

## Driver Ontology.

<b>ONTOLOGY (DRIVER)</b>									
<b>Information need</b>	<b>Information element</b>	<b>Conditions/ Attribute</b>	<b>Value metrics</b>	<b>Value (blank)</b>	<b>Value threshold</b>	<b>From whom</b>	<b>To whom</b>	<b>Profile</b>	<b>Timing</b>
<b>3. Driver</b>	3.1 Driver personal data	3.1.1 Language for communication	<b>ISO Country code</b>			<b>DG vehicle</b>	<b>TMC</b>	<b>“Critical info”</b>	Real time; upon incident occurrence
						<b>DG vehicle</b>	<b>Infrastructure</b>	<b>“Passport”</b>	24 hours before time of arrival; booking time
						<b>DG vehicle</b>	<b>Police</b>	<b>“Enforcement”</b>	Real time; upon incident occurrence
						<b>DG vehicle</b>	<b>Emergency agencies</b>	<b>“Emergency”</b>	Real time; upon incident occurrence
						<b>DG vehicle</b>	<b>Other vehicles</b>	<b>“Warning”</b>	Real time; when incident communication takes place
	3.1.2 ADR Certificate origin	<b>ISO Country code</b>				<b>DG vehicle</b>	<b>TMC</b>	<b>“Critical info”</b>	Real time; upon incident occurrence
						<b>DG vehicle</b>	<b>Infrastructure</b>	<b>“Passport”</b>	24 hours before time of arrival; booking

## ONTOLOGY (DRIVER)

Information need	Information element	Conditions/ Attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing
									time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
		3.1.3 ADR Certificate Type	Text			DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
		3.1.4 Number of travel hours	Numeric value		ADR Directive and local restrictions	DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
		3.1.5 Number of rest hours	Numeric value		ADR Directive and local restrictions	DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
						DG vehicle	Police	“Enforcement”	Real time when below threshold
	3.2 Co-driver personal data	3.2.1 Qualified co-driver	Yes/No (boolean)			DG vehicle	TMC	“Critical info”	Real time; upon

## ONTOLOGY (DRIVER)

Information need	Information element	Conditions/ Attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing
									incident occurrence
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
						DG vehicle	Emergency agencies	“Emergency”	Real time; upon incident occurrence
						DG vehicle	Other vehicles	“Warning”	Real time; when incident communication takes place
		3.2.1 Language for communication	ISO Country code			DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence.
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
						DG vehicle	Emergency	“Emergency”	Real time;

## ONTOLOGY (DRIVER)

Information need	Information element	Conditions/ Attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing
							agencies		upon incident occurrence
						DG vehicle	Other vehicles	“Warning”	Real time; when incident communication takes place
		3.2.2 ADR Certificate origin	ISO Country code			DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence
		3.2.3 ADR Certificate Type	Text			DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence

## ONTOLOGY (DRIVER)

Information need	Information element	Conditions/ Attribute	Value metrics	Value (blank)	Value threshold	From whom	To whom	Profile	Timing	
		3.2.4 Number of travel hours	Numeric value			DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence	
						DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time	
						DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence	
		3.2.5 Number of rest hours	Numeric value				DG vehicle	TMC	“Critical info”	Real time; upon incident occurrence
							DG vehicle	Infrastructure	“Passport”	24 hours before time of arrival; booking time
							DG vehicle	Police	“Enforcement”	Real time; upon incident occurrence