



N-Fix Technology – New delivery system for Nitrogen

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Issues With Nitrogen-Based Fertilisers



Overuse of Nitrogen Fertilisers on crops causes Nitrate pollution which can lead to:



Dead zones



Water contamination



Greenhouse gases

Negative impact on animal and human health

Is the only proven technology that enables all crop species to fix nitrogen directly from air



The technology *Gluconacetobacter diazotrophicus* (Gd) was originally developed by Professor Ted Cocking FRS



Patented disruptive technology which will have a huge impact on agriculture



Contains no toxins and is neither genetic modification (GM) nor bioengineering



Enables naturally sustainable farming without nitrogen pollution



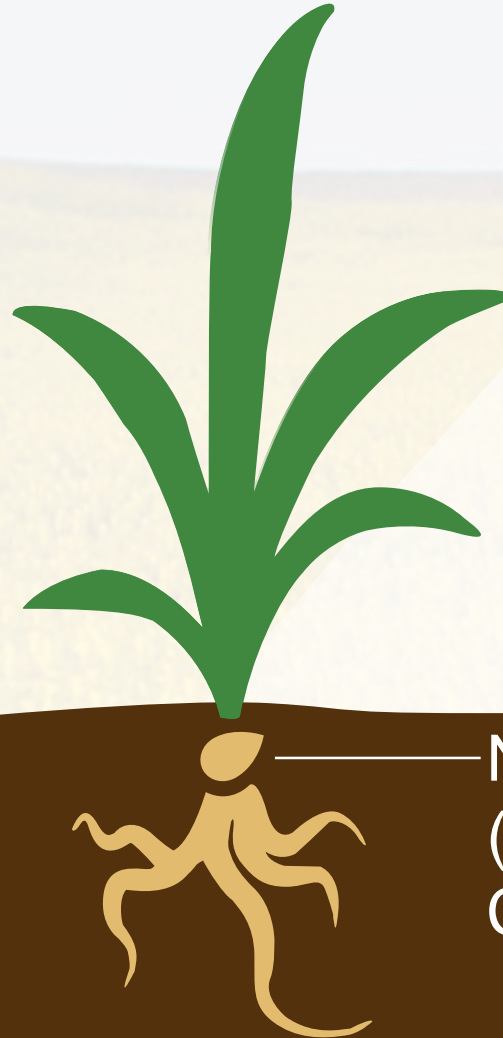
Increased profit for farmers through reduced fertiliser usage and increased yields



All plants require nitrogen however as they are unable to use atmospheric nitrogen, they rely on sourcing active nitrogen from the soil.



Our N-fix technology provides every cell in the plant with the ability to fix its own nitrogen from the air.



N-Fix
(Nitrogen Fixing Bacteria)
Coated Seed

Field Trial Results

- Into 6th season of field trials
- 2015 is the 1st year Azotic is delivering 3rd party independent field trial results
- 2015 – 37 field trials in 8 countries on 7 different crops
- 2016 - 73 field trials with CROs in 9 countries covering 6 crops



Field Trial Results



- ✔ Proof of colonisation
- ✔ Increase in yield 7% in Belgium and 21% in Germany
- ✔ Saving on average of 50% of N fertiliser
- ✔ Belgian and German results indicate an overall potential reduction in nitrogen fertiliser of 40% and 95% respectively without suffering any yield penalty



- ✔ Proof of colonisation
- ✔ Saving on average of 50% of N fertiliser
- ✔ 15% yield increase
- ✔ Substitution of 50% of recommended rate of nitrogen fertiliser (N) achieved greater yield than full recommended rate of N

The Way Forward



Agriculture must change



Biologicals will contribute to sustainable agriculture



Increase food production through new science not more planet



Regulatory action to reduce nitrogen pollution from agriculture e.g. NVZs



We need to work together on regulatory action to reduce nitrogen pollution from agriculture



Our Vision

The **nitrogen industry** is worth approx. **\$110bn annually**.

We're going to revolutionise this industry.

We're going to **change the way that people grow food**.

What we have created will **affect every single person on the planet**

now AND our future generations. We have created the

single most important breakthrough in agriculture

in the **last 100 years**.

Thank You



The future in sustainable nitrogen