Innovation to keep up with a changing and challenging world.
Global Food and Agriculture Megatrends

A LESS PREDICTABLE PLANET
Supply of limited resources is being further constrained by more severe and unpredictable climate events and more potent microbes, pests and diseases – causing food producers to more seriously consider the environmental life cycle impact of food production activities.

HEALTH ON THE MIND
An ageing population, rising levels of chronic disease and increasing social awareness around health and wellbeing are creating demand for foods that provide specific and holistic health outcomes.

CHOOSY CUSTOMERS
Rising wealth, increasing choice and greater market access are driving demand for a more diverse range of foods and food service options that are tailored to individual preferences and lifestyles.

ONE WORLD
As food and beverage value chains become increasingly global, new market opportunities are created while at the same time introducing competition and supply resilience risks in a volatile world.

SMARTER FOOD CHAINS
Increasing demand for food, the use of big data and more sophisticated e-commerce platforms are driving the creation of leaner, faster, more agile and low waste value chains.
A LESS PREDICTABLE PLANET

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Role of Food Structure in health

Food for Dysphagia/Elderly

Improving the visual appeal, texture, flavour and nutrition of texture modified foods
Provenance testing through Isotope and element profiling
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Greenhouse gas emissions from the cultivation of canola oilseed in Australia

Prepared by the Commonwealth Scientific and Industrial Research Organisation, Australia
November 2017

CSIRO and Jack Cowin venture into plant-based meat with v2 Food

Australia’s latest plant-based meat startup, v2 Food, is poised to take on the retail and food service scenes, with the backing of Government and food industry leaders.

National science agency CSIRO’s biosequence ventures and Jack Cowin’s Comporative Foods have come together to take a slice of the $6 billion dollar alternative meat pie with former Woolies Foods and Pepsico research director Nick Hazell leading the business.

Cowin’s Comporative Foods Australia, the company behind Hungry Jack’s, also contributed.

Phil Morfe, Nick Hazell, Martin Cole, Mary Ann Augustin and Jack Cowin.
SMARETER FOOD CHAINS
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Crop ID
Next gen satellites and ML to map paddock boundaries, crop species and extent

Virtual Fencing
Autonomous (wireless) control of animal location using GPS and combination of cues and controls
What does it add up to?

NFF targets $100b farm gate output by 2030 despite headwinds

We will need more innovation to close the gap from business as usual.
Thank you

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