

TACTICS

TACTICS (TrACTor AnalytICS) will use a range of FI-WARE enablers to develop a system for real time analysis of fuel consumption of the tractor–implement system with the aim of reducing fuel consumption without affecting tillage quality. This system will be able to handle vertical forces data and to propose, in real-time, the best working parameters in terms of tractor velocity and engine speed for reducing energy consumption. This system will also be able to automatically generate spatial performance maps with the use of a GPS mounted on the tractor cabin, which could be useful to analyze tillage operation performance and apply precision agriculture strategies.

This application will run in an android platform inside the tractor cabin to make the data visible to the tractor driver. These data will be synchronized with a web application and FI-Space widgets for real time data projection and post-analysis of the tillage operations. It will be able to receive and combine in real time data from: (a) the tractor electronic control unit (ECU) for recording the tractor working parameters; (b) a GPS receiver for gaining tractor location and (c) the tractor ISO data communication system (ISOBUS) for recording implements working parameters (i.e. a plough or cultivator).

Team



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