



# Detect holes in the road with Road Surface Quality™

Get a quick overview of the quality of the road surfaces in your municipality or on your road network. With the service Road Surface Quality™ (or RSQ™) available on Hermes Traffic Intelligence's HOTS™ website, you can get a quick overview of the condition of the road surfaces in your area and quickly decide the areas that require extra attention, e.g. after frost damage or road work.

## The quality of the roads

The system works by letting a number of people drive the roads with a mobile phone fixed in the car. When the car is driving on an uneven road or hits holes in the coating, the resulting jolts are captured by sensors in the mobile phone. The measurements are then assembled in the RSQ™ service where they are processed and presented. From here you can as user of the service see which routes have been measured, as well as what estimated quality the road surfaces have, based on those measurements.

## Measure with smartphone

The measurements can be made with the app *trag.me - Speedometer*, developed by Hermes Traffic Intelligence. If one or more of your colleagues use the app when driving the roads in your area enough data will soon be collected to give a fair picture of the roads surface quality.

Regularly, lots for gifts are drawn among the users of the app. This helps to ensure that it is used on the roads

With the RSQ™ service you can:

- Repair roads when holes emerge without having to wait for inquiries from the citizens first.
- See where the roads with the worst surfaces are, and maintain them so the roads that have the most affected road users, will be rectified first.
- See the quality of the roads as a layer in your favorite GIS system.
- Make sure the measurements are relatively new, so that you do not plan maintenance based on old data<sup>1</sup>.
- Locate road bumps and make sure they are not mistakenly interpreted as holes in the road<sup>2</sup>.

1: This requires a sufficient amount of measurements to be present in the sense that you still have adequate measurements if you remove data that e.g. is more than three months old.

2: Not yet integrated in the service.

## How to get started

Visit HOTS™ at <http://hots.hermesttraffic.com>, login as demo user and select RSQ™. This will enable you to see how coverage is in your area, and experience the actual surface quality in an area around The Technical University of Denmark, north of Copenhagen.

Contact Hermes Traffic Intelligence at [hots@hermesttraffic.com](mailto:hots@hermesttraffic.com) if you want a demonstration of the service in your area. You and your colleagues can then download the app and start collecting measurements on the roads in the area. You will then receive a time-limited access to the system to let you see if it makes sense to you to continue using the service.