BIOENTERPRISE®
Building Ag-Bio Based Businesses

COMMERCIALIZING AGRI-TECHNOLOGY:

Bringing Innovation to Market

Rattan Gill

Outline

- Why do we need innovative agricultural clean technologies?
- What does the commercialization pipeline look like?
- How does Bioenterprise help bring innovation to the market?

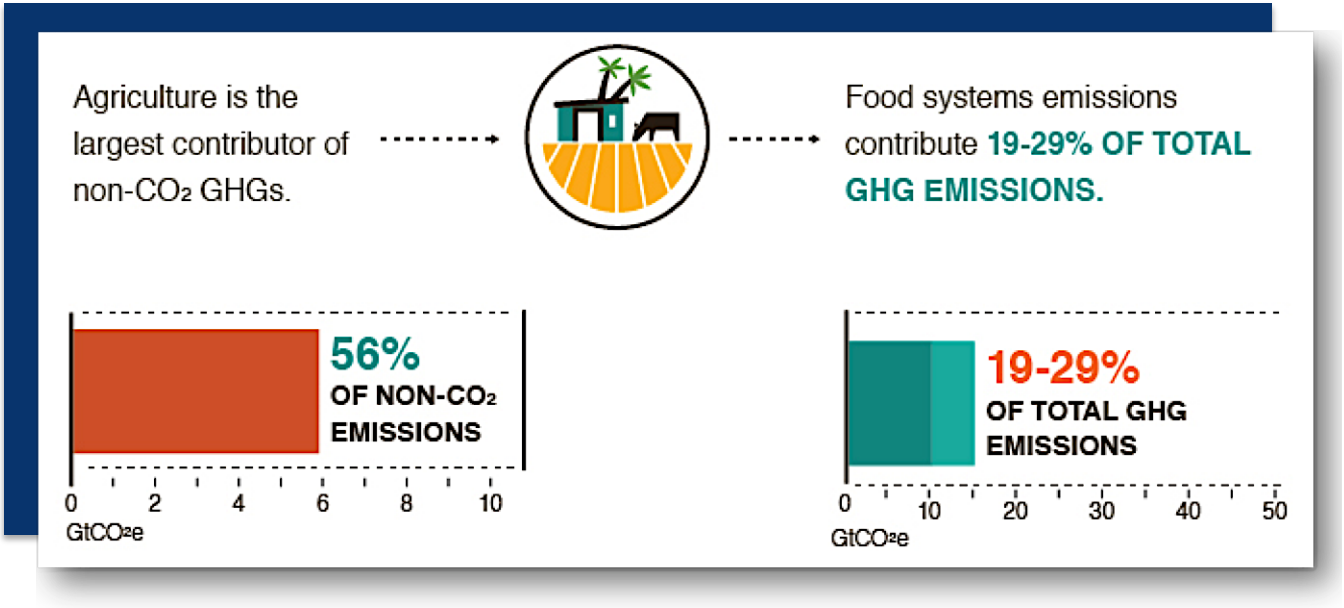
Outline

- Why do we need innovative agricultural clean technologies?
- What does the commercialization pipeline look like?
- How does Bioenterprise help bring innovation to the market?

Global Impact of Agriculture

Source: © FAO, 2013

Environmental Impact: Direct Agricultural Emissions



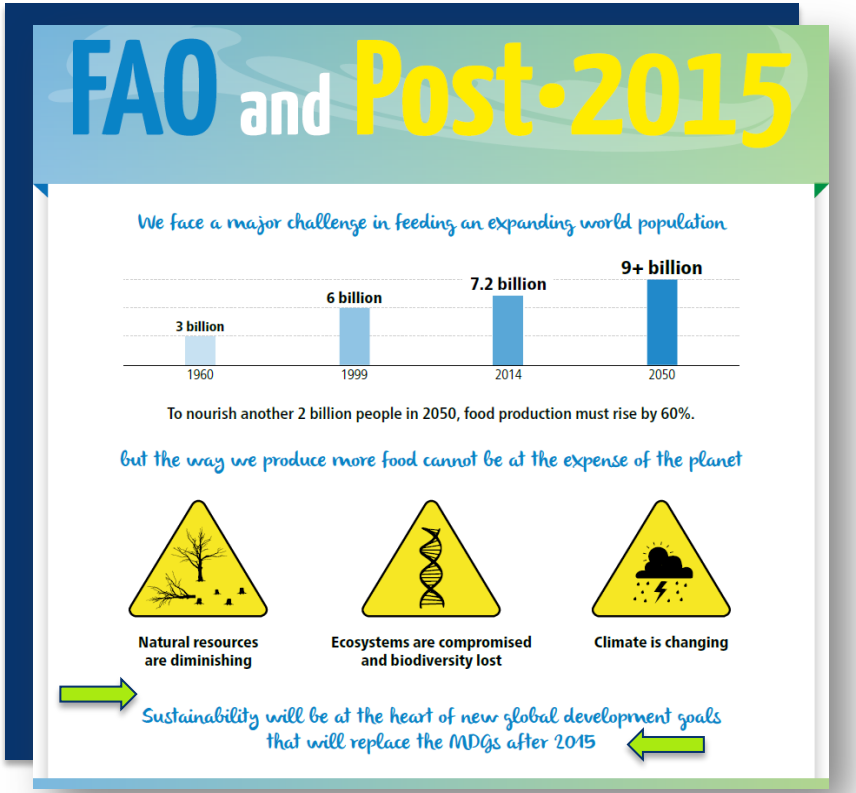
Sources: ccafs.cgiar.org,
US-EPA, 2011 and
Vermeulen et al., 2012

Agriculture Sector's Unique Challenge

"To produce more food while reducing greenhouse gas emissions caused by food production"

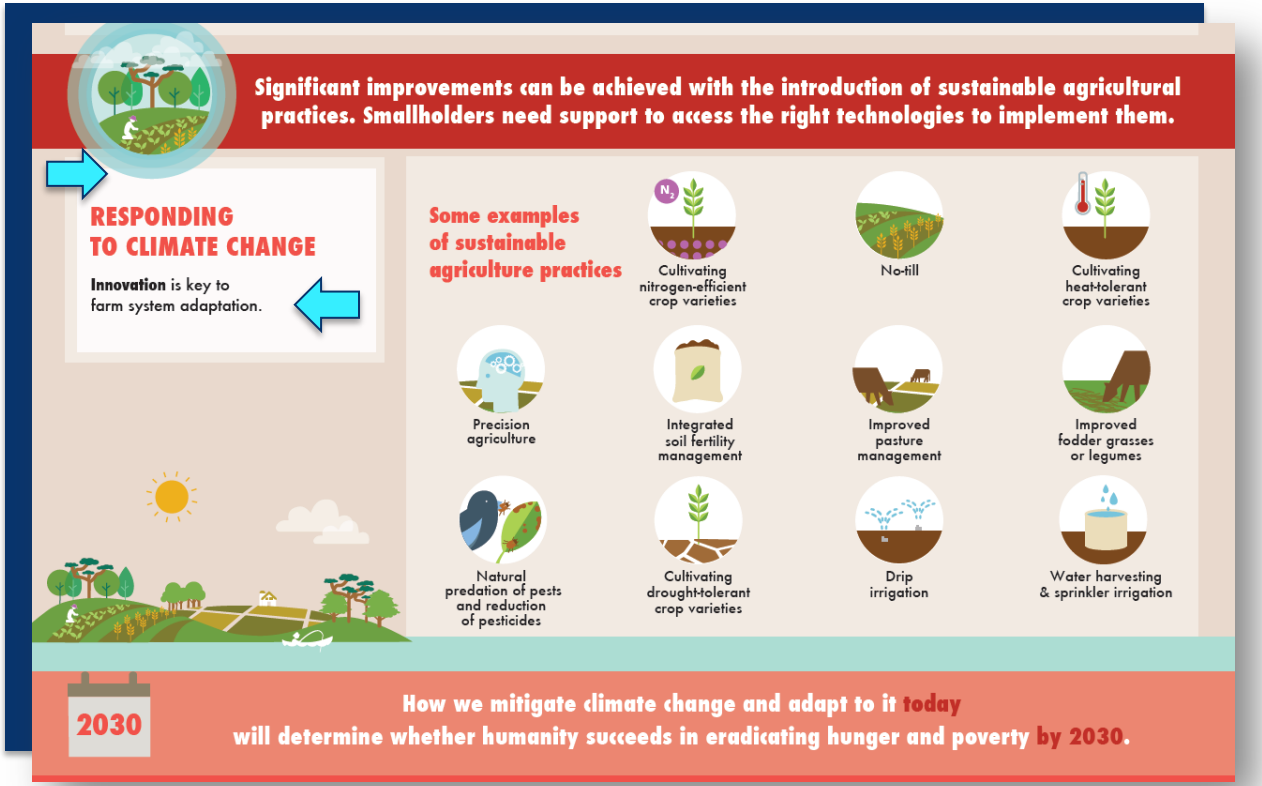
Source: FAO, 2016

Agriculture Sector's Unique Challenge



Source: © FAO, September 2015

Responding to the Challenge

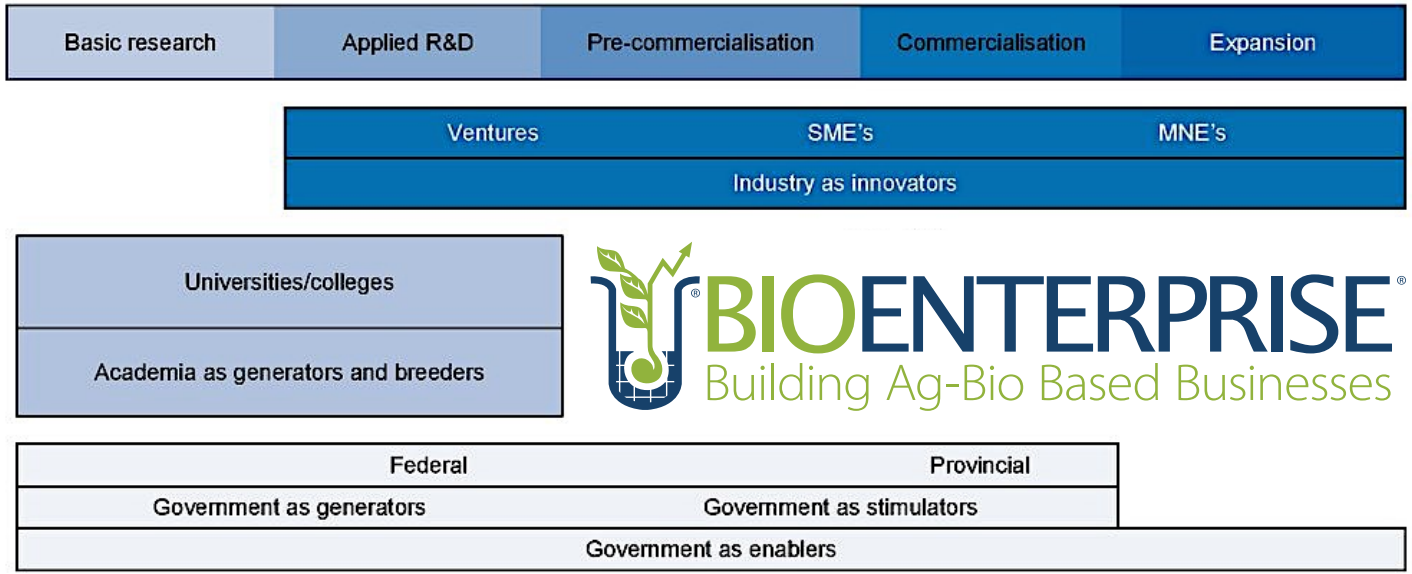


Source: © FAO, 2016

Outline

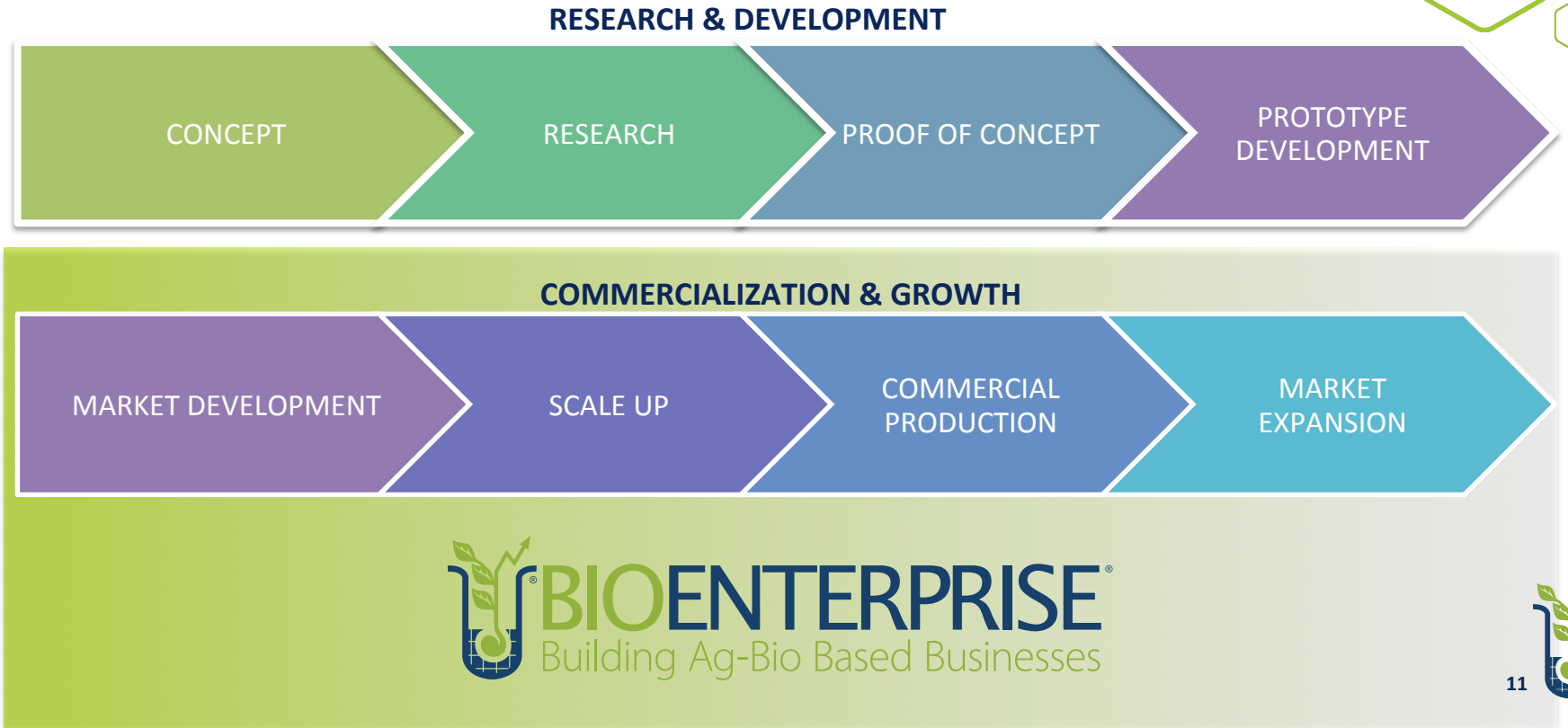
- Why do we need innovative agricultural clean technologies?
- What does the commercialization pipeline look like?
- How does Bioenterprise help bring innovation to the market?

Agri-Innovation Continuum in Canada



Sources: OECD Food and Agricultural Reviews: Innovation, Agricultural Productivity and Sustainability in Canada, 2015, Agriculture and Agri-Food Canada

Agri-Tech Commercialization Pipeline



Bioenterprise: Who we are?

- Canada's agri-technology focused business accelerator
- Advancing innovative agri-technology ventures to market since 2003
- Provide business commercialization services
- Connecting investors to high-potential opportunities

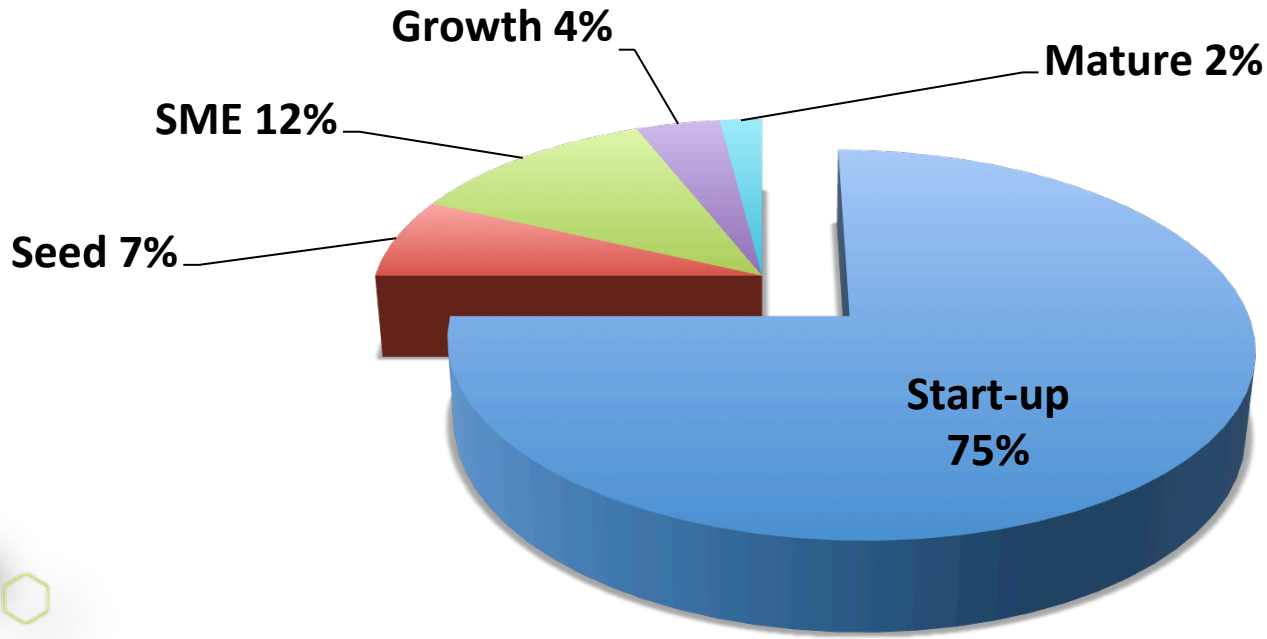
Bioenterprise: Who we are?

BC INNOVATION COUNCIL

Prince Edward Island ADAPT Council

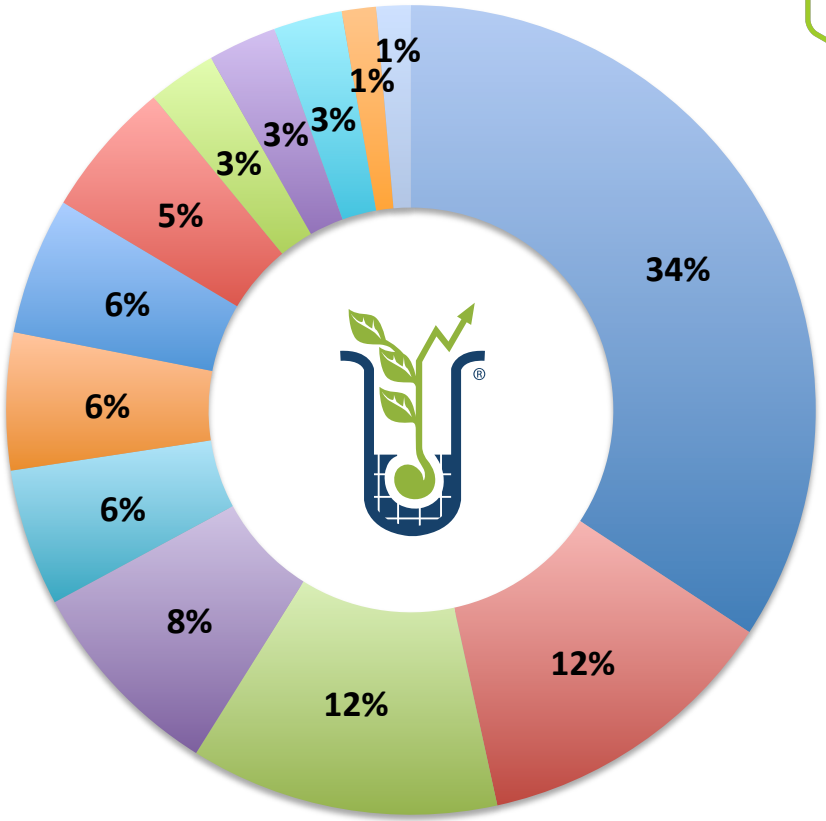
innovacorp
EARLY STAGE VENTURE CAPITAL

Bioenterprise: Who do we work with?



Agri-Technology: Sector Scope

- Food & Beverage
- Food Processing
- Crop Science
- Bio-products
- Animal Health
- Agri-based Life Sciences
- Ag Management Tools
- Agriculture Waste Management
- Equipment Development
- Bio-energy
- Aquaculture
- Precision Ag
- Water Management



Agri-Technology: Clean Tech Umbrella

Clean Technologies: reduce environmental pollution, resource use and/or waste

- Precision Agriculture: sensor based water management, input management, automated agricultural systems
- Biosecurity applications
- Alternative protein production
- Improved efficacy of agricultural inputs, Biopesticides
- Resource sharing
- Bio-based energy & Cogeneration solution
- Biodegradable packaging

Outline

- Why do we need innovative agricultural clean technologies?
- What does the commercialization pipeline look like?
- How does Bioenterprise help bring innovation to the market?

BUSINESS SERVICES

Opportunity Analysis

Mentoring & Coaching

Access to Networks

Regulatory Assistance

Business & Market Strategy

Financial Strategy & Investment Prep

Image source: www.vecteezy.com

Bioenterprise Resources & Programs

Global Network

Science & Business Expertise

Innovation Portfolio

Funding

Image source: www.vecteezy.com

Funding: Southern Ontario

Bioenterprise Seed Fund

- Non-repayable seed financing, coaching and mentorship to assist ag-based companies headquartered in Southern Ontario
- Up to $30,000 in matching funds to the recipients
- Supported through FedDev Ontario

BE SEEN • BE SAFE

vive

Wastenot Worm Farms

METAGENOM Bio Inc.
Genomics Solutions for Industrial Applications

AGRI-NEO

Funding Opportunities : Nova Scotia

Maritimes BIOENTERPRISE® Building Ag-Bio Based Businesses

innovacorp EARLY STAGE VENTURE CAPITAL

Clean Tech Accelerate Program

- a specialized venture capital fund to support high-potential start-ups and early-stage companies in the clean technology sector
- Examples

AGSEED TECHNOLOGIES

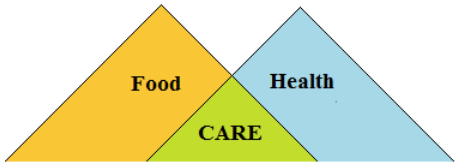
MIDGARD FARMS

Funding Opportunities: Multiple provinces

Bioenterprise Commercialization Support Program

- Funding for companies, headquartered in BC, NS, and PE
- Eligible to receive additional support for specific projects
- Supported through NRC - CAIP

SomaDetect



AGSEED TECHNOLOGIES

COMMISSARY CONNECT
connecting local food producers.

Rattan Gill

rattan.gill@bioenterprise.ca