

Why Ronozyme ProAct can help?

Producing more meat without damaging
the environment

A challenge for the broiler industry



- Demand for poultry meat is increasing
 - » population increase
 - » improved economic prosperity
- Consumer and regulatory pressure to have a more environmentally friendly animal production is increasing
- Utilizing dietary protein sources more efficiently can help produce more meat whilst meeting the environmental challenges



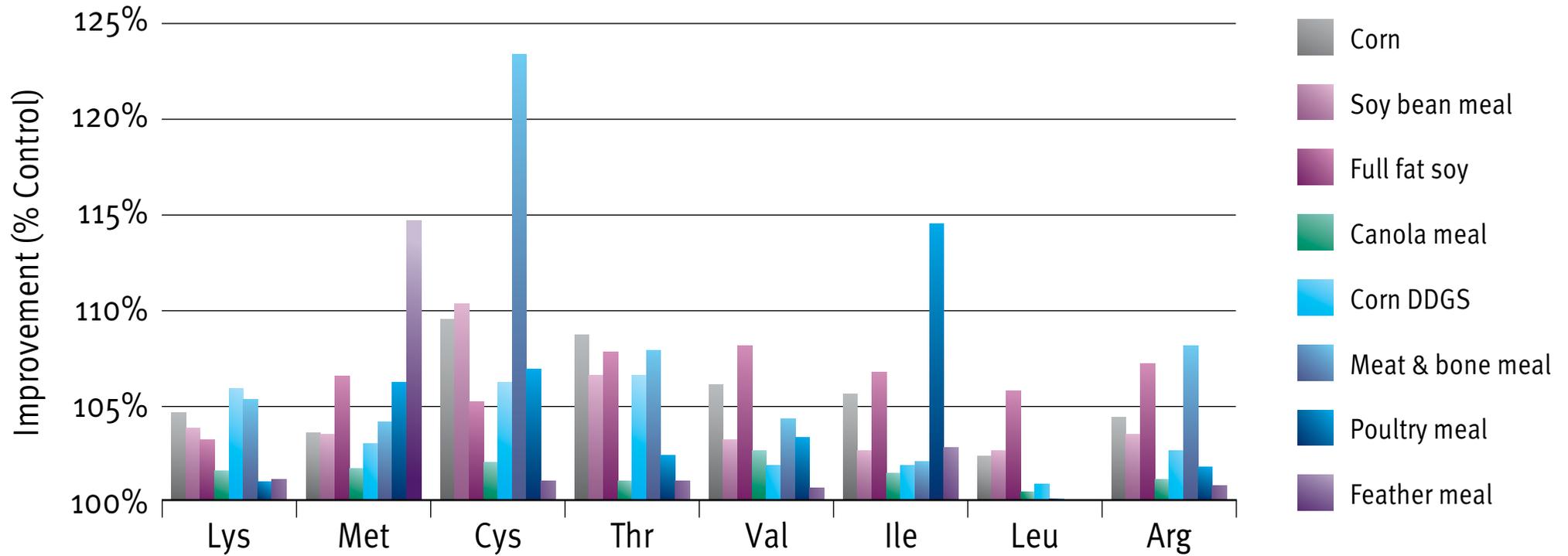
Strategies to better utilize dietary protein

RONOZYME[®] ProAct

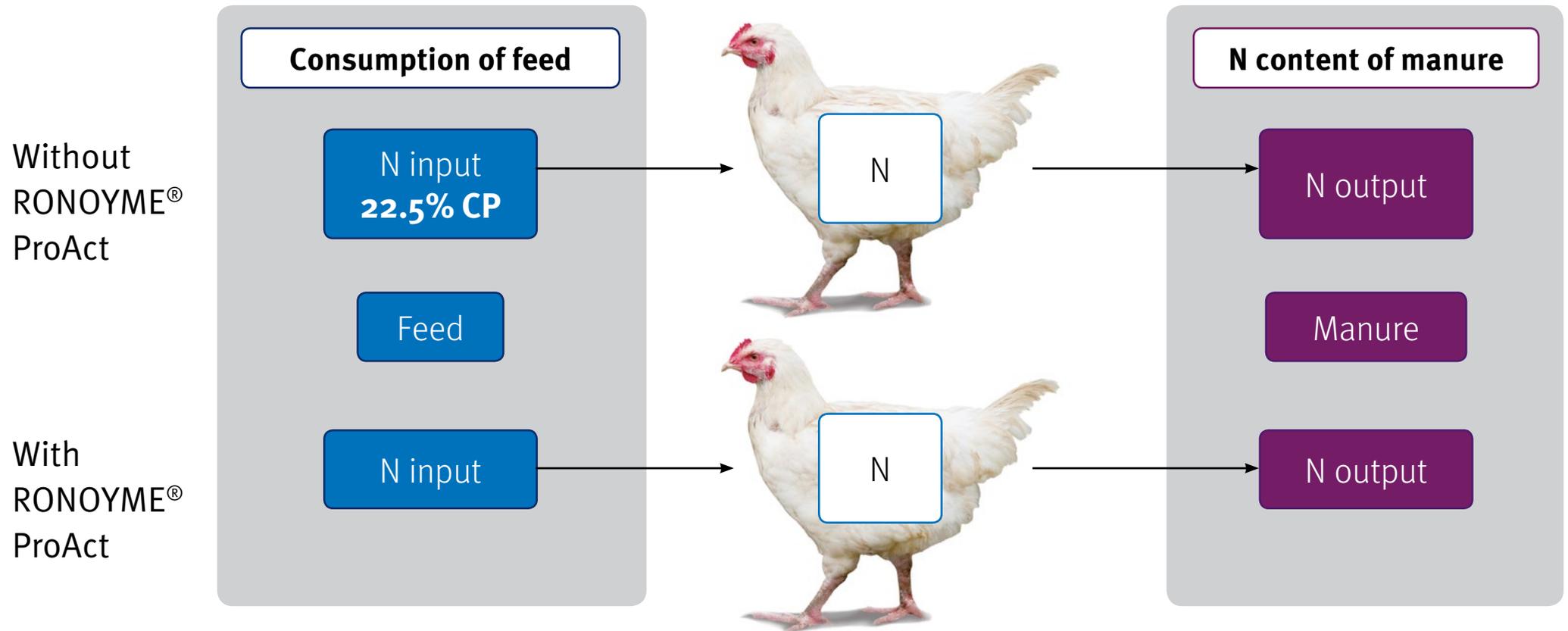
- Phase feeding
- Ideal protein ratios
- Low protein diets
- Synthetic amino acids
- Protease enzymes



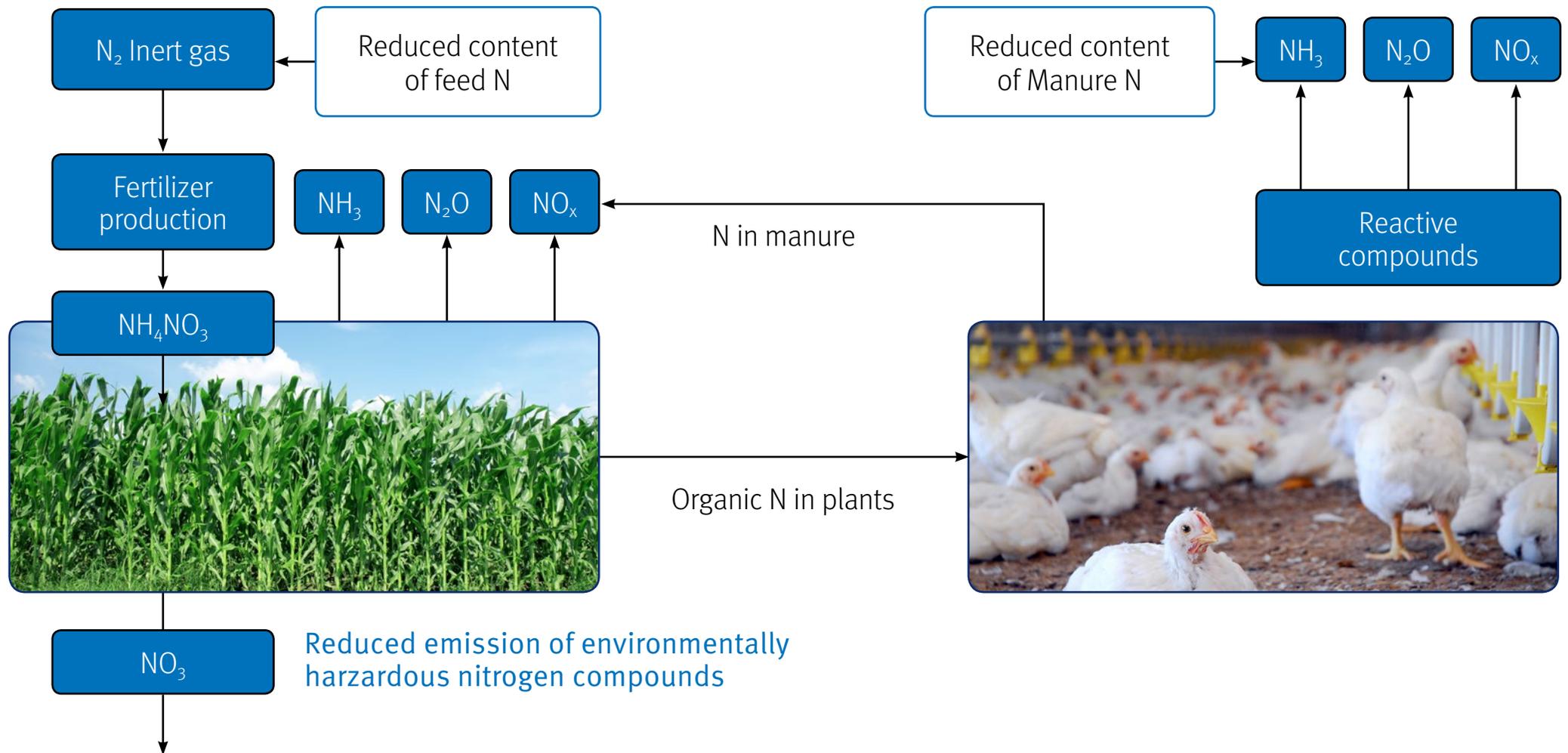
RONOZYME® ProAct improves amino acid digestibility of feed ingredients allowing formulation of lower protein diets without loss of performance



Agriculture converts inert nitrogen into a range of reactive compounds damaging to the environment



Lower levels of nitrogen in poultry manure reduce the production of reactive nitrogen compounds damaging to the environment



Reducing release of reactive nitrogen compounds can help protect the environment and meet regulatory requirements

Europe

6.357 billion broilers ~
15.9 mil ton broilers

(FAOSTAT 2010)

NH₃ emission reduction

Per ton broilers: -2.19 kg NH₃
Total potential: -35000 ton NH₃

Reduced N-excretion

Per ton broilers: - 3.64 kg N
Total potential: - 58000 t N

which means*:

205,000ha less land is needed
for manure application

730M more broilers can be reared
without need for extra land

Assumes max. application of 170kg N/ha

RONOZYME® ProAct - meeting the environmental challenge

- RONOZYME® ProAct can improve protein digestibility in a wide range of feed ingredients allowing lower protein broiler diets to be fed without loss in performance
- Lower protein diets = less nitrogen in litter and reduced release of reactive nitrogen compounds to the environment
- Fewer reactive nitrogen compounds in the environment = less eutrophication and acidification
- Lower protein diets formulated with RONOZYME® ProAct can help reduce environmental impact of broiler production whilst maintaining animal performance



BRIGHT SCIENCE. BRIGHTER LIVING.™