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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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

Fun and well-being!
What data is important for farmers and their advisors/stakeholders to make better decisions?

ICAR and IDF working groups on sensor information - important drivers to promote PLF

- Body weight
- Milk yield
- Flow
- Urea
- Body condition score
- Feed consumption
- Visits to feed station
- Gate passages
- Electrical conductivity
- Colour / blood
- Milking interval
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!
Thank you for your attention!
We make sustainable food production possible