

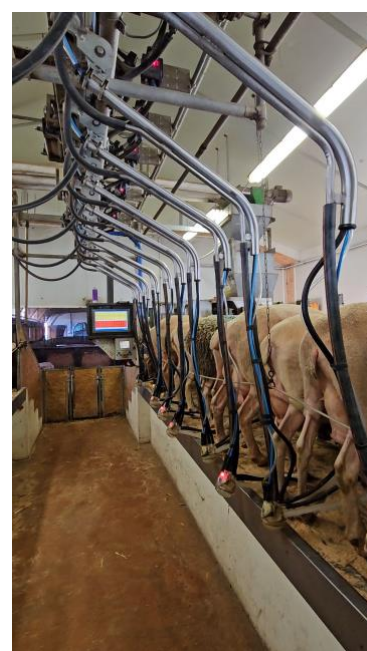


## Large scale farms from France

In France, the CNBL and IDELE are conducting trials on 10 dairy sheep farms located in Aveyron, within the Roquefort region. These farms are equipped with individual milk meters in the milking parlors, and we have installed a weather station as well as environmental sensors in the sheepfolds. The weather station measures external temperature and humidity, while the sensors monitor indoor temperature, air and bedding humidity, and the emission of fine particle.

In addition to milk production and climate data, animal welfare assessments are carried out every 3 to 4 months on a sample of each flock (approximately 60 ewes per farm). This assessment involves observing the cleanliness and moisture of the fleece, the cleanliness and any inflammation of the udder, signs of lameness, and potential respiratory discomfort.

The goal is to analyze whether weather conditions impact milk production and if a drop in production or a change in the milking order coincides with health issues such as mastitis or lameness. If these hypotheses are validated, animal welfare prevention alerts could be implemented. Additionally, milk production data will allow us to compare the different milk meters used on the farms and identify potential data transmission errors.



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