## Sustainable and Holistic Food Chains for Recycling Livestock Waste to Land



Dr D Chadwick<sup>1</sup>, Prof L Heathwaite<sup>2</sup>, Prof M Winter<sup>3</sup>, Dr C Hodgson<sup>1</sup>, Dr D Oliver<sup>2</sup>, Dr T Selfa<sup>3</sup>





# Methods

- Catchment selection River in North Devon
- Interview up to 100 farmers
- Establish focus groups (farmers, EA, retailers, shell fisheries, NFU), citizens juries
- Develop field, farm and catchment scale risk assessment tools using expert panels, on farm assessments and nationally available datasets'

### Aims

A multi-scale approach from farm to regional level
To determine the potential impact of introducing changes in management to control pathogen transfers from:

grazing livestock

manures (slurry, dirty water, solid manure)

farmsteadings – (yards, tracks, sheds and barns)
And determine the impact on

farm economics

practicalities at the farm level

And 'knock-on' effect on

local communities

industries

- Targeted monitoring of Faecal Indicator Organisms (FIO) on 10 farms - 12 month duration; light touch, fortnightly; Intensive 6 week duration.
- Implement on-farm mitigation measures and re-assess FIO concentrations
- Assess costs, practicalities of mitigation on farms and the wider impact on local communities and Industries

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#### **Farmer Recruitment**

