



# Task 4.2 Innovation case study report

# Individual data collected from EID for several purposes

(Use of EID and prospects)

# **iSAGE** Training Course and Workshop

Zaragoza, Spain, from 10 to 13 December 2019

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#### Use of EID and prospects

EID offers many possibilities to facilitate the management of goat and sheep flocks

New tools are being developed

But, it seems that the implementation of these technologies among sheep and goat farmers was relatively limited

## Main objectives of the case study:

- 1. Make a picture of the use in France
- 2. Linked to the H2020 SheepNet project, broaden the picture to Europe
- 3. Show the interests or the limits





#### France:

Questionnaire with 29 items



**631 answers** (295 meat sheep, 182 dairy sheep, 107 dairy goat) Questionnaire: 29 items general information about the farm and farmer, use of electronic identification (EID reader type, reader trademark, EID connected tool, flock management software, valorization), opinion on EID

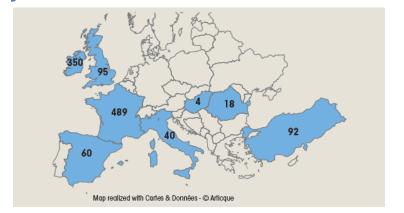
#### **SheepNet network:**

http://sheepnet.network/

the **same survey** extended to the various partners of SheepNet (Ireland, United-Kingdom, Turkey, Spain, Italy, Romania and Hungary) + results of a survey conducted by the SRUC in 2015 and 2016

# **Total of 1148 responses across 8 countries**







#### Use of EID and prospects

of respondants

100%

80%

70%

60% 50% 40%

30%

20%

62%

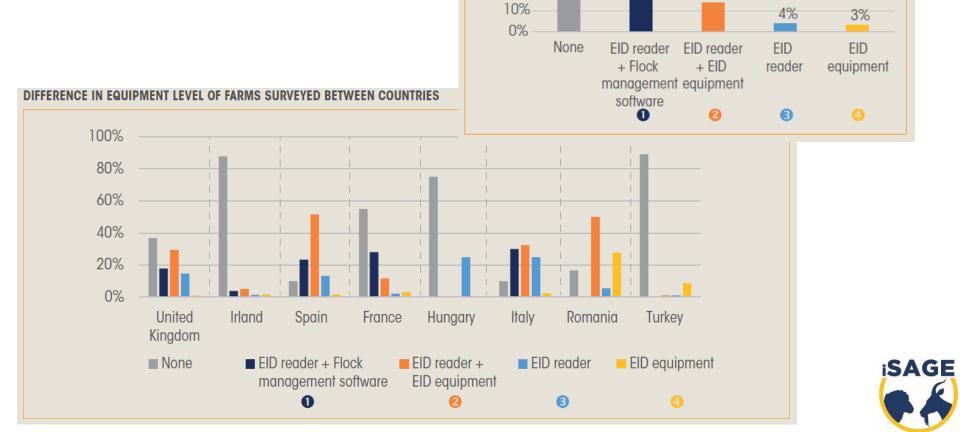
LEVEL OF EQUIPMENT OF THE FARMS SURVEYED

17%

14%

38% of the European sheep farmers equipped with EID tools

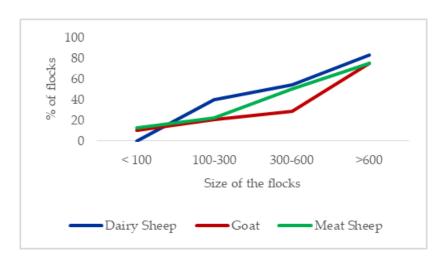
Main tool: EID reader



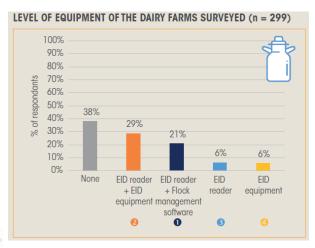
### **Main drivers:**

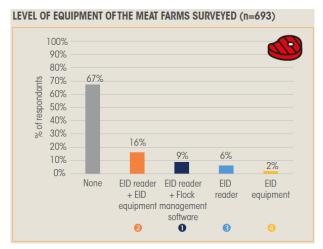
#### 1. Flock size

An almost linear relationship between % equipment and flock size



# 2. Production dairy > meat



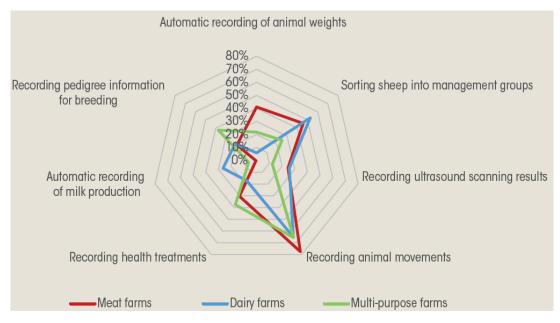




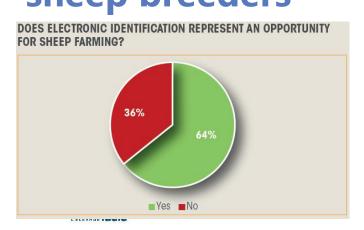


EID mainly used for recording animal

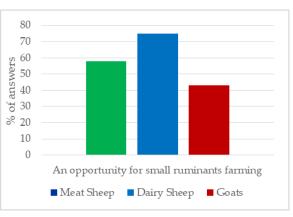
movements



An opportunity for 2/3 of the European sheep breeders



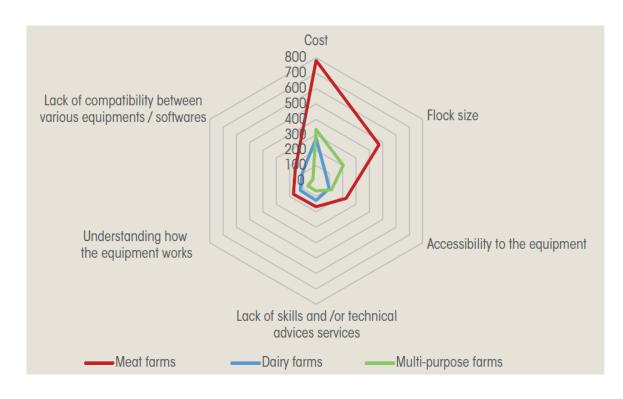
French survey:





#### The main constraint: cost

The others:
Flock size (cost/benefit)
Type of equipment
Compatibility between
equipments
Lack of skills,
Lack of advice services



A reluctance to use the EID technology for less than 10 % of the answers Few sanitary problems, losses... reported





### Some illustrations of EID use

#### Automatic milk recording

FID reader

Automatic feeder in milking parlour + **flock management** software

Ex. ESKARDILLO tool



#### Automatic weighing



Walk Over **Weigh** (WOW)





**Health**: EID weigh crate with autoshedder for targeted selective treatment

EID worming gun (with weigh crate/panel)

Management of **Reproduction**: electronic Alpha-Detector (detection of mounting activ

**Alpha®** 



#### Use of EID and prospects

#### For the future...

The potential of the EID technology is now well established.

Need to develop efforts in terms of communication, information:

- . About the different technologies,
- . To choose the better equipment regarding the objectives of the breeder,
- . To demonstrate through concrete examples, to show cost / benefit,
- . To work with the breeders to develop specifications to define tools that meet their expectations and with a "price" compatible with sheep and goat farming.

EU approach regarding funding for innovative technologies research and transfer, to motivate companies to invest in the small ruminant sector (/ cost)

Promote R&D programs to develop PLF in small ruminants

Explore technologies: latest knowledge, UHF technology, ...





Partners: IDELE, CNBL, CAPGENES, INRA

Thank you for your attention

# Thank to the breeders who accept to answer to the questionnaire

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