

NIMBUS GATEWAY UPGRADES A LIQUID MINERAL INJECTION SYSTEM



BACKGROUND

Terra NutriTECH supplies a liquid mineral injection system to dairy and beef farms. They specialise in the accurate delivery of a custom-made mineral formulation to livestock. This is carried out using a purpose-built controller and custom technology sourced from across a number of industries. Combining this unique delivery system with formulations devised by industry experts ensures a world-class, leading product.

THE NEED

Terra NutriTECH approached the Nimbus Gateway to assist them with R&D activities concerning the following requirements for their nutrient injection system:

- Controller upgrade and test
- Remote access to controller
- Message alert system implementation
- Sensor deployment to the mineral tank
- Data harvesting, including depth gauge for mineral tank and relevant system performance parameters
- Implementing a mineral stock purchasing feature on a relevant controller user interface
- Increased memory of the controller

THE SOLUTION

Using two fast track innovation vouchers, the Nimbus Gateway focused its attention on designing, adding value and upgrading the main controller board. In addition, a touch screen to the nutrient control centre was introduced to allow for easy administration and to facilitate future e-commerce services.

This project resulted in 120 finished controller units by December 2017, which were distributed to Terra NutriTECH customer sites. It is envisaged that Terra NutriTECH will leverage an additional fast track voucher to assist with their bulk controller build and field testing.



BENEFITS OF THE ENGAGEMENT

The chief impact for the company is the ability, through the Technology Gateway programme, to successfully address the business need of upgrading their existing equipment offering to support their customers' demands, while future-proofing their position as a leader in their field.

“The TEC Gateway has done a great job to upgrade our existing controller and the look and feel of our nutrient control centre. This has allowed us to work with companies like Ergonomic Solutions to realise a new product offering that was launched at the National Ploughing Championships 2017. We anticipate this to be the foundation platform for a more interactive experience for our customers in the future.”

- Pdraig Hennessy MD, Terra NutriTECH

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