



# Report of the fourth national workshop (NWS 4)

Estonia



Sm@ll Ruminant Technologies



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**ESTONIA (COMMON SESSION MEAT SHEEP+ DAIRY GOAT/DAIRY SHEEP ):**

**Date and place of the NWS 4: 24 th May 2023, 10.00- 16.00 pm. ,Farm Demo in Murese OY, workshop in Kalda Holiday house (Kalda Puhkemaja)**

**Present:**

**Number of participants: 17**

**Peep Piirsalu (EULS & NF), Maria Soonberg (EULS), Kermo Rannamäe (Digifarmer, Andri Peedo OY), Karen Nunez Arm (Innovative farmer, Murese OY), Madis Arm (Innovative farmer, Murese OY), Rein Mirka (Innovative farmer, Wasala OY), Janika Mirka (Innovative farmer, Wasala OY), Hugo Vaino (Innovative farmer, Rehekivi OY), Tiina Vaino (Innovative farmer, Rehekivi OY), Hillar Kalda (farmer, Hillar Kalda FIE), Annika Kalda (farmer, Hilika OY), Marwin Joosep Wirkus (Mäeoja Talu OY), Katrin Tähepõld (Hallimäe Farm OY), Jüri Pärnat (OY Sossemetsa Talu), Mirjam Pikk mets (OY Aaduni), Priit Jõesalu (OY Oruküla), Evelin Niinepuu (OY Oruküla).**

**Organisation:**

Agenda:

10.00- 10.15 Introduction, participants introduction, (Peep)

10.15-12.00 Farm Demo on Murese Sheep farm - EID stick reader Allflex RS420, Prattley weighing cage, Tru-test XR3000 indicator, IILivestock app). **Karen Nunez Arm and Madis Arm**

12.00-12.15 Drive to the Kalda holiday house (Kalda Puhkemaja)

12.15- 13.00 Coffee & lunch

13.00- 13.45 Smart project presentation (International visit- New Zealand, TNWS3- France, future visits TNWS4- Norway (Peep)

13.45- 15.30 Adopt sessions (EID stick reader, EID weighing crate)

15.30-15.45 Discussion about Adopt session results

15.45-16.00 Questionnaire and information about TNWS4 (Norway)

**Farm Demo on Murese Innovative Sheep Farm**

Innovative farmers Karen Nunez Arm and Madis Arm demonstrated on their farm how they use an EID stick reader Allflex RS420, an XR3000 weight computer paired with a Prattley weigh crate, and the IILivestock app to weigh their sheep and manage performance data. There was a discussion where other farmers also talked about their farm's experiences of using similar equipment.





Fig.1. Karen Arm and Madis Arm demonstrating EID stick reader and EID Prattley weighing crate on NWS4



Fig.2. Farm Demo/training and Participants in NWS4.

After Farm Demo all participants moved to the Kalda Holiday house (Kalda Puhkemaja).

**Workshop objective :**

- a. **Objective:** to share about technologies seen in New-Zealand and get feedback on the adoption of solutions listed before in the project
- b. **Target:** Farmers, advisers, consultants, technicians, innovative farms.

Peep thanked everyone for attending. He gave a brief overview of the Sm@rt project including objectives of the project and levels of networking (i.e. digifarm and innovative farms). After that Peep made a presentation about New Zealand international visit (January 28 th to February 11 th 2023).

The workshop continued with Adopt sessions, where the participants estimated the time of possible adoption of the technologies seen in Farm Demo using Adopt <https://adopt.csiro.au/Login.aspx?LO> and Mentimeter software. Peep divided participants into two groups: 1 group estimated EID weight crate (7 farmers incl 2 vets and 1 consultant) and the 2. Group estimated stick reader (3 farmers incl 1 vet).

Adoptation results showed that EID weight crate's time to near peak adoption level in Estonia could be 16 years and adoption level 24 %. Time to near peak adoption level for stick reader is 13 years and peak adoption level is 72 %.

At the workshop, the technologies seen during the farm demo were also evaluated by farmers using the corresponding questionnaire below. Result for EID stick reader before training and after training are seen in following tables.





EID stick reader			
1) Do you have this tool ?	2) Do you think it is worth investing in it?	3) Would you like to implement it on your farm?	4) Level of practicality (1=low; 4=high)
No	Yes	Yes	4
No	Yes	Yes	4
No	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
No	Yes	Yes	4
No	Not sure	Not sure	3
Yes	Yes	Yes	4
No	Yes	Not sure	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4

EID stick reader			
1) Do you have this tool ?	2) Do you think it is worth investing in it?	3) Would you like to implement it on your farm?	4) Level of practicality (1=low; 4=high)
No	Yes	Yes	4
No	Yes	Yes	4
No	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
No	Yes	Yes	4
No	Not sure	Yes	4
Yes	Yes	Yes	4
No	Yes	Not sure	4





Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4

The EID Prattley weighing crate and Tru-test XR3000 indicator was also evaluated by the farmers. The results can be seen in the two tables below, where the first contains the answers to the questions before the training and the second after the training.

EID weight crate			
1) Do you have this tool ?	2) Do you think it is worth investing in it?	3) Would you like to implement it on your farm?	4) Level of practicality (1=low; 4=high)
No	Yes	Yes	4
No	Yes	Yes	4
No	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
No	Yes	Yes	4
No	Not sure	Not sure	3
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4





EID weight crate			
1) Do you have this tool ?	2) Do you think it is worth investing in it?	3) Would you like to implement it on your farm?	4) Level of practicality (1=low; 4=high)
No	Yes	Yes	4
No	Yes	Yes	4
No	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
No	Yes	Yes	4
No	Not sure	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4
Yes	Yes	Yes	4



**Workshop contents proposition:**

Section	Timing	Objective of the section	Content – what are the participants doing	Who does what?	Material/props needed
Welcome and project progress	30' (30')	Reminder of the previous meeting (NWS + TNWS)  Objectives for the afternoon	Introduction, rules of engagement, health & safety rules, objectives, quick agenda.  What do you remember from the last sessions?	NF  NF or other colleague	PPT or oral
Feedback on the solutions seen in New-Zealand	60' (90')	Feedback on the New-Zealand tools and farms	Presentation of the trip, the farms and <b>the tools</b>  <b>Discussion:</b> <ul style="list-style-type: none"> <li>- What do you think about it?</li> <li>- Did some technologies interest you?</li> </ul>	NF	PPT
ADOPT	75' (165')	Estimation of the adoption level of one or more technologies	Select 1 or more tools, and in small groups of 3 – 5 people, fill the ADOPT questionnaire. Use mentimeter for the group to answer.	NF + one or more colleague	PPT Mentimeter
Conclusion	15' (180')	Next steps and how we value their input.  Dates	Reminder of the website + social media  Next steps – TNWS, etc.  Use of paperboard for feedback: 2 questions with 3 smileys each :	NF	PPT Paper board pens



			<ul style="list-style-type: none"><li>- Did you enjoy the meeting and discussions?</li><li>- How was the meeting organisation?</li></ul>		
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