

The Lakeside Conference  
**Safety in Mobility 2008**

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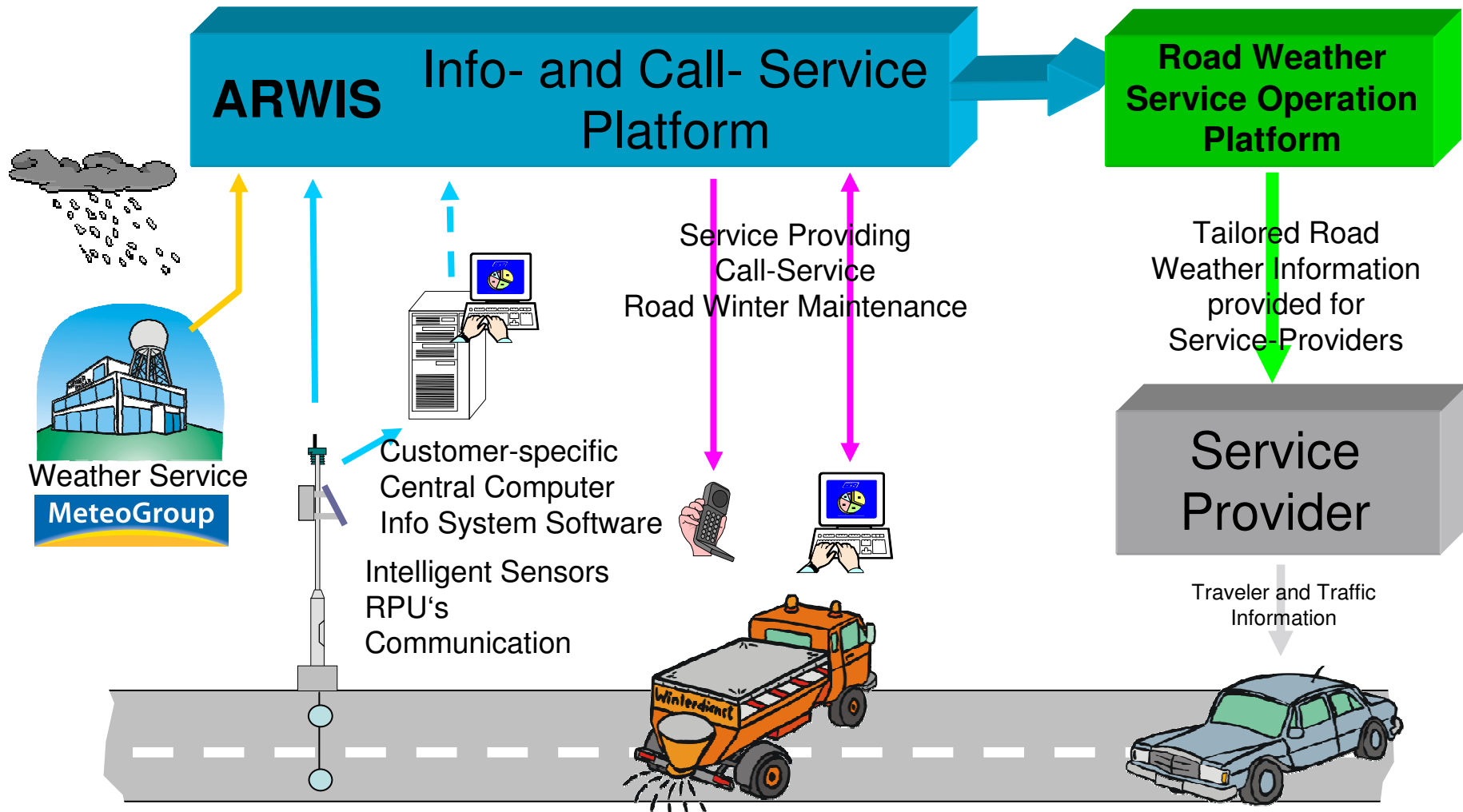
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# Road Weather Service Operation Platform for Traveler and Traffic Information

Karl E. Schedler

2008-07-11

# The Road Weather Information Policy

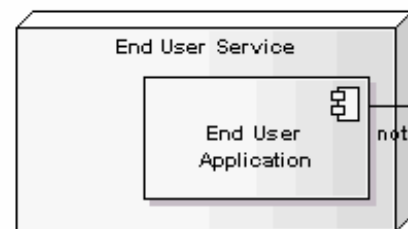


# RWS-TTI Road Weather Service Operation Platform for Traveler and Traffic Information

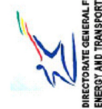
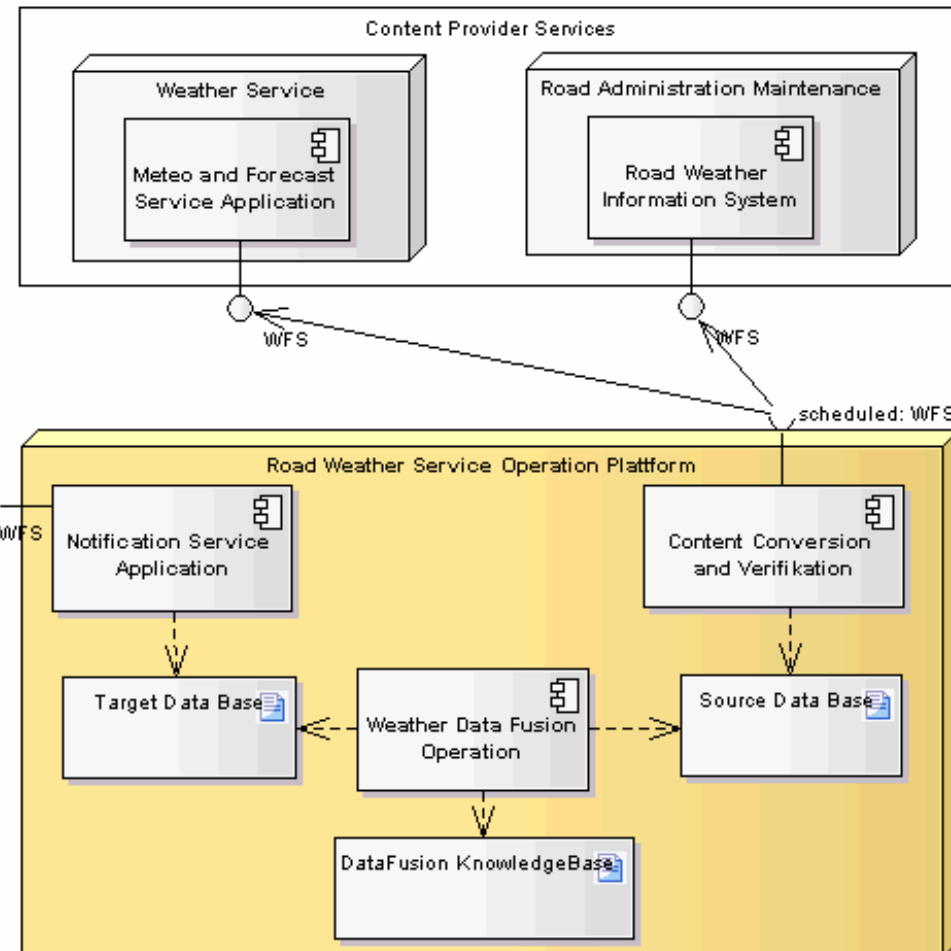
emotion

eMOTION Framework  
using Open System standards:

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



Data Modelling:  
Based on ISO 191xx  
Meta Data Models  
Quality Data Models  
DATEX II  
Documentation using  
UML 2.0 Standard

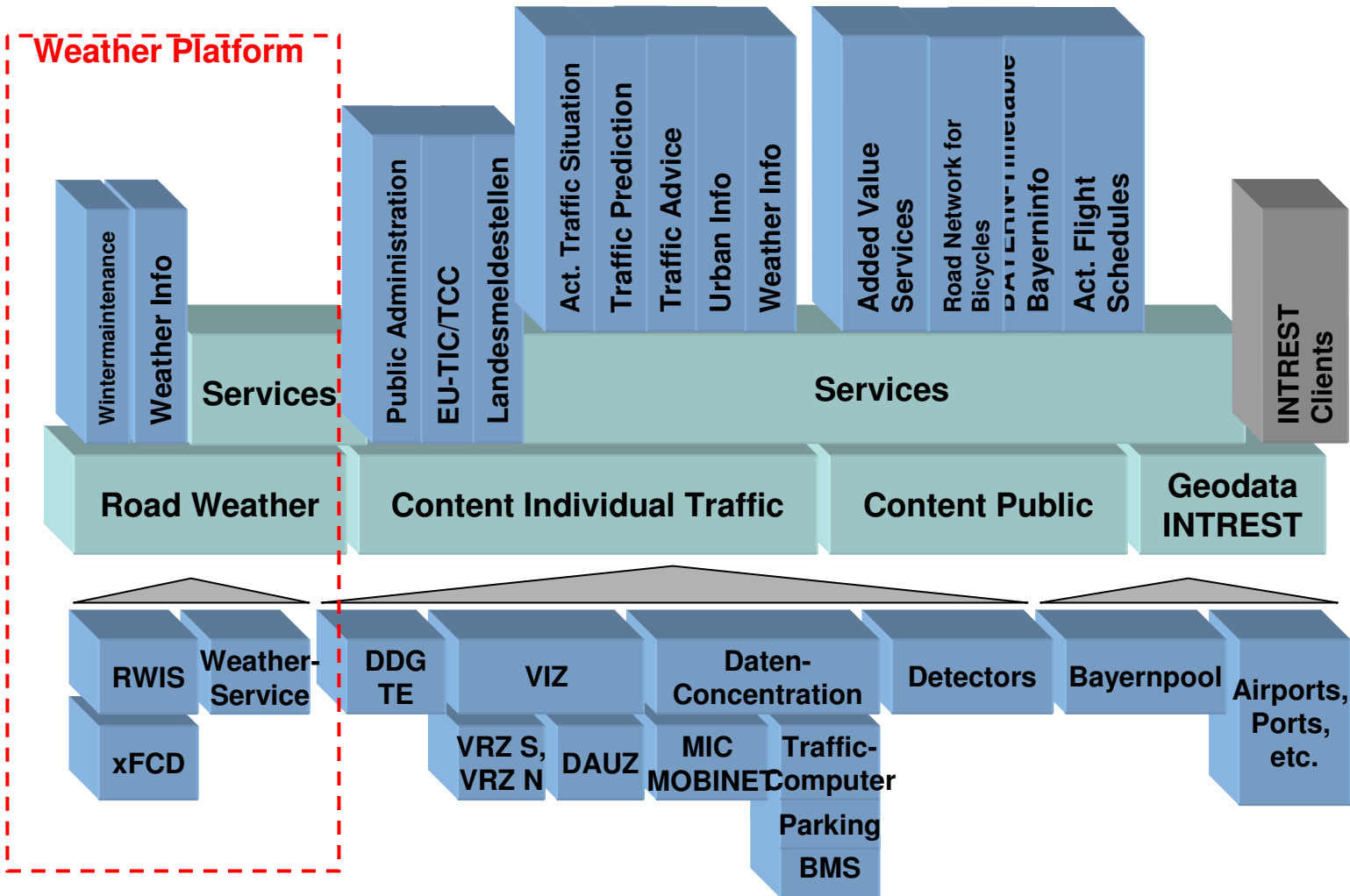




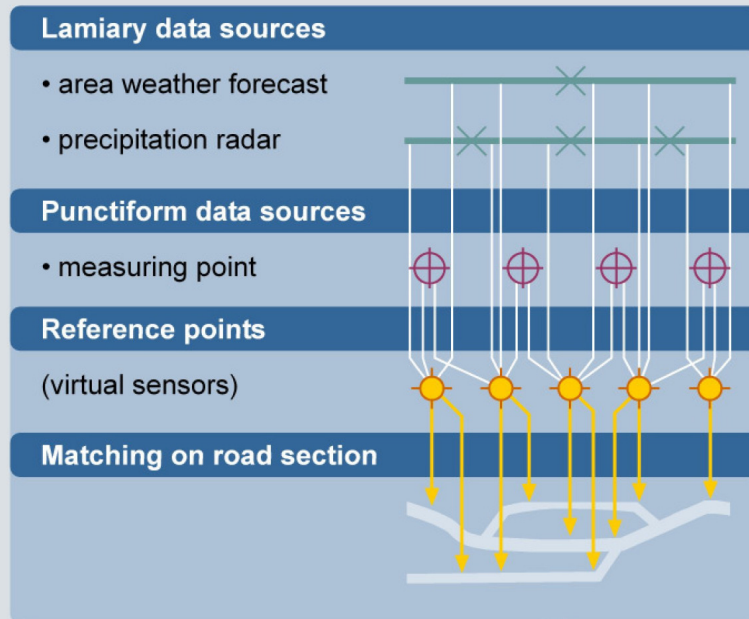
# VIB The Bavarian Traffic Information Agency The Weather Platform



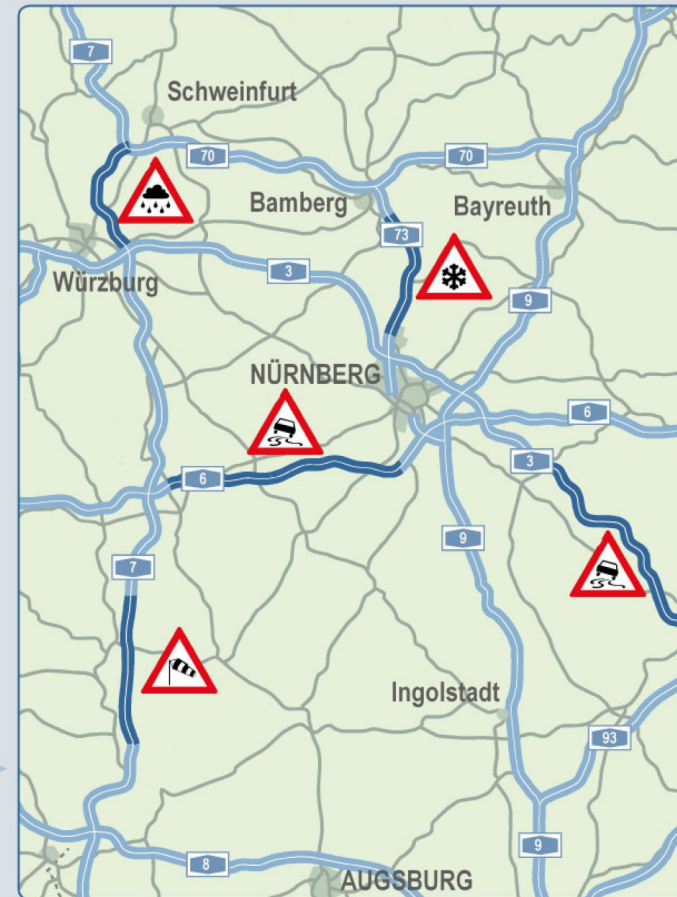
VIB Traffic Information Agency



# Geographical and Meteorological Data Fusion Knowledge Base

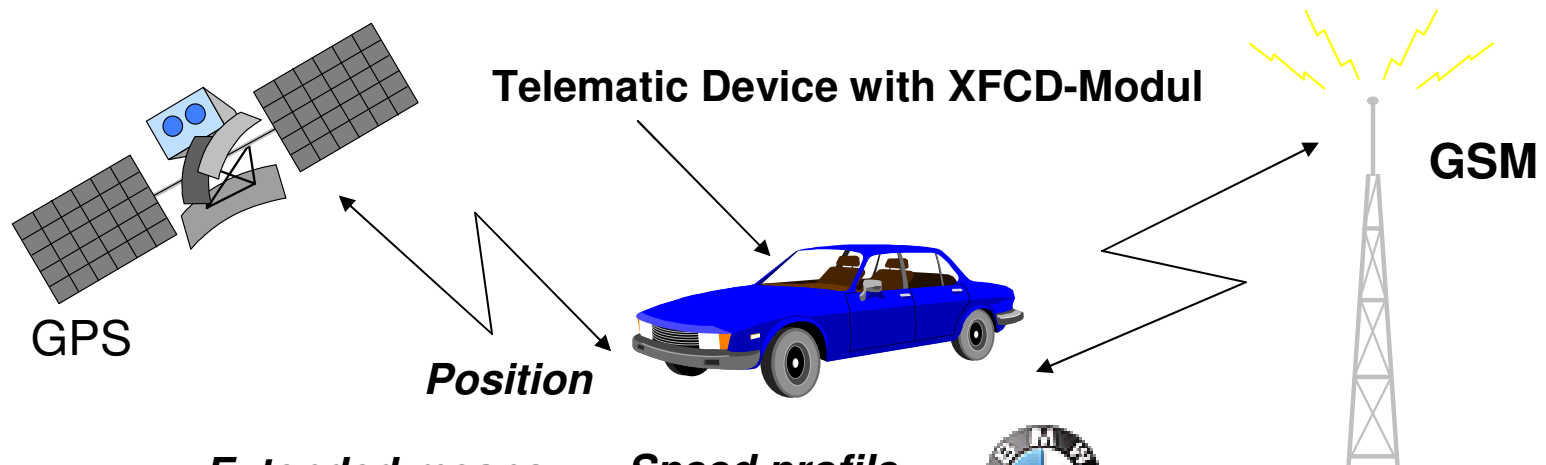


Different geographical referenced (lamiary, punctiform, etc) Weather and Road Condition Data Sources with different actualization time schedules as well as event driven Data are processed to generate accurate high resolution Road Weather Information by means of a Data Fusion Matrix = Knowledge Base

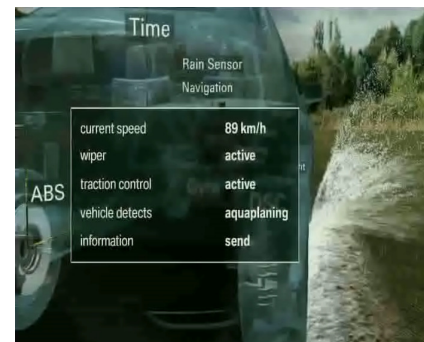


# XFCD Future Mobile Data Sources enhance Traveler Information and Winter Maintenance Support

XFCD = Extended Floating Car Data



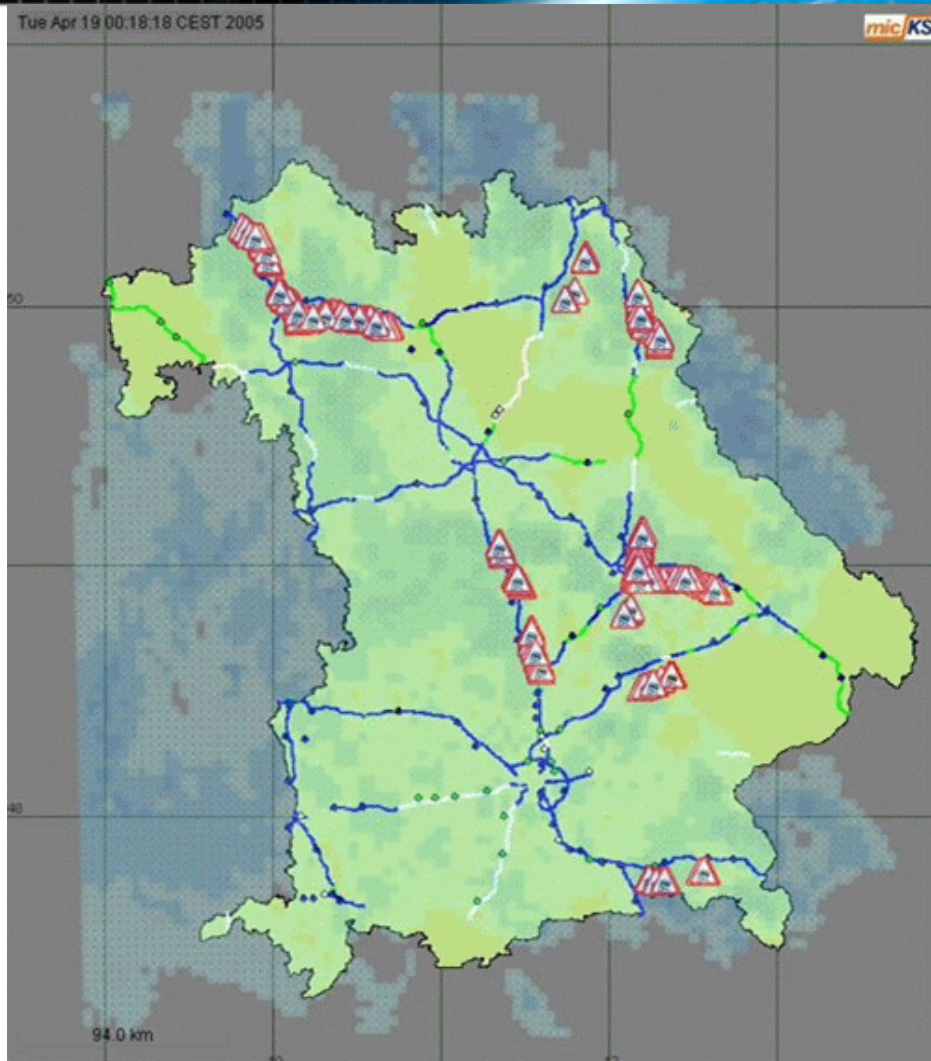
- Extended means:**
- Speed profile
  - Sensor data
  - Road and driving conditions



**Mobile Data Sources**



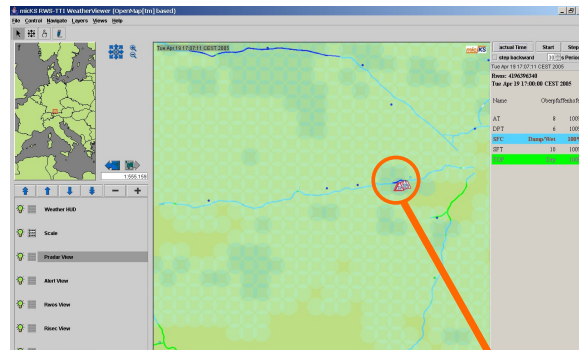
## Example of Service Data Output on Highways in Bavaria



### Messages coded in TMC ALERT-C

-  Aquaplaning Slippy
-  Ice Slippy Road
-  Strong Wind
-  Strong Precipitation

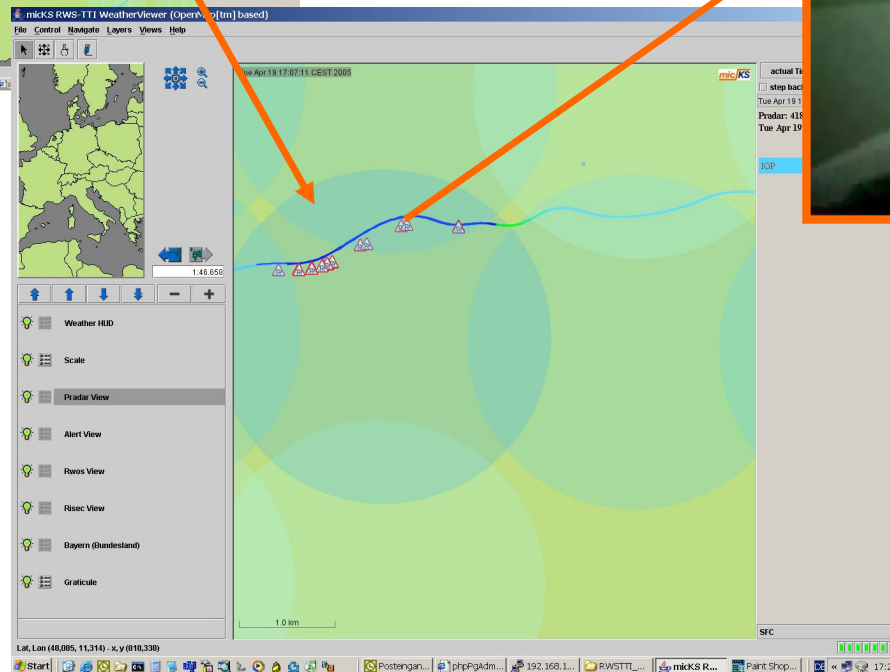
# Example of an authentic situation



ALERT-C Message:



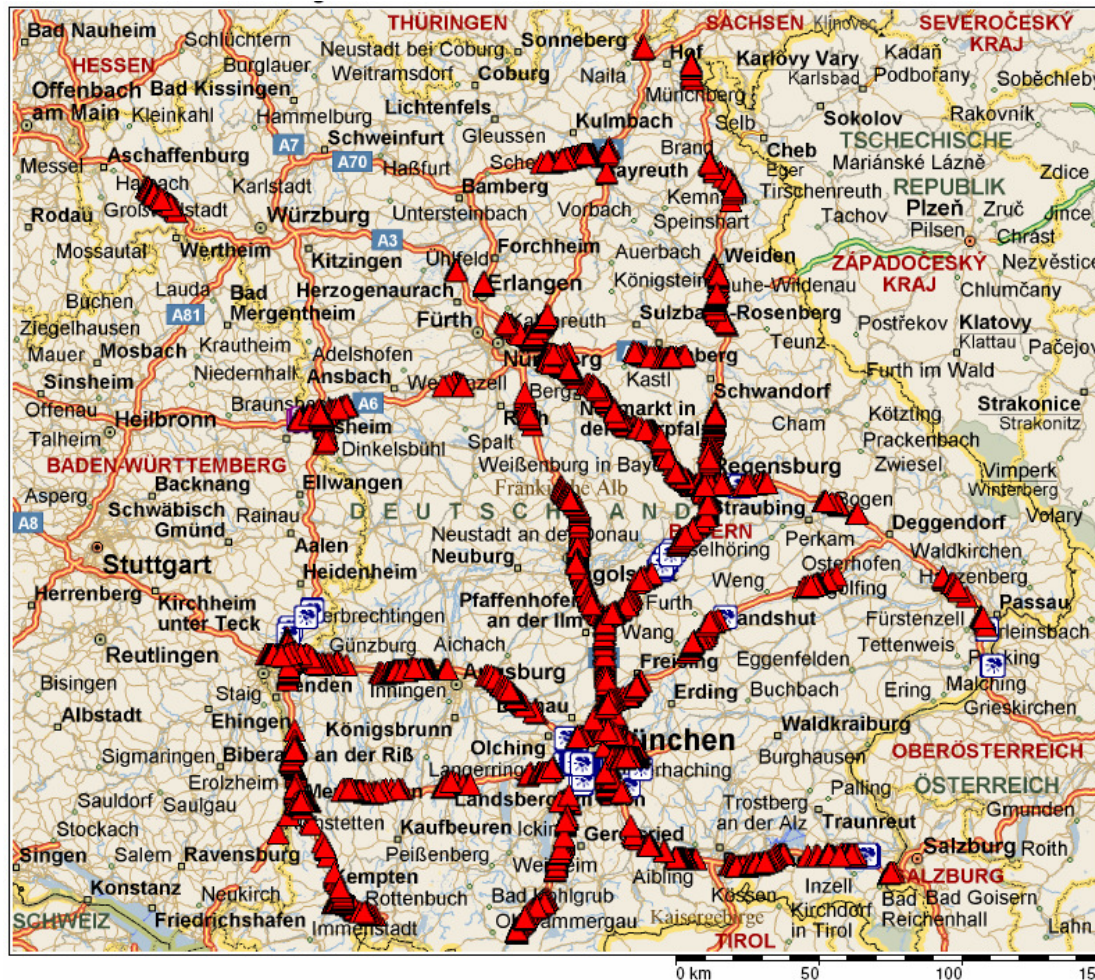
Precipitation



2005 April 19. 17:00  
A96 / Oberpfaffenhofen



## 2. Example of an authentic situation



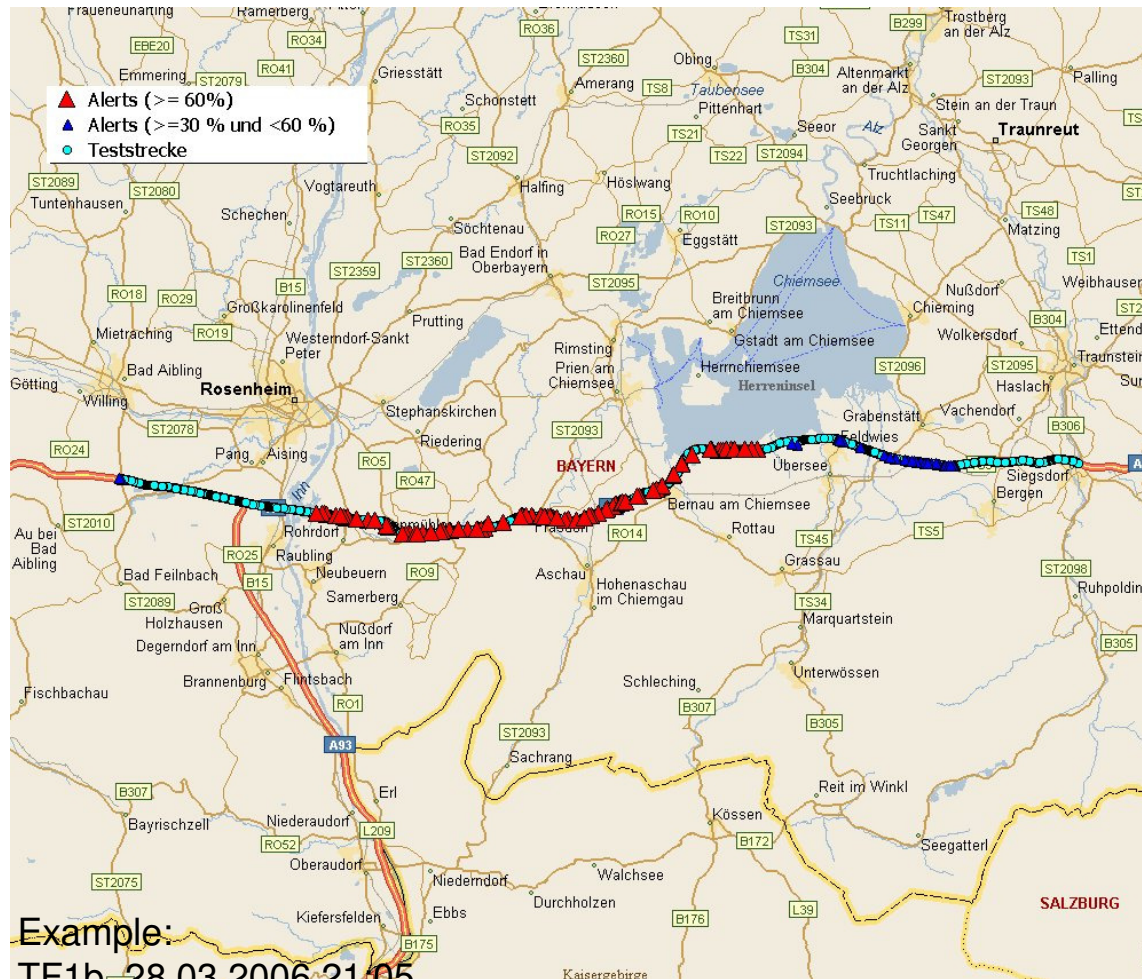
example:  
Winter Chaos in Germany  
at 2007-01-24

### ALERT-C Messages:

-  Rain
-  Snow
-  Strong Snowfall
-  Freezing



# 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%
KE	100%	100%	83%
KF	0%	0%	17%

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Thank you for your attention.

Karl E. Schedler  
micKS MSR GmbH / ks-consulting  
schedler@micks.de / info@ks-consulting.de