## Pure

Scotland's Rural College

#### Framework for a holistic view of biosecurity practice

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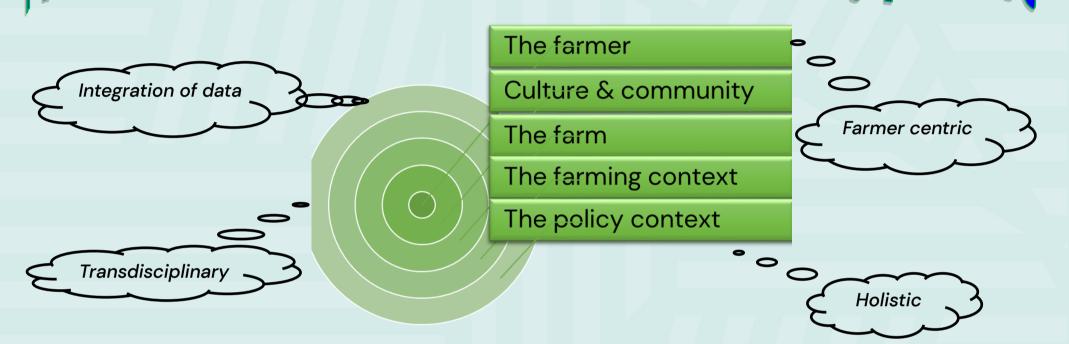


#### Scottish Government Strategic Research Programme Project SRUC-A2-4 (2022-2027)

#### "Achieving improvements in the health of Scottish livestock through increased uptake of biosecurity practices: towards a farmer-centric approach based on a Socio-Epidemiological Model"

**Dr Kate Lamont**\*, Dr Maria Costa, Tim Geraghty, Madeleine Henry, Dr Sam Beechener, Dr Hernan Degiovanni, Dr Roger Humphry, Dr Andrew Duncan, Dr Ross Davidson with input from BIOSS (Biomathematics & Statistics Scotland) and in collaboration with Dr Dave Bartley (Moredun) & Dr Claire Hardy (James Hutton Institute).

# Framework for a holistic view of biosecurity practice



The farmer	Attitudes, beliefs, personal and regulatory attributes
Community & culture	Farming peers, family, local customs, and traditions
The farm	Farm building / setting, business model, performance and scale, levels of disease
The farming context	Markets, voluntary schemes, advisory input, prevalence of disease
The policy context	Regulation, subsidies, mandatory schemes

3 Scottish Case Studies

### Paratuberculosis in cattle

Porcine Reproductive & Respiratory Syndrome

Roundworm in Remote Rural and Island farm settings



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