



Network. Guidelines. Certification.

WELCOME

**Using sensor data for animal health and welfare improvement
along the dairy value chain: merits and requirements**

ICAR 2023 Toledo, 25.5.2023

ICAR FTWG, IDF SCAHW and experts

Objective of ICAR FTWG / IDF SCAHW

Initiative on use of sensor data



- addresses **sensor data and its use for functional traits** (reproduction, health and wellbeing,..) by improvement of **genetics, herd management and quality assurance**
- brings together **different stakeholders** as technology providers, users of information and scientists - to share views, expertise, knowledge, usage of this information in their domain of activities - link to other ICAR committees and groups
- **explores opportunities and challenges** for recording, standardization, validation, trait definition and use of this information **and come up with solutions**
- elaborate **recommendations, lessons learnt**
- **creates base for a new “ICAR / IDF Guidelines** on use of sensor data together with other animal- and farm based information to improve health and wellbeing”

Aim of initiative / AIM and SCOPE of the Workshop

- Explore **needs and discuss requirements for the use of sensor data in the context of animal health and welfare**
- **Perspectives, interests and demands of stakeholders**
- **Presentations by different experts** should give more insight in present status, successes, challenges,... - reveal knowledge gaps
- **Joint discussion with the audience** identify knowledge gaps and needs,... prioritized also regarding the **role of the ICAR Functional Traits Working Group and the IDF Standing Committee on Animal Health and Welfare for supporting future developments.**

Please note, that the workshop **does not cover issues of sensor data accessibility**



Programme

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08:30 – 08:35 Aim and Introduction by ICAR FTWG and IDF SCAHW

08:35 – 9:35 Short statements by stakeholders on their expectations, needs, and requirements of using sensor data

- Santiago Garcia Souto (Ganadería Asunción, Spain) – Farmer’s perspective
- Florian Grandl (LKV Bayern, Germany) - Perspective of a DHI organisation
- Gerben de Jong (CRV, Netherlands) – Perspective of a breeding organisation
- Francesca Malchiodi (Semex, Canada) – Perspective of an AI company
- Hen Honig (Veterinary Service, Israel) - Perspective from animal welfare label programs and certification bodies
- Ilka Klaas (DeLaval, Sweden): Needs, perspective from the manufacturer

10:00 – 10:30 Using sensor data for measuring health and animal welfare

- Anna Stygar (LUKE, Finland): General aspects of measuring animal health and welfare using sensor technology

10:30 – 11:00 Coffee break

11:00 – 11:30 Challenges of using and integrating sensor data and suggestions for solutions

- Jeffrey Bewley (Holstein Association, USA): Challenges of using sensor data across devices and brands
- Victor Cabrera (University of Wisconsin, USA): Challenges and possible solutions for data integration and use on dairy farms.

11:30 – 12:15 Presentations by experts on the status quo and success stories from different domains

- Robert Fourdraine (Dairy Records Management Systems, USA): Success stories in herd management
- Bjorg Heringstad (NMBU, Norway): Use of sensor data for breeding and genetics
- Miel Hostens (Utrecht University, Utrecht, The Netherlands) – Automated welfare monitoring across the chain – Promise or over-promising

12:15 – 12:50 Open plenary discussion

Open discussion with representatives from various stakeholders and manufacturer

12:50 – 13:00 Wrap up and closing of the workshop



Open plenary discussion



Open plenary discussion – improve benefit out of sensors for animal health and welfare

- Questions to the speakers ?
- What is already being done / on the way ? (ICAR, IDF, ...)
- What is needed ? Where can ICAR (FTWG) / IDF (SCAHW) support the members, the community ?

Wrap-Up and closing of the workshop



Next steps

- coordinate with other relevant ICAR groups and IDF SCAHW the next steps based on the information, feedback, ... from ICAR 2023
- define topics of interest / need within expert group (rep. ICAR FTWG / IDF SCAHW, experts)
- contact / reach out to manufacturers
- if you are interested send email to:
 - egger-danner@zuchtdata.at
 - mosconi@icar.org