



Case study

Smart gritting in Den Bosch

**MOBILITY
SENSING**

Smart gritting in Den Bosch

Mobility Sensing measuring points in the Den Bosch road network to optimise gritting operations



Case

Gritting activities often entail enormous costs and also have negative environmental impacts. Besides, road operators have too little overview about specific road segments such as bridges and overpasses that are more prone to freezing. The City of Den Bosch called the help of Mobility Sensing to obtain more details about the temperature of their road surface in order to better plan their gritting operations, improve road safety and reduce operational costs.



“StreetSense pods offer a unique extension to your winter conditions monitoring system and provides reliable information about the temperature of your road network. Its design limits installation and operational costs to a minimum.”

Tom van de Ven
Mobility Sensing

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Approach

Technology applied in Den Bosch: multiple StreetSense pods



The pods measured the road temperature at two depths and the electrical conductivity of the surface, indicating when the surface is dry, moist or wet and presence of road salt. Condition data was recorded every 10 minutes, then relayed to the cloud service and conveniently presented in a web dashboard.

Outcome

By installing more measurements points in the road network the city of Den Bosch was able to optimise their gritting operations. Reducing the environmental impact and freeing up budget for other priorities.

Proven & benchmarked pods

The sensor pods survived heat waves and freezing periods in operational conditions without a single device failure. The pod data provided valuable insights in the distribution of the road surface temperatures and conditions in the road network.