

Agenda

- Overview of the New Zealand Food Innovation Network
- Outline the services and capabilities of the FoodSouth hub
- Explain how it's relevant to value-added food producers
- Question and Answer





The reason for the Food Innovation Network

Reason



Help to grow F&B industry and exports. Provide a range of facilities and resources to assist companies in New Product Development

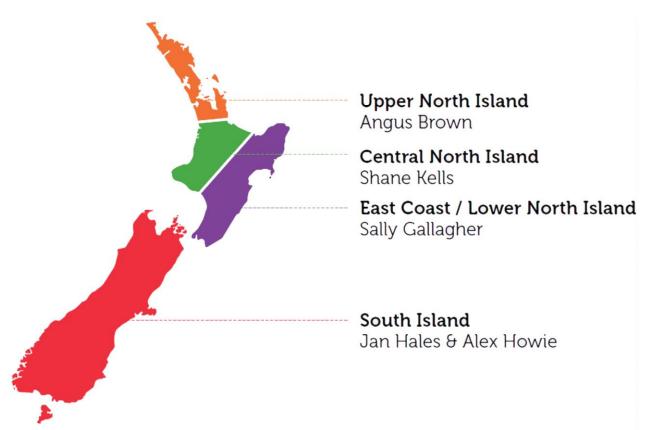


Role of Food Innovation Network

- To stimulate the export of processed foods
- To enhance the efficiency of New Product
 Development
- To build food & beverage industry capability
 by
- Open access development support
- Facilitation connections to service providers
- Advocacy, e.g. drying capability



Internal Network







External Network

Regional Economic Development Agencies

CallaghanInnovation

NewZealand Food Innovation Network





Food Innovation Hubs





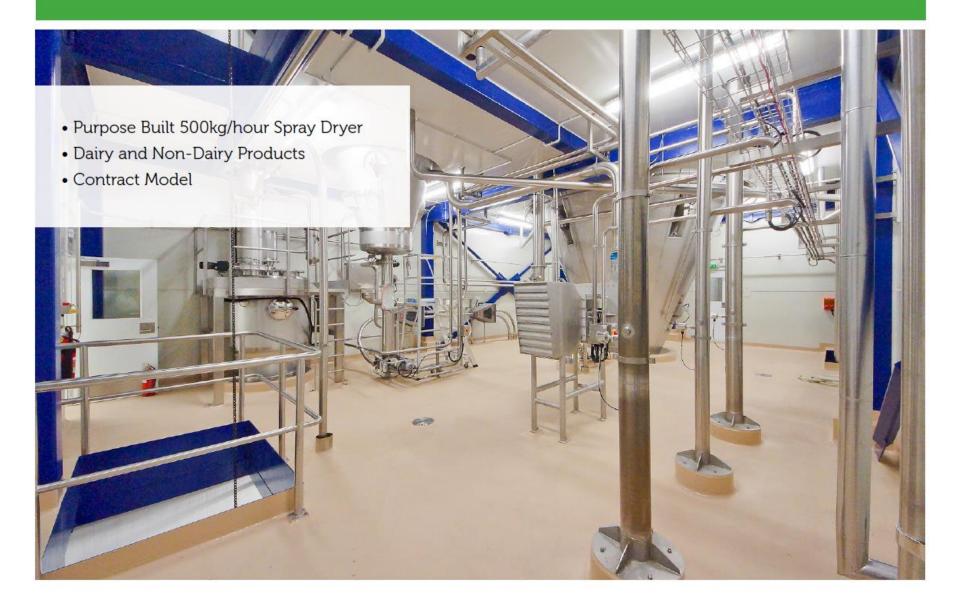


THE FOODBOWL



• Export compliance

FOODWAIKATO



FOOD PILOT

- Pilot Plant at Massey University
- Research and Development Focus
- Linked to Massey, Riddet Institute, Ag Research, Plant & Food and FoodHQ

FOODSOUTH

- Pilot Plant at Lincoln University
- Technical and market advice
- Product development focus
- Small scale production (20 to 2001)
- Export compliance



FOODSOUTH

FoodSouth Services

- Support for New Product Development Projects
- Business Advice
- Professional Services
- Capability Building
- Infrastructure
 - Three open access development spaces
 - Equipment and support
 - Food safety accreditations









Business model

- Introductory advice and project shaping free
 - Includes introductions to relevant providers
- FoodSouth Projects are for <u>fee</u>
 - Room hire: \$1,000 to 2,500 per day depending on project nature
 - Professional Services: \$1,200/day
 - Education/Workshops: specific rate/course





FoodSouth Equipment

Units of operation	Key equipment
Product Development Kitchen	On wheels
Kitchen fit out	Grill, Oven
Extrusion	Extruder, Enrober (Rheon)
Baking	Oven for Baking and Steaming, Dough Developer, Formatic
Heat Transfer	Heat exchangers, Blast Freezer/Chiller
Mixing	Beaters, Mixers, Emulsifier and Dry blender
Packaging	Liquid fillers, Powder filler, Vacuum sealing, Flow Wrapper
Size Reduction	Chopper, Grinder, Mill, Homogeniser, Band Saw, Slicer
Separation	Plate and GAF Filters
Preservation	Heat Pump Drying
Vessels	Range of pans and tanks 50 – 200 litre
Pumps	Lobe, Centrifugal, Air and Flexible impeller
Instrumentation	Logger, Temp Control, Balances, pH, Texture
Facilities	Steam, Hot Water, Chiller, Freezer, Air
Other	Shelving, Tables, Buckets, Utensils etc.



Common food processing steps

Jams Cleaning Cutting Mashing Gelating Cooling Filling Mixing Packaging **Biscuits/bars** Mixing Baking Cooling Cutting Dicing Slicing Moulding Injection Blending Rolling Pressing Extruding Layering Packaging

Meat processing Cutting Deboning Skinning Smoking Sausaging Filling Sterilization Brining Tumbling Forming Cooking Mincing Drying Mixing Packaging

Sauces Cleaning Soaking Crushing Sieving Mixing Heating Ripening Fermenting Cooling Packaging

Soft drinks/syrups Mayonnaise Water treatment Blending Carbonation Filtering Sterilisation Degassing Bottling

Mixing Heating Cooling Emulsification Steam injection Packaging



Potential additions

Units of operation	Key equipment
Preservation	UHT direct/indirect for liquids, ESL
Drying	Roller Drying, Refractance Window, CO2 Freeze Drying, Microwave Vacuum Drying, Freeze Drying
Preservation	Pressure Assisted Temperature Sterilising, Ohmic Heating, Pulsed Electric Field, Irradiation
Separation	Ion Exchange, Clarifier, Decanter
Fermentation	Fermenter
Packaging	Form-Fill-Seal, Modified Atmosphere Packaging
Ice cream	Soft Serve Machine
Confectionery	Coatings, Conditioner, Chocolate Processing
Meat/Seafood	Sausage Filling, Smoking
Others ?	





How might this help you?



Value added products from concept to market

 Concept
 • New Product idea

 Feasibility
 • Concept is assessed for feasibility and market opportunity

 Planning
 • Development project and resources defined

 Development
 • New product development

 Market test
 • Commercial samples are introduced to market

 Commercial
 • Product moves to commercial production







Summary

- Help with value added products
- Market and technical
- Physical product development infrastructure
- Highest level of food safety accreditation
- Concept to export







FoodSouth – 3 News Video

http://www.3news.co.nz/nznews/cookie-flavours-tested-in-new-food-hub-2015112917#axzz3srBVJdvo



