



Vejforum  
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2640 Hedehusene

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Projekt: Digital Winter. Connected vehicles for safer roads

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## Titel: Digital Winter. Connected vehicles for safer roads

Increased connectivity in cars, means that important information about infrastructure can be instantly transferred from the cars into a cloud. Car manufacturers have provided these systems for decades, but have just recently offered these connected functions to a broader customer base. Sharing data with the road authorities, however, is rare.

Trafikverkets FOI-project Road Status Information wanted to explore the possibilities to gather road friction data from cars in daily traffic to monitor and improve the winter maintenance of the roads.

A new cloud based digital solution from ÅF, in a joint venture with Volvo Cars, will now provide the Swedish Transport Administration of slippery road conditions data. One of the first initiatives in Europe to share data from vehicles in daily traffic with road authorities on a larger scale.

ÅF has collected data from the 1 December 2018 and a first preliminary analysis of the results are possible to make. Approximately 3 million estimates are collected each week and covers both Norway and Sweden. The confidence measure of the data is overall high. When comparing the data to real road and weather conditions we can observe a high correspondence.

We have also already identified several possibilities to further develop the function. In this session we will present the results in detail and also describe potential further development.

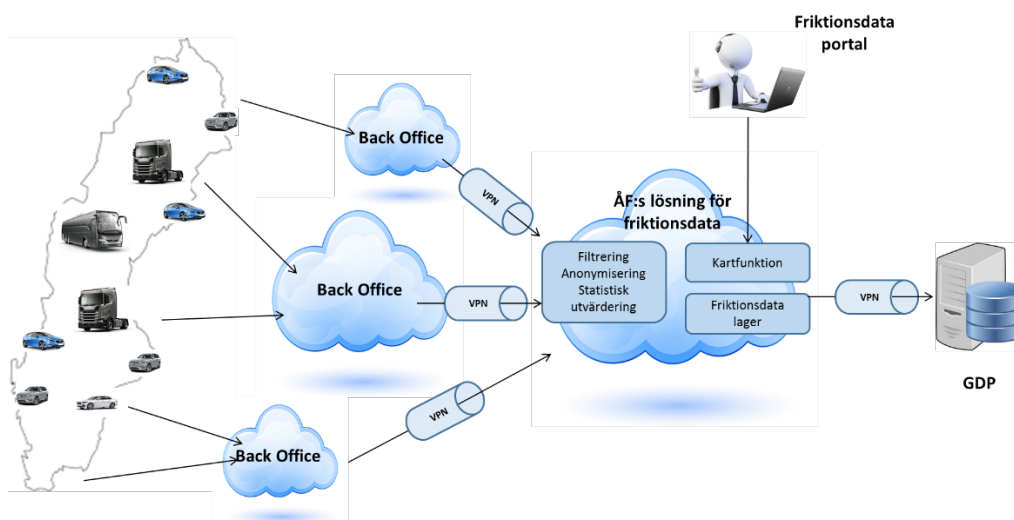


Figure 1- Schematic of ÅF:s solution for digital slippery road data.

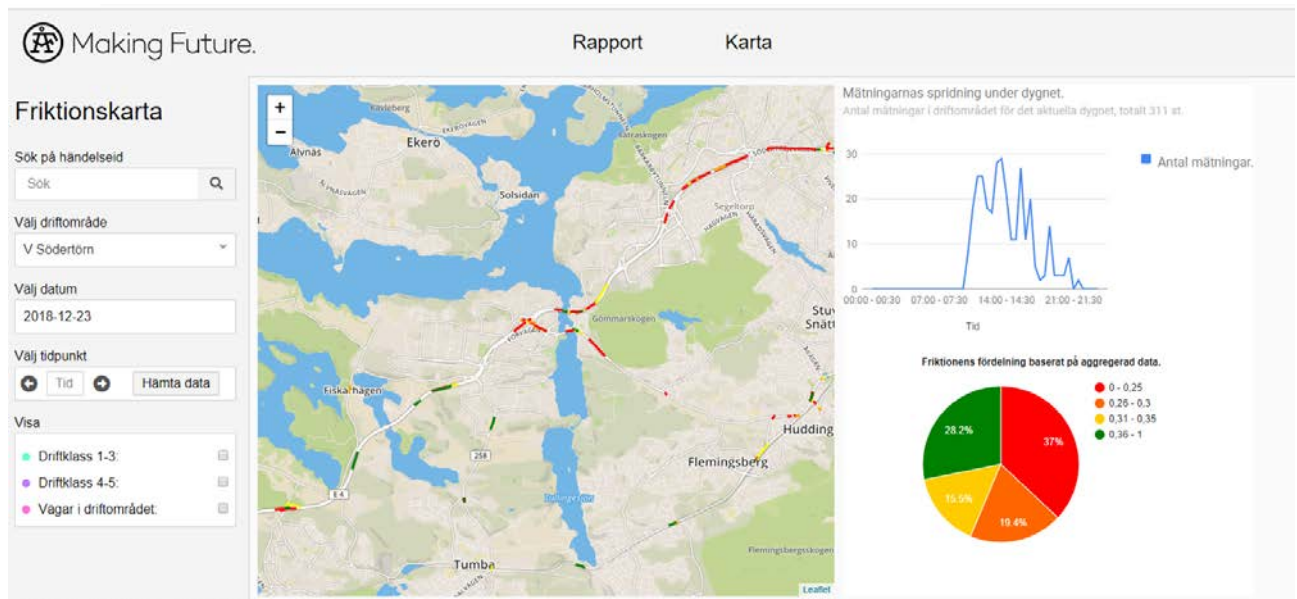


Figure 2: Screenshot from Digital winter system 23 December 2018. Area E4 passing Kungens kurva.