

# SRTI alignment DATEX II - Alert C - TPEG - DENM

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Chair DATEX II Technical Group
Chair SRTI Working Group



# **EU Delegated Act**

- ITS Directive 2010
- EU Delegated Regulation 886/2013

6.8.2010 DIRECTIVE 2010/40/EU OF THE EUROPEAN PARLIANENT AND OF THE COUNCIL on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces Having regard to the Treaty on the Functioning of the Entronean Union and in narrienlar Art Having regard to the Treaty on the Functioning of the European Union, and in particular Article 91 thereof, L 207/1

18.9.2013 EN Official Journal of the European Union L 247/6

#### COMMISSION DELEGATED REGULATION (EU) No 886/2013

of 15 May 2013

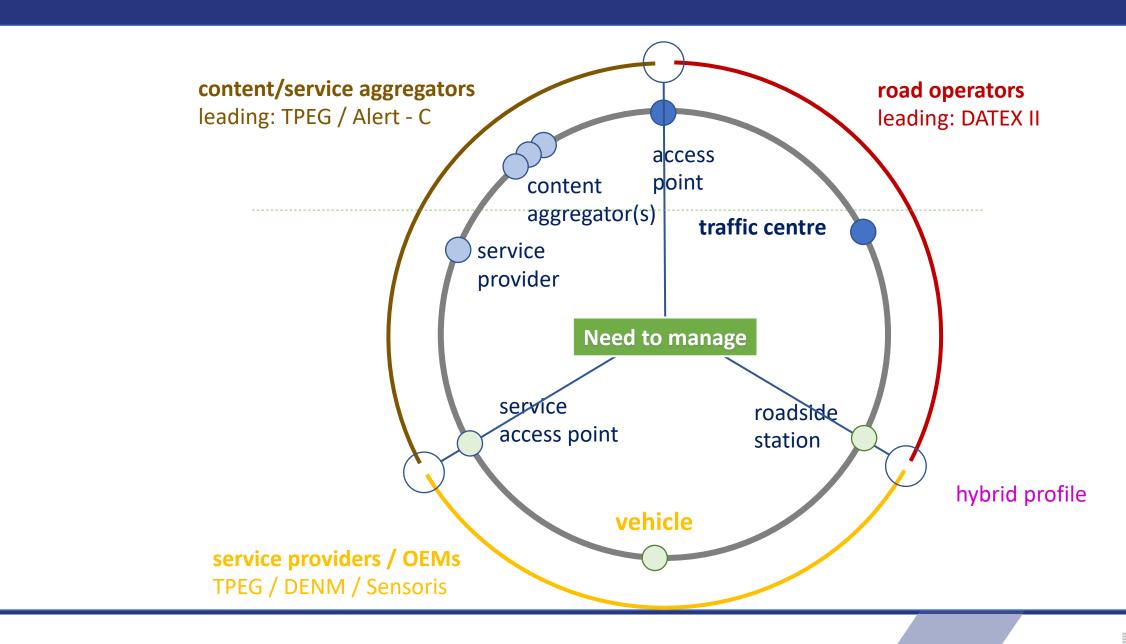
supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to data and procedures for the provision, where possible, of road safety-related minimum universal traffic information free of charge to users

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,







# The need to manage because

- Road safety is a confirmed joint responsibility of all actors
- Domains tend to overlap more and more
- The circle is not perfect
- Legal and formalised public responsibility of roadoperators has to be visible
- Collaboration and service feedback are key for effective provision of safety related information
- Key example of the will to collaborate as the basis for Standardisation, because all recognise the benefits





# **Mapping of SRTI events**

- Joint Working group of
  - TISA
  - DATEX II
  - AMSTERDAM Group
  - CAR2CAR communication consortium
  - Data for road safety group
  - C-ROADS to join.....
- Hosted by TISA
- Chaired by DATEX II
- Continuous proces for maintaining based on operations and extending both in content scope as in technologies







# Road safety-related events in 886

- (a) temporary slippery road;
- (b) animal, people, obstacles, debris on the road;
- (c) unprotected accident area;
- (d) short-term road works;
- (e) reduced visibility;
- (f) wrong-way driver;
- (g) unmanaged blockage of a road;
- (h) exceptional weather conditions.



# Version 1 and 2: an expert assesment of events for each category

Executive Office
Terms and definitions



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Safety related message sets –
Selection of DATEX II Codes, DENM Event Types, TPEG2-TEC
Causes and TMC Events for EC high level Categories

DATEX II (CEN/TS 16157)				TMC Events (EN ISO 14819-2)			TPEG-TEC (ISO/TS 21219-15)					DENM (ETSI EN 302 637-3)			
DATEX Class	TYPE	Supplementary Position Description	Line Text (CEN- English)		Code		Cause Code Sub Cause Code Warning Level		Warning Level	<b>Text</b> SubCauseCode trumps Cause Code	Cause Code	Sub Cause Code	<b>Text</b> SubCauseCode trumps CauseCode		
EnvironmentalObstruction	flooding		880	flooding. Danger	908		5	1	3	flooding	9	0	hazardous location - surface condition		
WeatherRelatedRoadConditions	surfaceWater		980	danger of aquaplaning	1002		7		3	aquaplaning	6	0	adverse weather condition -adhesion		
WeatherRelatedRoadConditions	surfaceWater		977	surface water hazard	1041		7		3	aquaplaning	6	0	adverse weather condition -adhesion		
WeatherRelatedRoadConditions	slipperyRoad		979	slippery road (above Q hundred metres)	1003		6		3	slippery road	6	0	adverse weather condition -adhesion		
NonWeatherRelatedRoad Conditions	mudOnRoad		981	mud on road. Danger	1055		6	3	3	mud on road	6	3	mud on road		
NonWeatherRelatedRoad Conditions	looseChippings		985	loose chippings. Danger	1056		6	8	3	loose chippings	6	8	loose chippings		
NonWeatherRelatedRoad Conditions	oilOnRoad		987	oil on road. Danger	1057		6	7	3	oil on road	6	7	oil on road		
NonWeatherRelatedRoad Conditions	petrolOnRoad		989	petrol on road. Danger	1058		6	2	3	fuel on road	6	2	fuel on road		
WeatherRelatedRoadConditions	ice		992	ice (above Q hundred metres)	1006		6	5	3	ice on road	6	5	ice on road		
WeatherRelatedRoadConditions	blackice		996	black ice (above Q hundred metres)	1008		6	6	3	black ice on road	6	6	black ice on road		
WeatherRelatedRoadConditions	snowDrifts		1006	snow drifts (above Q hundred metres)	1016		9	5	3	snow drifts	9	5	snow drifts		
WeatherRelatedRoadConditions	icyPatches		996	icy patches (above Q hundred metres)	1047		6	5	3	ice on road	6	5	ice on road		

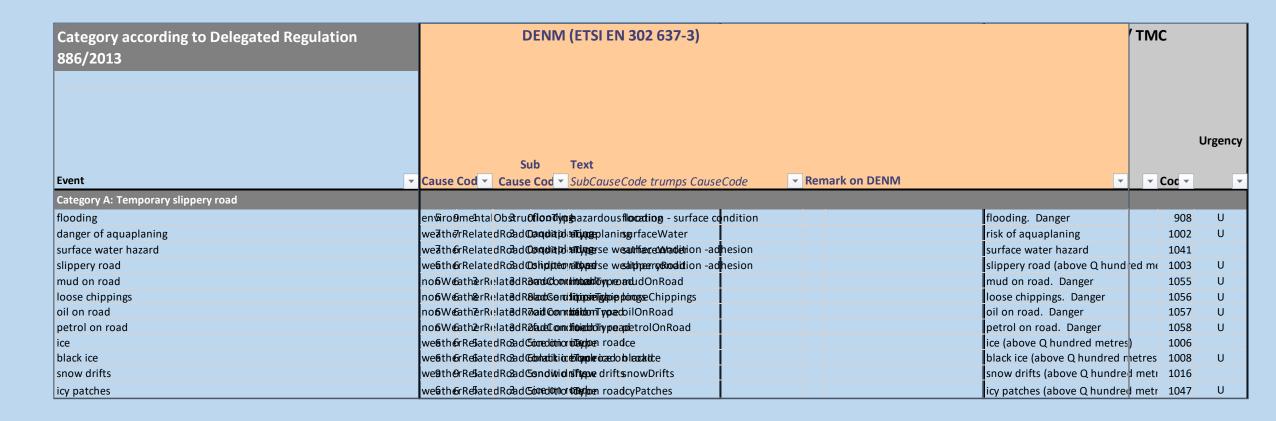


# Taking inventory of SRTI flagged events

accident involving lorry

			NEW												
Event		<b>▼</b> Comments <b>▼</b>		NL 🔻	NO 🔻	IT ▼	ES 🔻	SE 🔻	DK 🔻	GR ▼	PT ▼	LU 🔻	FR ▼	BE ▼	DE 🔻
Category A: Temporary slippery road															
flooding			10		Х	Х	Х	Х		Х	Х	Х	Х	Х	Х
danger of aquaplaning			4	Х					Х				Х		Х
surface water hazard			6	Х	Х			Х	Х	Х					Х
slippery road			8	Х	Х			Χ	Х	Х	Χ			Х	Х
mud on road			6	Х	Х				Х		Χ		Χ		Х
loose chippings			4					Х	Х				Х		Х
oil on road			10	Х	Х		Х	Х	Х	Χ	X		X	Χ	Х
petrol on road			6	Х			Х			X	Х		Х		Х
ice			9	Х	X		Х	Х	Х	Х	X	Х			Х
black ice			5	Х	Х					Х			Х		Х
snow drifts			6	X				X	Y		Х		Х		Х
icy patches	Category C Unprotected accident area														х
	unprotected accident area								3						
	accident						1	Ĺ.	8						
	accident involving bus						1	L	4						

# Revised Mapping of events to standards





# Joint working group SRTI 2020

- Joint Working group of
  - TISA
  - DATEX II
  - AMSTERDAM Group
  - CAR2CAR communication consortium
  - Data for road safety (known as Data Task Force)
  - C-ROADS to join.....
- Hosted by TISA
- Chaired by DATEX II
- Version 3



#### What we aim for:



Safety related message sets –
Selection of DATEX II Codes, DENM Event Types, TPEG2-TEC
Causes and TMC Events for EC high level Categories



#### Version 3 and what's next

- Version 3 published in february 2021
- 10 new events added based on operations of road operators in 16 MS
- Future work:
  - Impact of car as datasource
  - Full bi-directional mapping



## 10 events added to the list

<ul> <li>vehicle on fire</li> </ul>	6
<ul><li>accident</li></ul>	8
<ul> <li>accident involving bus</li> </ul>	4
<ul> <li>accident involving lorry</li> </ul>	4
<ul> <li>rescue and recovery work</li> </ul>	5
<ul> <li>snowploughs in action</li> </ul>	6
<ul><li>serious fire</li></ul>	6
• fog	8
• hail	4
<ul> <li>thunderstorm</li> </ul>	5



# How to implement a DATEX II SRTI service

- Select the categories you have data from
- Choose the location referencing technology
- Select whether you will publish data in xml or json format
- Select the way data is published (will be presented in next webinar)

https://Webtool.datex2.eu/wizard/



# Data for road safety

- The level 3 data that is provided by OEM's in DATEX II
- Implemented profile and documentation:
- Profile for Safety Related Traffic Information (SRTI) created from invehicle data | DATEX II (datex2.eu)

