1.4 FARM MACHINE INTEROPERABILITY

4/7

CURRENT TRL
& TARGET TRL

COUNTRIES

PARTNERS

CNH INDUSTRIAL

AARHUS UNIVERSITY

kverneland group

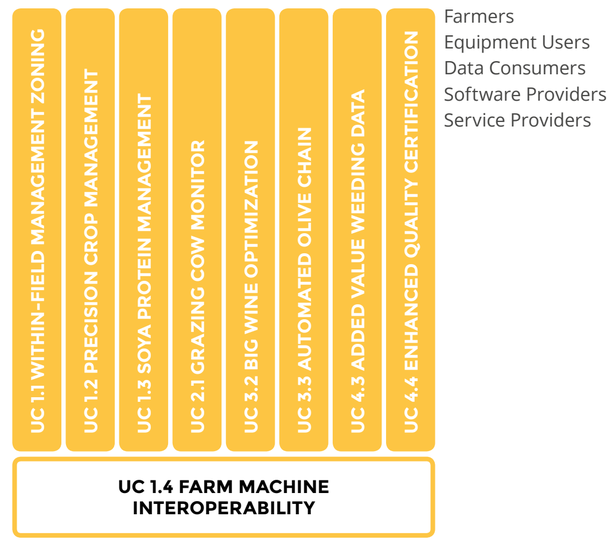
AGRO INTELLIGENCE

365FarmNet

AGCO Your Agriculture Company

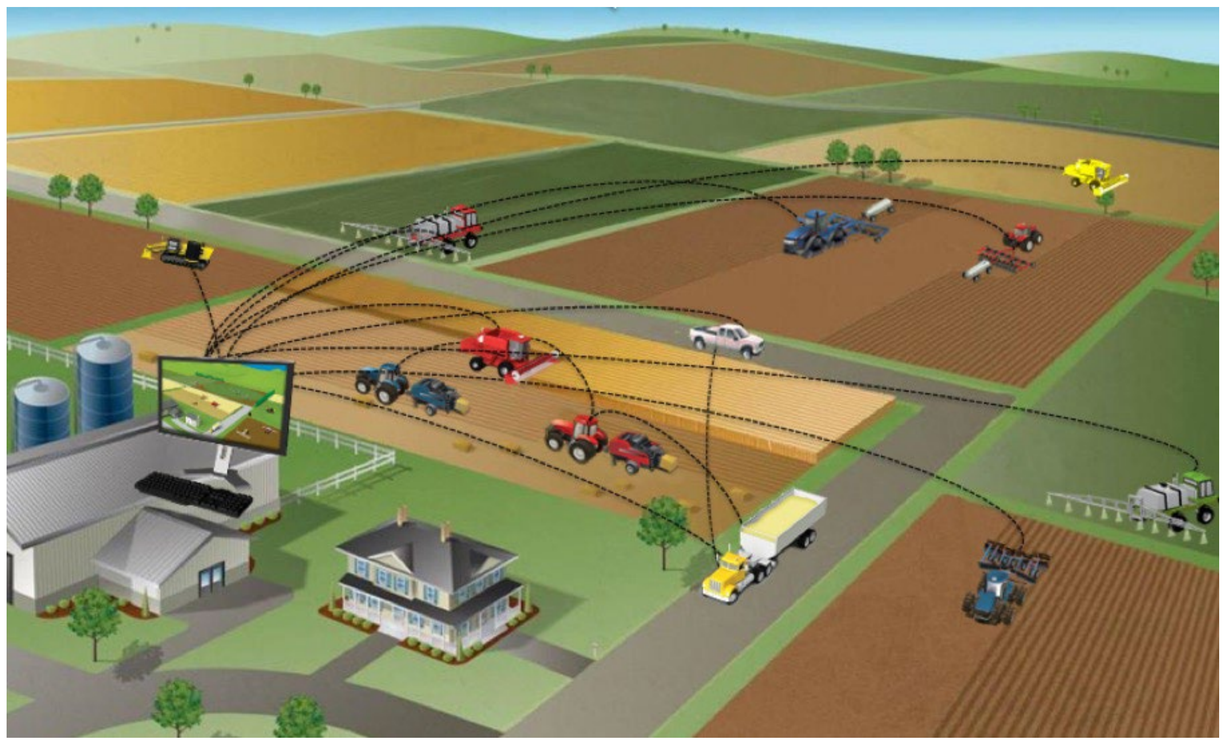
WAGENINGEN UNIVERSITY & RESEARCH

Every farmer wants his equipment to work seamlessly together, designed as one integrated system. Since farmers also want freedom of choice to select the best equipment for their needs, they expect equipment, machinery and software to work together in an interoperable way, regardless of the provider. Interoperability of IoT devices and machinery today is in its infancy. For the farmer, it is a challenge to make all devices work together in the digital space, as there are different platforms using vendor specific communication

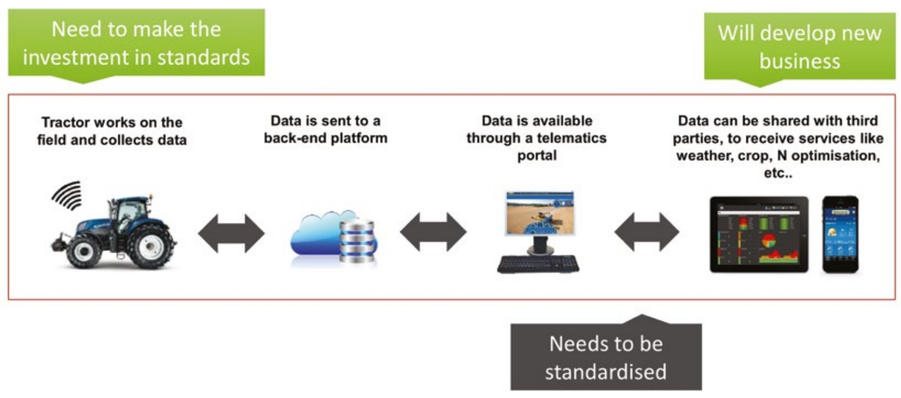


The horizontal use-case on interoperability overarching the vertical production management oriented use-cases

HOW IT WORKS



Plan of connected and interactive multiple electronic devices that are not fixed in one place.



Applying communication standards for optimized pairing and wireless communication between units in the IoMT in farming. Data transfer via standard communication definitions, enabling a single connection methodology. Enabling access to data and decision support through one interface. Service providers can add value to data based on a single API.

THE IMPACT

OUR OBJECTIVES

- Wireless connection of machine and sensor data,
- Demonstrate interoperability,
- Single API for integration of geospatial data,
- Share technical solution with the Standard Development Organisations.

OTHER IMPACT

As UC 1.4 is a horizontal use-case, feeding into other use-cases, UC 1.4 is enhancing the KPIs from the other use-cases. Collaborating use- cases include UC 1.1 and UC 1.3

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement №731884. Visit IOF2020.eu for more information about the project.