



Horizon 2020  
Programme

# Report of the 5th Norwegian national workshop

## Stjørdal, 1-2 March 2024



This project has received funding from  
the European Union's Horizon 2020  
research and innovation programme  
under grant agreement N° 101000471.



## OBJECTIVES

The objectives for the fifth national workshop were (NWS 5):

- To present Sm@RT project progress
- To meet face to face and create links and cross-fertilisation
- To present technologies solutions and discuss needs and barriers to uptake
- To visit a sheep farm and showcase innovative solutions

## ORGANISATION AND ATTENDEES



The fifth national workshop was the face to face national meeting. It took place at Kvithamar in Stjørdal, Norway, on the first and second of March 2024.

The agenda of the meeting is detailed in the annex 1.

This workshop was organized in collaboration with the small ruminant-group in Agritech Cluster, a technology-oriented agricultural cluster based in

Mid-Norway. The sheep industry, agricultural advisory services and cooperatives are represented in this group.

A total of 55 people participated to this workshop (33 farmers, 1 researcher, 13 consultants and 8 from tech-companies).

## FRIDAY 1. MARCH



After a short welcome Lise Grøva (NIBIO) presented the work done in the Sm@RT project. Torhild Svisdal Mjøen (NLR, advisory service) presented Grønn Forskning and Agritec Cluster.

Then the participating technology companies had a 10-minute pitch about the technology solution they were bringing:

- **Camera surveillance, fire detection and sensor technology**, Martin Lian Sæternes and Erlen Arntzen, [Elotec](#)
- **GPS-tracking system**, Marit Solem Mjøen, [Findmy](#)
- **Virtual fence**, Berit Langseth and Hanne Naastad, [Nofence](#)
- **Sheep data recording system** Maren Helene Rud, [Animalia](#) and **RFID and ID-readerstick**, Terje Gjersøe, [Sauebonden](#) Signe Marie Jahren Viaud, [BioControl](#),
- **Drones and thermal camera**, Atilla Haugen, [Biodrone](#)

After lunch the participants were divided in six groups, and visited the stands manned by the tech companies for sharing experiences, asking questions, and discussing possibilities and challenges related to the technology solutions.

In addition, Lise Grøva was at a stand where the participants reviewed the ADOPT-questionnaire.

The groups visited all the stands, moving to the next post every 30 minutes. There was a lot of engaged discussion going on all around the barn!

This exchange of ideas and thoughts is very useful, not only for the farmers and advisors, but also for the technology companies.

The day was concluded with a nice dinner at the hotel, where the participants continued their conversations.

## SATURDAY 2. MARCH



On the second day of the workshop, we travelled by bus to Verdal (one hour's drive) and visited the meat sheep farm run by Audun Tiller. During the trip Olav Tiller, Audun's father, informed about the landscape and the agriculture in the region.

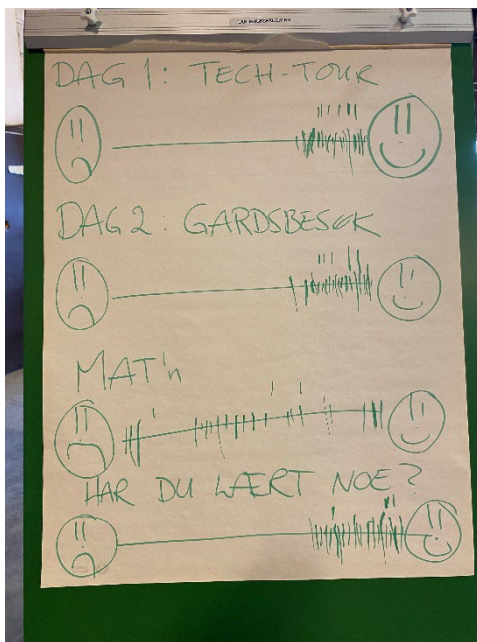
Audun presented the main facts about the farm, and the technology solutions used in his farm management.

After this introduction the participants were divided in three groups and visited three stands:

- **RFID reader and digital weight** – Audun Tiller and Terje Gjersøe (Sauebonden)
- **Flock management system** – Agnete Lien Aunsmo (Nortura) and Maren Helene Rud (Animalia)
- **Drone with thermal camera**
- After a coffee break the bus went back to Stjørdal, where lunch was served.

The day was concluded by Lise Grøva with a short presentation of the results from the ADOPT-workshop the day before, and a short presentation of other NIBIO projects on sheep farming.

The participants were also asked to give their opinion on what was the best time and preferred topics for a webinar week that NIBIO will organize.



The low-tech evaluation form shows that the participants were very satisfied with the learning outcomes of the workshop.

## ANNEXES

[Annex 1: Detailed program](#)

[Annex 2: List of participants](#)