



**Food Vision 2030:
Sustainable AgriFood
Innovations**

The BIG shifts requires a systemic approach with multiple pathways



Planetary
Impact



Health Impact



Food & Technology
Impact

The Trends shaping the future of AgriFood



Sustainable Agriculture



Alternative Proteins



Technology & Microbiome Innovation



Climate resistant crops



Circular Food Systems



Cultural shifts in Food



**What do
Consumers need
and want?**



Fork > Farm

Definition of
INNOVATION...

**Purposeful
Creativity &
Change that
creates value**



Opportunities for growth in AgriFood



Food Security



Agrobiodiversity



Sustainability

The Equation does not add up...



Food (In)Security

- ✓ 1/3 of all food is wasted (feed another 1.3B/year)
- ✓ Costs us \$36.6B
- ✓ Feeds 10% of GHG emissions
- ✓ 12M Children go hungry



Nebulisation: Misting system spreads a cold fog over fresh produces effective in terms of humidity control, weight loss reduction, breakage reduction.



Upcycling landfill waste

Naylor Farms (UK)

Leftover cabbage crop, trims, leaves into super sustainable protein ingredient.

Patented cold extraction process

70% of consumers want foods using sustainable practices.

1 in 5 consumers know Regenerative Agriculture

The New Organic?





More Veggies in your diet

Wholly Veggie (Canada)

Sources misfit, unsellable
produce, creating new
plant based products

Harness our nature positive foods...



Agrobiodiversity

- ✓ Shrinking biodiversity from 390K plant species
- ✓ 12 Crops with 5 animal species that provide 75% of the world's food
- ✓ Solving health with diverse plants – “let food be thy medicine”
- ✓ Scaling Australia's indigenous foods

**The More
The Merrier.**



*Down To Earth.
Heirloom Potatoes.*

Resilient potato varieties,
reduces their carbon
footprint and biodiversity
impact

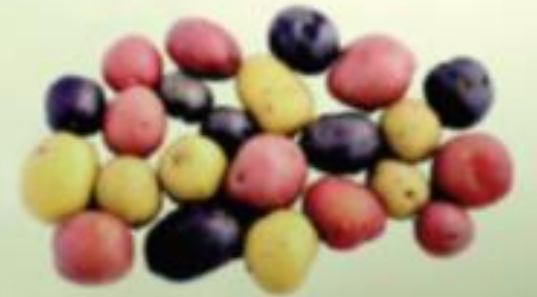
**Taste
Biodiversity.**



*Down To Earth.
Heirloom Potatoes.*

Chater

**Diversify
Your Potato.**



*Down To Earth.
Heirloom Potatoes.*

- ✓ Gene editing (post CRISPR) being hailed as the next big revolution for agriculture and food
- ✓ Synthetic biology/advanced bioengineering
 - ✓ #9 globally for research impact
 - ✓ Co-design between farmers, researcher and food manufacturers





Increase & Scale

- Leverage more indigenous foods
- Scale is required to establish across the value chain
- Purposefully learning from First Nations and AgriFood sectors

A broad, complex and ambiguous opportunity



Sustainability

- ✓ Opportunity and challenge for food brands
- ✓ 90% of food companies footprint is down stream supply chains.
- ✓ Net Zero emissions (Scope 3) – hardest to measure
- ✓ Sustainable procurement; Eco design of products and marketing

Strong Roots - Irish plant-forward frozen foods brand

Climate footprint labels across all products.

Swedish CarbonCloud (carbon dioxide, nitrogen oxide, methane tied to lifecycle of each product.





Precision Ag & tech

Swarm Farm Robotic Agriculture – Australia

Farming in the future with autonomous robots

Reduced pesticide inputs by 780T



Eco designing products

Chief – Australia

Measuring materiality across the supply chain, set sourcing standards for claims

Partnered with Calxy on key social and environmental metrics. Reduced water and biodiversity impact.

Call to action

- **Fork > Farm:** Purposefully innovate with Consumers and Customers (end users).
- **AgriFood =** Agriculture and Food
- **Co-design & Scale:** Multiple pathways to the solutions needed through the value chain.



THANK YOU



"IF WE WANT TO "LEAD IN" WE MUST DISRUPT OURSELVES, OUR LIVES, OUR THINKING."



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