

SUMMARY - The Agricultural Campus 2020 Projects



The Agricultural Campus 2020 - project was implemented with two separate projects:

the Development project 2020 between 1.9.2019 and 31.8.2022.

the Investment project 2020 between 1.9.2013 and 31.10.2021

The results of the projects strengthen the prerequisites for education, entrepreneurship and research and development in the area's natural resources sector. With the training, it is possible to better meet the skills needed in the working life.

The implemented learning environment for livestock production in Kannus serves as a model for sustainable operating methods in relation to for example animal welfare, fodder production, circular economy, biosecurity and carbon-neutral operating models, thus promoting the competitiveness of livestock farms in the region.

In The Development Campus 2020 development project, it was found out what the dairy farm of the future would be like, for example from the perspectives of well-being, functionality, automation, circular economy, biosafety and the latest technologies. 12 workshops were organized during the project, to support the functional planning of the learning environment for livestock production but also meetings and visits were organized within the industry. Projects website has material, models and experiences about the useful solutions. www.kpedu.fi/luovakampus

The partial implementer of the project, Oulu University of Applied Sciences, designed the digital solutions serving distance education and technical activities, such as the digital bridge. Digital bridge means a production management system that collects data on milk production and feeding. It holds 13 recording cameras in the yard and a data collection system that collects condition data and consumption figures.

In the project, the design, construction, and equipment procurement of the learning environment for livestock production, as well as the equipment for the learning environment for simulation teaching and animal care, were tendered and procured.

In the Agricultural Campus 2020 investment project, a learning environment for livestock production was organized in Kannus, a dairy farm with one robot, which was equipped with versatile technology and automation as well as remote connection possibilities. For the small animal reception in the campus, an X-ray and inhalation anesthesia equipment and two blood analyzers were acquired. Trotting and riding simulators were purchased for horse husbandry education in Kaustinen, and forest machine and multi-purpose simulators were purchased for forest machine and agricultural education in Kannus.

As a result of the projects, **two new innovation platforms** were completed in Central Ostrobothnia. The modern livestock production learning environment at Kpedu's Kannus location serves training and R&D activities. Another innovation platform was built inside the learning environment, a digital bridge, i.e., a digital solution that enables the transmission of data between the learning environment and the collaboration network. The result is also a R&D platform service developed inside the innovation platform and a digital service applicable for educational use.

Cooperation with universities, research institutes and companies has increased, and joint development projects are being prepared. Purchases of simulators and equipment promote learning, have diversified the training offer, and enabled new training services, for example the vocational training of an animal clinic nurse.

