

CIEL Feed and Nutrition Open Innovation Group - Ruminant Monday 7 November 2022, 11am – 1pm

Agenda

1. Welcomes and apologies
2. CIEL funding
3. Project discussion 1

Defined need is to partition carbon & nitrogen losses (i.e. inputs not captured as product) so that the form it was lost to animal in could be considered in terms of impacts on emissions or nutrient outflow. Previous systems focused on what was captured for use by the animal including products.

- a. We should focus on **animal model**, not farm model
- b. Effectively we need to bridge gap between rationing software and carbon calculator tools. Noted that rationing software fulfils a commercial need whereas carbon calculators address an externality
- c. We need to determine which are the best equations to use for predicting such losses – carbon & nitrogen e.g. during ensiling N content can half. Where do the losses go? How can we quantify this in different systems & look at ways to mitigate? Similar losses exist for energy.
- d. Simulations will be needed
- e. Discussion covered how to improve models and evidence required, to add modules on to current tools.

Agreement of plans for scoping document/literature review-**deadline for finalising tender for funding 18 November.**

4. Project discussion 2

Forages are big gap in data needed for nutrient modelling

- a. Need to have way of coping with forage variability
- b. Need UK specific figures, not EU averages. RAR figures based on European averages are not good enough for predicting what is happening on UK farms.
- c. Need project in this space to generate UK relevant figures.
- d. Need to define methods for assessment of forages

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