

Observations on Biodiversity outcomes from the PG Tool assessments on UK farms

Marion Johnson, Chiara Tuoni, Lisa Arguile | ORGANIC
RESEARCH CENTRE

Nicola Noble | NSA

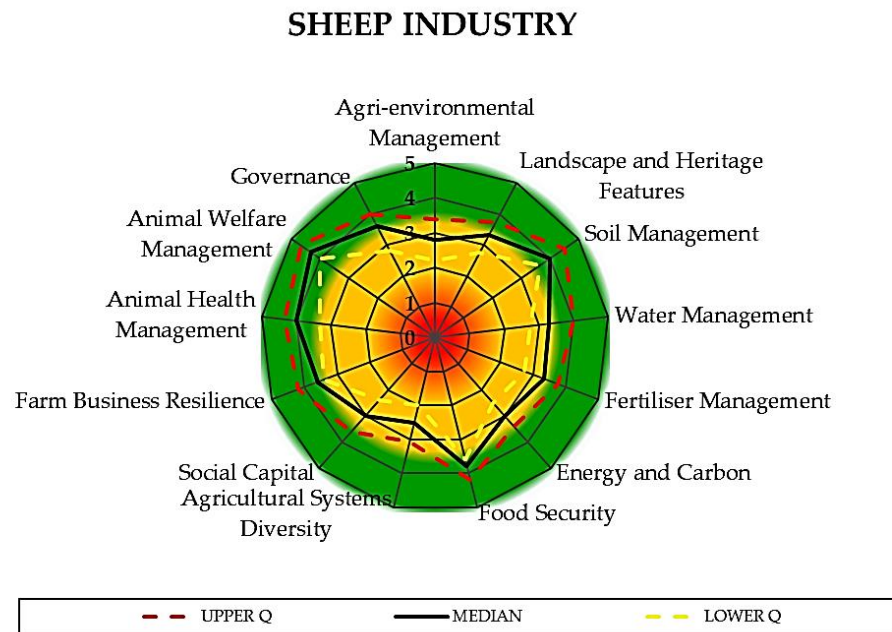


What is the PG tool?

- Multi criteria, analysis based assessment
- Immediate results
- Mixture of quantitative and qualitative indicators
- Simple programming in Excel-spreadsheet
 - Non weighted averages



How does it work?



- Farmers answer questions associated with the spurs
- Each answer is ranked on a **1-5 scale**, cumulatively generating an overall average for each spur
- The results are presented in a radar diagram





On Farm Assessment

Structure: On farm interview, between an experienced researcher and farmer / client

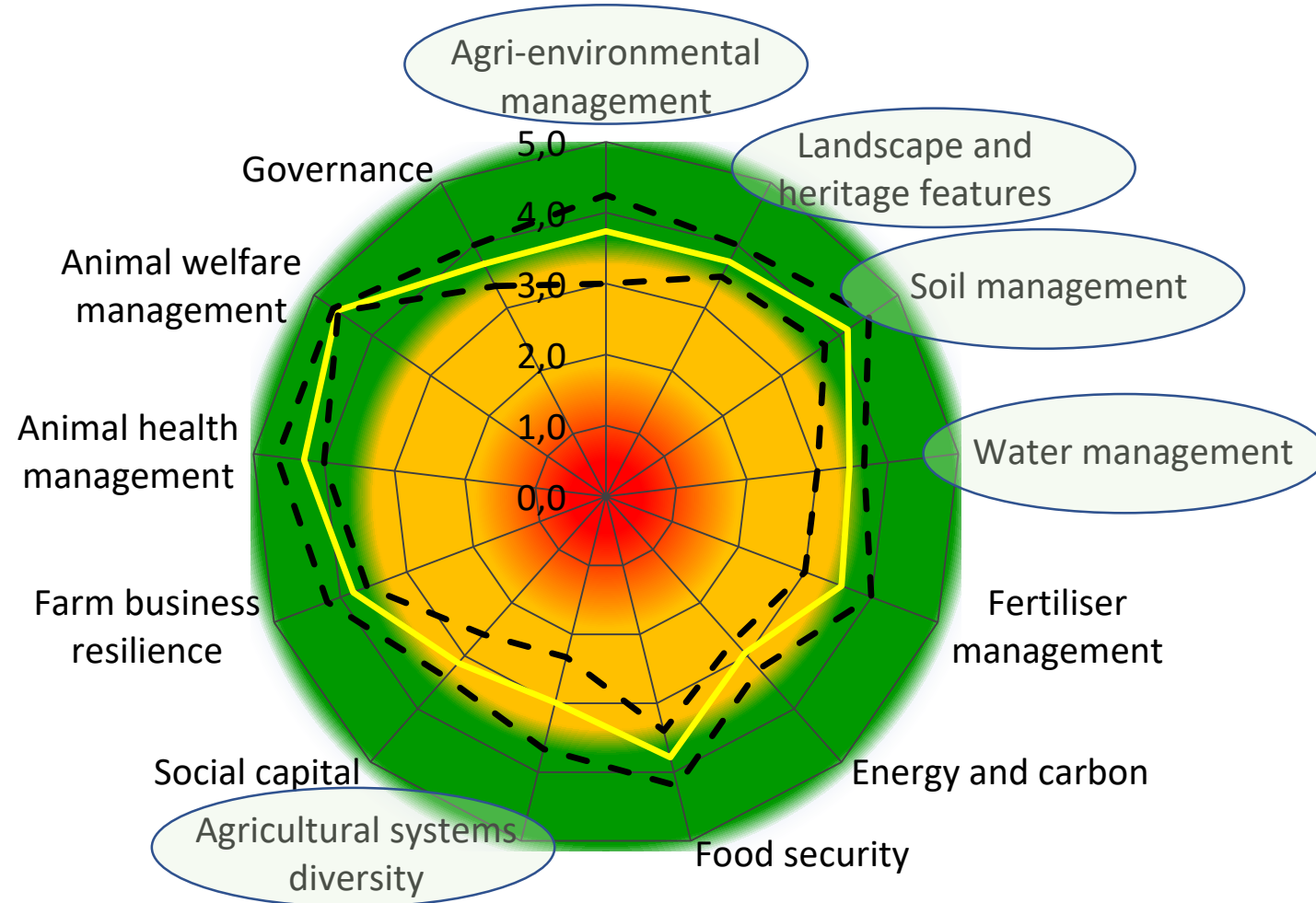
Duration: 3 – 4 hours
(including 30 min farm tour)

Goal: Promote discussion around sustainability and what works for an individual business





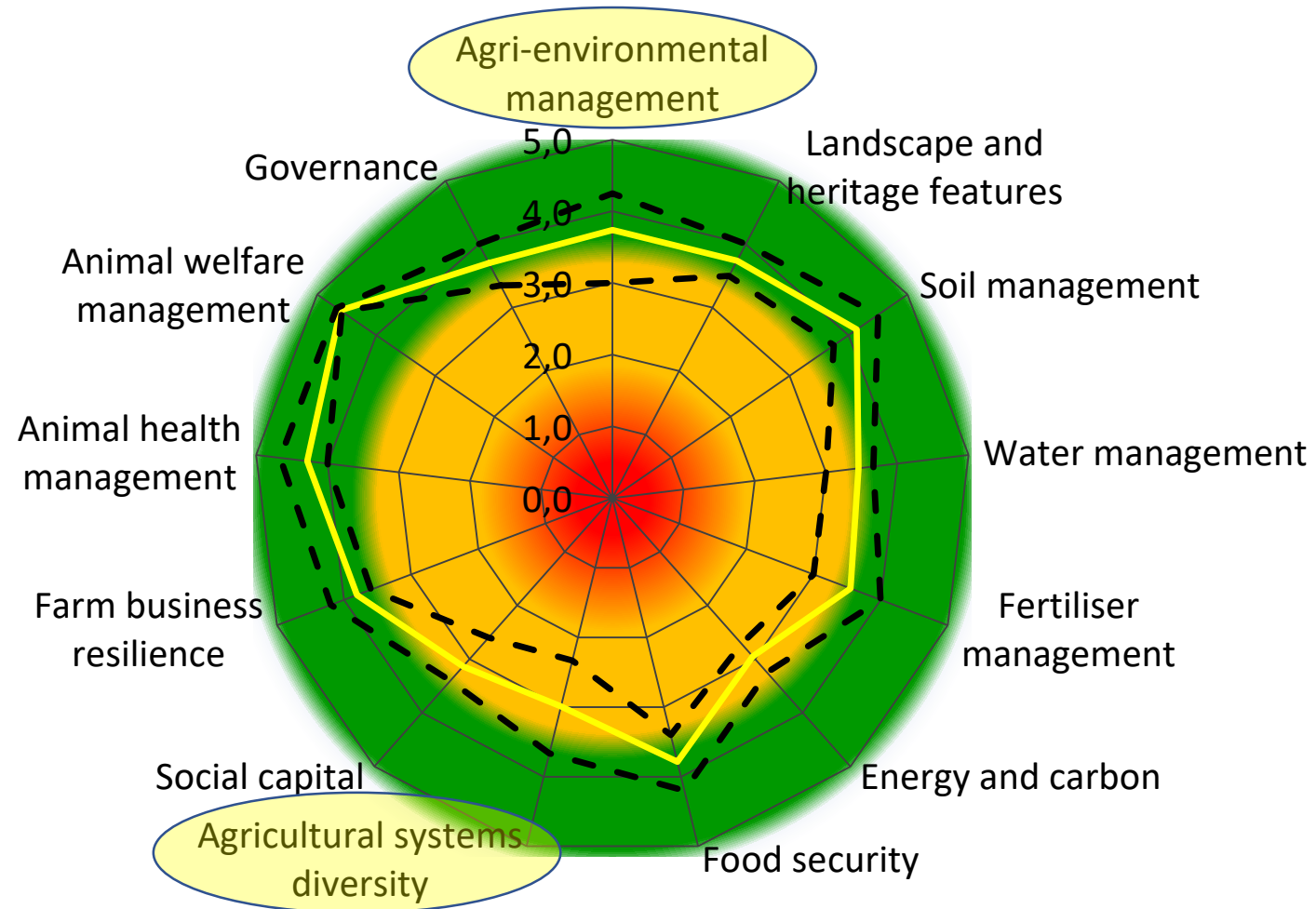
Sustainability overview of participating UK farms within iSAGE



N = 33



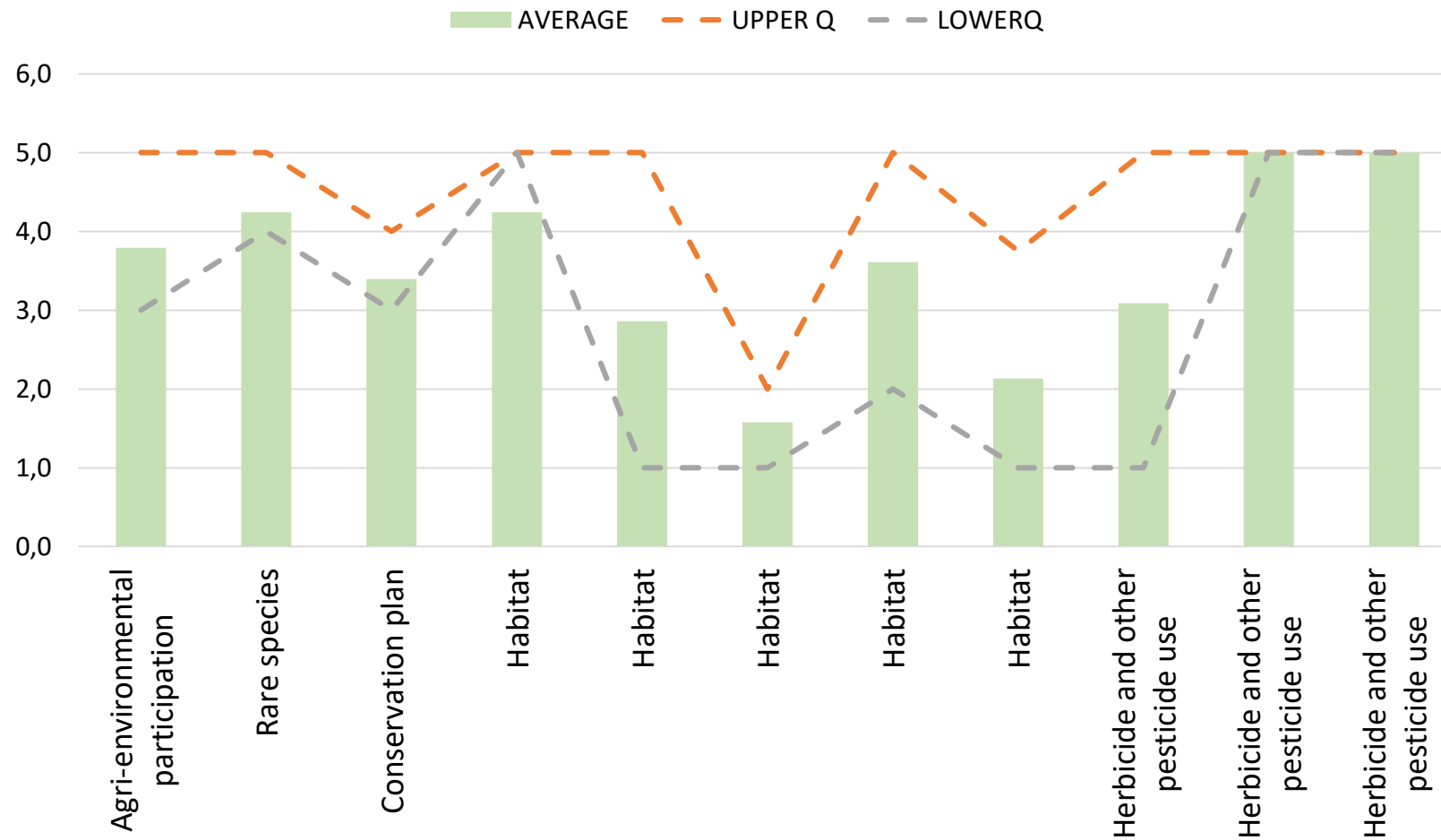
Sustainability overview of participating UK farms



N = 33



Agri-environmental management question scores

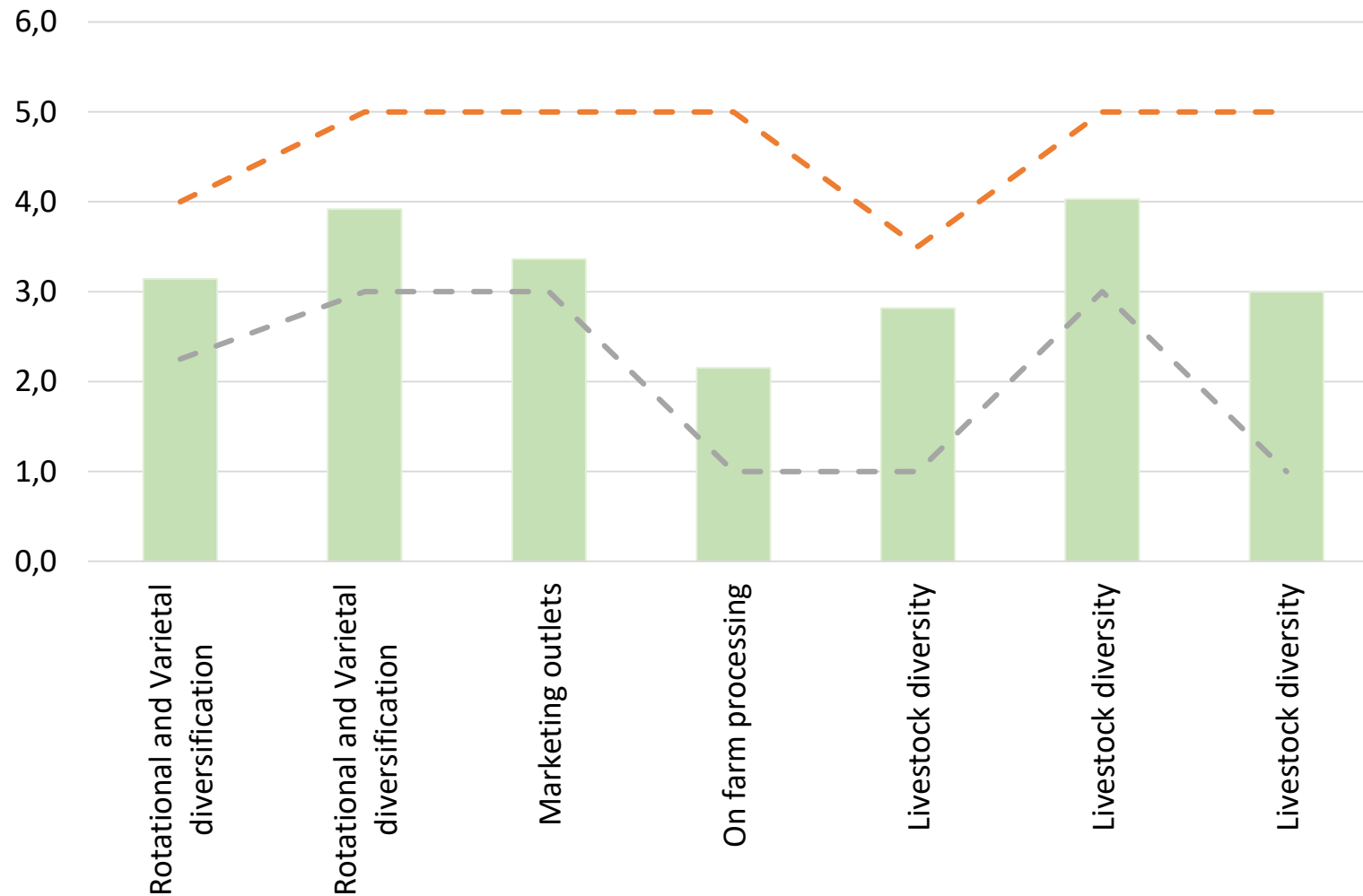


Habitat Assessment Questions

What is the amount of land which is permanent pasture (taken from Initial data collection sheet)?	ha	4.2
What percentage of permanent pasture is managed as "low input" or "very low input" (taken from Initial data collection sheet)?	%	2.9
What is the amount of land that consists of native species woodland - broadleaved, mixed or coniferous?	ha	1.6
To what extent do you manage farm woodland? n/a, not at all, manage some woodland edges, manage all woodland edges, woodland management for conservation/biodiversity, very active woodland management for conservation/biodiversity	Qualitative Response	3.6
Do you have wildlife habitats (e.g. wet grassland, scrubland, wildflower meadows) or are you restoring and/or establishing wildlife habitats on your land? If so, how much land is a wildlife habitat as a percentage of total land area?	% of UAL	2.1



Agricultural systems diversity



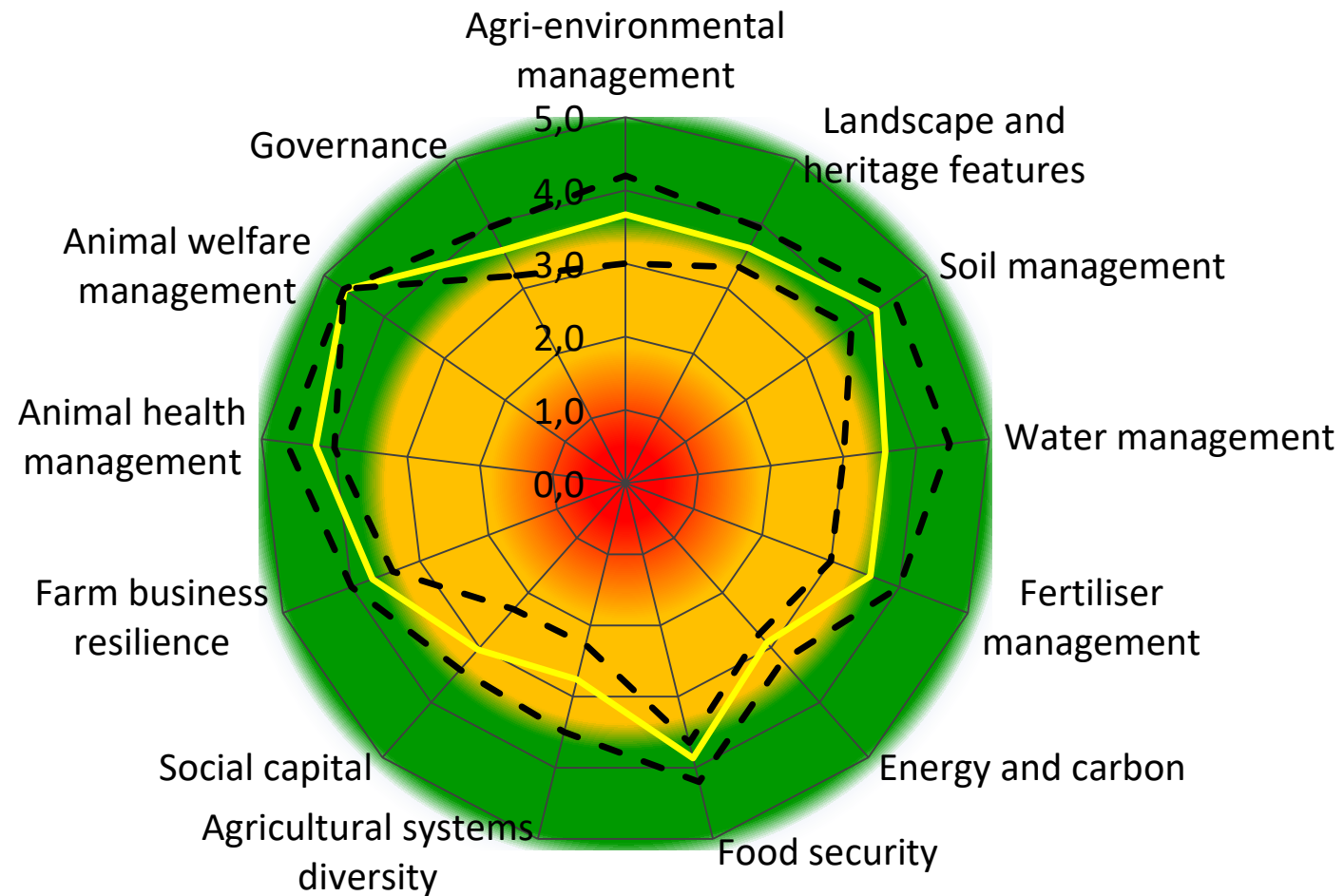
Agricultural Systems Diversity

Marketing outlets	Through how many outlets do you market your produce?	Number	3.1
On farm processing	Do process on farm products?	QR	3.9
Livestock diversity	How diverse is the livestock system on the farm with regards to number of species?	AC	3.4
Livestock diversity	How diverse is the livestock system on the farm with regards to number of breeds / crossbreeds? - Sheep and Goats	AC	2.2
Livestock diversity	How diverse is the livestock system on the farm with regards to number of breeds / crossbreeds? - Other livestock	AC	2.8
Livestock diversity	How diverse is the livestock system on the farm with regards to number of breeds / crossbreeds? - total	AC	4.0
Livestock diversity	Do you use access / make use of traditional gene pools in selection of livestock breeding stock?	AC	3.0

QR = Qualitative response, AC = Automatic Calculation



Participating UK sheep farms



N = 26

Level of Agri-environmental management across participating UK sheep farms

Level of Agri-environmental participation

- none
- Just enough to qualify for single farm payment
- Basic /low level involvement, with some financial compensation
- More demanding, higher level involvement, with greater financial compensation

