



# MEASURE MODEL MANAGE

## ABOUT US

Established in 1964, Lincoln Agritech Ltd is a multidisciplinary research and development company owned by Lincoln University. We deliver leading-edge science and engineering for the environment, agriculture and industry.

Our passion is to inquire and innovate, to drive science and engineering research to create new knowledge and technologies that enable our clients and stakeholders to prosper. Our work is funded through a combination of government-funded science programmes, contract research, and consultancy; examples of our work can be found throughout New Zealand and internationally:

- IRRICAD™ - Irrigation design software. IRRICAD™ is a world-leading design software program, specifically developed for the irrigation industry by Lincoln Agritech. Launched in 1988, today IRRICAD™ is distributed globally and sold to over 85 countries.
- Hydrometrics Nitrate GW50 - Optical Groundwater Nitrate Sensor. Lincoln Agritech has developed a low-cost sensor that measures the concentration of nitrates in groundwater via monitoring wells.
- PAWS™ - The PAWS™ pest identification sensor pad is a remote-deployable system which delivers real-time information on specific species interactions

through capacitance-based hardware architecture and advanced signal processing algorithms.

- Deep South National Science Challenge - Using 4D drones to monitor cloud and snow formation, the project aims to enhance our understanding of weather systems and processes underlying climate change.

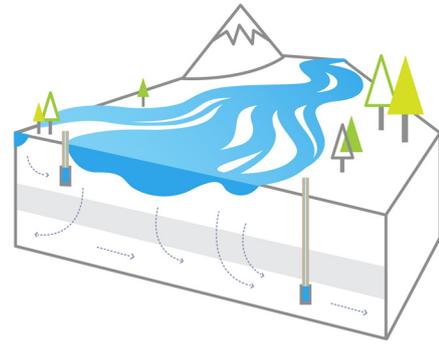
Lincoln Agritech is a vibrant organisation with over 50 staff, including scientists, research engineers and software developers, working across our Lincoln and Hamilton sites. We combine a passion for discovery and invention with a down-to-earth pragmatism to deliver real outcomes across the whole primary sector value chain. Our staff work closely with industry, central and local government, iwi, and communities to deliver “tomorrow’s solutions for today’s problems”. From a better business to a better world, our attitude is that our research must enhance New Zealand’s environmental, primary, and industrial sectors, and ultimately the well-being of New Zealand’s people, economy and environment.

**To learn more about our research programmes, visit our website at [www.lincolnagritech.co.nz](http://www.lincolnagritech.co.nz)**

We deliver leading-edge science and engineering knowledge and technologies into environmental, primary, processing and new materials applications.

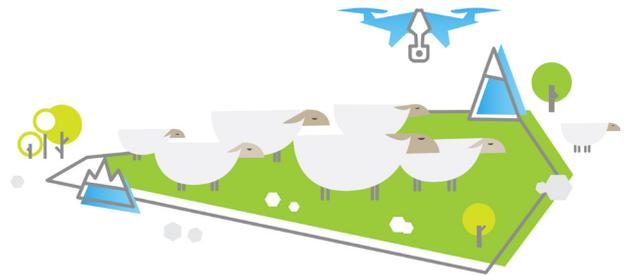
## ENVIRONMENT

Our environment sustains everything we depend on for healthy and prosperous lives. We provide science that enables government and water users to manage groundwater quality, nitrogen impacts and water allocation and also develop smart tools for conservation and biosecurity.



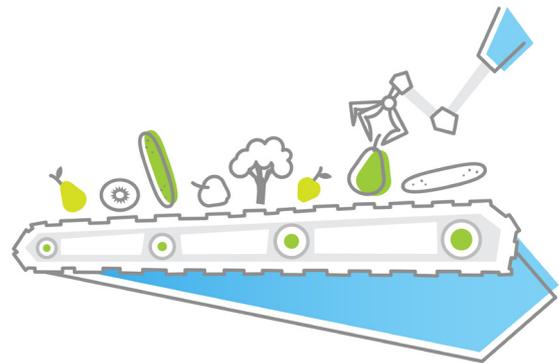
## PRIMARY SECTOR

To sustainably increase primary production, farmers need new tools. Precision Agriculture is a management concept that encompasses digital farming and site specific crop and animal management based on observing, measuring and responding to inter and intra-field variability. Precision Agriculture techniques assist growers and farmers to improve productivity, reduce management load and costs, and lower their environmental footprint.



## PROCESSING

What can be measured can be managed. We develop smart sensing technologies to help our clients improve their decision-making and process understanding. Using sensors to build management information systems can provide a competitive advantage by reducing costs and developing new product opportunities.



## NEW MATERIALS

The Lincoln Agritech New Materials Group is the lead research provider to the New Uses for Wool Partnership Programme, a joint funding arrangement between the New Zealand Government and Wool Industry Research Ltd, (a body representing the research interests of the post-harvest New Zealand wool sector). The Partnership Programme is structured to generate transformational, high value and high volume opportunities for the coarse wool based industry.

