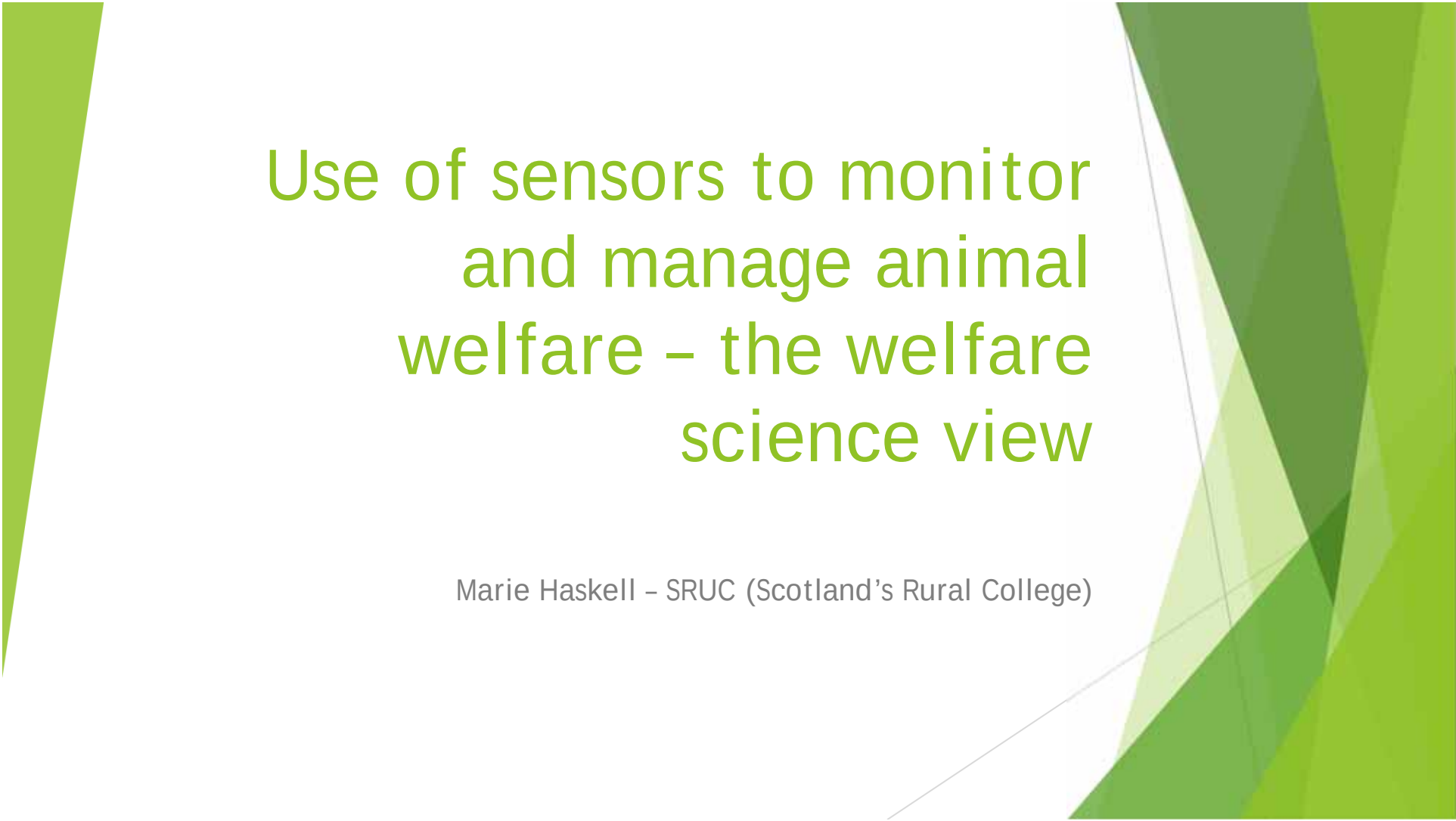


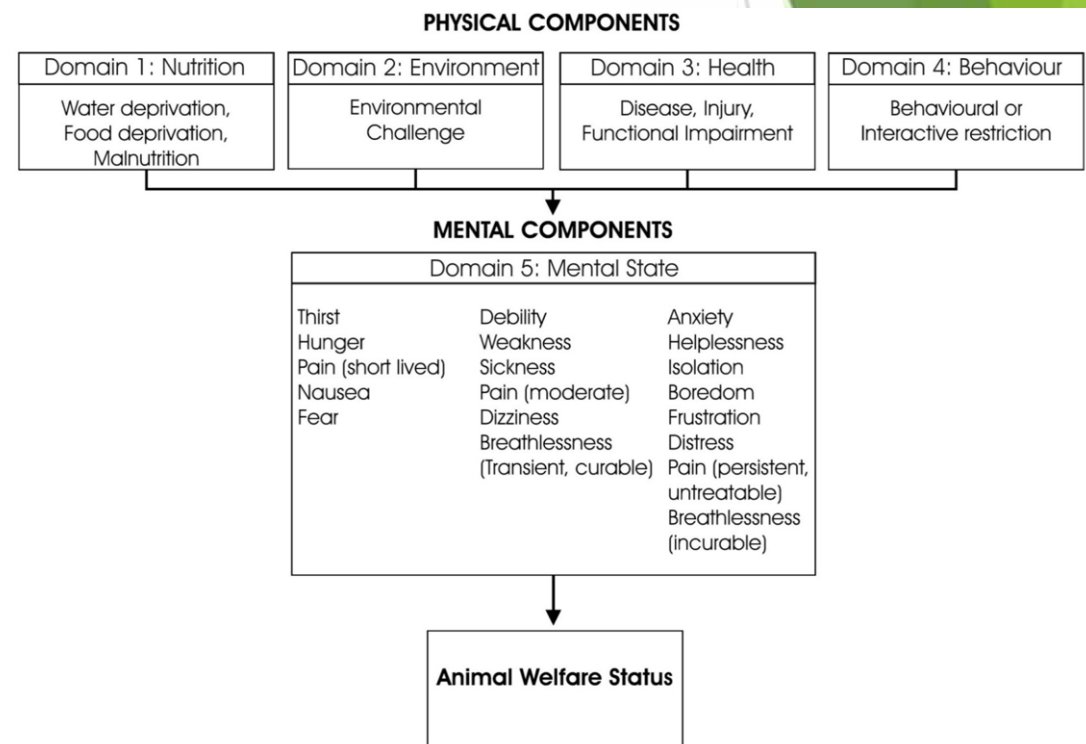


Use of sensors to monitor and manage animal welfare – the welfare science view

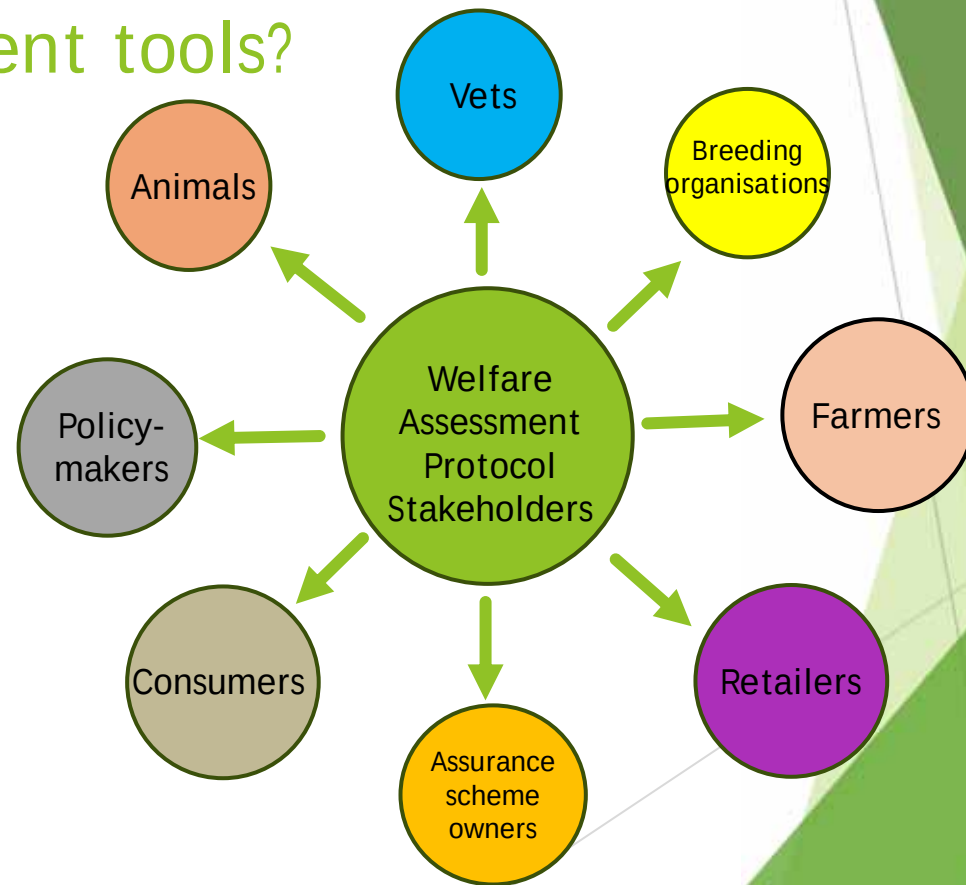
Marie Haskell – SRUC (Scotland's Rural College)

What is animal welfare?

- ▶ Multi-dimensional concept
- ▶ Current framework for animal welfare is the Five Domains Model (Mellor et al, 1994)
- ▶ Welfare assessment tools should cover each domain (ideally)



Who are the users/stakeholders for welfare assessment tools?



Welfare assessment and sensor data

- ▶ Typical carried out by assessor periodically – typically once per year
- ▶ Welfare status of an individual animal and of the animals on a farm can change
- ▶ Use of sensors can track welfare continuously and can be in real time
 - ▶ Tracking welfare status over time and in real time would be ideal
- ▶ Sensor data is quantitative
 - ▶ Provide some transparency to welfare scores for consumers
- ▶ But need sensor-base welfare indicators to be validated for confidence of users and to deliver on the goals of welfare assessment

