



Integrating innovative **TECH**nologies along the value **Chain**
to improve small ruminant **welfARE** management

Final conference Conclusions


*17 - 18 June 2025
University Foundation - Brussels*



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862050



To propose innovative and cost-effective technologies to improve welfare management in small ruminants

- With **technologies adapted** to small ruminant production 
- By considering the **whole production chain (only up to the abattoir)**
- With adapted **early warning systems**
- Using appropriate **business models**

**‘Low-cost’ & relevant to
most small ruminant
farmers**



TechCare – Outputs after 5 years

2 main outputs :



Technologies ready to implement on farms/value chain, to improve welfare management



Technologies not yet acceptable entirely to whole industry:

- I. Only available to innovative farmers
- II. Still to be developed



- ✓ EID weigh crate + reader(s)
- ✓ Electronic milk meter
- ✓ Milk tank weight
- ✓ Weather station/indoor sensors

TRL 8-9


- THicare app
- Milking order alert
- Weight change alert (dairy & meat)
- Breedr app



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- ✓ Trough AI
- ✓ UHF platform
- ✓ Abinsula platform
- ✓ GPS collars

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- ✓ BLE
- ✓ Proximity loggers
- ✓ Accelerometers

TRL 6

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- ✓ Welfare priorities lists
- ✓ 4 sets of welfare assessment guidelines
- ✓ 4 broad categories of welfare indicators
- ✓ Indicators for transport

- 
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Blueprint for other species



TechCare – Stakeholders/farmers?

- Stakeholders keen to be engaged, even after 5 years
- Farmers in large-scale pleased to be involved
- Some farmers want to keep using the technology



THANK YOU!

