This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement №731884



IoF2020 U.C 2.1: Grazing Cow Monitor

EU project for IoT innovations in agriculture

Guiot O., Claeys L., Eygi E., Cannière E., **Piccart K.,** Van De Gucht T., Lippens E., Maselyne J., & Van Weyenberg S.





Grazing Cow Monitor

Continuously monitoring the position of individual cows on pasture using a GPS tracker



Partners







Technology provider

Research & Coordination

Farmer network & Advice



Product







Long battery life (> 1 years)

Outdoor (GPS) + indoor (BLE) tracking

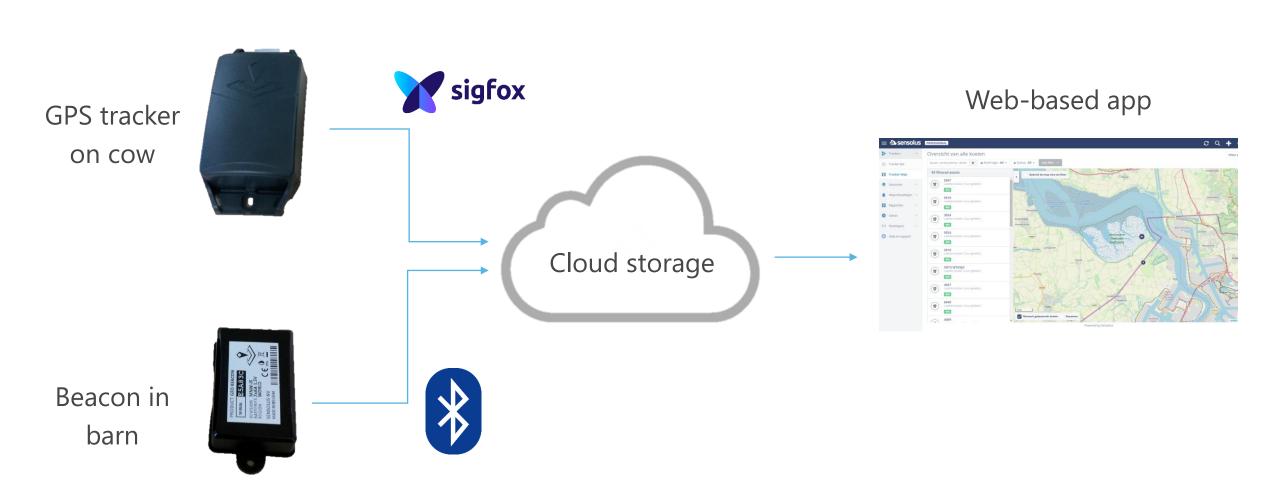
"StickNtrack" by Sensolus



Plug-and-play installation



Product





Application areas



Traceability of dairy / meat products

Pasture management

Natural grazing



Field trial

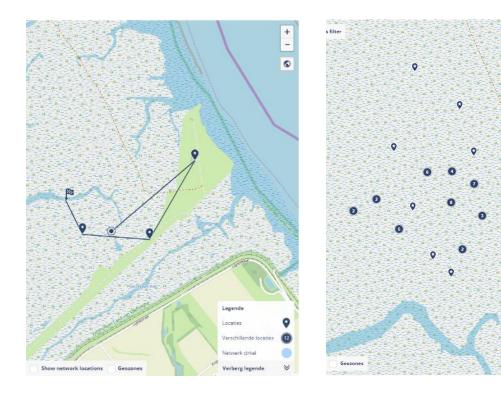


- Commercial farm with 80 adult
 Belgian Blue cows
- May Nov: natural grazing in 300ha salt marsh

 Problem: cows getting lost / stuck in ditches



Field trial



Individual cow journey

Herd overview

- GPS tracker attached to collar
- 6 location updates per 24h
- 3 types of alerts (email)
 - No movement (>6h)
 - No visit to water trough (>24h)
 - \circ No data received



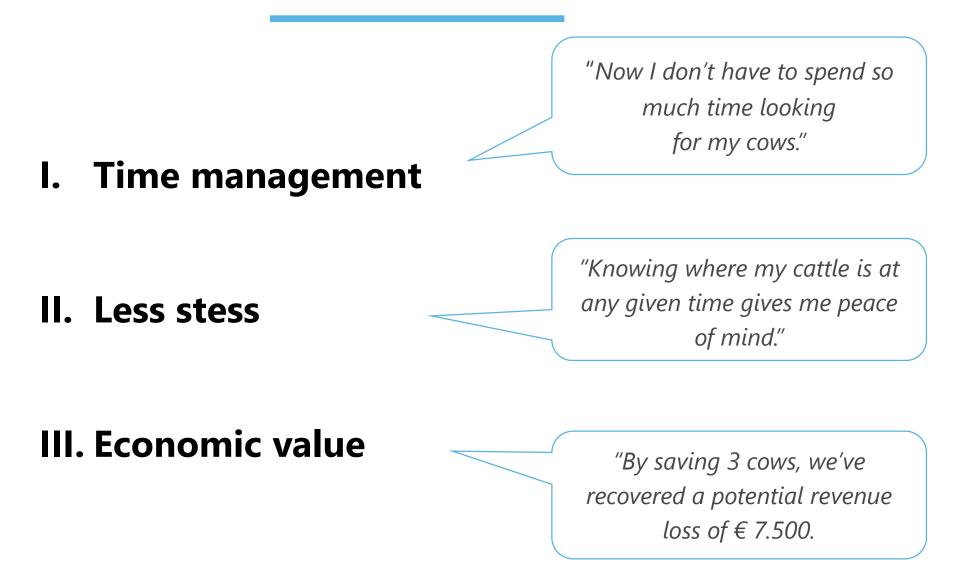
Preliminary outcome



- Grazing season 2018 2019:
 3 lost cows recovered
- Identify problems early on?
 - \circ Lame cows
 - Separated from herd (sick?)
 - Grazing behaviour



Farmer feedback





THANK YOU

Kristine.Piccart@ilvo.vlaanderen.be

Olivier.Guiot@ilvo.vlaanderen.be



