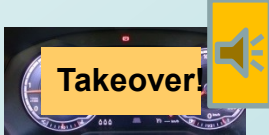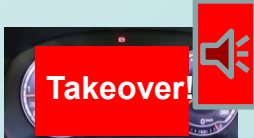| Status	System Off (Manual Driving)	Nominal system operation	Take over scenario(Warning cascade)		System OFF (Manual driving)
			Optional takeover request	Takeover demand	
Driver					
HMI (Example) / Text message (Example)	Lv3 Stand-by	Lv3 Activate	Take over!	Take over!	Lv3 Stand-by

Illustrated version for OICA Use-Case Description of Level 3

■ **Example A : Traffic Jam Function**

V=0-60km/h, Highway only, Same lane only,   preceding vehicle needed
Driver can always override the system.

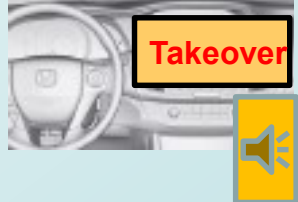|	Manual driving	Nominal system operation	Takeover scenario(Warning cascade)		Manual driving
			Optional takeover request	Takeover demand	
Driver	*L & L control Environment monitoring	Ready to resume to driving	takeover		*L & L control Environment monitoring
System	Stand-by	*L & L control Environment monitoring			Stand-by
HMI (Example)	Lv3 Stand-by	Lv3 Activate	Takeover! • Yellow or red cluster symbol • Text messages in the instrument cluster • Etc.	Takeover! • Red cluster symbol • Non-visual alert, like an acoustic or haptic alert	Lv3 Stand-by

*L & L control : Lateral & Longitudinal control

Illustrated version for OICA Use-Case Description of Level 3

■ **Example B : Motorway driving Function**

V=0-130km/h, Highway only, lane change include
Driver can always override the system.

	Manual driving	Nominal system operation	Takeover scenario(Warning cascade)		Manual driving
			Optional takeover request	Takeover demand	
Driver	*L & L control Environment monitoring	Ready to resume to driving	takeover		*L & L control Environment monitoring
System	Stand-by	*L & L control Environment monitoring			Stand-by
HMI (Example)	**Lv3 Stand-by**	**Lv3 Activate**	**Takeover** • Yellow or red cluster symbol • Text messages in the instrument cluster • Etc.	**Takeover** • Red cluster symbol • Non-visual alert, like an acoustic or haptic alert	**Lv3 Stand-by**

*L & L control : Lateral & Longitudinal control

Illustrated version for OICA Use-Case Description of Level 3

- ## Example B : Motorway driving Function - Takeover scenario

V=0-130km/h, Highway only, lane change include
Driver can always override the system.

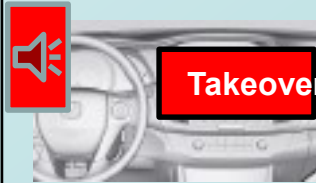|	Approaching Construction Zone (Warning cascade)		Weather(rain) become worse (Warning cascade)	
	Optional takeover request	Takeover demand	Optional takeover request	Takeover demand
Driver	takeover		takeover	
System	*L & L control Environment monitoring		*L & L control Environment monitoring	
HMI (Example)	Takeover • Yellow or red cluster symbol • Text messages in the instrument cluster • Etc.	Takeover • Red cluster symbol • Non-visual alert, like an acoustic or haptic alert	Takeover • Yellow or red cluster symbol • Text messages in the instrument cluster • Etc.	Takeover • Red cluster symbol • Non-visual alert, like an acoustic or haptic alert

*L & L control : Lateral & Longitudinal control