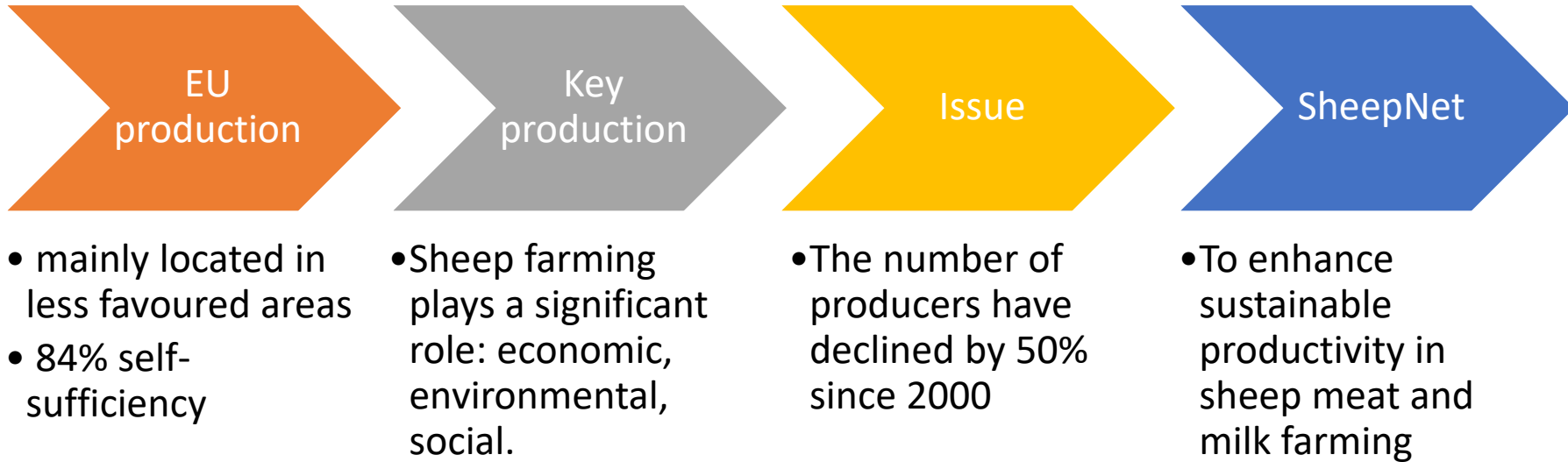


Reproductive indicators in sheep farming systems in Europe and Turkey

R. Ruiz, I. Beltrán de Heredia, C. Morgan-Davies, C.M. Dwyer, Frater P., TWJ. Keady, A. Carta, D. Gavojdian, S. Ocak, F. Corbière, JM. Gautier

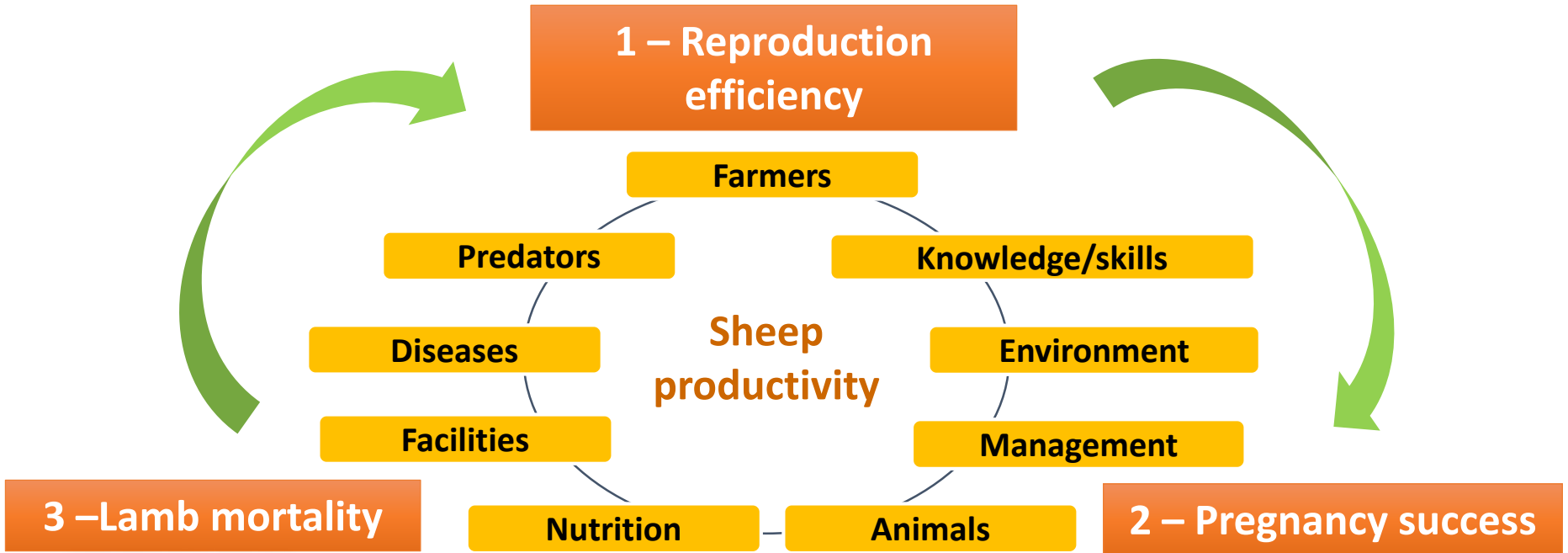




The SheepNet project: **SH**aring **E**xpertise and **E**xperience towards sheep **P**roductivity through **NET**working

... A Network for the improvement of Sheep Productivity in EU and Turkey

3 key factors affecting Sheep productivity



To assess the current situation of sheep farming in terms of reproductive and sheep productivity indicators, taking into account the wide diversity of conditions within the project member countries (FR, IR, IT, RO, SP, UK and Turkey):

- ewe genotype,
- Climate & environmental conditions (mountain areas, lowlands, etc.), production (meat, dairy or dual purpose),
- Level of intensification: reproduction and nutrition management

A set of **indicators** was established for each one of the 3 project topics:

- 8 fertility rate,
- 3 pregnancy success,
- 4 lamb mortality
- 3 Indicators of productivity
- 47 indicators to characterize production systems.

The **NF in each member country gathered the existing information** and databases for the corresponding sheep farming system in order to characterise its current situation and recent evolution during the last 5 years

MATERIAL AND METHODS

SCOTLAND

- Hills (1/year)
- Uplands (1/year)
- Lowlands (1/year)

IRELAND

- Hills (1/year)
- Lowlands (1/year)

SPAIN

- Mountain areas (Accelerated)
- Lowlands (Accelerated)
- Mountain areas (1 / year)
- Lowlands (Accelerated)
- Indoors (Accelerated)

FRANCE

- Mountain areas
 - Lowlands or grasslands
-
- 1 / year
 - Accelerated
- Rayon de Roquefort (1 / year)
 - Pirinees Atlantiques (1 / year)

ROMANIA

- Dual purpose (1 / year)

ITALY

- Sardinia island (1 / year)

TURKEY

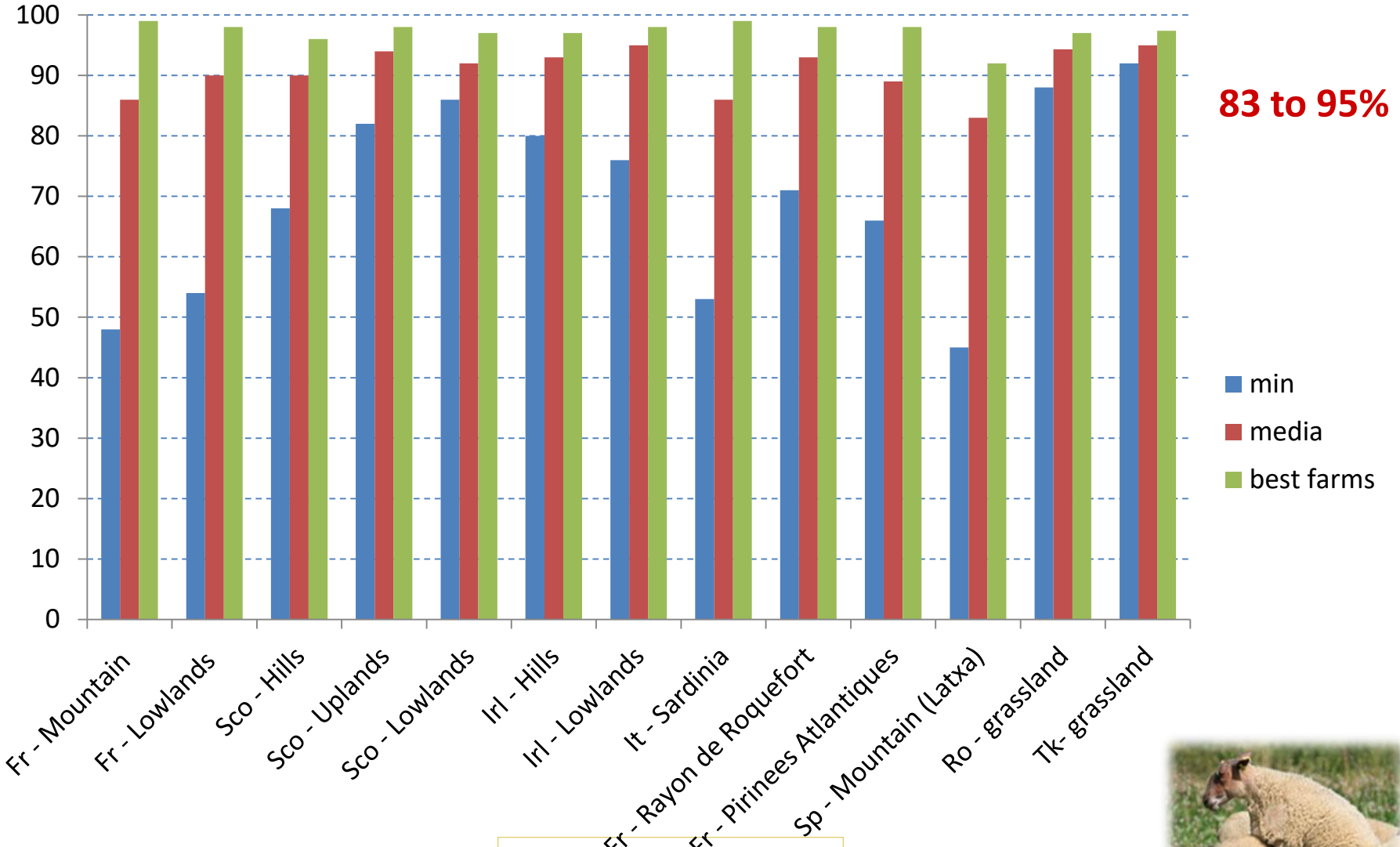
- Dual purpose (1 / year)



REPRODUCTION RATES

FERTILITY – 1 lambing / year

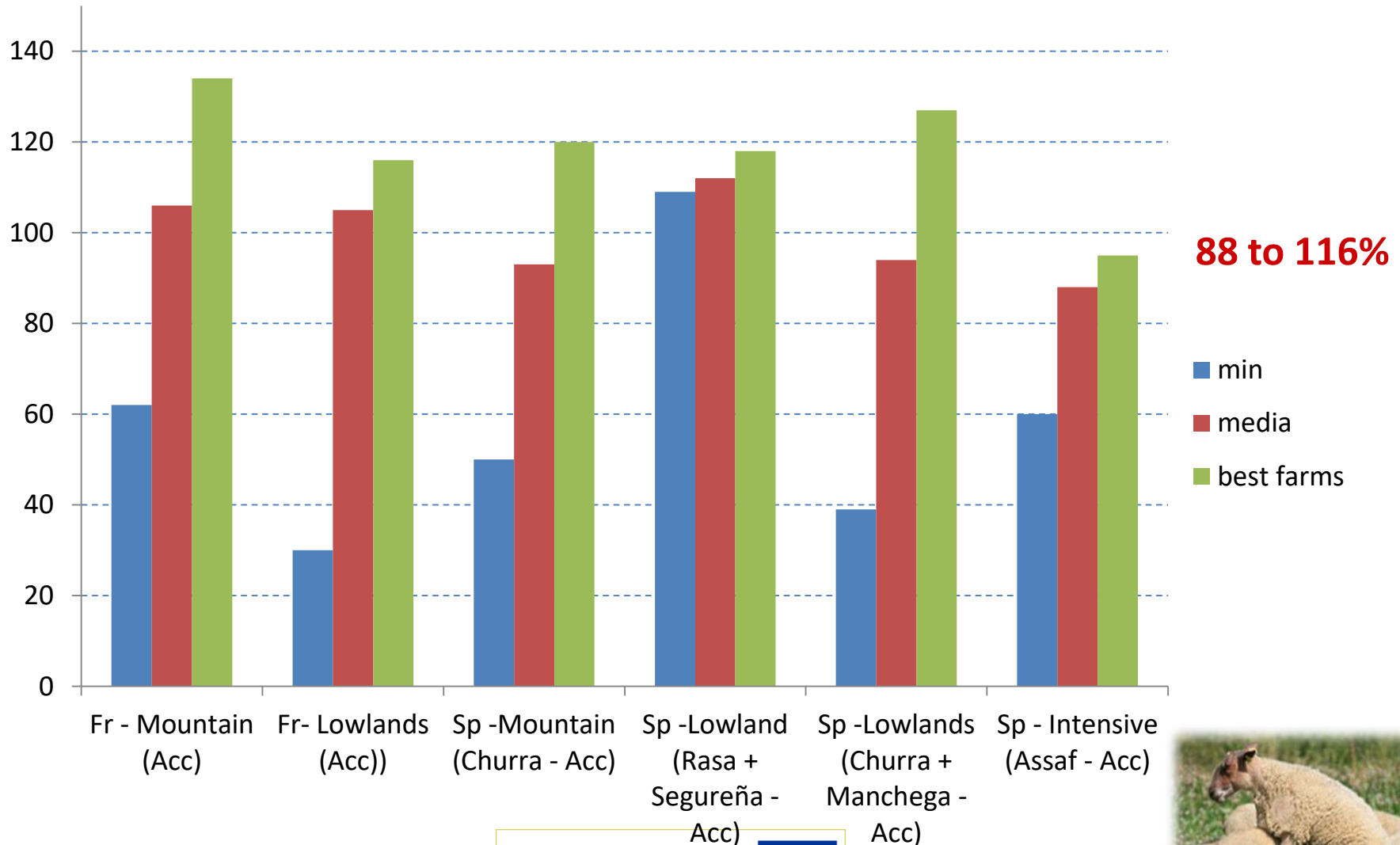
RESULTS



REPRODUCTION RATES

FERTILITY – Accelerated reprod (> 1 lambing / year)

RESULTS

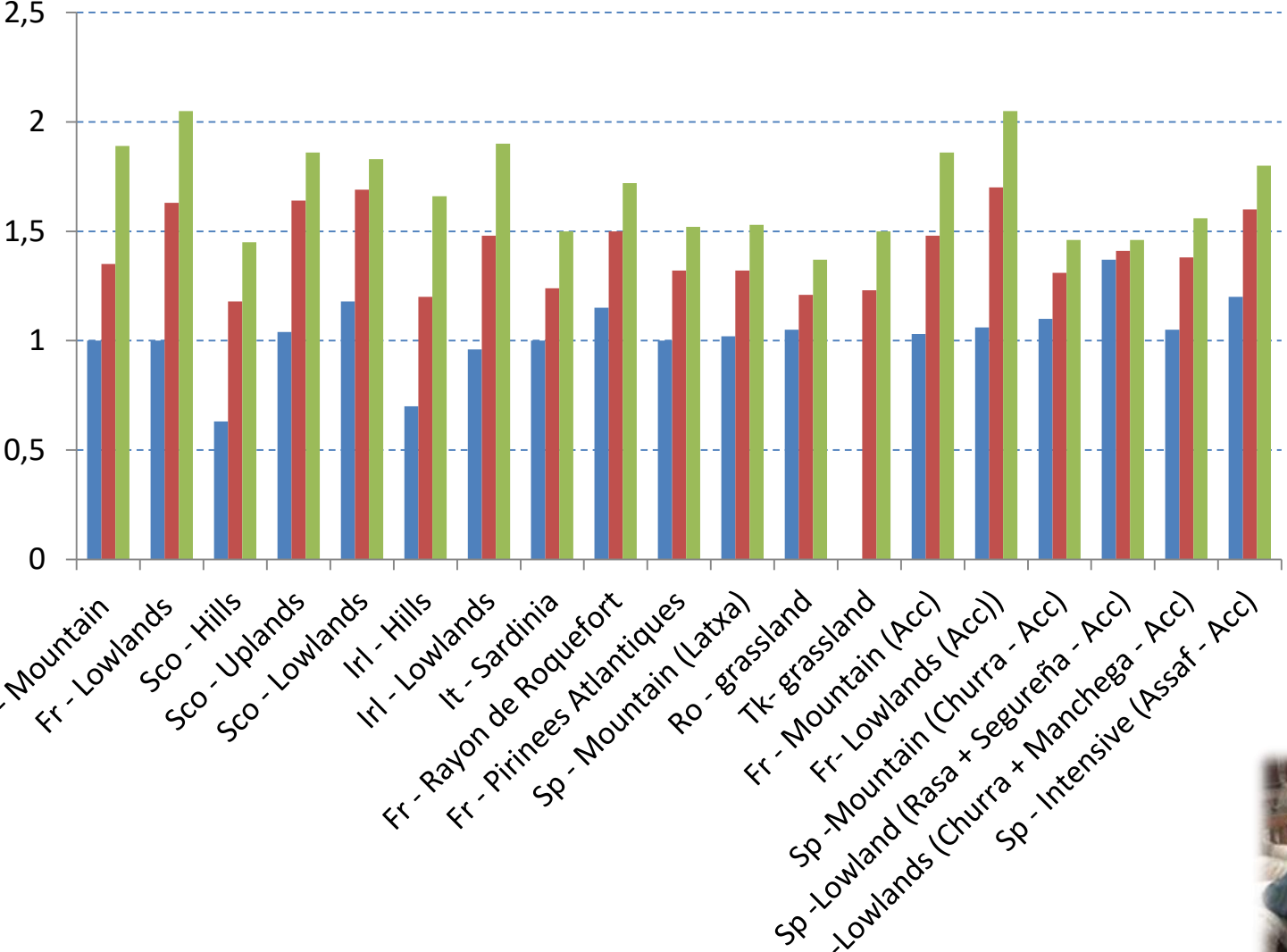


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 727895.



FLOCK PROLIFICACY

RESULTS



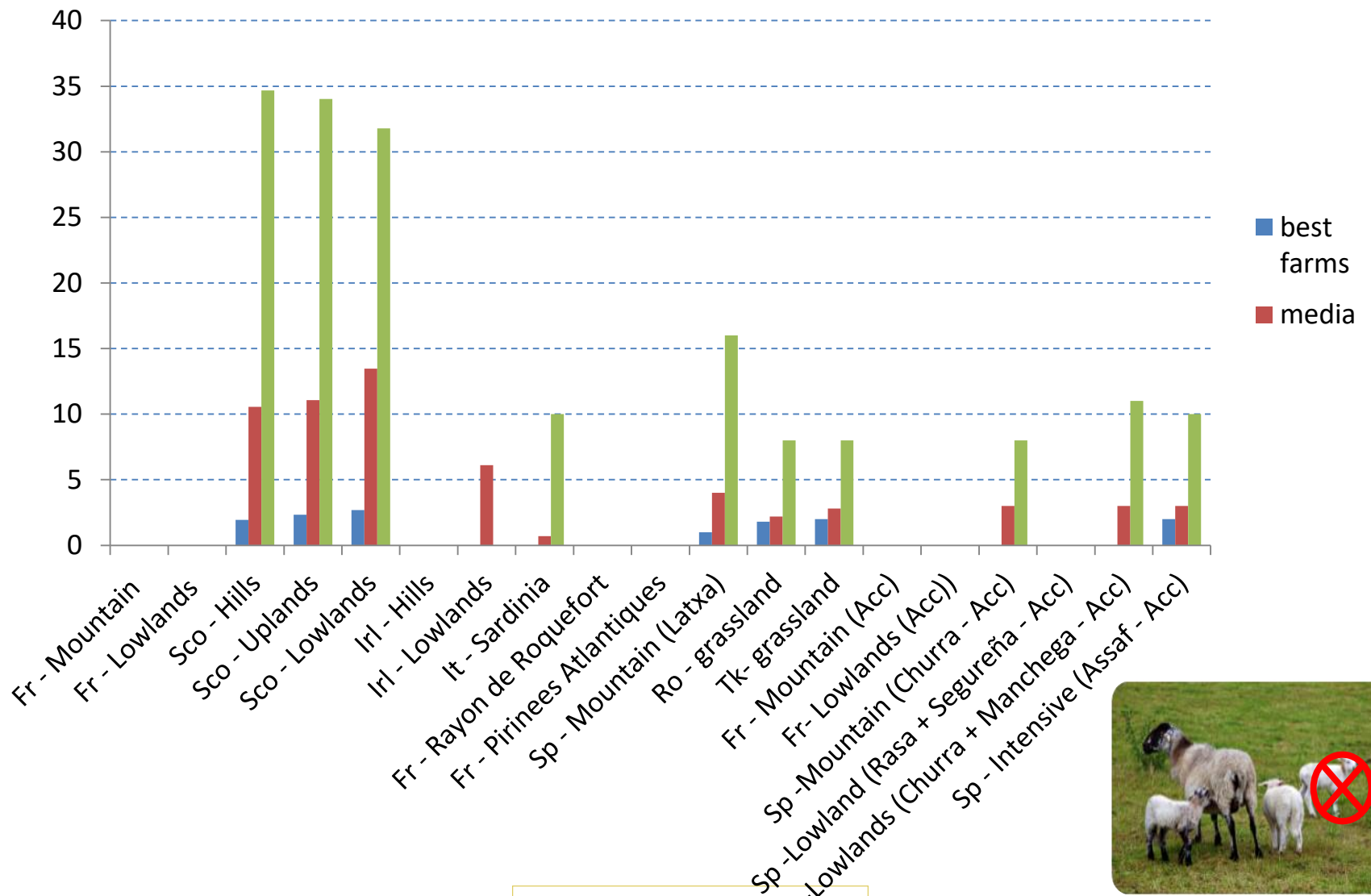
Lowlands: 1.40
Mount.: 1.33
1-lambing: 1.36
Accel: 1.48



LAMB MORTALITY

PERINATAL STILBIRTH

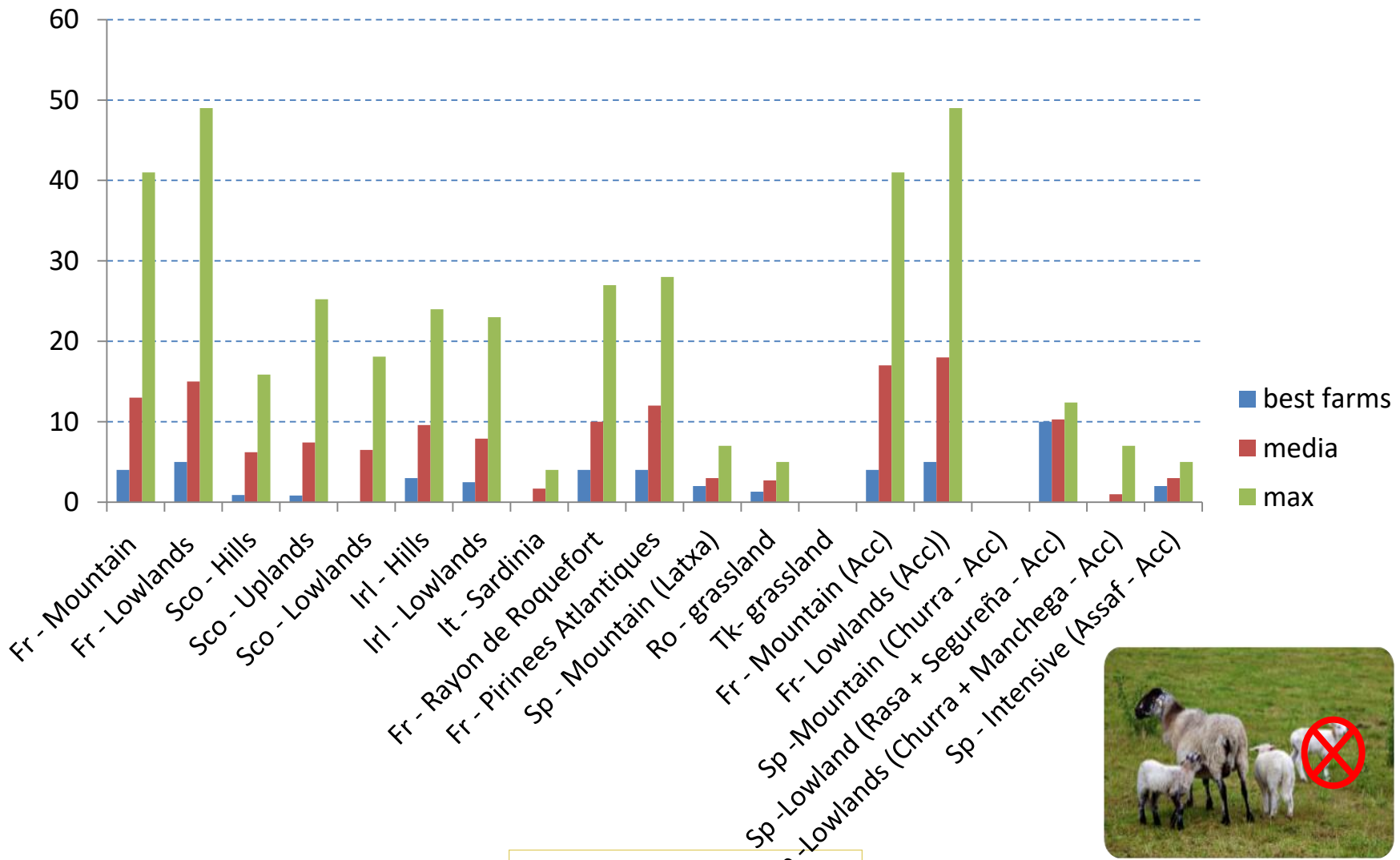
RESULTS



LAMB MORTALITY

LAMB MORTALITY AT WEANING

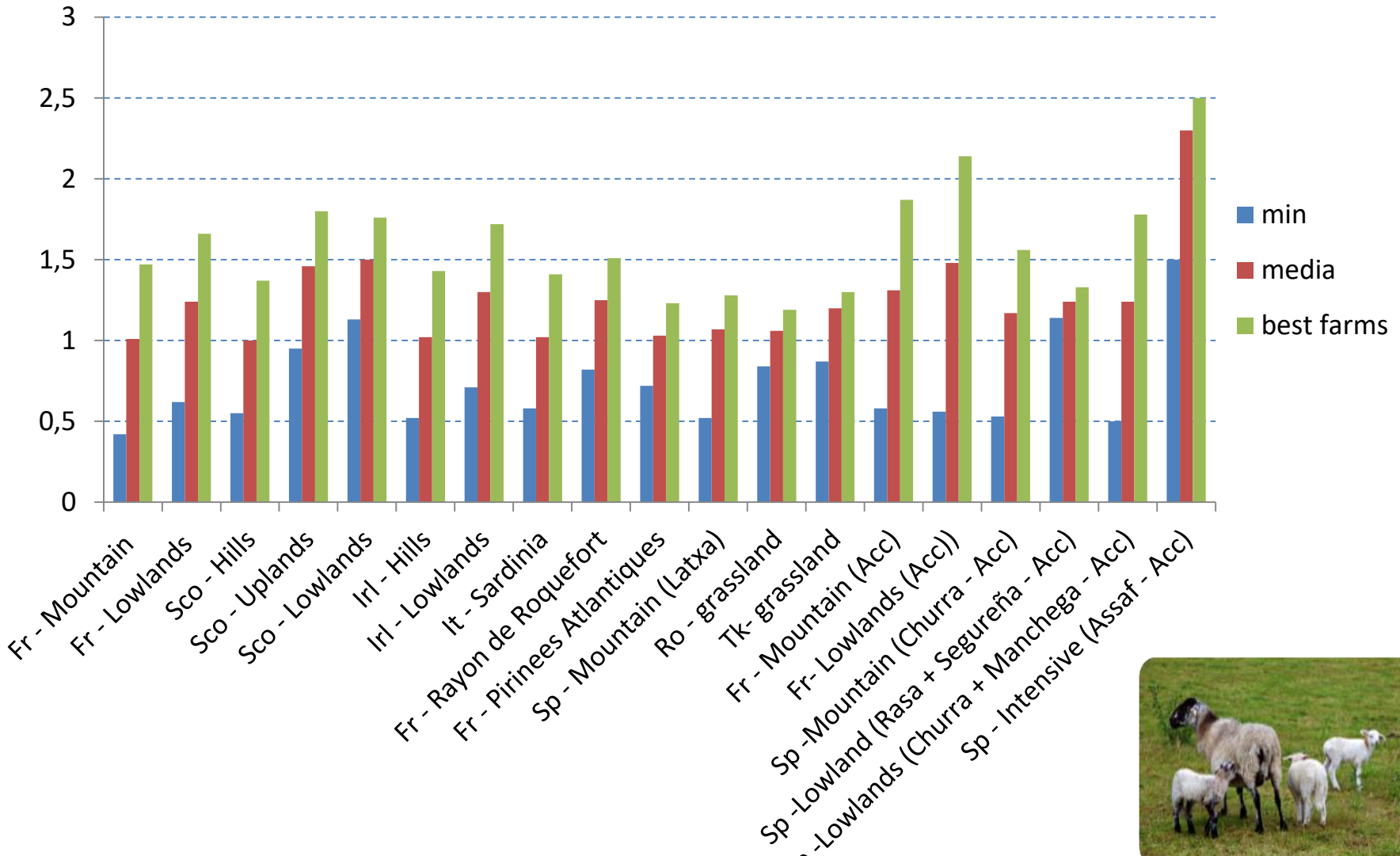
RESULTS



PRODUCTIVITY

NUMERIC PRODUCTIVITY

RESULTS



- There is a lack of consistent and reliable data for fertility, abortion and lamb mortality hazards;
- Low utilisation of technologies available (oestrus synchronization, artificial insemination and scanning).
- The number of lambs produced per ewe joined to the ram is in general low (<1.5). Even, despite the higher complexity of management for accelerated reproductive strategies, the average litter size achieved (1.48) did not differ much from that obtained in systems following a 1-lambing-season-per-year pattern (1.36).
- In many farms, there is margin for improvement.
- The SheepNet network will try to propose solutions to increase sheep productivity.



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Many Thanks!!

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