

Ecartip

# MILLIMETER MEASUREMENT WITH GPS OF FRENCH A63



*"The first French company to use millimeter GPS"*

*"Topcon's system is easy to use and cost efficient"*

In Bayonne in the South of France, Mr. Lionel Sores of Ecartip and his colleagues measure the A63. "The road owner, Autoroutes du Sud de La France (ASF) will change the A63 from two to three lanes. We measure the state of this road and its paving. This tasking job, that mostly takes place at night, is done much faster thanks to Topcon's mmGPS", Sores explains.

"The A63 is one of the main roads in France and an important route for both tourist traffic and commercial traffic to and from Spain. It is also important for moving cargo from Africa and Morocco to the rest of Europe. Per hour 2000 trucks pass through here."

#### Measure the slope

"Every five meters we measure two points of the road. One is on the inside near the soft shoulder. And one is on the outside very near to the passing traffic. Every 400 to 500 meters there is a base station generating information and sending this to the field computers of the surveyors. We measure the slope and see if this has changed. We check the paving materials and make a 3D model of this. When the slope of the road has changed a lot, it could eventually cause the breaking of the asphalt."

#### Saving time

"Using Topcon's mmGPS saves money and time. It is cheaper than most other options. In the old days we scanned an entire road using laser. This was almost impossible, because with most stations you can only scan 150 meters per time. With mmGPS we can measure very quickly, very easy and get good results. The mmGPS gives us a lot more precision. We can now model the entire road without many problems. We measured 20 kilometers in 12 nights with just five men."

 **TOPCON**

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