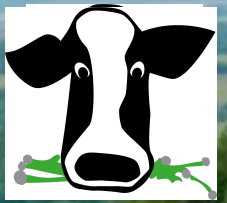


Sustainable economic and ecological grazing systems - learning from innovative practitioners



SEEGSLIP



The UK cross-government programme on food security research

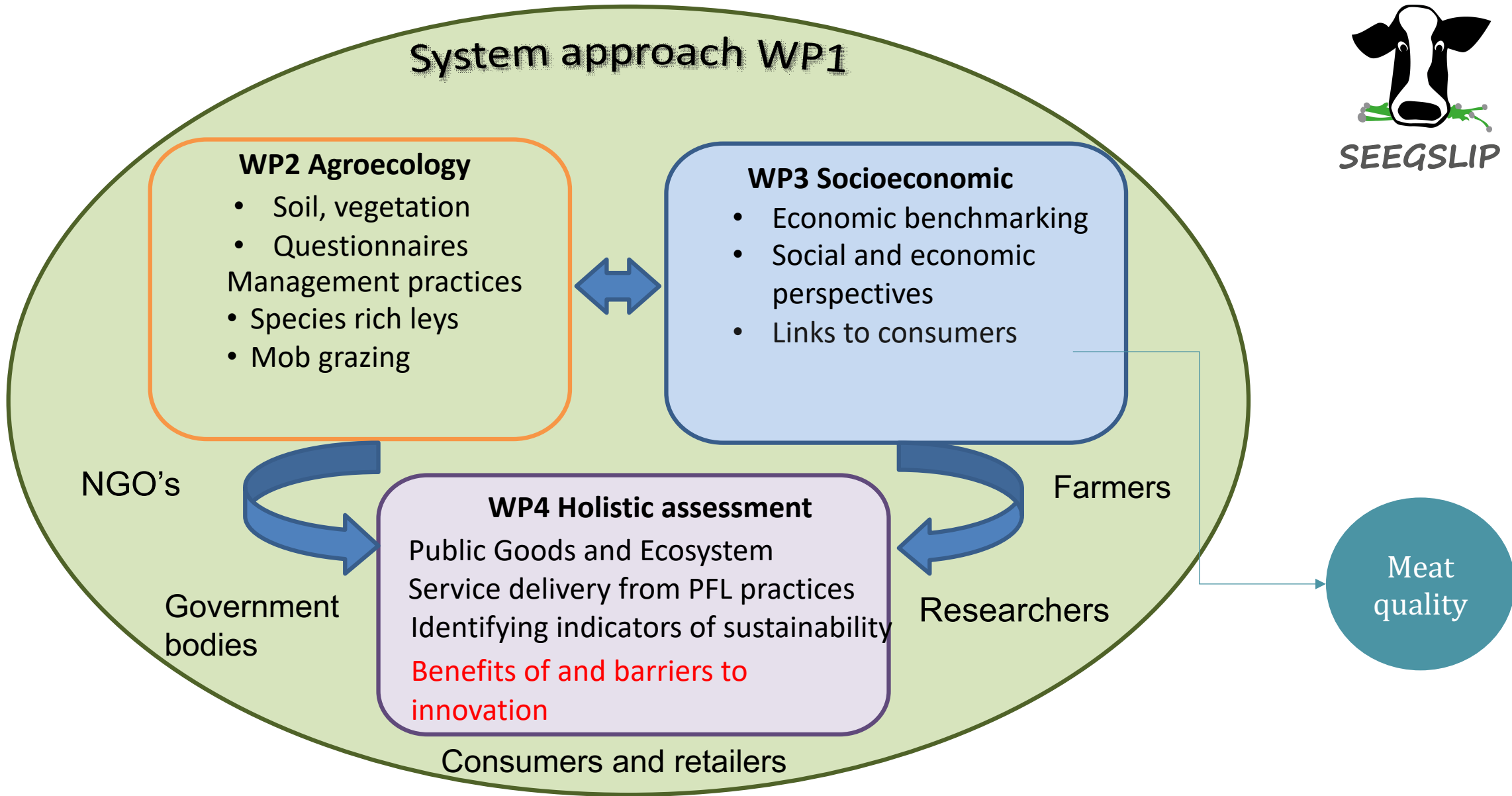
Prospects – Depend on the social dimensions of farming



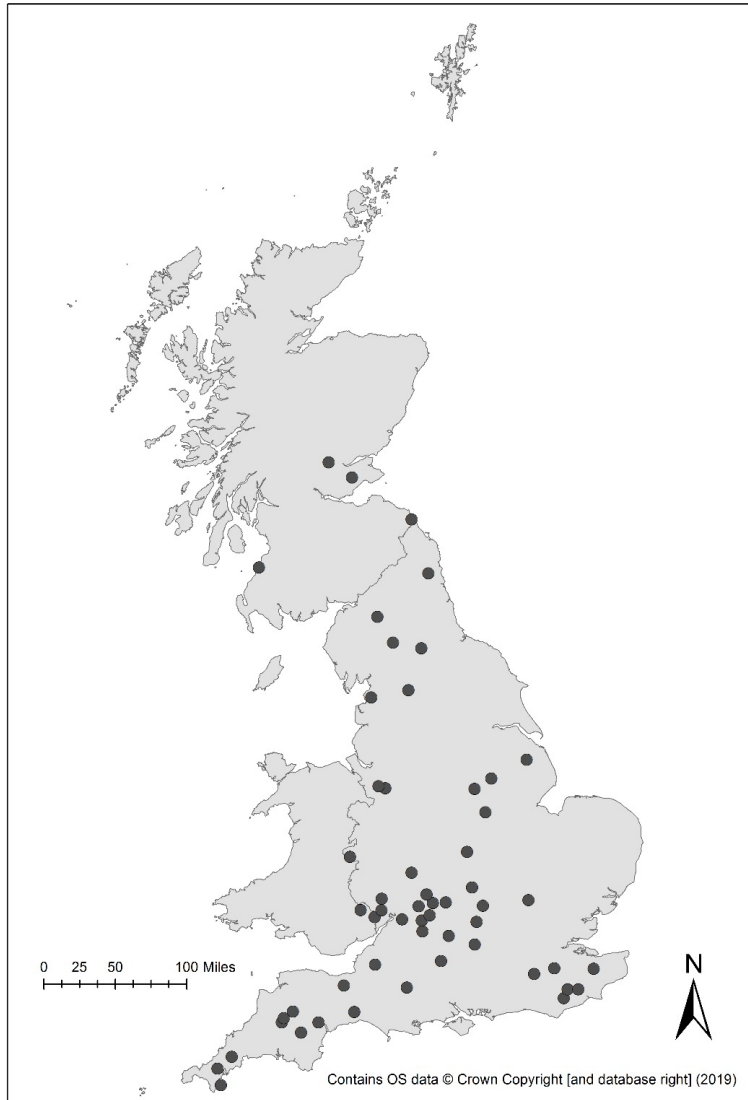
Farmers are learning and acting – not necessarily waiting for policy support.

“...the overarching thing was really about trying to make species rich grasslands which are a really valuable resource in my opinion, and one we’re losing quite fast, even now. [The goal] is to make them a viable or even, you know, make them part of a thriving agriculture business, so that the choice is not necessarily thanks to a policy lever which is at the whims of politicians, but something that would drive forward on its own, if we get it right.”

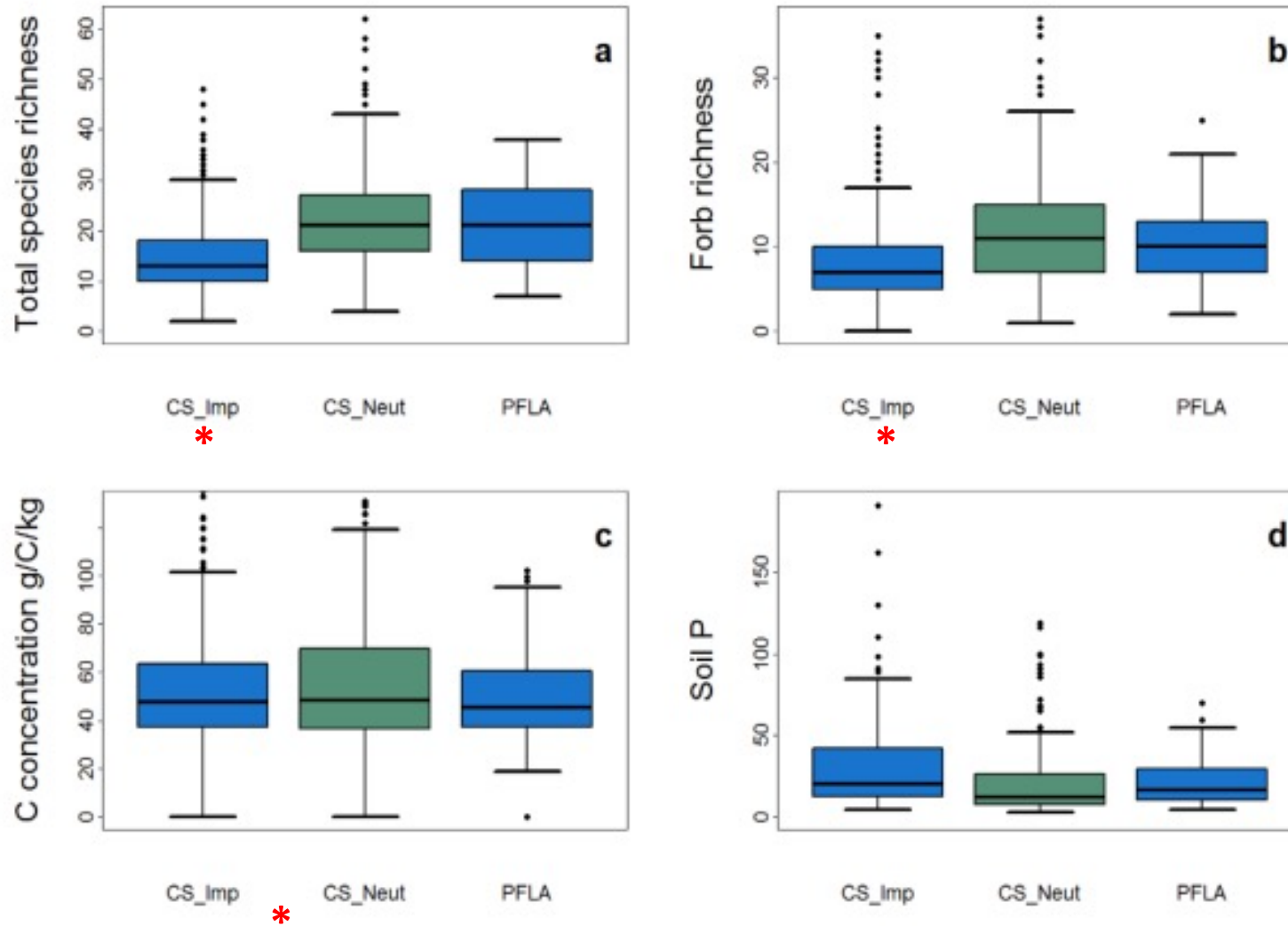




Can innovative farming practices improve the state of GB grassland?



Ecological condition of Pfl pasture in context



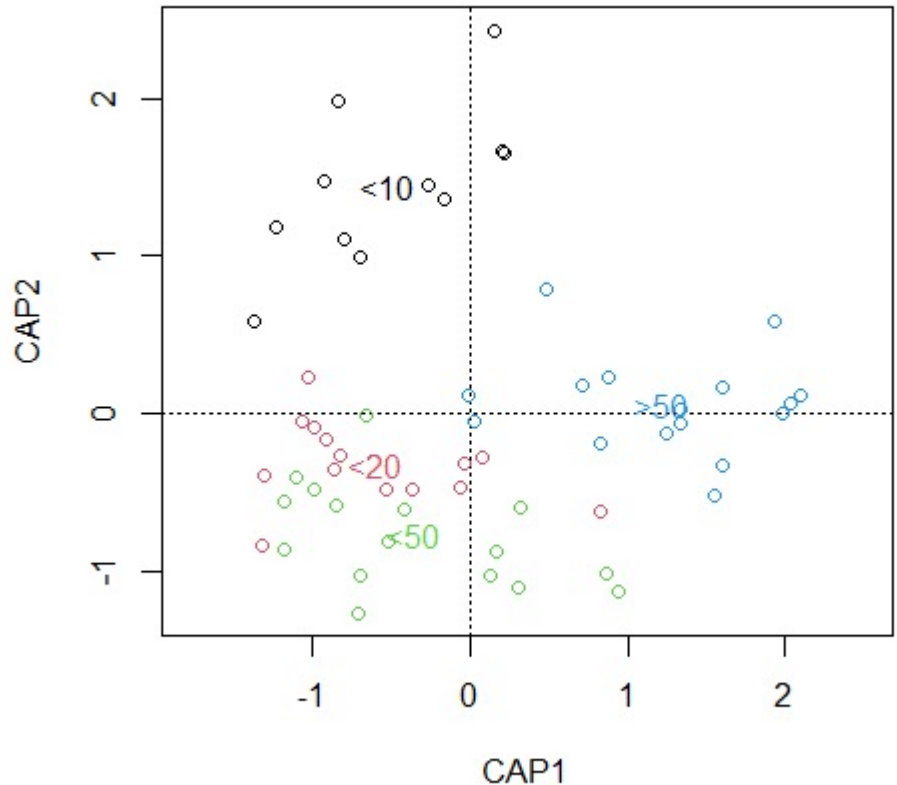
Vegetation height was also higher
in PFLA plots than in CS Improved and **Neutral Grassland** plots.

What can CS tell us about vegetation and soil relationships in the different grassland types?

	Vegetation metrics	
Soil metrics	Ryegrass cover	Species richness
Soil P	↑	↓
Soil C	↓	↑
Soil Moisture	↓	↑
Total taxa (soil)	↓	↑

Take home: Neutral grassland is more ecologically sustainable than Improved Grassland
PFLA grassland doesn't **yet** have all the qualities of neutral grassland, but is on the way

How do PFLA soils look in relation to management practices?



Soil disturbance alters fungal community composition

**Differences in fungal community composition by pasture age
<10 year, >20 years, <50 years, >50 years**

Economic analyses

Results used to benchmark PFLA practices indicated that:

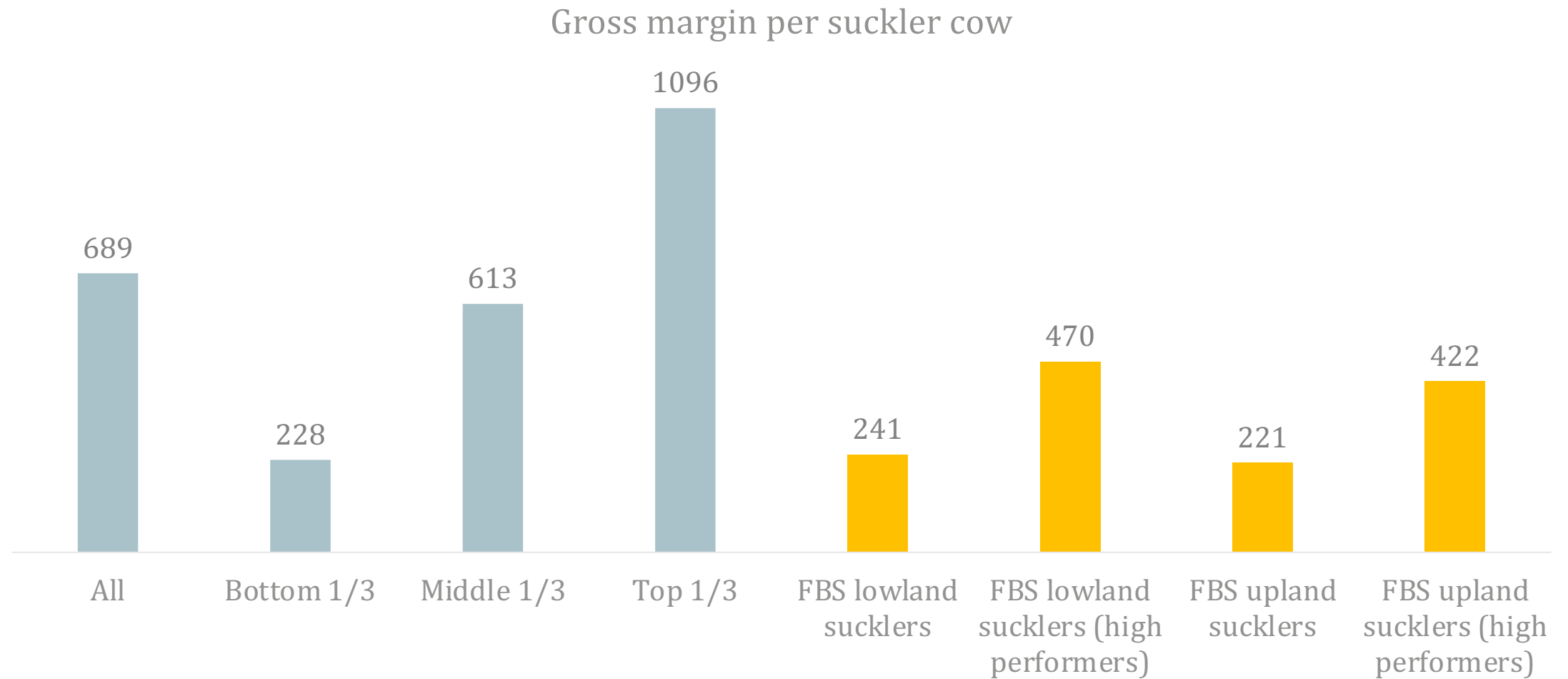
- PFLA farmers were often outperforming the Farm Business Survey sample

Key reasons

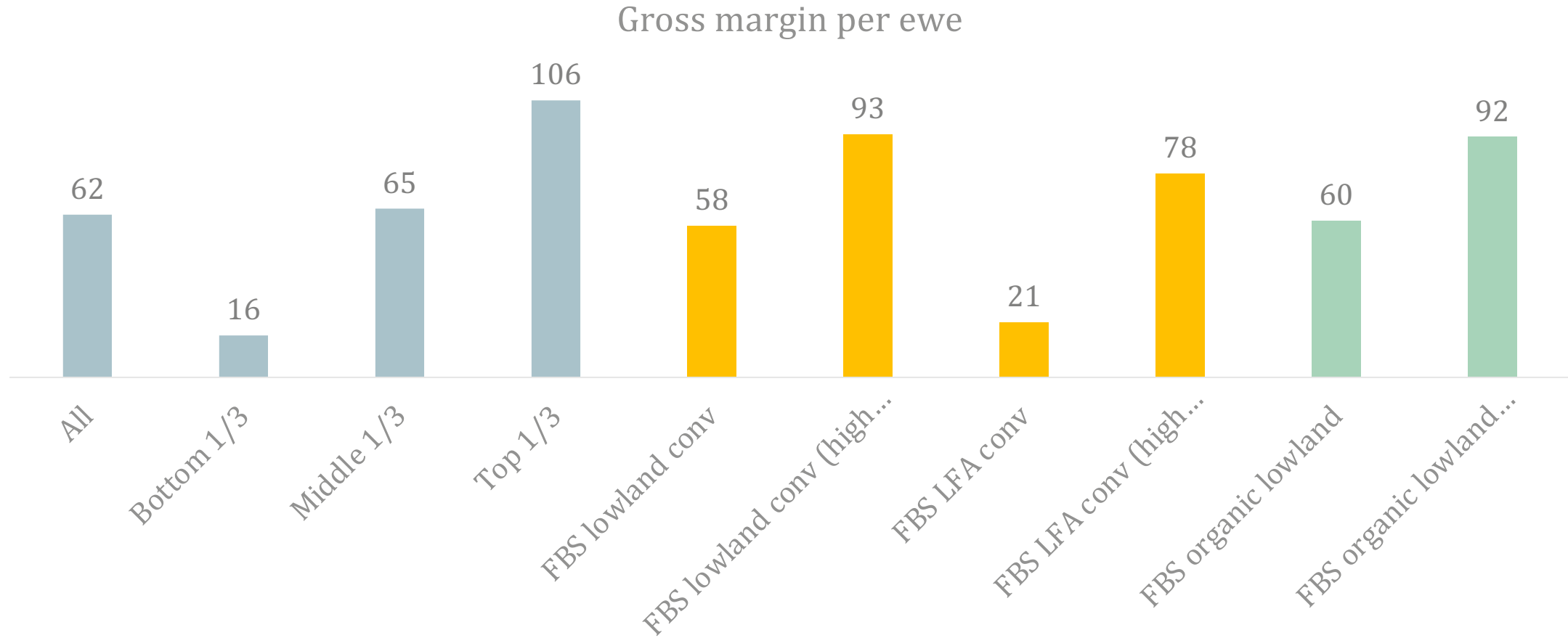
- 1) More direct selling – less processing and marketing
- 2) Less inputs – cheaper to produce



Beef suckler- gross margin



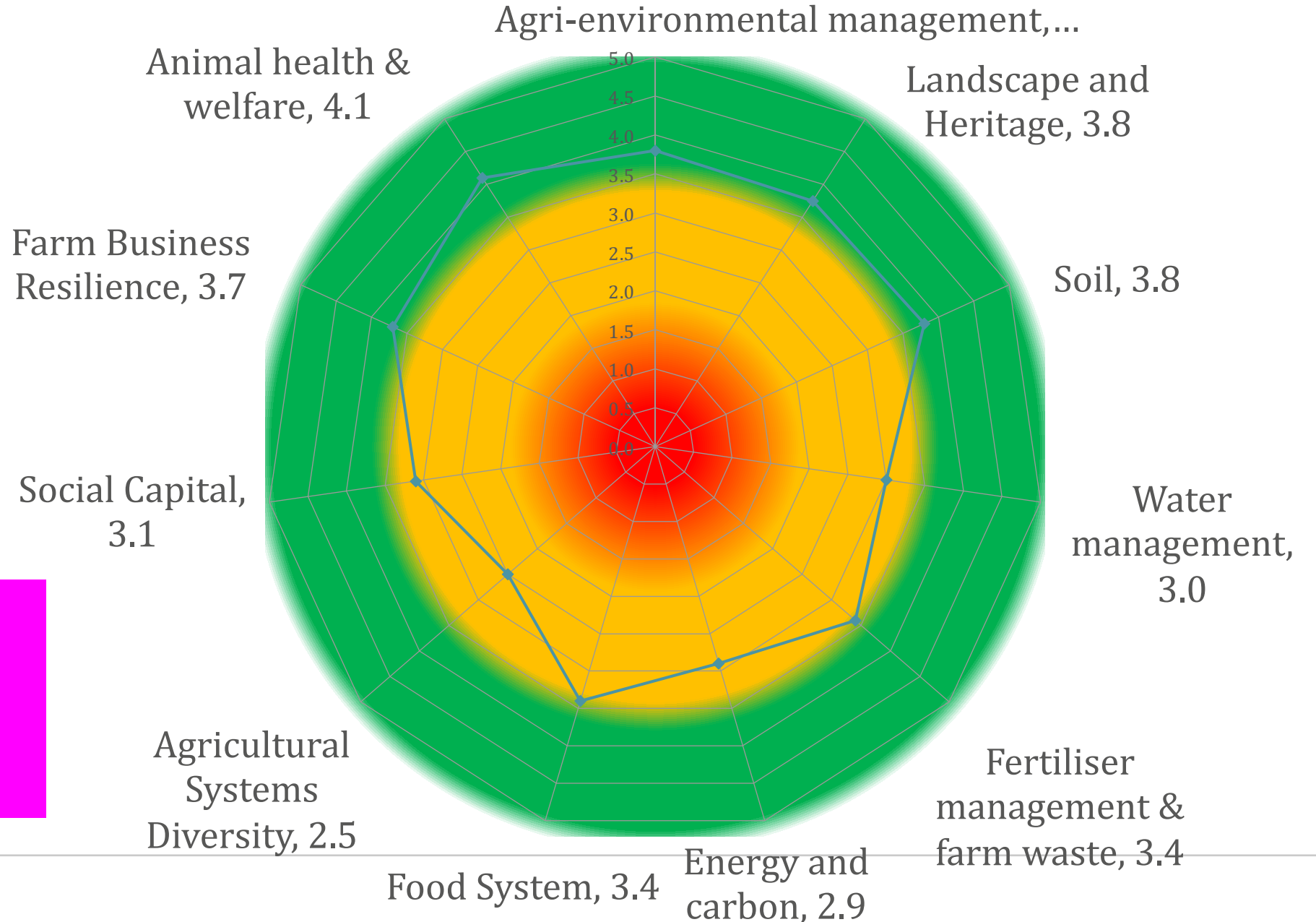
Sheep- gross margin



Average scores across 56 PFL farms

Public Goods Tool (ORC)

Highest score 46.9
(out of 55)
Lowest score 12.5
Average score 37.7



What are mob grazing practices?

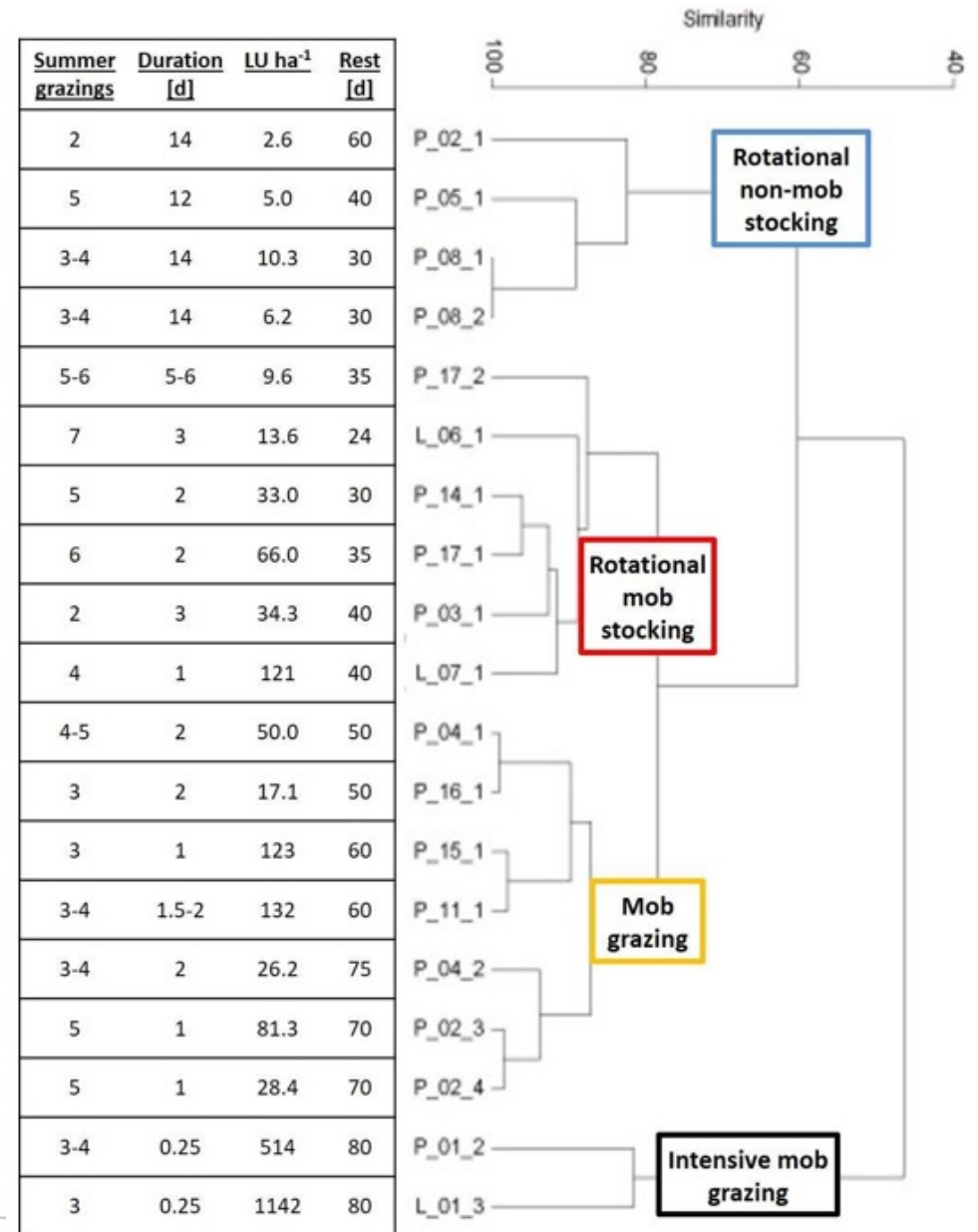
Classified according to:

Numbers of summer grazings

Length of grazings

Livestock Units per Ha

Rest period



Mob grazing case study

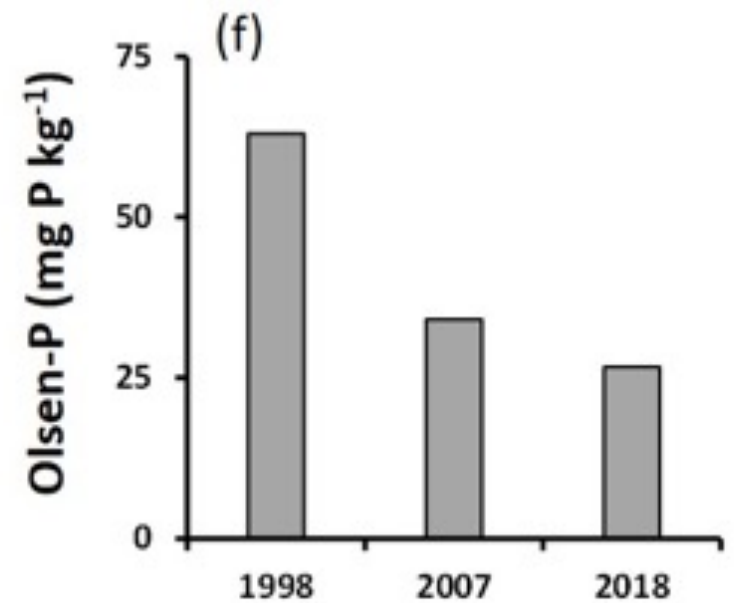
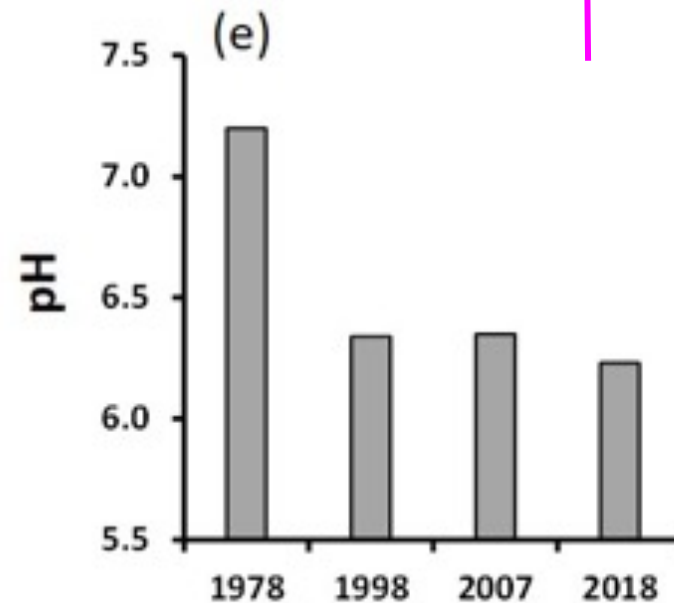
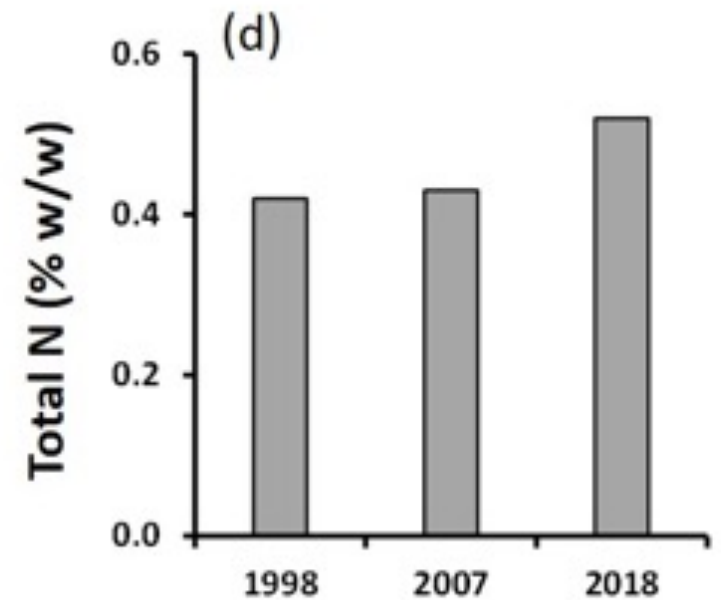
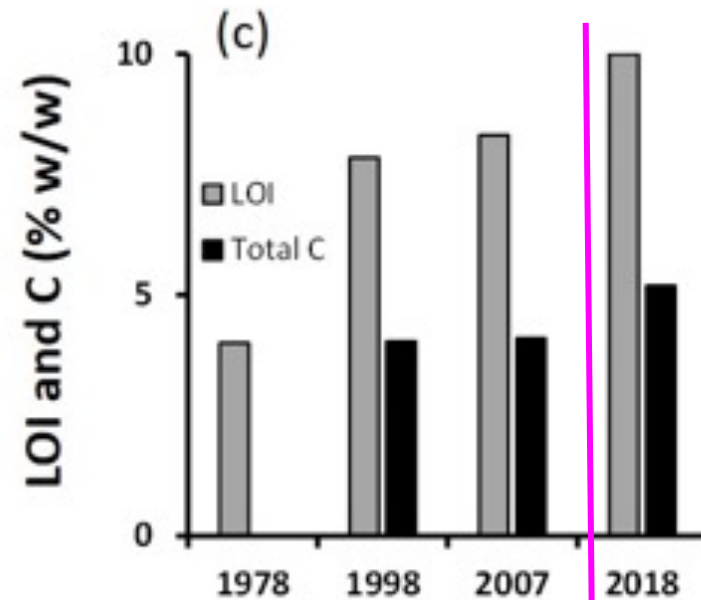
Data indicate:

An increase in soil C and soil N

A decrease in soil P and pH

A decrease in species richness

A change in species dominance



One of the reasons I do this moving four times a day is....in Spring turnout...the cows skip when they first leave the sheds. My animals do it four times a day, every day, as they go to the new paddock.....Honestly, I just love it. I set my automatic latches up but if I'm not busy I'll go down just to watch them go through”.



Online focus groups with consumers (6 groups of 6 people, flexitarians (2), supermarket (2) & PFLA (2))

Key findings:

Consumers are caught up within many issues – they are not thinking JUST about ecological sustainability or nutritional value.

All of the 6 groups were **ACTING/EXPERIMENTING with their eating habits** (e.g. eating less meat rather than being discriminating about what kind of meat they eat).

4 of the 6 groups largely **unaware of Pfl**, but also a **general lack of awareness on labelling**

Strong mistrust – **and reliance** on corporates from supermarket and flexitarians

Consumers are good at gauging the power of the food system and the possibility for change within that.

