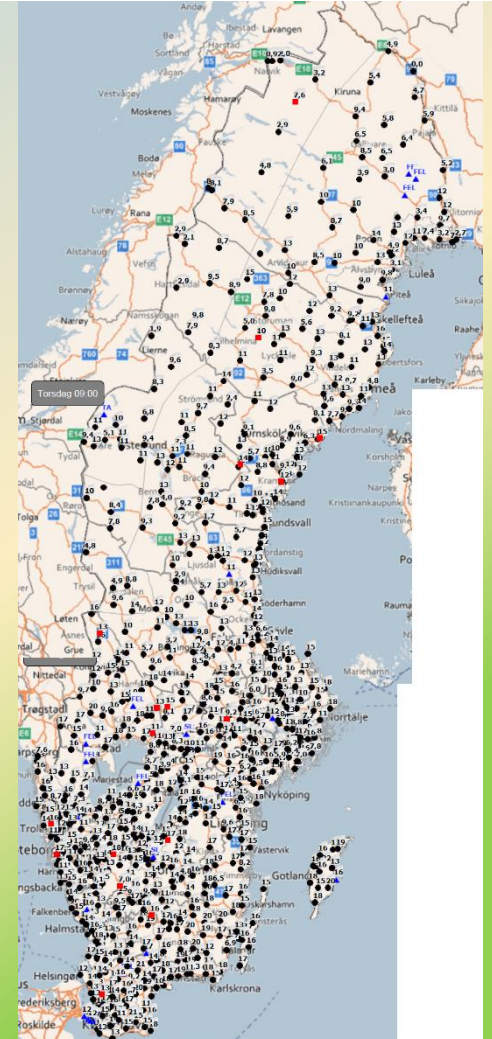Bo Bjerkeholt, Swedish Transport Administration

DELIVERING WEATHER DATA
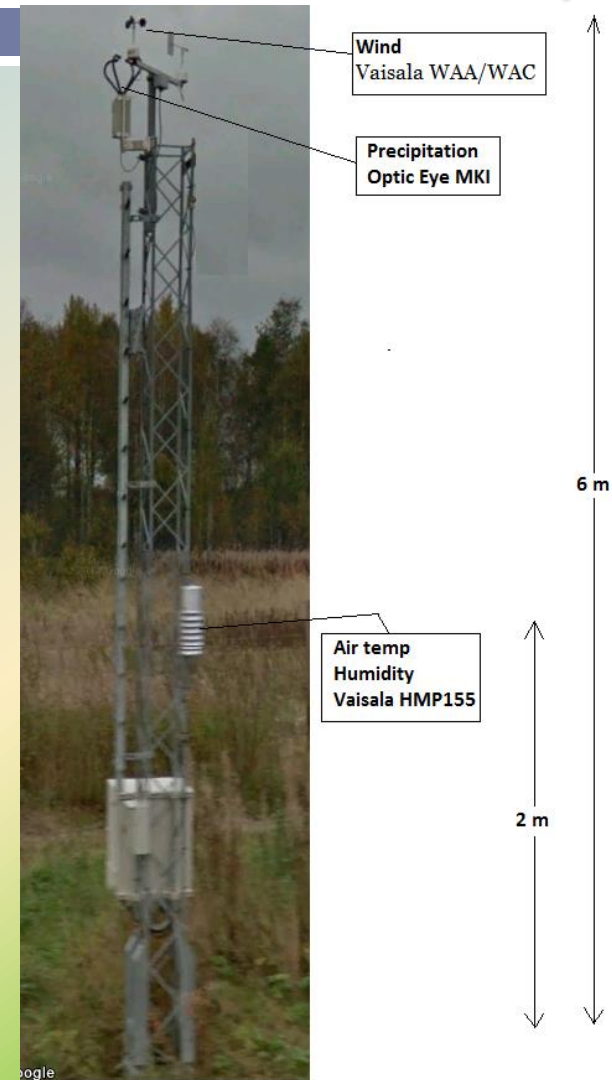
Detector system, VViS (RWIS)

□ Central system
- ◘ Management
- ◘ Collecting, Storing
- ◘ Publish

□ Weather stations
- ◘ Approx. 800 weather stations on strategic spots along the road network.
- ◘ Updates every 30 minutes during winter season
- ◘ Soon increased to every 10th minute
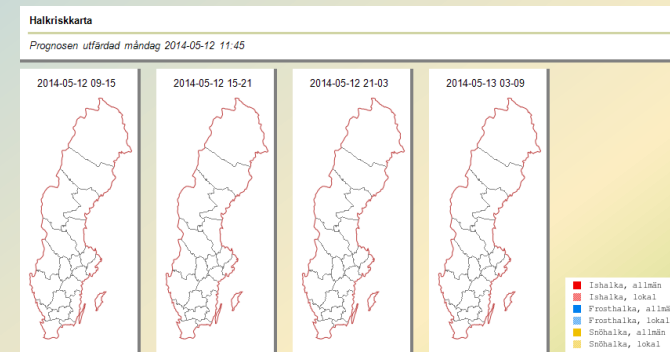- ◘ During summer collect data from 370 stations

Weather station

- Measuring
  - Temperature
  - Temperature at road surface (sensors)
  - Wind
  - Precipitation type and volume
  - Humidity
- Camera
  - 400 with camera
  - In 2 years all

Wind
Vaisala WAA/WAC

Precipitation
Optic Eye MKI

Air temp
Humidity
Vaisala HMP155

6 m

2 m

Usage of weather data

- Forecasts
- Used by Winter maintenance
- Used by TIC/TMC
- Available to external clients via DATEX II

External subscribers

- Most of the DATEX subscribers
- Some ISP make weather services
- Display situation
- "Läget i trafiken" (Current traffic situation)
  - Web
  - App
- Exchange with other
  - Ongoing work with Norway
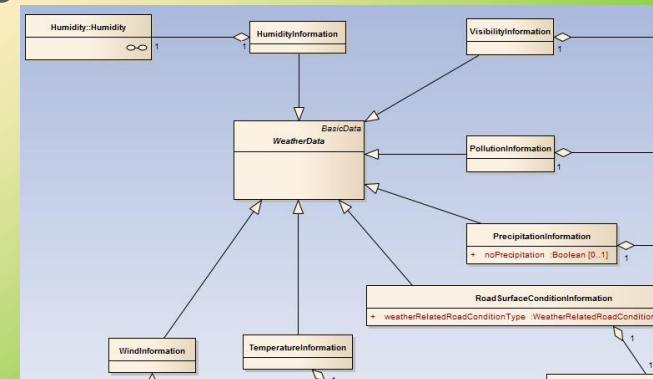   - Communication tests done

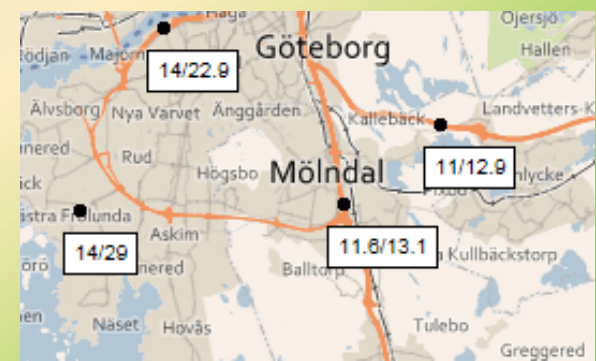- One type data of Open Government
-

STA delivering of Weather information

- Measurements
  - Measurements in MeasurementPublication
  - Meta data about weather stations in MeasurementSiteTablePublication
  - Push and Pull
  - Updates every 30 min
- Traffic information (manual entered by TMC)
  - Warnings about etc. Strong winds, road conditions
  - SituationPublication
  - Push and Pull

Delivered measured values

Currently eight values delivered

- Wind speed
- Maximum Wind speed
- Wind direction (compass)
- Air temperature
- Road surface temperature
- Precipitation type
- Precipitation intensity
- Humidity

Metadata service (enhanced)

- Naming
  - Eg. Riksväg 70 Spjutmosjön
- Location
  - Coordinates
- Configuration
  - which values are measured

Possible EIP work on Weather information

- Collect additional requirement
- Harmonise common extensions
- Input for future version of DATEX
- Forum created on datex2.eu
- Word template
  - Use case
  - Missing parts
  - Extensions used

Questions?