

STARLIT 5G

5G Real-time anti-slip action in Stadi
Stadin reaaliaikainen liukkaudentorjunta 5G

Jätkäsaari Mobility Lab 1.11.2019

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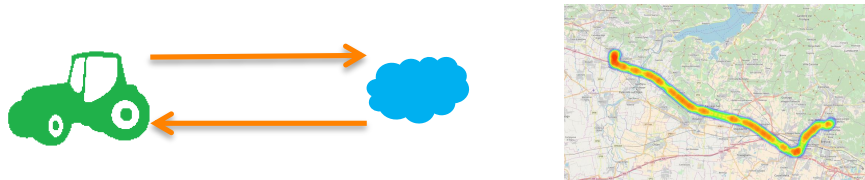
STARLIT 5G experiment



Starlit 5G Idea



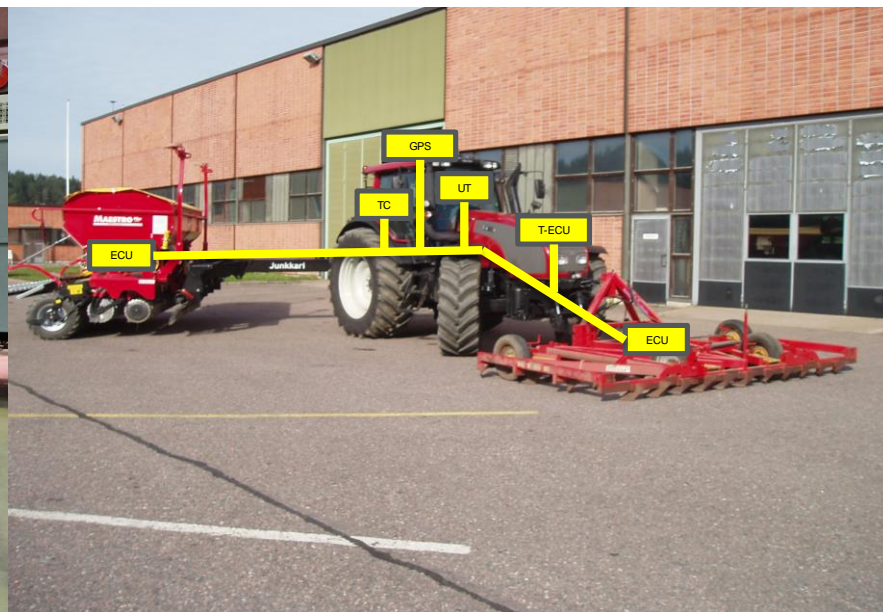
Can we utilize data produced by machinery to map the slipperiness of walkways and cycle paths?



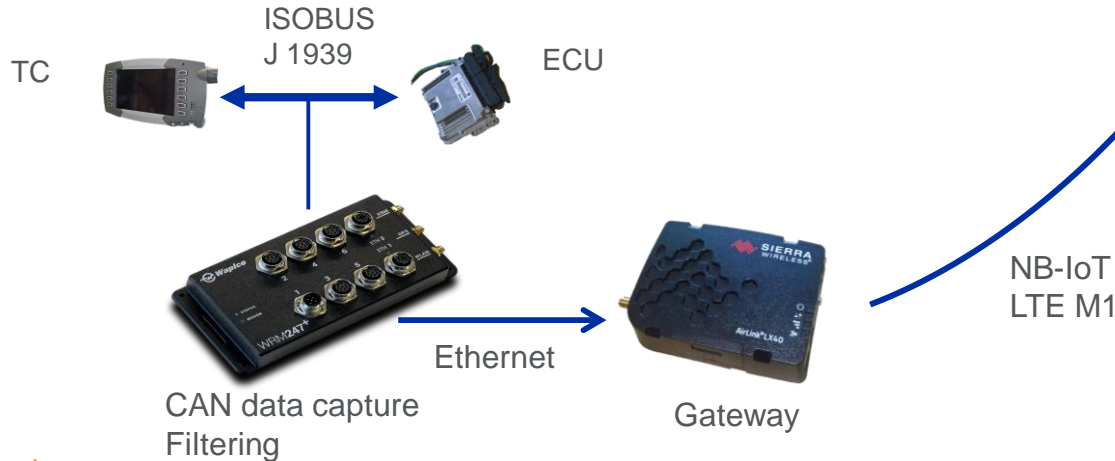
Could we direct the anti-slip works based on our observations?

Heat map: Silva, et. al. (2018). A Customer Feedback Platform for Vehicle Manufacturing Compliant with Industry 4.0 Vision. Sensors. 18. 3298. 10.3390/s18103298.

STARLIT 5G kokeilu



STARLIT 5G technical solution



EEE INNOVATIONS
EGRIP

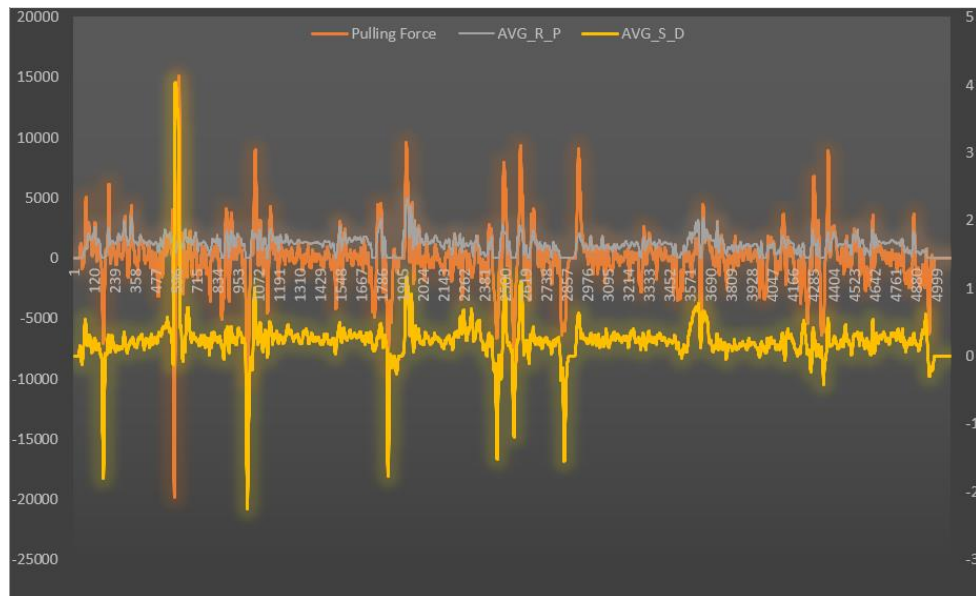
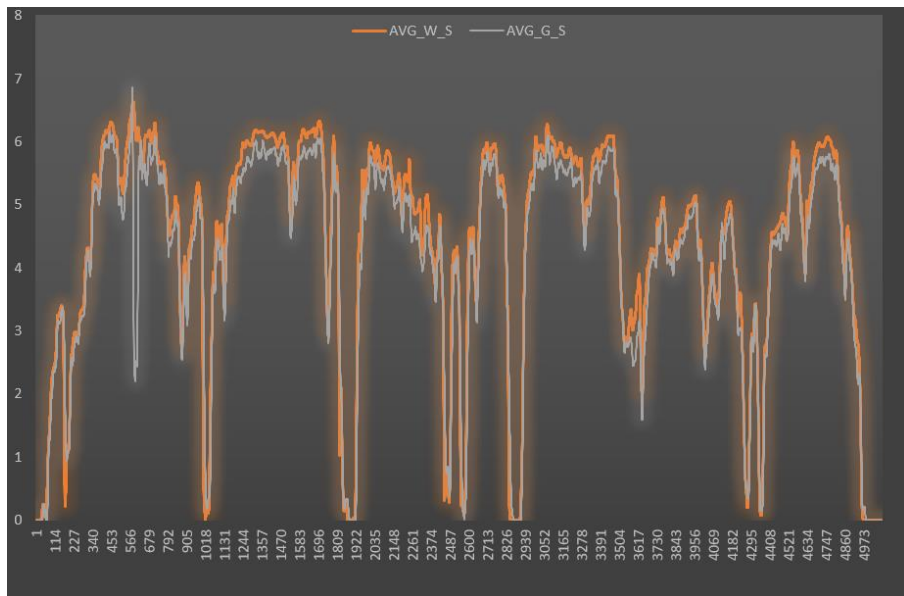
Slip estimation



Wapice

IoT-TICKET®

Results



Results

Yes, it is possible to estimate the slipperiness from machine data.

Results are not as good as with vehicles.

Raw engine data is not enough.

There are technical limitations for real-time applications.

Next step: build an application and introduce more machines

