

NUTRISPHERE-N[®]

NUTRISPHERE-N FOR GRANULAR
NITROGEN FERTILISER



VERDESIAN

THE NUTRIENT USE EFFICIENCY PEOPLE[®]

VERDESIAN LIFE SCIENCES



VERDESIAN

THE NUTRIENT USE EFFICIENCY PEOPLE®

Embracing Our
Global Responsibility

Agriculture is
Responsible

89%

Ammonia
Emissions

Intensive
Agriculture

x100

More
Ammonia

Inorganic
Fertilisers

18%

Ammonia
Pollution

Environmental Issues
Ammonia Pollutant | Clean Air

Nitrous
Oxide

x300

More Potent
than CO₂

Agriculture is
Responsible

87%

Nitrous Oxide
Emissions

Nitrous
Oxide

+23%

Global Emissions
Increase

Greenhouse Gas Issues
Nitrous Oxide | Clean Air

Maximum
Nitrate

50 MG/L

Drinking
Water

Nitrate
Level

83%

Increase
1980 - 2015

Excessive
Levels

15%

Nitrate
Pollution

UK Water
Companies

20%

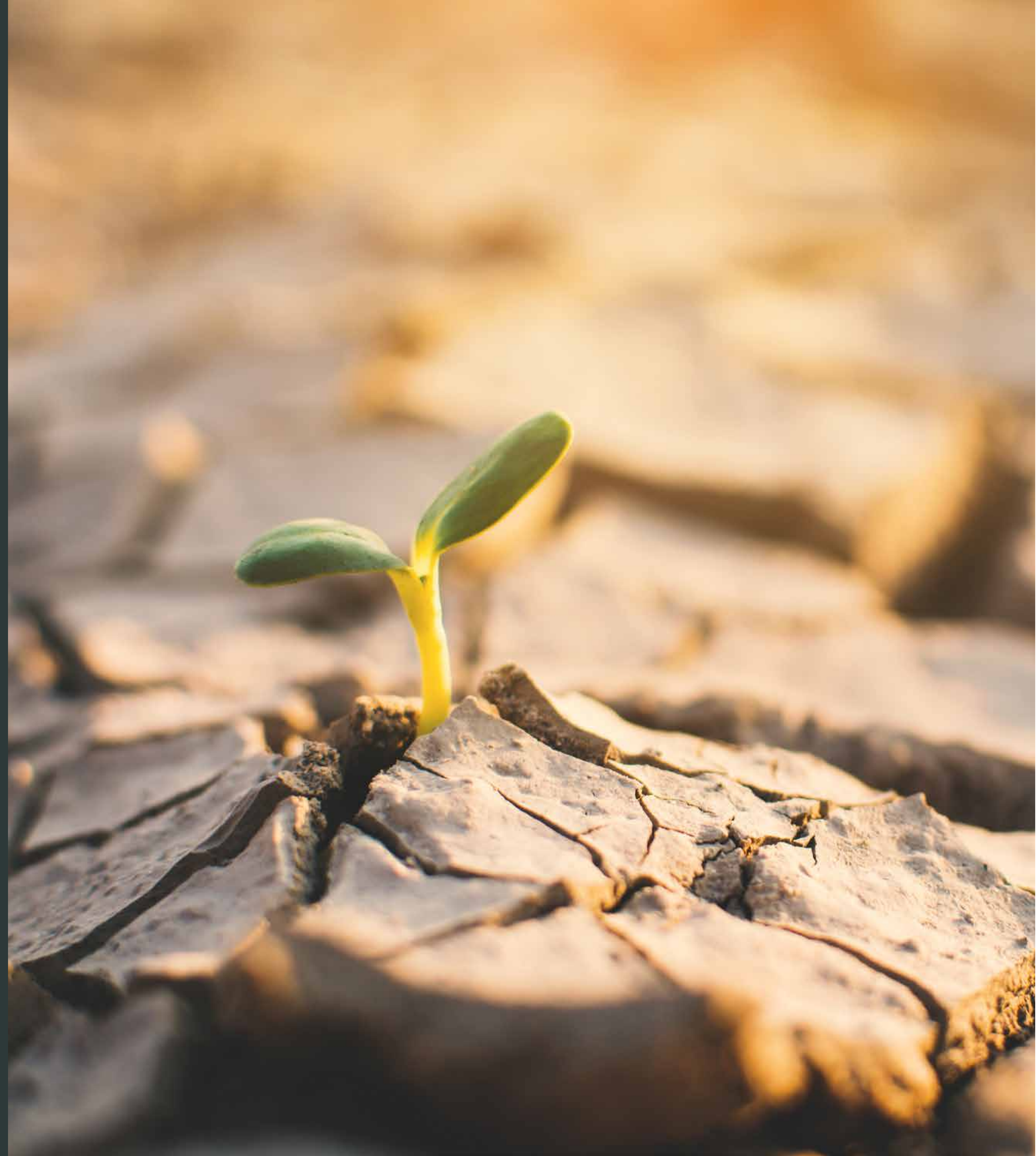
Nitrate
Reduction

Environmental Issues Nitrate | Clean Water



To reach our goals, we must close the innovation gap in agriculture with new technologies and methods of producing food that protect nature.

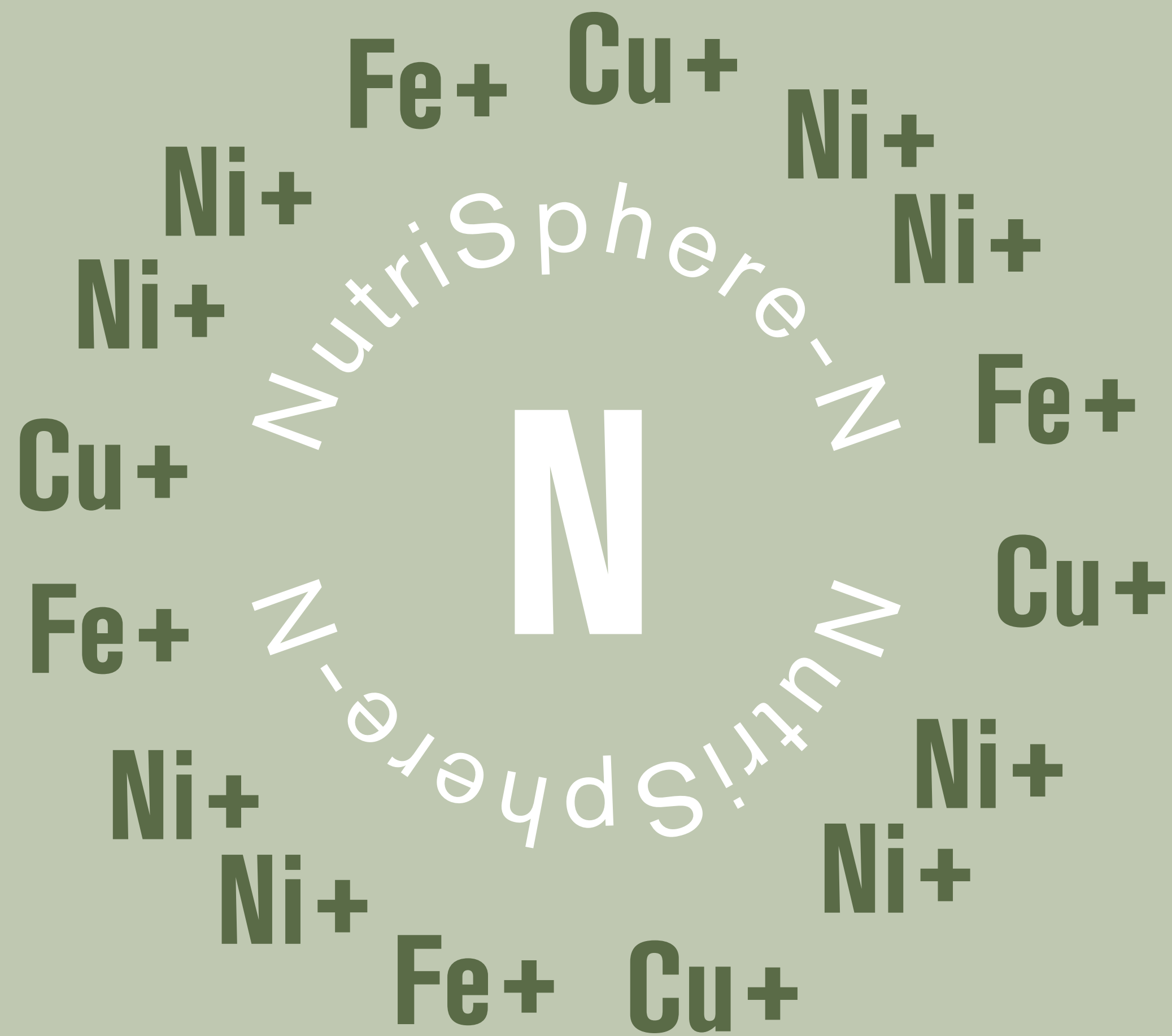
SOURCE: UKCOP26 GLASGOW





NUTRISPHERE-N[®]

The next generation
of fertiliser stabilisers



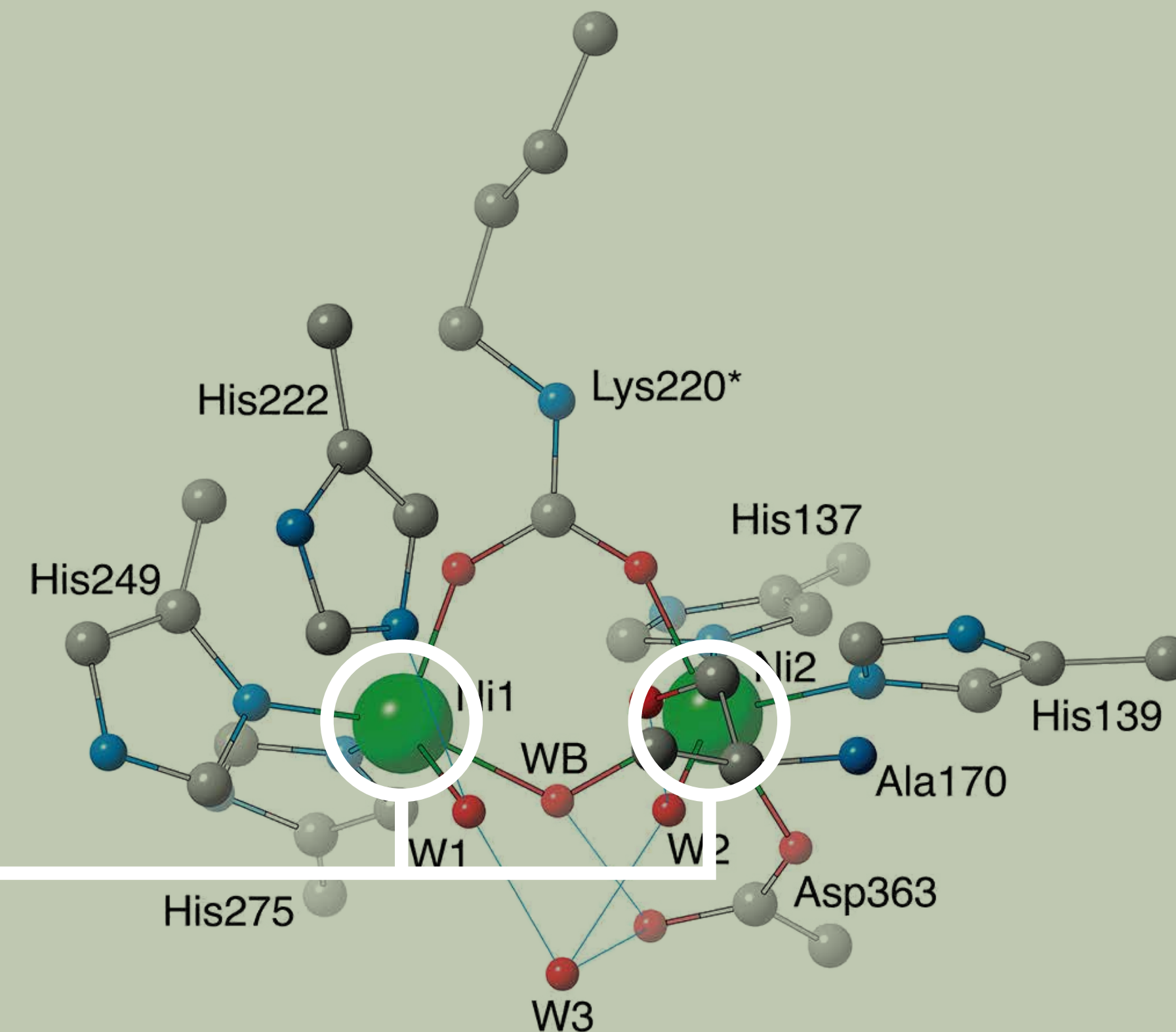
- o Nickel fuels ammonia loss
- o Copper and iron stimulate bacteria to produce nitrogen leaching and denitrification

NutriSphere-N influences the microzone around applied N.

NUTRISPHERE-N[®]

- Nutrisphere N enables more of the applied nitrogen to be available to the plant
- Nutrisphere N has no negative effect on soil bacteria
- The mode of action for Nutrishpere N has been proven by The University of Bologna.

NutriSphere-N takes the nickel away





The results of our Global Responsibility

What we have done so far



Ammonia
Emissions Reduced

85%

14 Day
Period

Nitrous Oxide
Emissions Reduced

61%

226 Day
Period

Reduced impact on the environment | **The Air Results**

Terrestrial
Organisms

0%

12 Month
Period

Soil
Microorganisms

+74%

69 Day
Period

Reduced impact on the environment | **The Soil Results**

Aquatic
Organisms

0%

Impact over
12 Months

Freshwater
Fish

0%

Impact over
12 Months

Nitrate Reduction
Leaching

21%

290 Day
Period

Reduced impact on the environment | **The Water Results**



Yield
Average Increase

4.6%

Over 130
European
Field Trials

Reduced impact on the environment
The Agronomic Trial Results



Summary



NutriSphere-N is a highly water-soluble organic compound primarily created from fermentation of maize.



The technology is proven to reduce the three sources of N loss (volatilisation, leaching, denitrification) by using its high cation exchange capacity to deny certain bacteria key elements (Ni, Cu, Fe).



NutriSphere-N is proven to provide farmers with a return on investment.



The technology keeps the fertiliser where it is needed for longer, increasing nitrogen efficiency, yield and crop quality.



The technology helps reduce the environmental impact on air and water quality. NutriSphere-N breaks down in the soil to carbon, hydrogen and oxygen.



The technology has demonstrated a beneficial effect on soil biome.



THANK YOU