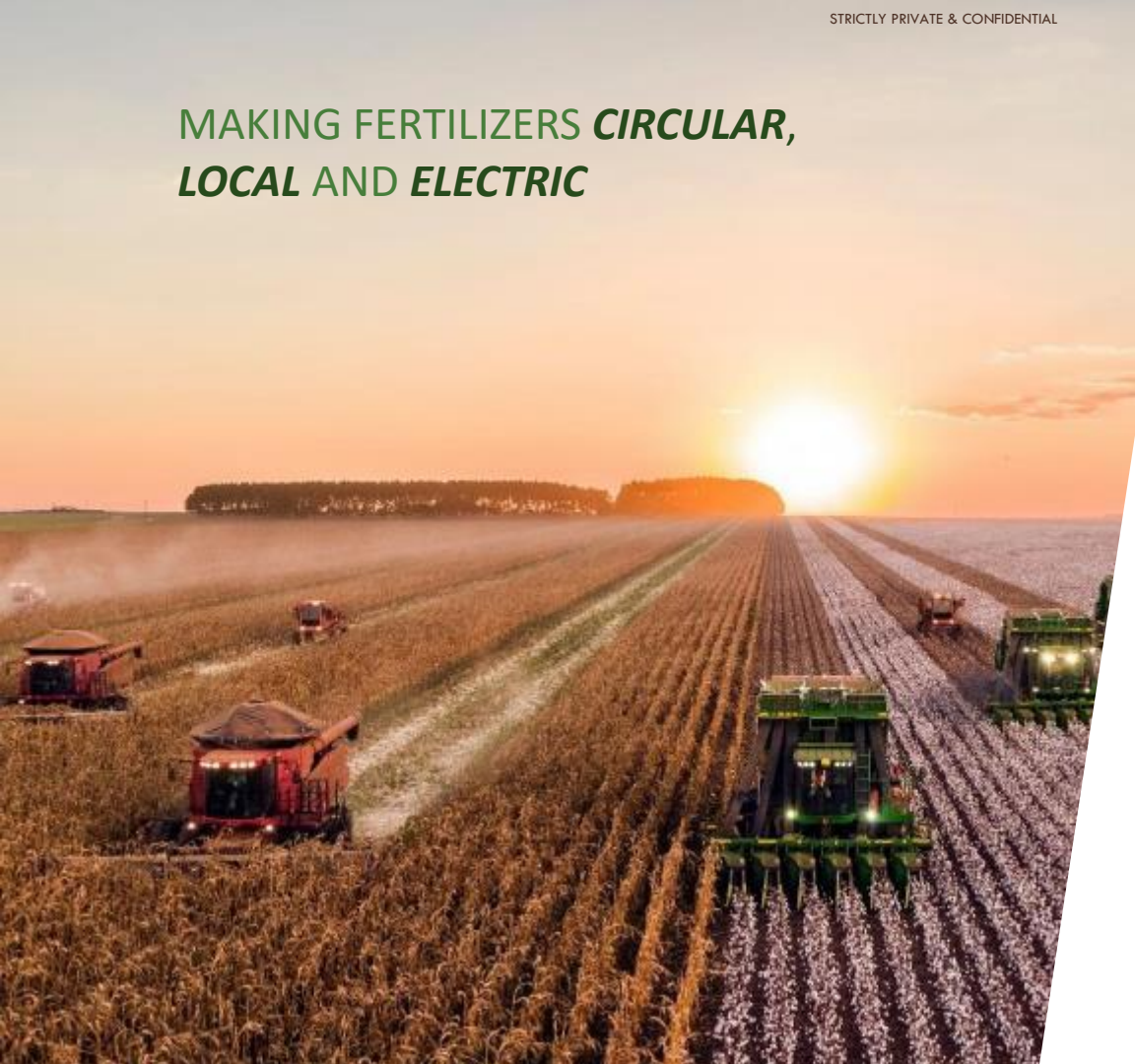


MAKING FERTILIZERS *CIRCULAR,*  
*LOCAL AND ELECTRIC*



*Cleantech capital day*

*October 2023*

**N2 — Applied**

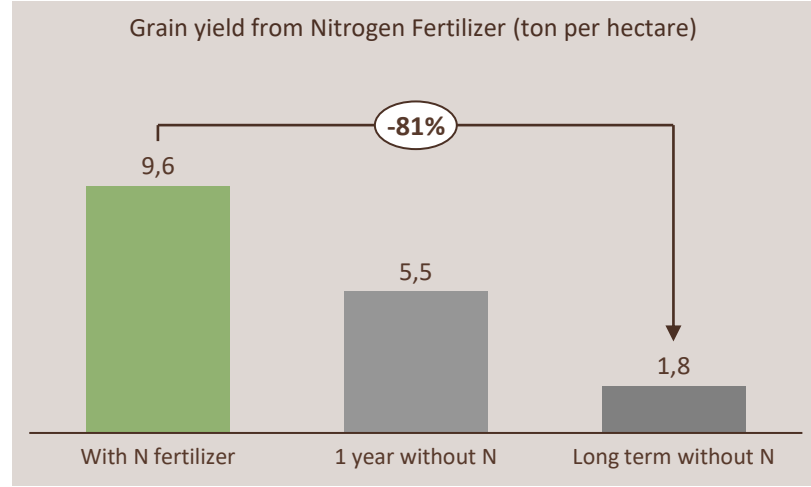
# How do we feed the increasing world population...

# ...without overwhelming the planet?



# The world is dependant on nitrogen fertilisers to maintain required crop yields

**N<sub>2</sub> — Applied**

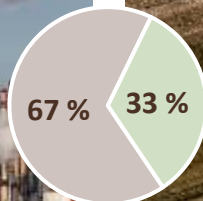


Nitrogen is the key component that make up proteins in plants



Yields decrease dramatically if nitrogen is not replaced after harvesting

# Current practices are not sustainable and massive economic value is lost



- ✓ Fossil based
- ✓ Harmful emissions from production and application
- ✓ Soil degradation over time

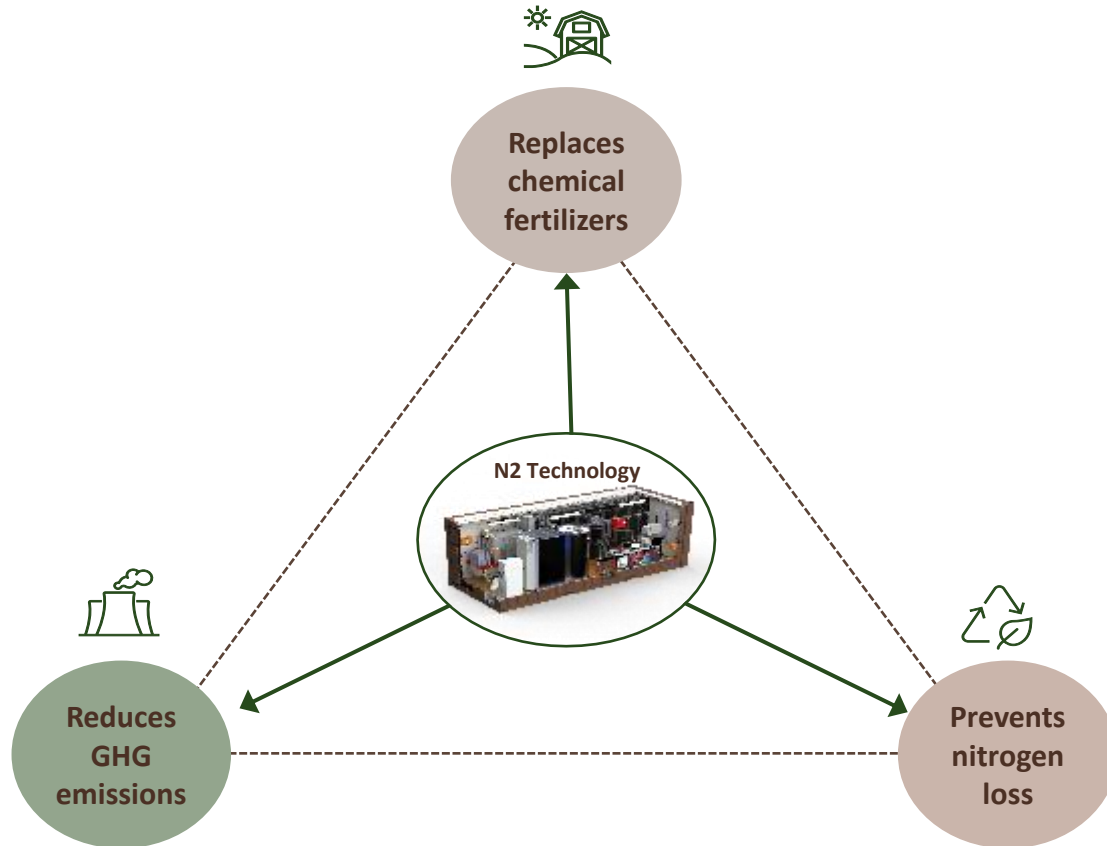
- ✓ Under utilized resource
- ✓ GHG emission and nitrogen losses during storage and spreading

**5%**  
of GHG emissions

**~40%**  
Nitrogen use  
efficiency

**Vulnerable**  
supply chains

N2 technology enables on farm production of fertilisers solving key issues in farming





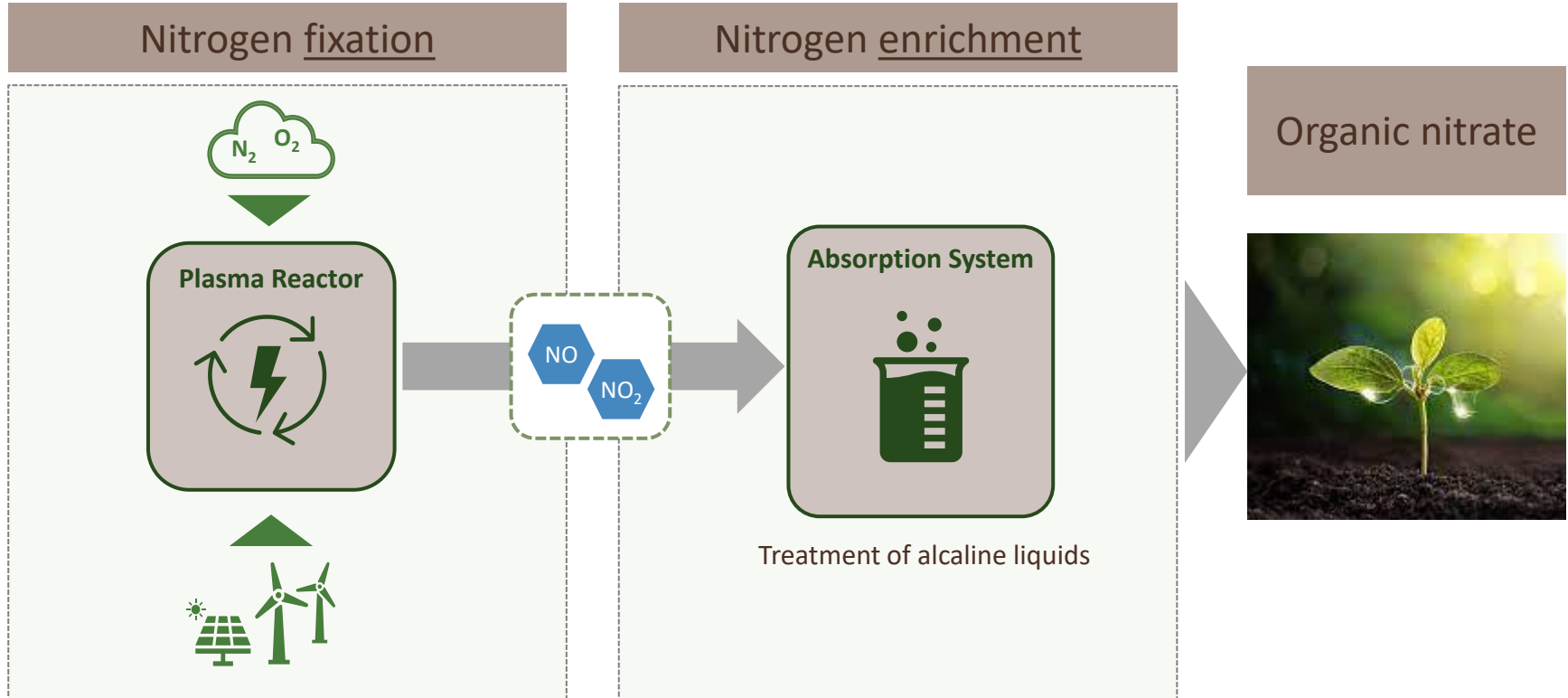
# Nature's own processes

A dramatic landscape photograph featuring a stormy sky with multiple bright lightning bolts striking down. The foreground shows a green field with several black cows grazing. The background includes a range of mountains under a sunset sky with orange and yellow light breaking through the clouds.

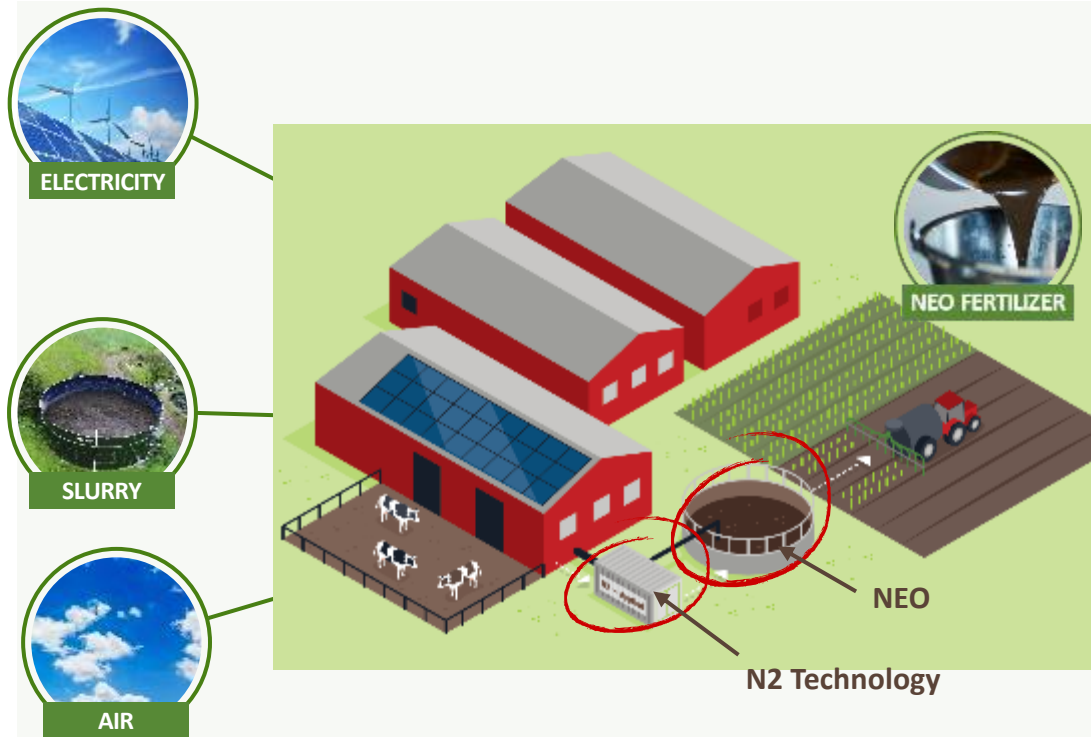
*“Nitrate-based fertilizers are the most efficient and most reliable nitrogen source available”*

# N2 technology emulates nature's own processes to form effective low emission plant nutrients

N2 — Applied



# 1<sup>st</sup> demonstrated application - Transforming livestock slurry into a Nitrogen Enriched Organic fertilizer (NEO)



**4x fertilizer value**

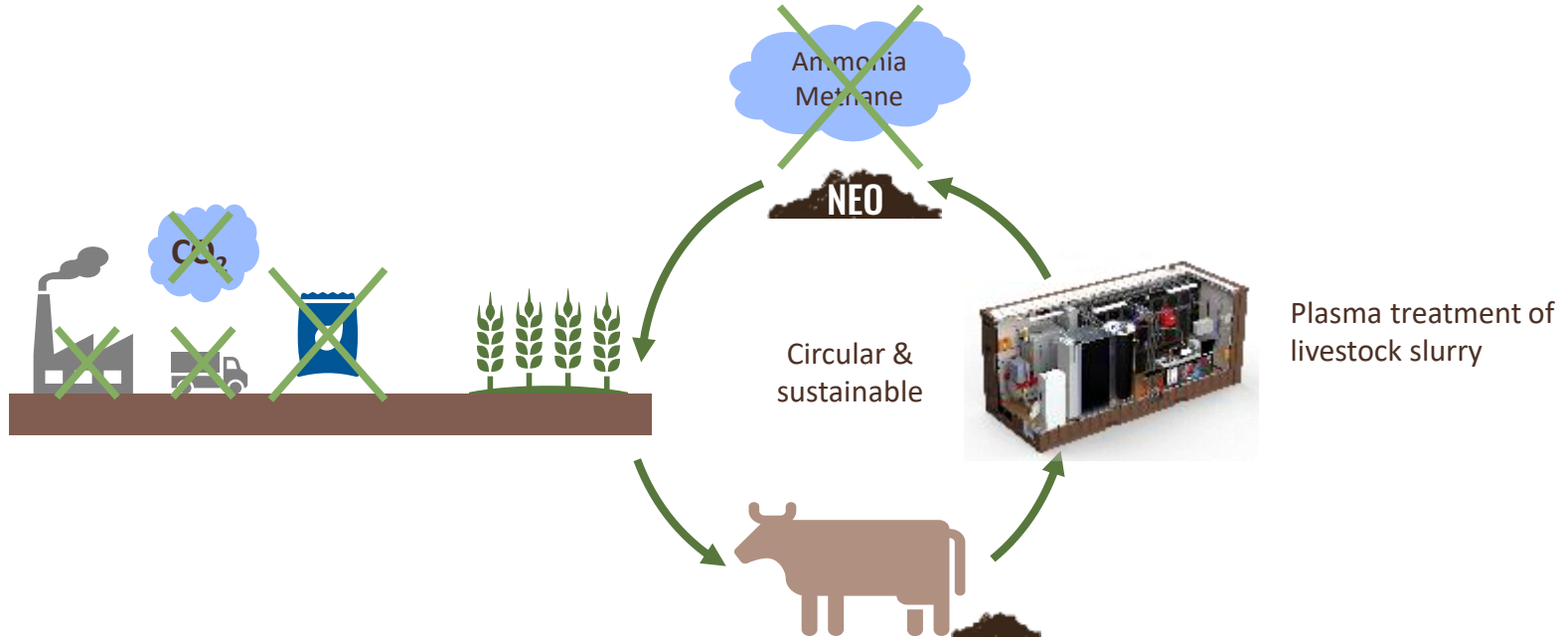
**Stops nitrogen loss and  
increases nitrogen use  
efficiency**

**Returns carbon to the soil to  
improve soil health**

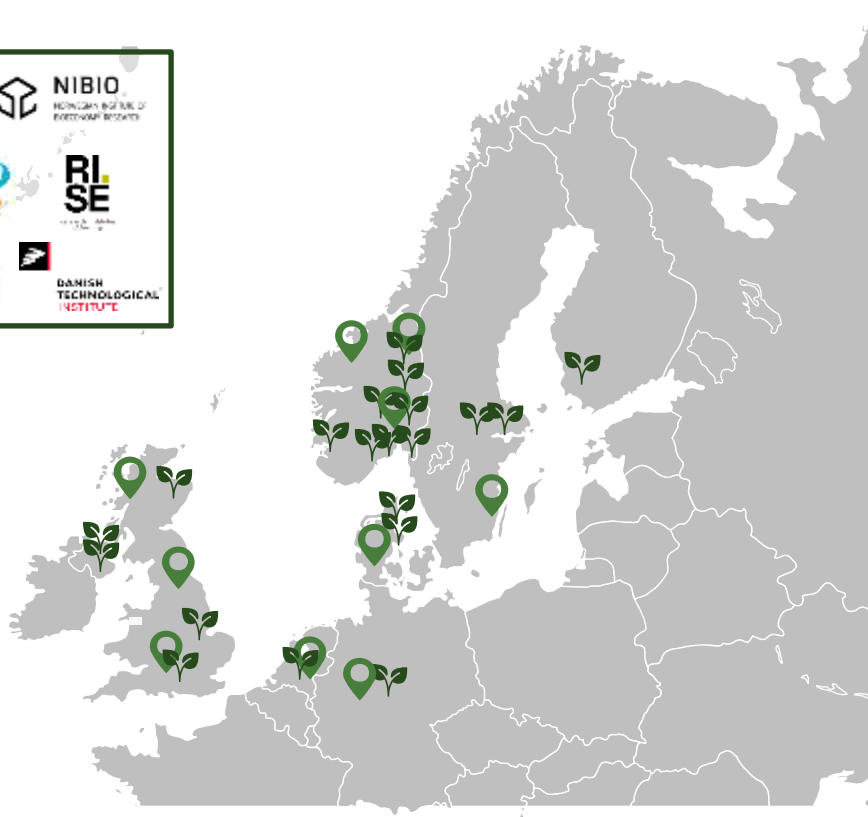
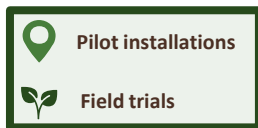
**Lowers GHG emissions**



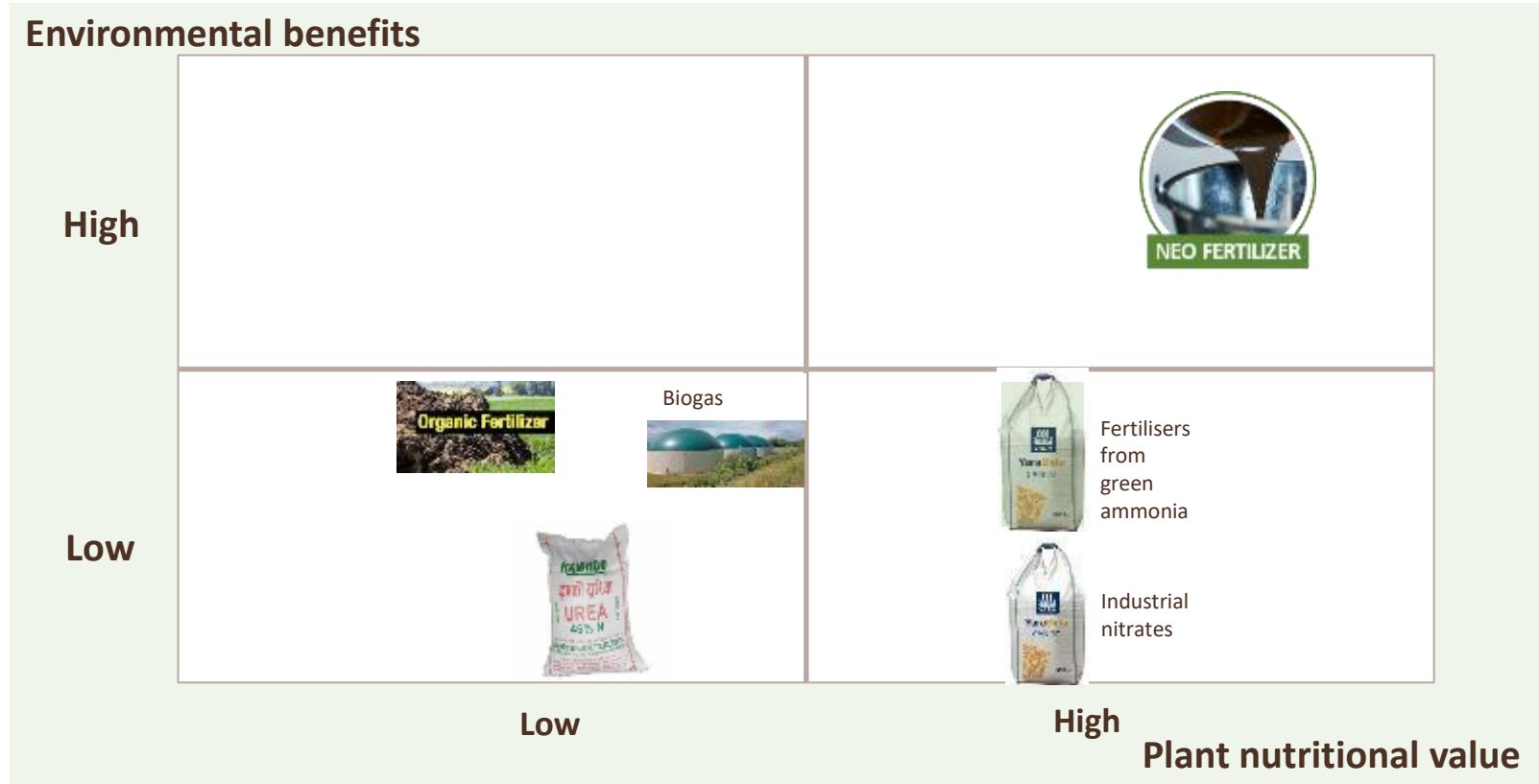
## Recycle nutrients on the farm



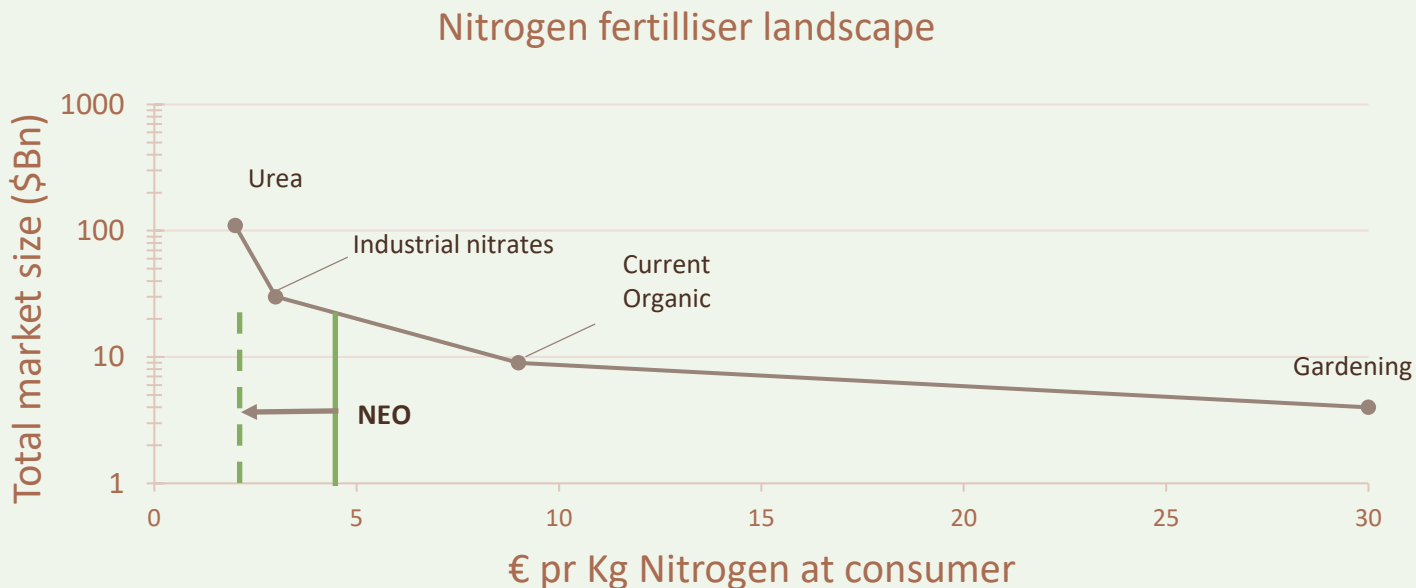
Demonstrated and proven through 50+ successful field trials and pilots with recognized partners



# A unique combination of plant nutritional value and environmental benefits

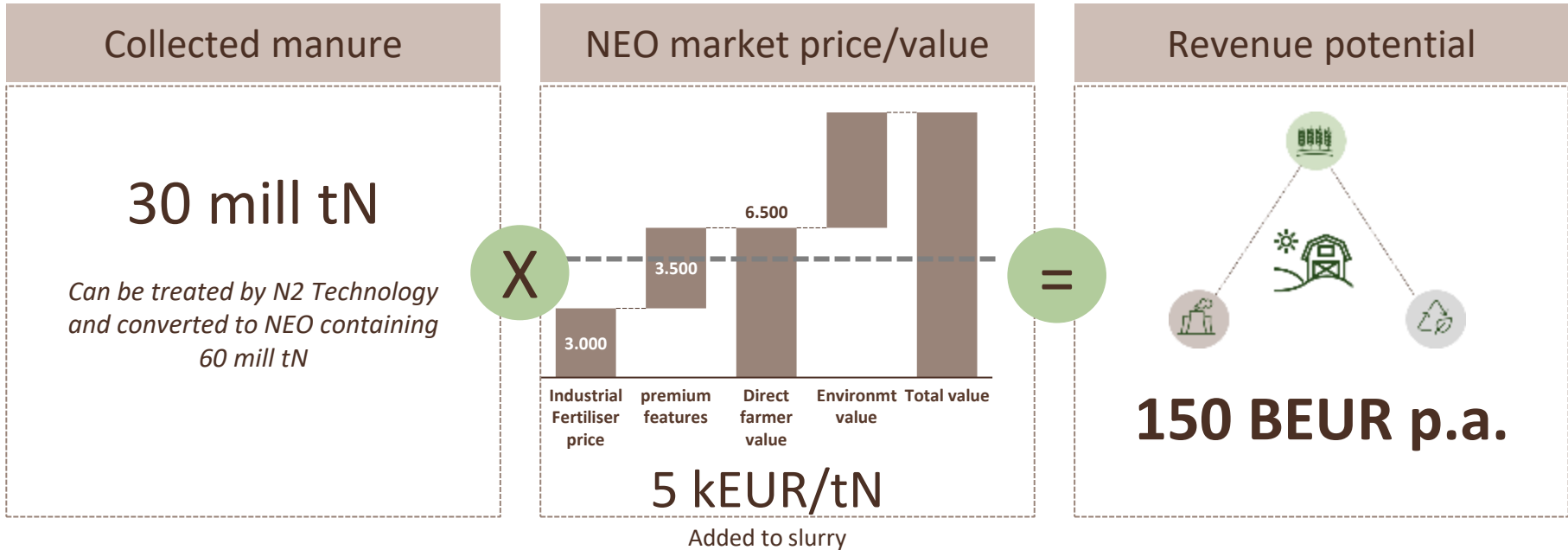


# NEO is becoming cost competitive creating a large global market potential



- Technology development and scale to reduce NEO cost and increase addressable market
- Environmental policy on fossil based fertilisers will accelerate global adoption

# Major long term revenue capture potential with significant value upside



# 1<sup>st</sup> partnership to commercialize & scale to dairy farms globally

N2 — Applied



Engineering for a better world

18.000 employees

Worldwide presence

#2 market position in Dairy farming



3-year exclusive license towards dairy



Ambition: 10k farms within 2030



N2 revenues from royalties and services\*



Manufacturing ready in Germany

\*royalties increase as manufacturing cost is reduced



# Food companies investing in sustainability using N2 technology



[News](#)

GEA partners with Unilever to improve sustainability on dairy farms



Wall's  
www.wallsgroup.co.uk



Ben & Jerry's  
www.benjerry.com



Magnum  
www.magnum.com

# N2 technology can transform a number of waste streams to nutrient-rich emission-free fertilisers

## Farmers

### Initial focus

1



#### Livestock farming

Emission free organic fertilizer from livestock manure  
+50 bn EUR market potential

3



#### Arable farming, fertigation

Create on-site customized liquid fertilizers  
12 bn EUR market size

## Industrials

2



#### Biogas

Emission free, organic fertilizer from Biogas digestate

4



#### Mining, industry,

Creating valuable fertilisers from waste streams, dust, ashes

## Longer term applications



#### Industrial green fertilizer production



#### Treatment of human sewage



#### Production of artificial proteins

**Thank you for your attention**

**N2 ————— Applied**

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CFO

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[www.n2applied.com](http://www.n2applied.com)

Making fertilisers circular, local and emission free