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Subject	Abstract presented manuscript as ORAL presentation	DataHUB360°, data at the service of breeders

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Session: Using sensor technologies for health and welfare monitoring and recording as part of dairy herd improvement

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ABSTRACT

The evolution towards the automation of dairy farms is booming in the agricultural world, the digital data of breeders must take the turn of high-speed exchanges and allow valuation for the purposes of advice, calculation of indices for the genetics, but also predictive models on milk production and also on the management of their herd with short and long term modeling.

With the arrival of robots, connected milking parlors and sensors installed directly on the animals, breeders' demands are exploding. Each automaton needs individual data such as the inventory and the events of all the animals to ensure their operation and feed their algorithm to alert breeders on a daily basis in terms of heat detection and health.

The France Conseil Elevage federation and its network have been tasked with developing a high-speed data exchange platform called dataHUB360°, to meet the demand of breeders and automaton manufacturers for the import of data in real time and the daily export. Today, each breeder in the process of installing an automaton requests the dataHUB360° link to have the history of inventory data and events for his breeding, and avoid entering this information manually.

The second step was to export the sensor data and ensure its daily delivery to the evaluation database.

The enhancement of this data has made it possible to offer new services to breeders, a comparison by type of feeding system, in connection with the milk production of his herd, but also to secure the data feeding the genetic system of tomorrow based on actual farm data.

The circulation of import and export data has opened up new perspectives for farmers, the milk production forecasting software is now operational, the comparison of animals within the same farm or between farms is in progress, and opens a new perspective on reproductive decision-making. Work is underway to harmonize health data on automated devices in order to export it and use it for consulting purposes.



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