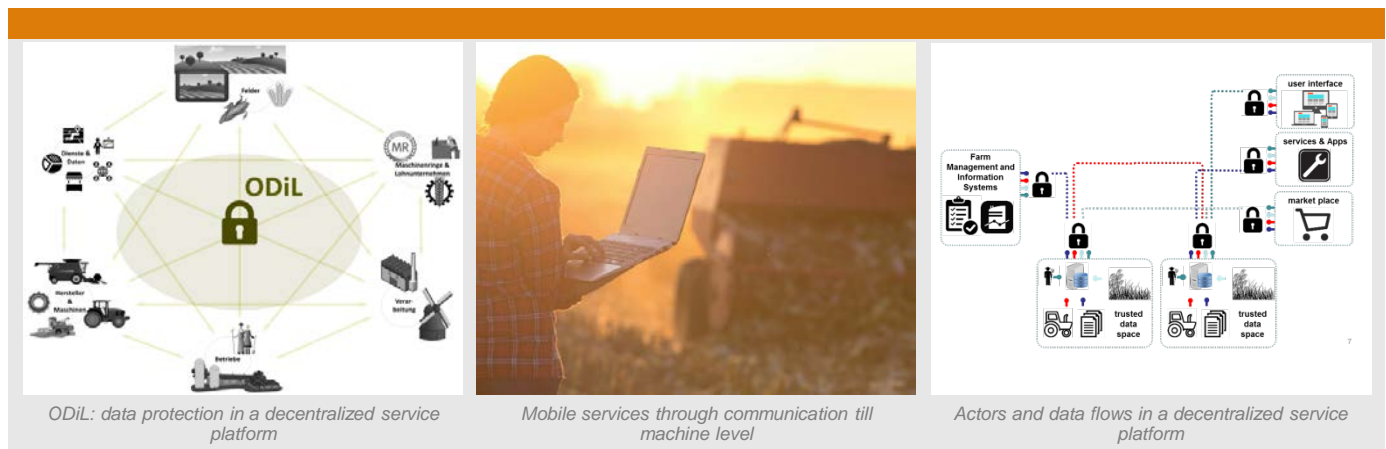


# ODiL

## Open software platform for service innovation in a value added network for agriculture



### A decentralized platform for agriculture services

Whether normal operations of farms, storage and processing of big volume farm data, control of farm equipment or the rendering of services by agricultural contractors – digitalization has changed many aspects in the field of agriculture. The data is managed by a multitude of software systems, which handle different parts of the value chain: farm management information systems, telemetry systems, logistics systems, software used by contractors etc. At present, this heterogeneity makes it hard to build optimal value chains. Ownership of business data and the protection of personal data is not always ensured, especially at the interfaces between systems.

ODiL develops an open platform for the integrated, scalable, networked and secure representation, communication and processing of data and services in the context of agricultural enterprises. It links all actors of the agricultural value chain and enables them to purposefully share services, requests and data in a secure way, while existing machines and information systems can continue to be used.

The development of ODiL encompasses not only the platform architecture but also components for communication, data storage and interaction as well as mechanisms for definition and system-wide enforcement of ownership and access rights to data. Cross-sectional topics are the security of personal and valuable data and an acceptance analysis of the system.

The open platform enables the development of value networks with high economic relevancy. ODiL supports this by making the essential platform software available under Open Source licenses, making it accessible not only to project partners, but anyone. This ensures that the platform can be used, extended and distributed beyond the project duration. Work within the project ODiL is done in the context of the DFKI competence center Smart Agriculture Technologies (CC-SaAT).

Duration: 07/2016 – 06/2019

Partners:



SPONSORED BY THE



MANAGED BY



*This research and development project is funded by the German Federal Ministry of Education and Research (BMBF) within the Program "Innovations for Tomorrow's Production, Services, and Work" (funding number 01FJ16001) and managed by the Project Management Agency Karlsruhe (PTKA). The author is responsible for the contents of this publication.*



#### Contact:

DFKI GmbH  
Robotics Innovation Center

Dr. Stephan Scheuren

Phone: +49 541 - 386050 - 6644

E-mail: Stephan.Scheuren@dfki.de

Website: dfki.de/robotics; odil-projekt.de