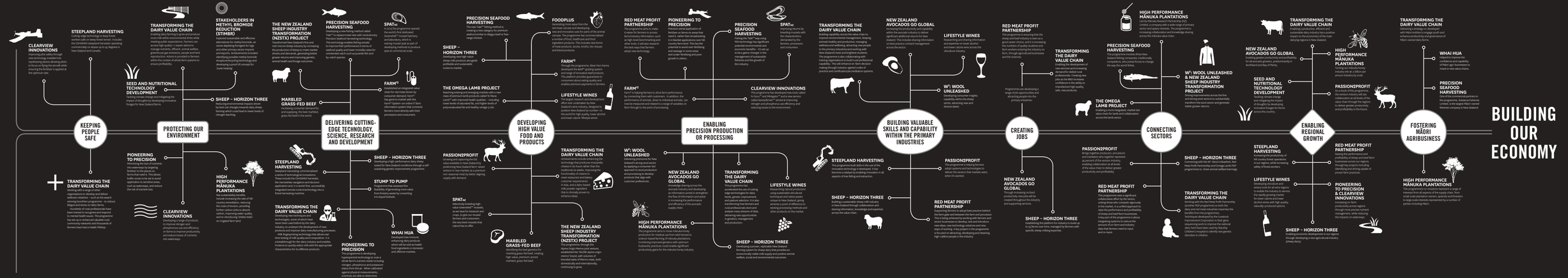
KEEPING PEOPLE SAFE
CLEARVIEW INNOVATIONS
Improving drift safety through new technology installed into topdressing planes allowing pilots to focus on flying the aircraft while ensuring the fertiliser is applied at the optimum rate.
TRANSFORMING THE DAIRY VALUE CHAIN
Improving dairy farming safety to produce more milk within environmental limits while ensuring farm workers are safe and receive high quality c-expert advice to manage nutrients, effluent, animal welfare, greenhouse gas emissions, people and herd reproduction. Advice is provided to farmers within the context of whole farm systems to ensure profitability.
PROTECTING OUR ENVIRONMENT
STEEPLAND HARVESTING
Leading edge technology to keep forestry workers safe on steep forest terrain. Includes the STANHOE developed harvester operating commercially on slopes up to 45 degrees in New Zealand and Canada.
TRANSFORMING THE DAIRY VALUE CHAIN
Leading dairy farmers are using science more into within environmental limits while ensuring farm workers are safe and receive high quality c-expert advice to manage nutrients, effluent, animal welfare, greenhouse gas emissions, people and herd reproduction. Advice is provided to farmers within the context of whole farm systems to ensure profitability.
SEED AND NUTRITIONAL TECHNOLOGY DEVELOPMENT
Tackling climate change and mitigating the impact of drought by developing innovative forages for New Zealand farms.
SHEEP – HORIZON THREE
Reducing environmental impacts driven by land use changes towards dairy sheep farming which could lead to lower levels of nitrogen leaching.
STAKEHOLDERS IN METHYL BROMIDE REDUCTION (STMBR)
Explored sustainable and effective methyl bromide alternatives for the pre-plant dipping transport for fruit and other primary sector imports and exports. Achievements included identifying possible methyl bromide escapes/recycling technology and developing a proof of concept for 'Jade Heating'.
MARBLED GRASS-FED BEEF
Increasing premium demand for and supplying, the best marbled, grass fed beef in the world.
THE NEW ZEALAND SHEEP INDUSTRY TRANSFORMATION (NZSTX) PROJECT
Transformation of the sheep industry through the development of new technologies for the production of sheep to meet market drivers and demands, generating better grower returns and improving genetic, animal health and forage outcomes.
DELIVERING CUTTING-EDGE TECHNOLOGY, SCIENCE, RESEARCH AND DEVELOPMENT
PRECISION SEAFOOD HARVESTING
Developing a new fishing method called Tag8™ to replace towed nets with revolutionary Precision Seafood Harvesting technology. This technology enables fishing vessels to selectively target fish while improving seafood quality and lower mortality rates for unintended catch such as juvenile fish and by-catch species.
SPAT NZ
SPAT NZ's oyster spat programme spawned in Australia and grown in New Zealand (Jewelstar™) would ripe fast enough and laboratory, which is rearing mussel spat as part of developing methods to produce spat at commercial scale.
FARM 0
Established an integrated value chain for red meat driven by consumer demand, with the vision of being the world's first Farm-to-Table™ System- an online IT farm information system that connects farmers more directly with their processors and consumers.
SHEEP – HORIZON THREE
Developed a high performance sire breed suited for New Zealand conditions through a self-sustaining genetic improvement programme.
STUMP TO PUMP
Programme that accelerates the adoption of technology more value from forestry assets by converting it to liquid biofuels.
WHAI HUA
Developed new immune enhancing dairy products which will be sold as health food ingredients in domestic and offshore markets.
STEEPLAND HARVESTING
Innovative harvesting commercialised a series of technological innovations. These include the Controlled Harvester, the Harvesting navigation and decision application and, in a world first, successfully integrated remote control technology into a forest harvesting machine.
TRANSFORMING THE DAIRY VALUE CHAIN
Developing new technologies and technologies, some of which have never been used before by the dairy industry, to underpin the development of new products and improve dairy manufacturing processes. Including a new technology that allows real time testing of milk quality and composition. It is a breakthrough for the dairy industry and enables Fonterra to quickly select milk with the appropriate characteristics for its different products.
PIONEERING TO PRECISION
This programme is developing technologies and tools to assist a farmer to make decisions on stocking, nitrogen, phosphorus and potassium status from the air. When calibrated against physical measurements, scientists are able to determine the right fertiliser requirements for the farm, including measurable full country geometry.
PIONEERING TO PRECISION
Minimising the loss of nutrients and contaminants from farming. Fertiliser is only delivered in forms that need it. This allows buffer zones to be set to avoid application to sensitive areas, such as waterways, and reduce the risk of nutrient loss.
HIGH PERFORMANCE MĀNUKA PLANTATIONS
Helping restoring riparian zones, improving water quality, providing country remediation, reducing the costs of erosion, providing further carbon sinks to absorb carbon, improving water quality and re-introducing 'shelter belts' on ringland farm land.
CLEARVIEW INNOVATIONS
Developing a smart mobile fertiliser spreader which optimises phosphorous use and efficiency on farms to improve productivity and reduce losses of nutrients into waterways.
DEVELOPING HIGH VALUE FOOD AND PRODUCTS
PRECISION SEAFOOD HARVESTING
Has new Tag8™ fishing method is creating a new category for premium seafood similar to Wagyu beef or free-range chicken.
SHEEP – HORIZON THREE
Developing new high value sheep milk products designed profitable and sustainable models to market.
THE OMEGA LAMB PROJECT
Reaching existing and emerging markets with a new class of premium lamb products called 'Te Mana Omega' developed with the Omega Farms Farm-to-Table™ System- an online IT farm information system that connects farmers more directly with their processors and consumers.
PASSION2PROFIT
Growing and supplying the high value available in New Zealand by providing the right product at the right version in new markets as a premium non-seasonal meat by better aligning supply with demand.
SPAT NZ
Supplying breeding high-quality Jewelstar™ mussels as we have for livestock and crops, it gives our mussel farmers and consumers the very best mussels that nature has to offer.
MARBLED GRASS-FED BEEF
Identifying the next generation of marbling grass-fed beef, creating high value, premium priced meat/beef, grass-fed beef.
FOODPLUS
Identifying new value from dairy farming by-products and developing new and innovative uses for parts of the animal carcass. The programme has commercialised a number of food, healthcare and food ingredient products. This includes new forms of meat products, stocks, broths, tallows and blood products.
FARM 0
Through this programme, Silver Fern Farms developed the Beef® grading system, which is a world first in beef grading. The system provides guarantees to consumers about eating quality and enables premium payments to farmers.
LIFESTYLE WINES
An integrated food manufacturing effort ever undertaken by New Zealand's wine industry. Designed to position New Zealand as number 1 in the world for high quality, lower alcohol and lower calorie 'lifestyle wines'.
TRANSFORMING THE DAIRY VALUE CHAIN
Achieving the Global Dairy Platform's (GDP) vision of a sustainable dairy chain in the future rather than the traditional six weeks, improving the functionality of creams to meet relevant and Coeliac customer requirements and a new way of making milk powder signalled that is clinically proven to enhance sleep.
THE NEW ZEALAND SHEEP INDUSTRY TRANSFORMATION (NZSTX) PROJECT
This programme, through the Argon Project, is developing a new sheep breed called the Kelvin™ meriney breed, with volumes of branded sales of Kelvin meat, both domestically and internationally, continuing to grow.
ENABLING PRECISION PRODUCTION OR PROCESSING
RED MEAT PROFIT PARTNERSHIP
The programme aims to make the most of the potential of farm/industry information - such as high level benchmarking and other tools. It will also research the best ways that farmers adopt new technology.
FARM 0
Farm® is helping farmers to drive farm performance by connecting them with customers. In addition, the system measures and rewards farmers, which can be measured and rewarded a range of variables on farm through to the point of processing.
W$ WOOL UNLEASHED
Returning profitability to the New Zealand wool growing sector by applying a new business model approach to wool production and processing to develop products that align with customer preferences.
NEW ZEALAND AVOCADOS GO GLOBAL
Increasing the growing season the industry can cover by developing an information portal to strengthen the flow of information and assist in increasing the performance and efficiency of the avocado supply chain.
HIGH PERFORMANCE MĀNUKA PLANTATIONS
Helping farms grow to meet the market production for Manuka can from such harvest to the end of the 2020s. Use of genetics (combining improved genetics with optimum husbandry practices could enable significant productivity gains for the mānuka honey industry.
PIONEERING TO PRECISION
Precision aerial application of fertiliser. Precision aerial application of fertiliser. Precision aerial application of fertiliser.