

## **Science and Innovation Program**

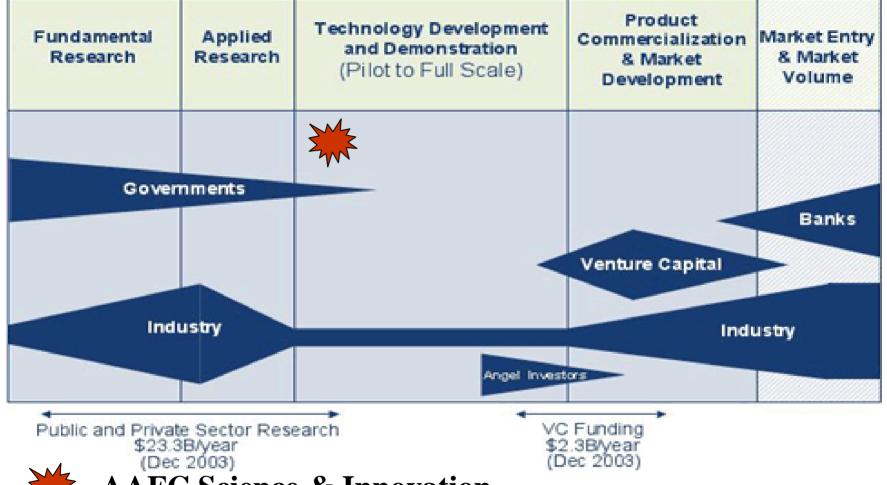
### **Agricultural Policy Framework Innovation and Renewal Team**

Nov. 8, 2005









**AAFC Science & Innovation** 

Agriculture et

Ref: http://www.sdtc.ca/en/about/innovation\_chain.htm







#### What is Science and Innovation?

- Science
  - Investing Money to Create Knowledge
- Innovation
  - Investing Knowledge to Create Money







# Why was S&I included in the APF?

- To create new opportunities for the sector that will attract investment, increase profitability of farming, and enhance the viability of rural communities.
- To identify new mechanisms that will combine new science, investment and commodities to address new mechanisms
- To identify new departmental initiatives that will support Innovation growth within the sector.
- More than \$2 billion in fixed assets and \$600 million in annual investment by federal and provincial labs, industry and universities.
- Pressing need to focus and leverage these resources on National Agri-Innovation opportunities







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#### How will APF S&I make a difference?

- Realignment of public sector resources toward the APF priority areas (environment, food safety and quality, renewal, science & innovation, BRM)
- Coordination throughout the value chain by building stronger links through improved collaboration and partnerships
- Creating a climate for the development of innovation in the APF priority areas and in bioproducts



# What can we expect as Outcomes?

- Increased levels of Investment (internal and external) in Science and Innovation in Priority areas, especially new bio-products.
- Increased market share for new food and nonfood products produced in Canada
- Improved producer and rural community value share in incomes
- Stronger departmental focus on Innovation







# What are we doing?

- Strategic Planning Tasks \$8M
  - Inventory of Agricultural Research Capacity RFP let
  - Intellectual Property Management Strategy
    - Science Bureau, IP & Commercialization Office
  - Science Expertise Database
  - BioProducts and BioProcesses Strategy Studies
    - AAFC Phase1-3 BP studies; BIOCAP-CARC BP Study;
       NRC BP Study all completed in 1st year of APF
    - AAFC BioProducts Working Group formed and operating
- Programs \$30.7
  - Broker Program \$6M
  - Agri-Innovation Program \$20M
  - Ontario Implementation Agreement Initiatives \$4.7M







# Accelerate Innovation Brokering Program - \$ 8 million

Linking science into existing and new value chains

- Creation and / or funding support of a number of Broker Organizations (e.g. like Soy 2020, National Flax Inititative, BioProducts Canada)
  - Strengthen adoption of new innovations by brokering between university, government and industry
  - Move producers/rural communities up the value chain to increase share of agri-sector income
  - Differentiate commodities into a wide range of new products and markets
  - Create new value chains







# Accelerate Innovation

# Agri-Innovation Program - \$24 million

Funding the gaps to move spur innovation & commercialization...

- <u>Start-up help</u> centers of innovation, incubators, business mentoring, pilot processing
- Ag <u>BioProducts Integration</u> facilitate across:
  - Scientific disciplines, Project initiatives, Facilities and systems, Research, Integrated research planning
- Realignment incentives
  - Bridge funding for key science positions, facility planning, transition initiatives







# Progress to Date

- Full Proposals
  - 13 Approved \$11M
  - 12 in consideration \$13M
- Letters of Intent
  - 5 in consideration \$14M
- Rejected
  - 17 rejected \$28M
- Total Requests \$66M but only \$30.7M available

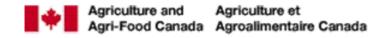






# Key Initiatives

- Soy 2020 BioProducts Canada
- Flax 2015 BioPharmaceutical Centre (OLSC)
- Pulse Innovation Food @ Guelph
  - Plant Biotechnologies Assn (BC)
- Novalait Milk BioRefinery
- Maple Nutraceuticals
- Pilot Plant Network
- In Development or Discussion
  - Bio-Oils, Bio-Active Compounds, BioActive Meats,
     Industrial Triticale, Northern Berries, Maple, Fenugreek,
     Nutraceuticals, Potato 2020, Parkland BioFibre, BioCar







# Challenges and Opportunities

- Linking of Key Initiatives with AAFC Science, AAFC Marketing & Policy, VCRT's, Provinces and OGDs
  - Policy
  - Regulation
  - Financial Environment
- Strategic Planning Tasks
  - Departmental Innovation Strategy







# Challenges and Opportunities

- Long term perspective
  - 10-15 year horizon on results
  - Need for APF S&I II to continue growth of key initiatives
  - Market Chain Development to address
    - Health & Wellness
    - Bio- Fibres
    - Alternative Energy



