

# The GHG targets we aim for when applying the Kemin Amino Acid Program

## Some key results

1. At resources to produce dairy feed level: >1,600 kg CO<sub>2</sub>-eq /head/year reduced<sup>1</sup> or >6,900 km covered or >39 % reduction CH<sub>4</sub>

Why?

- Improved allocation of raw materials (locally produced, source low-emissions feeds)
- Less CO<sub>2</sub>-eq/kg of feed
- Same or better cost for same nutritional profile

2. At animal and farm level: >2,000 kg CO<sub>2</sub>-eq/head/year or >8,600 km covered or >48 % reduction CH<sub>4</sub>

Why?

- Less CO<sub>2</sub>-eq/kg of DMI
- Less CO<sub>2</sub>-eq/kg of milk
- Better feed efficiency (IOFC & LUC & Energy)
- Less CO<sub>2</sub>-eq/animal (repro & health & longevity)

3. At post-farm level: >620 kg CO<sub>2</sub>-eq/ton of cheese or >2,695 km covered or 24.8 kg reduction CH<sub>4</sub>/Ton of cheese

Why?

- Less CO<sub>2</sub>-eq/kg of cheese
- Less N<sub>2</sub>O excretion
- Less N excretion
- Less P excretion
- Less water pollution (NO<sub>3</sub>)
- Less air pollution (N-NH<sub>3</sub>)