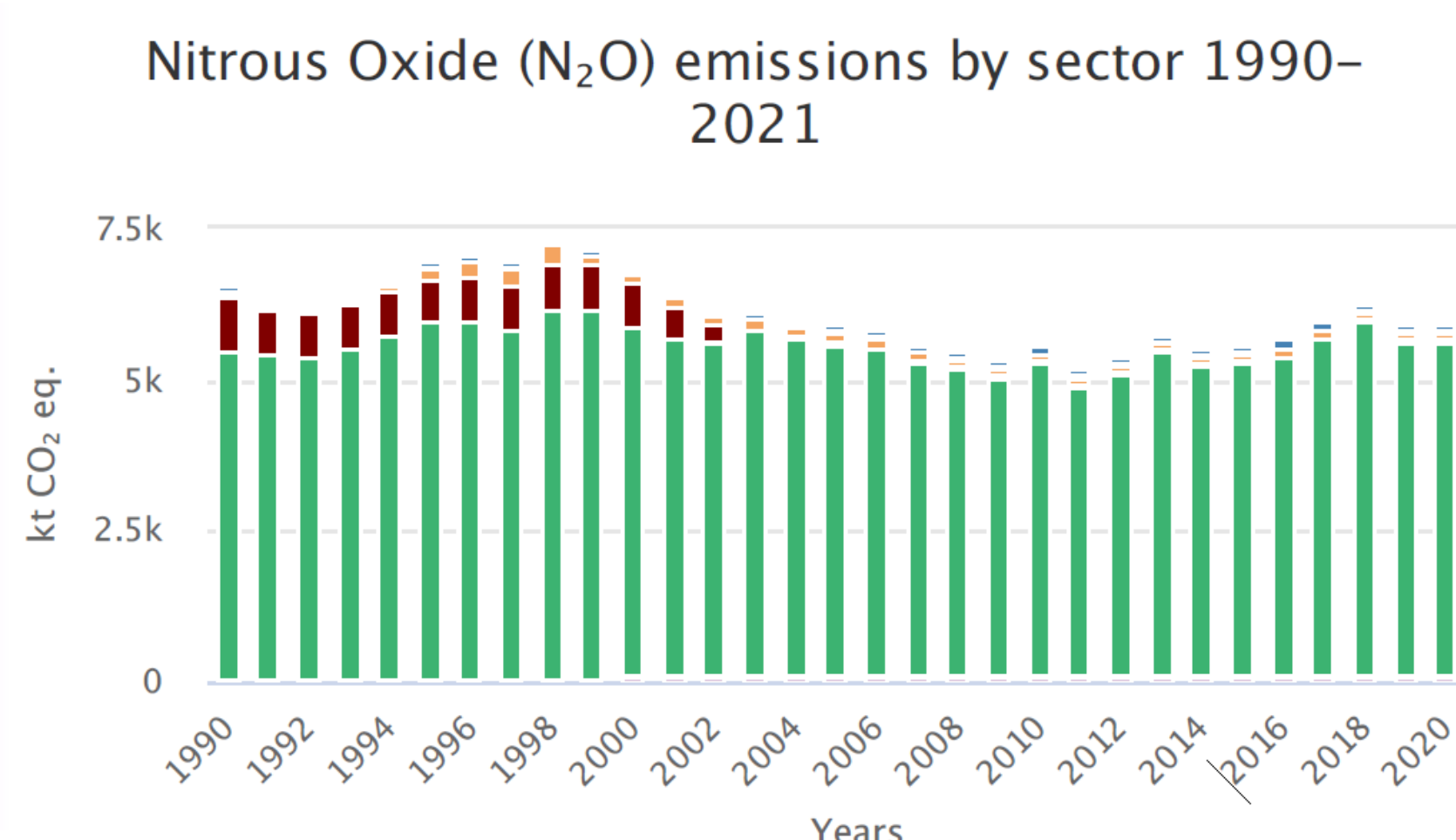
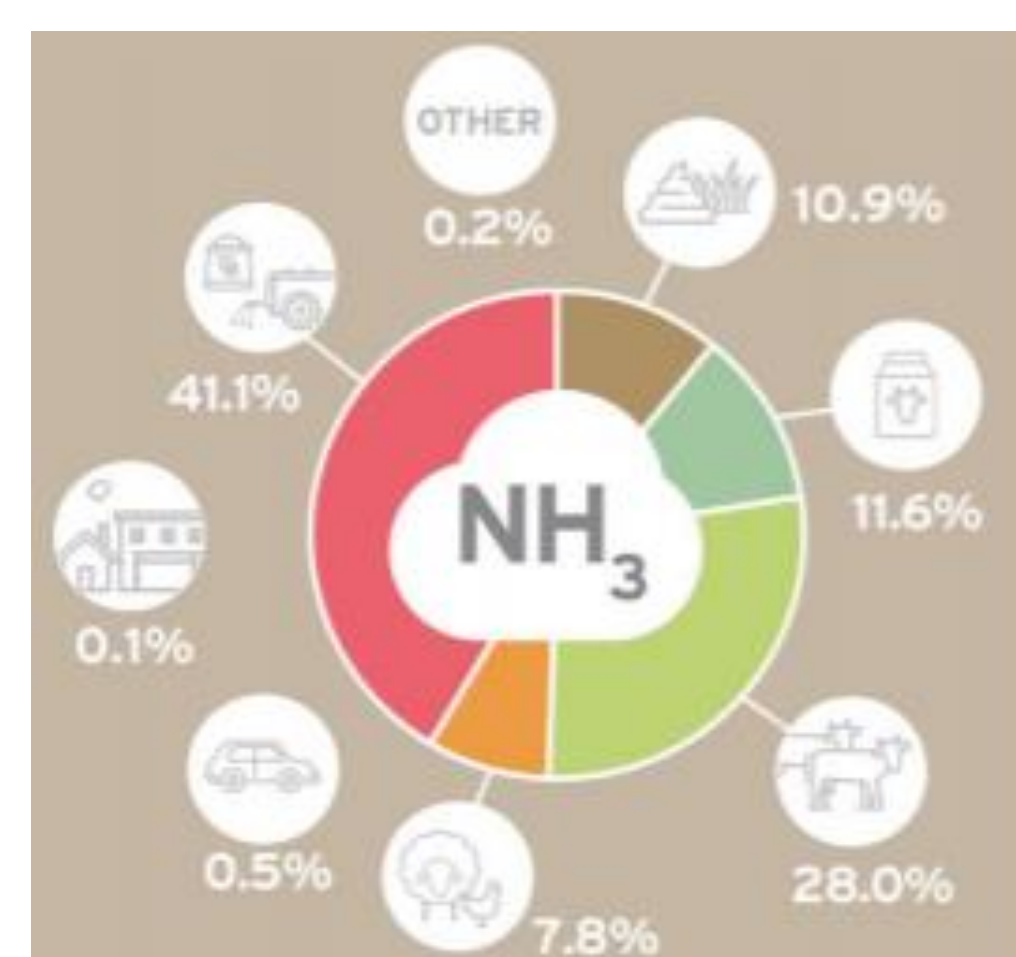
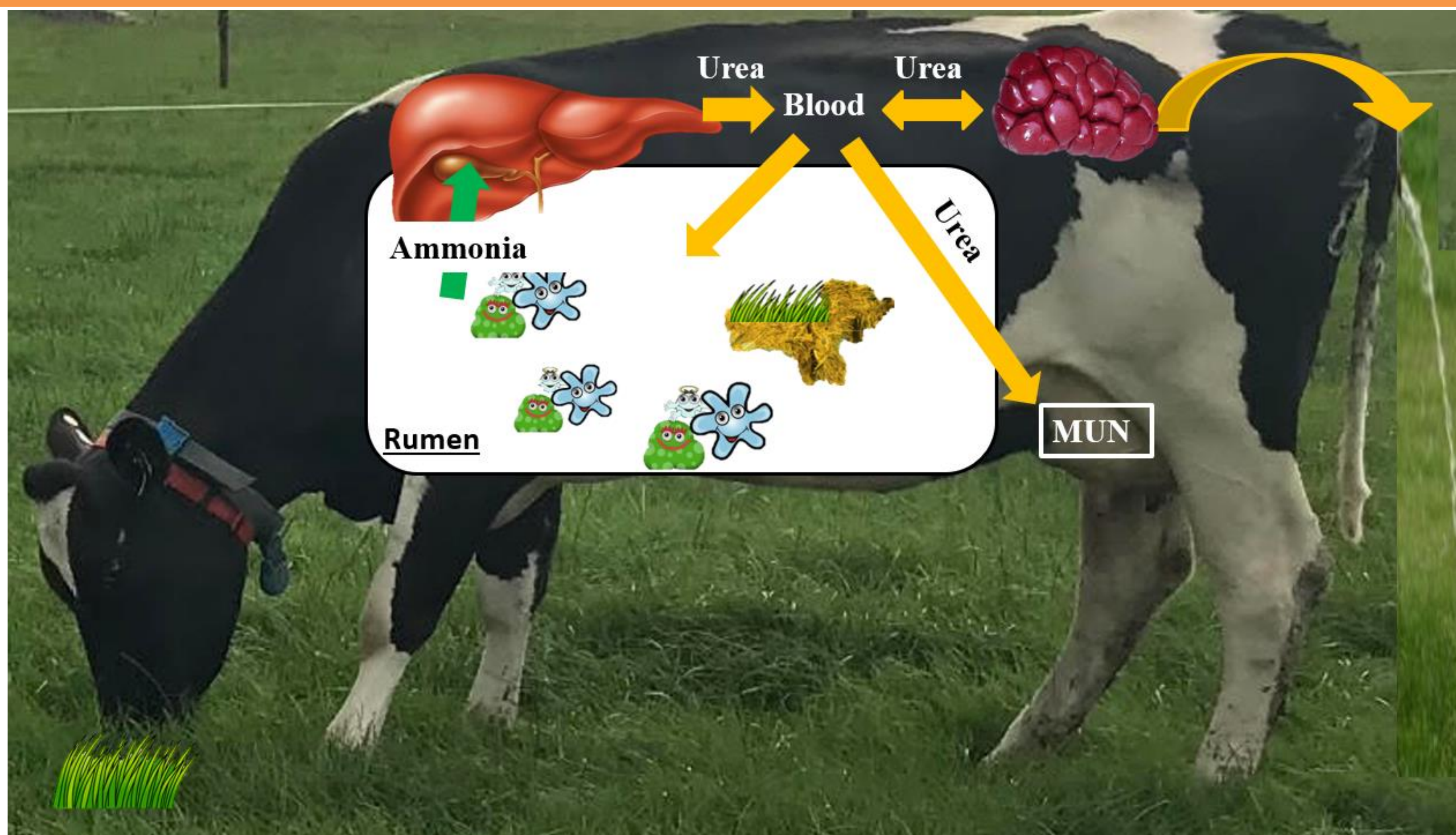


## Targets to reduce emissions



- 50% reduction in nutrient loss by 2030

## Nitrogen metabolism in the grazing cow



## Low protein concentrate

- Pasture typically > 17% crude protein (CP)

|                         | Concentrate CP (%; as-fed basis) |        |       |
|-------------------------|----------------------------------|--------|-------|
|                         | 25% CP                           | 18% CP | 8% CP |
| Milk Yield, kg/d        | 27.4                             | 26.9   | 26.1  |
| Milk Fat, %             | 4.51                             | 4.55   | 4.44  |
| Milk Crude Protein, %   | 3.41                             | 3.36   | 3.37  |
| Milk Solids Yield, kg/d | 2.1                              | 2.1    | 2.0   |

- Further experiments underway investigating low protein concentrate (8-15% CP) during spring, summer and autumn

## Take home message

Current data supports that low protein concentrate (<15%) can maintain milk production performance while reducing N emissions