

XIII INTERNATIONAL WINTER ROAD CONGRESS

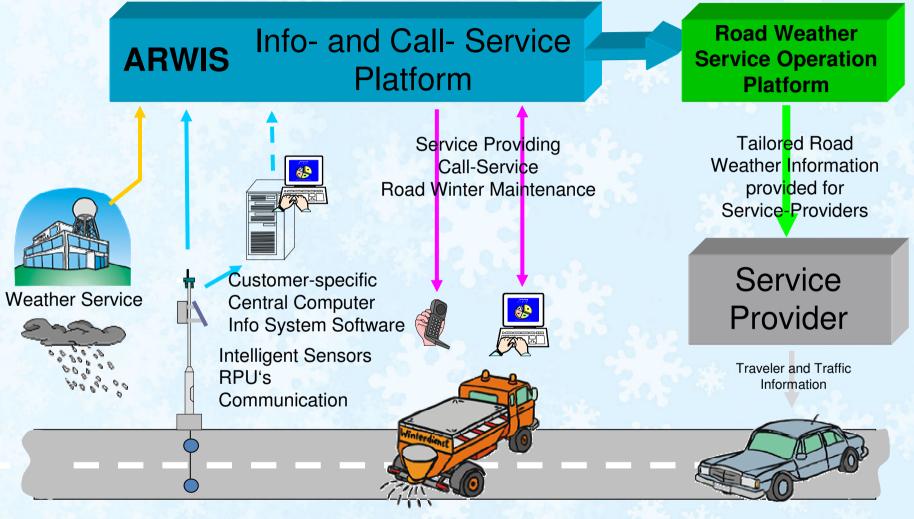
QUÉBEC, FEBRUARY 8 TO 11, 2010



Québec :::



The Road Weather Information Policy





RWS-TTI Road Weather Service Operation Platform for Traveler and Traffic Information

eMOTION Framework using Open System standards:

WFS = Web Feature Service **OpenGIS Consortium** XML, GML

End User Service

Data Modelling:

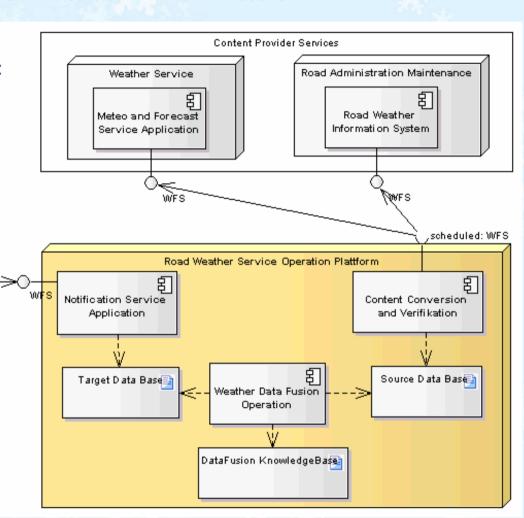
DATEX II

Based on ISO 191xx

Meta Data Models **Quality Data Models**

End User

Application











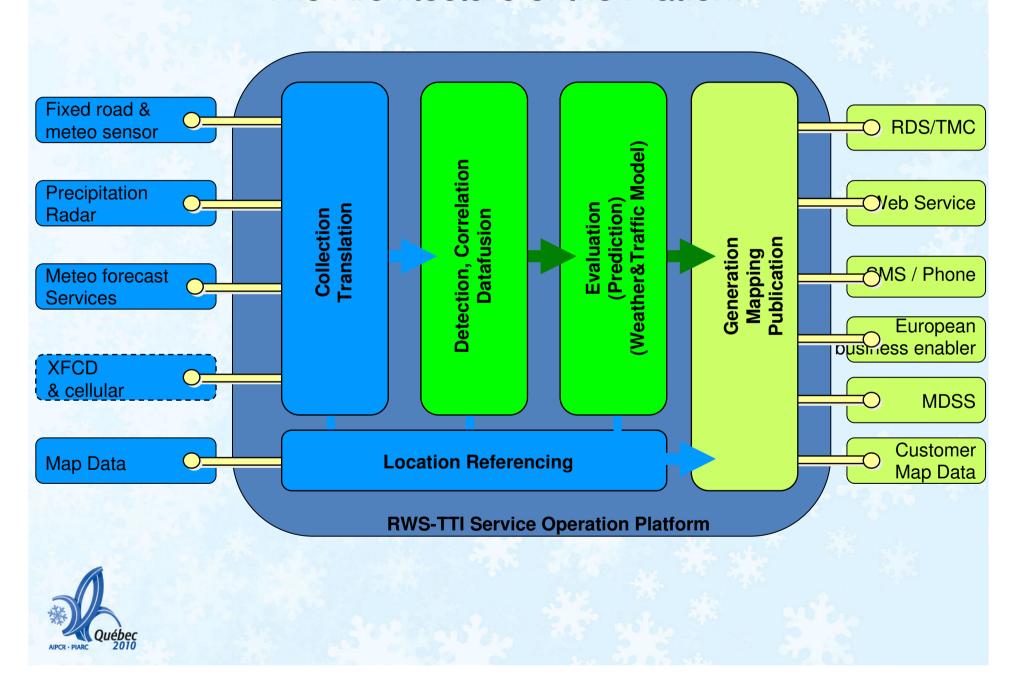


Documentation using UML 2.0 Standard

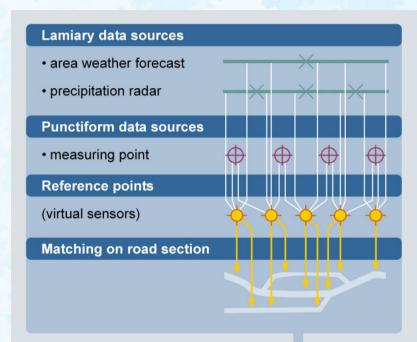


notify: WFS

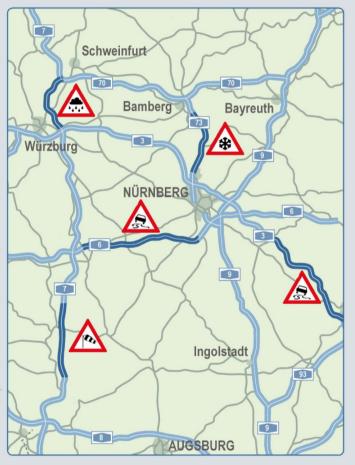
The Architecture of the Platform



Geographical and Meteorological Data Fusion Knowledge Base



Different geographical referenced (laminary, punctiform, etc) Weather and Road Condition Data Sources with different actualization time schedules as well as event driven Data are processed to generate accurate high resolution Road Weather Information by means of a Data Fusion Matrix = Knowledge Base

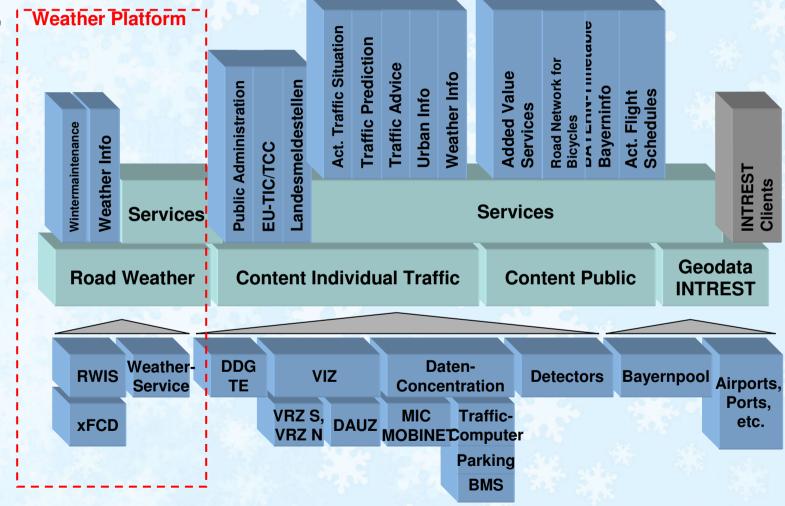




VIB The Bavarian Traffic Information Agency The Weather Platform

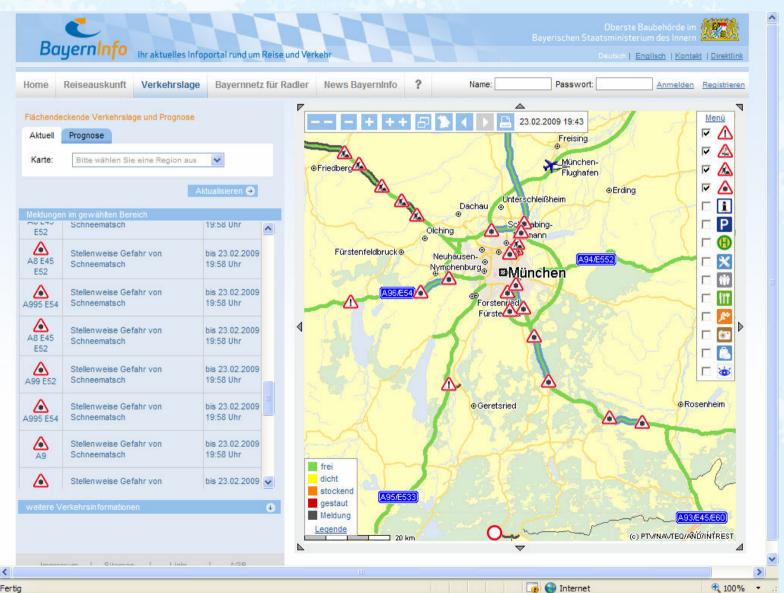


VIB Traffic Information Agency



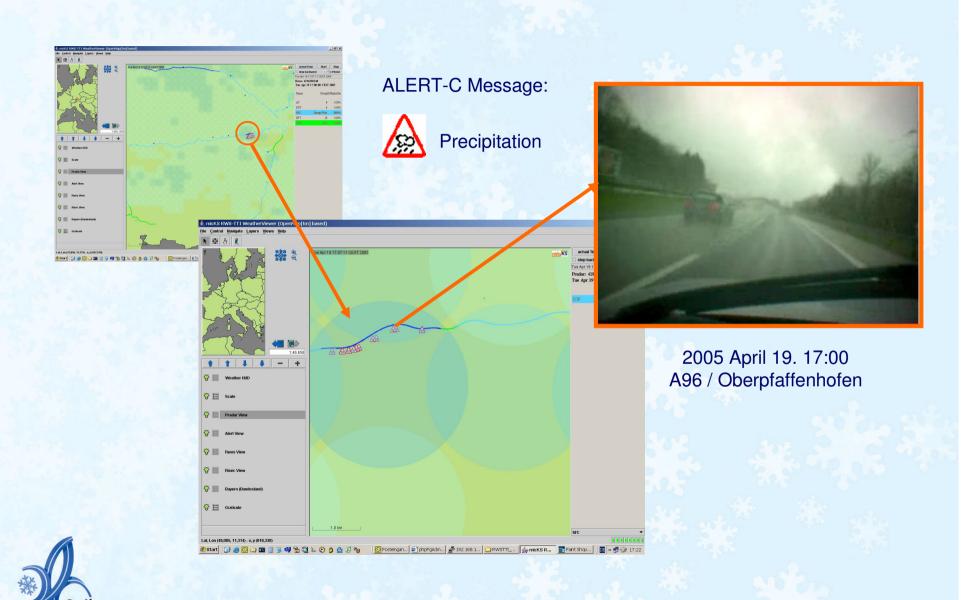


VIB www.bayernInfo.de Front End Road link referenced TMC Weather Warnings

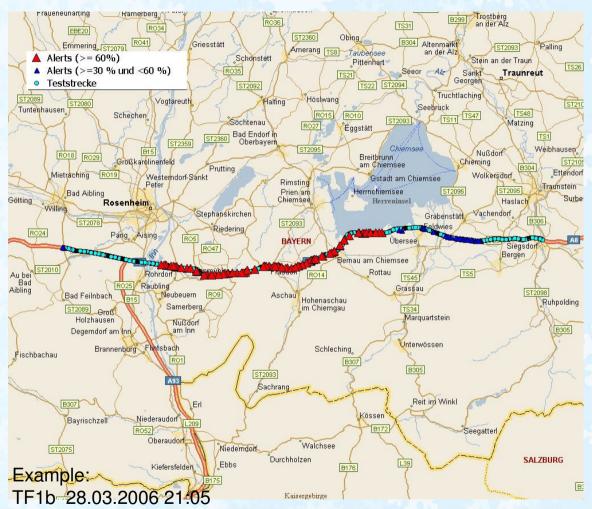




Example of an authentic situation



Quality management by means of XFCD observation tours

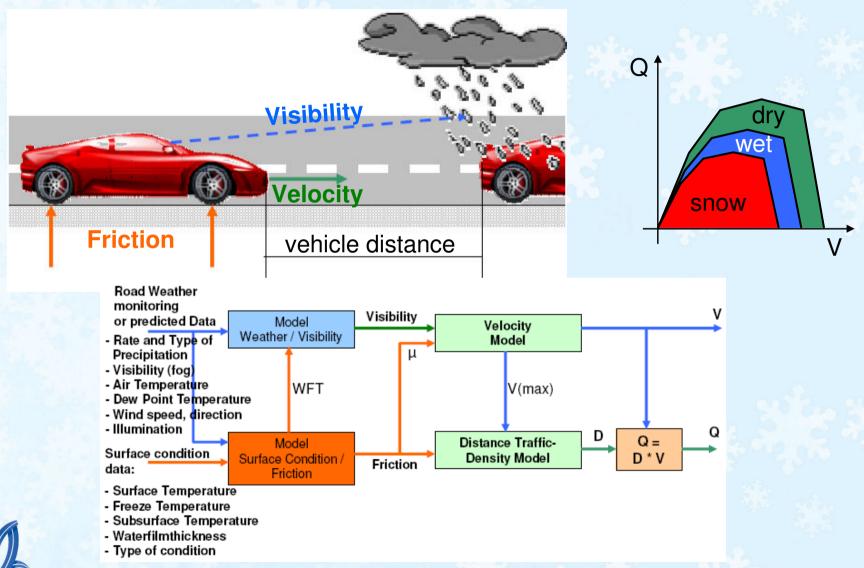


To meet the high requirements of a premium service, a constant, automatic quality measurement and evaluation takes place which is based on defined quality scores for message and service quality. For that purpose, data from surveying and probe collecting tours by XFCD vehicles from BMW are summoned.

			Q-Kennzahlen	
			30%	30%
		Idealwert	Aquaplaning	Regen
	K	100%	99%	83%
2	KE	100%	100%	83%
	KF	0%	0%	17%

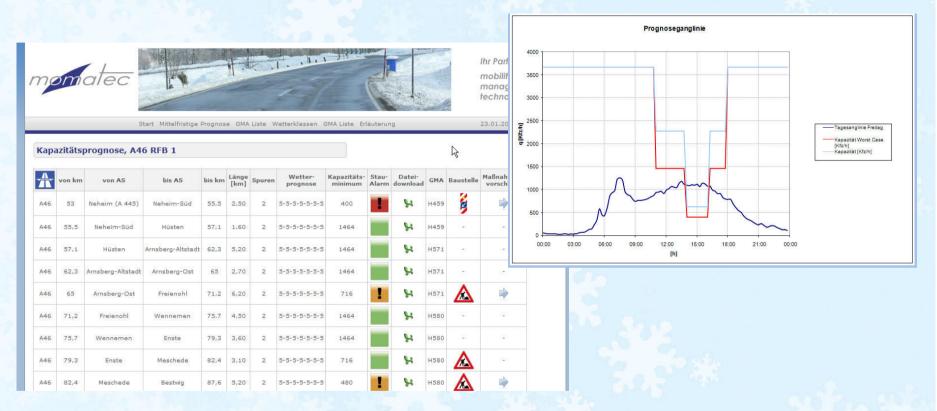


Modeling Road Weather impact on Traffic Flow





Maintenance Decision Support Application congestion prevention at winter maintenance







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