

2022-09-01-test-with-final-strata-configuration

We have been testing the final setup to the Strata customer in Brasil. Compared to testing May 25, 2022, the ENCIF component has been changed and optimized a lot. ENCIF is responsible for delivering the DMI encoder pulses to the LCMS system.

The current test has now 16 pulses for each grabbed profile, and the impact according to Pavemetrics should be better quality of the acquisition data.

This has been archived by calculating the AcquisitionResolution_mm config parameter in the LCMS system, so we get a whole number of pulses per profile. In that way we have been able to drive with 100kph without missing data. That we have not been able to do earlier. The system failed when the speed went over 80kph.

The collected data has a resolution on 1.014mm.

Below is a short description of each acquisition data folder.

"cykelbane-1", "cykelbane-2", "cykelbane-3":

3 samples from the same 576-meter lap around the cycling track in Ballerup.
Total data size: 1.70 GB + 1.72 GB + 1.71 GB = 5.13 GB.

"motorvej-nord-70kph", "motorvej-nord-80kph", "motorvej-nord-90kph", "motorvej-nord-100kph"

4 samples in the same direction in different speed on the highway. Approximately 1030 meters.
Total data size: 3.41 GB + 4.06 GB + 4.23 GB + 4.08 GB = 15.78 GB.

"motorvej-syd-70kph", "motorvej-syd-80kph", "motorvej-syd-90kph", "motorvej-syd-100kph"

4 samples in the same direction in different speed on the highway. Approximately 1080 meters.
Total data size: 3.70 GB + 4.69 GB + 4.47 GB + 4.44 GB = 17.3 GB.

"transport-til-flyveplads"

Transport road to Værløse airport, to test concrete road. Approximately 6650 meters.
Total data size: 28 GB.
Very bad road from station 5860 to 6090.

"betonvej"

Concrete road (maybe? you must verify). Approximately 710 meters.
Total data size: 2.68 GB.

"transport-hjem"

Transport road from Værløse airport back to Dynatest. Approximately 16000 meters.
Total data size: 62.2 GB.