

ICAR/IDF joint workshop

USING SENSOR DATA FOR ANIMAL HEALTH AND WELFARE IMPROVEMENT ALONG THE DAIRY VALUE CHAIN:

MERITS AND REQUIREMENTS

Expectations, needs & requirements - the manufacturer perspective

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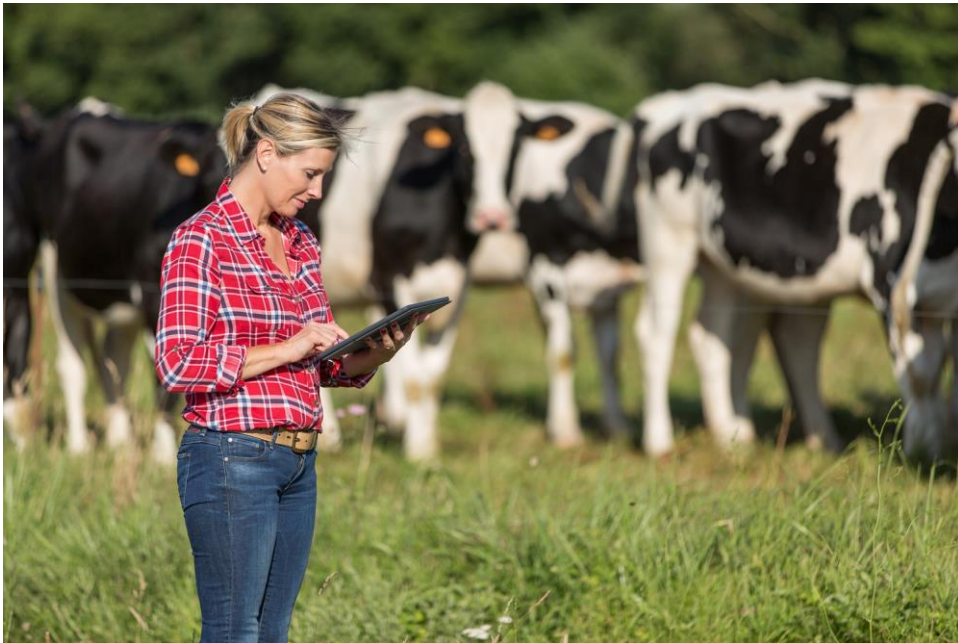
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We live milk

Why using sensor technology & data driven decision making?



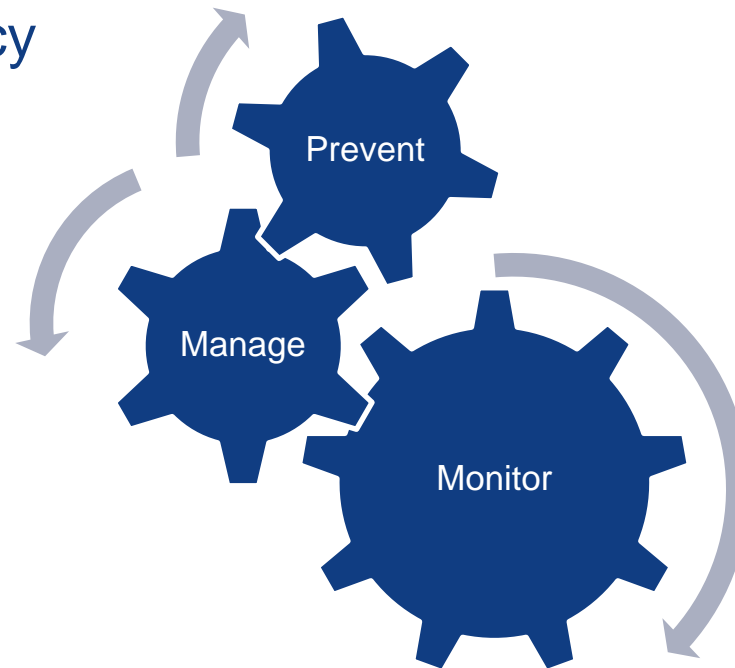
Do more, with less

- Greater efficiency and profitability
- Increased animal health & welfare
- Improved longevity
- Higher flexibility
- Reduced environmental footprint

We at DeLaval can support our customers to achieve their sustainability goals!

We invent and develop solutions that enable

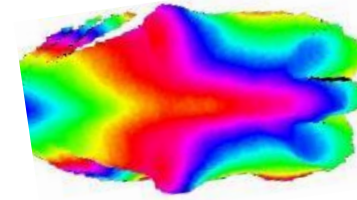
- High level of animal welfare
- High production efficiency
- High reproduction efficiency
- Longevity





High activity

Low activity



What data is important for farmers and their advisors/stakeholders to make better decisions?

Visits to feed station

Flow

ICAR and IDF working groups on sensor information

- important drivers to promote PLF

Body weight

Urea

Colour / blood



ICAR & IDF are important to support dairy farmers towards sustainable dairy production with precision dairy farming...

- **...through guidelines for sensor-based welfare assessment**
 - Definitions for health and behaviour conditions of interest
 - Thresholds for deviations
 - Standardization across different types of sensor technologies targeting these conditions
- **...using IDF approach on mastitis as inspiration**

Novel ways to use sensor data to improve mastitis management – ScienceDirect

- Farmer in the center
- Define relevant situations where sensor information is needed for decision making
- Define required performance to identify animals in need of intervention

ICAR and IDF – a forum & community to facilitate collaborations between stakeholders

- Strong network of scientific experts
- Identify research gaps and facilitate research to solve them
- ICAR/IDF Guidelines: evidence-based, definitions and standards that support industrial innovation and product development
- We at DeLaval have a strong interest to collaborate with ICAR to support these goals and developments towards sensor-based welfare assessment to the benefit of the dairy industry



Joined efforts and strong collaboration among all stakeholders needed!

A black and white cow stands in a lush green field under a clear blue sky. The cow is looking directly at the camera with a curious expression. It has a yellow ear tag with the number '9263' and a blue collar with a tag. In the background, there are rolling green hills, a line of trees, and a distant mountain peak under a sky with scattered white clouds. Other cows are visible grazing in the distance.

Thank you for your attention!



We make
sustainable
food production
possible