



# MAPPING SAFETY RELATED MESSAGE SETS

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Schiphol Netherlands



# Bard de Vries

Chairman of the DATEX II Technical Management Group

# EU DELEGATED ACT

## ► *ITS Directive 2010*

## ► *EU Delegated Act 886/2013*



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**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,



# 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.



# HOW TO PROVIDE?

1. Public and/or private road operators and/or service providers shall share and exchange the data ... For that purpose, they shall make these data available in the DATEX II (CEN/TS 16157) format or any fully compatible ...



# CHALLENGES

- ▶ **What are the details of the 8 categories?**
- ▶ **First in DATEX II**
- ▶ **Then in SP formats**
- ▶ **TISA and DATEX II started a working group**

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

# APPROACH

## CAT. A. TEMPORARY SLIPPERY ROAD



<b>Definition:</b> ITS Directive 2010/40/EU - Action (c)	“Temporary slippery road” means any unforeseen condition of the road surface which makes it slippery for a certain amount of time, causing low adherence of the vehicle to the road.
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The following messages belong to the category “temporary slippery road”:

- Flooding
- Danger of aquaplaning
- Surface water hazard
- Slippery road
- Mud on road
- Loose chippings
- Oil on road
- Petrol on road
- Ice
- Black ice
- Snow drifts
- Icy patches

The selection of the messages base on the following rules: .....



DATEX II (CEN/TS 16157-3)		
DATEX Class	TYPE	Additional data element
EnvironmentalObstruction	flooding	
WeatherRelatedRoadCondition	surfaceWater	
WeatherRelatedRoadCondition	surfaceWater	
WeatherRelatedRoadConditions	slipperyRoad	
NonWeatherRelatedRoadConditions	mudOnRoad	
NonWeatherRelatedRoadConditions	looseChippings	
NonWeatherRelatedRoadConditions	oilOnRoad	
NonWeatherRelatedRoadConditions	petrolOnRoad	
WeatherRelatedRoadConditions	Ice	
WeatherRelatedRoadConditions	blackIce	
WeatherRelatedRoadConditions	snowDrifts	
WeatherRelatedRoadConditions	icyPatches	

TMC Events (EN ISO 14819-2)		
Line	Text (CEN-English)	Code
880	flooding. Danger	908
980	danger of aquaplaning	1002
977	surface water hazard	1041
979	slippery road (above Q hundred metres)	1003
981	mud on road. Danger	1055
985	loose chippings. Danger	1056
987	oil on road. Danger	1057
989	petrol on road. Danger	1058
992	ice (above Q hundred metres)	1006
996	black ice (above Q hundred metres)	1008
1006	snow drifts (above Q hundred metres)	1016
996	icy patches (above Q hundred metres)	1047

TPEG2-TEC (CEN ISO/TS 21219-15)			
Cause Code	Sub Cause Code	Warning Level	Text SubCauseCode "trumps" SourceCode
5	1	3	flooding
7		3	aquaplaning
7		3	aquaplaning
6		3	slippery road
6	3	3	mud on road
6	8	3	loose chippings
6	7	3	oil on road
6	2	3	fuel on road
6	5	3	ice on road
6	6	3	black ice on road
9	5	3	snow drifts
6	5	3	ice on road



# AND THEN OPERATIONAL IMPLEMENTATIONS STARTED



- ▶ Challenges with terminology
- ▶ unprotected accident area

means the area where an accident has occurred and which has not yet been secured by the competent authority

- ▶ unmanaged blockage of a road

means any blockage of a road, partial or total, which has not been adequately secured and signposted

# NL OPERATIONAL EXPERIENCE



# SO WHAT'S NEXT



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	Text SubCauseCode trumps Cause Code	Cause Code	Sub Cause Code	Text 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



# ORGANISATIONAL



- ▶ **Joint Working group of**
  - ▶ **TISA**
  - ▶ **DATEX II**
  - ▶ **AMSTERDAM Group**
- ▶ **Hosted by TISA**
- ▶ **Chaired by DATEX II**
- ▶ **Continuous proces for maintaining based on operations and extending both in content scope as in technologies**



# QUESTIONS?

