

# Selecting sheep for reduced methane emissions

Farmers 'must make rapid changes to prevent climate damage'



## Selecting sheep for reduced methane emissions



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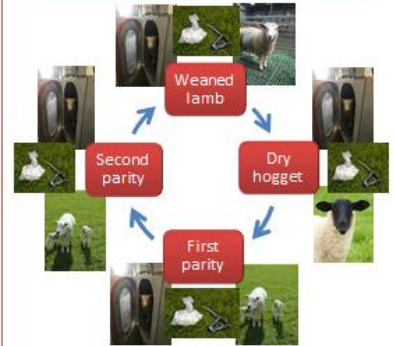
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- Objective:**
- 1) To validate methods of determining methane (CH<sub>4</sub>) and dry matter intake (DMI) &
  - 2) Using genetics to reduce the environmental 'footprint' of sheep

### How can we measure methane emissions in sheep?



### Relationship between methane and DMI across life-stage



Can we select animals to produce less methane?

- Investigate the impact of
- Sire type
  - Strain
  - Genetic merit
- On CH<sub>4</sub> emissions and DMI

### International Collaboration

- New GrassToGas Project
- Develop predictors of feed intake and methane emissions

Emissions from agriculture continue to rise - EPA



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