



*Agriculture and Agri-Food  
Canada*

*Growing Forward:  
Science and Innovation  
Initiatives*

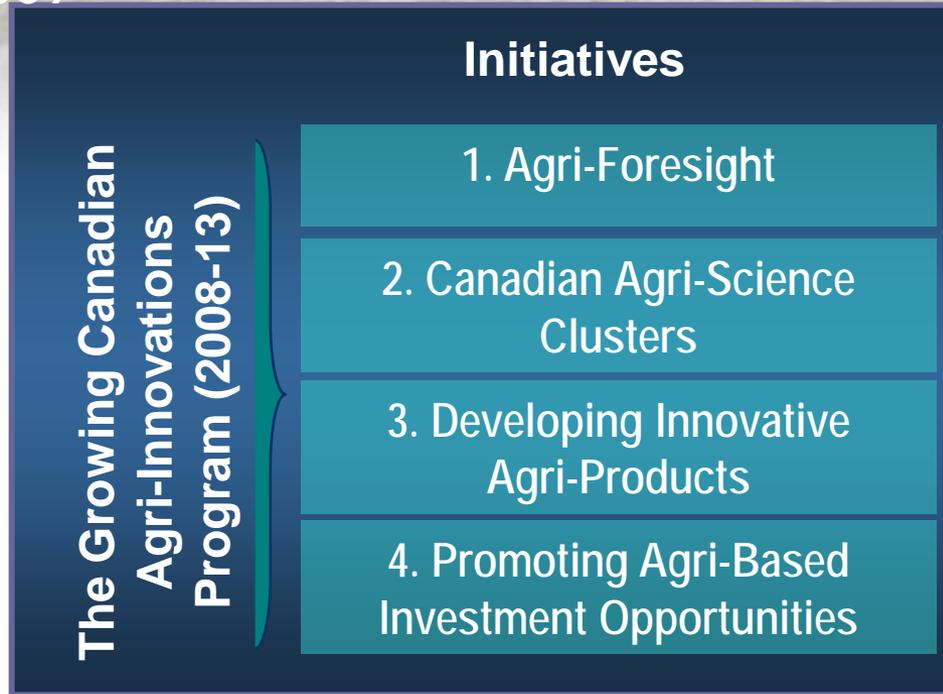
*2008-2013*

# 2008-13 Growing Forward Science & Innovation Initiatives

- Growing Forward (GF) is providing \$245.6M in federal-only and \$89.9M in federal cost-shared funding towards Science and Innovation (S&I) initiatives

<b>Growing Canadian Agri-Innovations Program</b>	<b>\$158.7M</b>
Sustainable Agriculture Environment Systems (SAGES)	\$32.0M
Animal and Plant Health Research	\$45.9M
Agriculture Regulatory Action Plan	\$8.9M
Federal cost-shared Innovation funding	\$89.9M*
<b>Total GF funding*</b>	<b>\$335.5M</b>

Several Growing Forward federal only innovation initiatives are being delivered through one program – the \$158.7M Growing Canadian Agri-Innovations Program that was launched on May 29, 2009



**These four initiatives are aimed at accelerating the pace of innovation and facilitating the adoption of new technologies**

*leading to the development of a competitive and innovative agriculture, agri-food and agri-based products sector*

# The Growing Canadian Agri-Innovations Program provides \$158.7M\* over five years for four initiatives

Developing Strategic Plans that Incorporate Foresight	Accelerating the flow of S&T from discovery through pre-commercialization	Enhancing Agri-Commercialization
<p><b>1. Agri-Foresight</b> \$6.52M</p> <p><b>Who Can Participate?</b> All Agricultural Stakeholders</p>	<p><b>2. Canadian Agri-Science Clusters</b> \$76.46M</p> <p><b>Who Can Apply:</b> All Agricultural Organizations</p> <p><b>3. Developing Innovative Agri-Products (DIAP)</b> \$70.44M</p> <p><b>Who Can Apply:</b> Farmers, Agricultural Organizations, Entrepreneurs, Processors, Agri-business and Agri-Value-Chains</p>	<p><b>4. Promoting Agri-Based Investment Opportunities</b> \$3.51M</p> <p><b>Who Can Participate?</b> Agri-business/Entrepreneurs/Processors/ Investors/ Financial Community</p>

\*Including \$1.82 million enabling cost for cost-shared initiatives  
Initiative funding shown above is notional

# The proposed Foresight Process model includes 5 stages:

## Stage 1 – Scenario Development

Develop future scenarios of national interest and import (such as bioeconomy and animal health) that ground the subsequent analysis

## Stage 2 – Policy/Market Implications

Assess the policy /market implications for each of the future scenarios and identify significant issues and appropriate action options

## Stage 3 – Science and Innovation Implications

Assess the science and innovation implications for each of the scenarios and identify significant issues and appropriate action options

## Stage 4 – Systems Mapping

Assess the current cognitive understanding of the agricultural system as it pertains to the priority question; identify leverage points and reflect on how the system may change in the other scenarios

## Stage 5 – Synthesis and Action Plan

Synthesize the results from stages 2 and 3, discuss action options and develop a shared understanding of the critical actions that would be appropriate and who is best positioned to address them

***AAFC will make available reports on the results of the workshops and a final report on the results of each topic***

# Canadian Agri-Science Clusters:

Mobilizing national science capacity to address industry objectives

- The purpose of the Agri-Science Clusters Initiative is to encourage key agricultural organizations to mobilize and coordinate a critical mass of scientific and technical capacity in industry, government and academia required to create, design and implement a national program of applied science, technology transfer and commercialization plans in support of their sector strategies and priorities for enhanced profitability and competitiveness
- Notionally the Initiative provides \$76.46M over five years (2008-13) to accelerate the flow of science and technology from discovery through pre-commercialization activities of the innovation continuum

A Cluster must demonstrate that it:

- is national in nature
- is industry-led
- has an applied science plan
- has a critical mass of scientific expertise
- has a technology transfer and commercialization strategy
- has outcomes aimed at enhancing agri-industry sector competitiveness and profitability

*The initiative targets sector organizations with the capacity to engage the best Canadian science teams that will address industry's priority opportunities for enhancing their competitiveness and profitability*

# Canadian Agri-Science Clusters will accelerate innovation in the sector by helping to ensure that applied science and technology activity is more focused on improving sector profitability and competitiveness

- **Eligible Recipients** – not-for-profit corporations
- **Funding Limits** (Funding is subject to stacking limits)
  - Cluster Planning - Funding up to 50% of eligible expenditures, to a maximum contribution of \$125,000 will be provided through a contribution agreement for planning for a Canadian Agri-Science Cluster. Recipients will be required to provide a 50% cash contribution toward eligible activities
  - Cluster Implementation - Funding targeted at 75% of eligible expenditures, to a maximum of \$16M (including any cluster planning funding up to \$125,000 and AAFC operating resources committed under a CRADA\*) will be provided to implement a Canadian Agri-Science Cluster. Recipients will be required to provide a targeted minimum 25% cash contribution toward eligible activities
- **Clusters** – Expected that 6 -10 Canadian Agri-Science Clusters will be approved

\*CRADA - Collaborative Research and Development Agreements are used when AAFC Research Branch commits to undertake research for a client

## DIAP will support industry-led projects that bridge the gap between ideas and discoveries and products in the marketplace

- DIAP will encourage the agricultural, agri-food and agri-based products sector to develop new or expand existing innovation opportunities, such as value chains and to provide access to Canadian scientific and technical support to resolve pre-commercialization issues relating to agri-products, practices and processes development
- Notionally the Initiative provides \$70.44M over five years (2008-13) to accelerate the flow of science and technology from discovery through pre-commercialization activities of the innovation continuum

*DIAP will help agricultural organizations to develop new value chains and entrepreneurs to work with government and academic labs to access the scientific expertise and resources necessary for the successful transformation of their innovative ideas and prototypes into viable business ventures*

# Providing industry greater access to the government, university and other scientific resources required to support agri-product development and marketability

## Stream A DIAP: Innovation Strategy Development

- Funding up to 75% of eligible expenditures, to a maximum of \$2M, will be provided to support collaboration and planning by stakeholders to create and expand agricultural, agri-food and agri-based product innovative opportunities, such as value chains.
- Eligible recipients are Canadian not-for-profit agricultural, agri-food and agri-based organizations involved in developing national innovative opportunities

## Stream B DIAP: Implementation of Applied Science, Technology Development and Piloting

- Funding up to 75% of eligible expenditures, to a maximum of \$4M per eligible project (including funding under Stream A and any AAFC operating resources used under a CRADA), will be provided for this stream to transform innovative ideas into new agri-products, practices and processes by helping the private sector access applied science research and development resources
- Canadian for profit and not-for-profit organizations involved in the agriculture, agri-food and agri-based products sector are eligible to apply
- For both the streams, recipients will be required to provide a targeted minimum 25% cash contribution toward eligible activities

# Promoting Agri-Based Investment Opportunities: Enhancing Agri-Commercialization

- The objectives of the Initiative are to:
  - Increase investment in high growth innovative SMEs that commercialize research in the agriculture and agri-food industry
  - Share understanding of risks and opportunities in agri-based business ventures among both entrepreneurs and potential investors
  - Increase development and commercialization of new practices, products and processes in high growth agri-based sectors
- Notionally the Initiative provides \$3.51M over five years (2008-13) to AAFC Research Branch to organize and facilitate innovation symposia

*The Initiative will encourage greater interaction between investors, entrepreneurs and SMEs within the Canadian agricultural sector by supporting the delivery of a series of national innovation symposia that would bring them together to promote and explore potential opportunities in agri-based business ventures*

# Increased private sector investment in agri-based business is needed to increase market competitiveness

## Key Features

- Events to be held in major Canadian centres, featuring presentations from innovative agri-based entrepreneurs to a targeted audience of investors
- Numerous networking opportunities throughout the day and one major networking event
- Panel discussions focused on opportunities and challenges in agri-based business ventures
- 15 to 20 agri-based companies ranging from seed/start-up to later stages of development
- 30 to 40 investors looking for early, expansion and late stage agri-based companies in Life Sciences and Energy & Environmental Technologies (Cleantech) sectors
- One-on-one meeting opportunities between entrepreneurs and potential investors

## Targeted Agri-Sectors

- Industrial Bioproducts
  - Fuels and energy
  - Natural fibre composite materials
  - Lubricants, polymers, solvents, emulsifiers and other industrial products
- Bioprocesses
- Nutraceuticals and Functional Foods
- Food technologies
- Other agri-technologies

# Contacts

For more information please contact:

Growing Canadian Agri-Innovations Program

Visit: <http://agr.gc.ca/agri-innovations>

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# *A*gri-Opportunities Program

*– Accelerating Agri-based  
Commercialization*

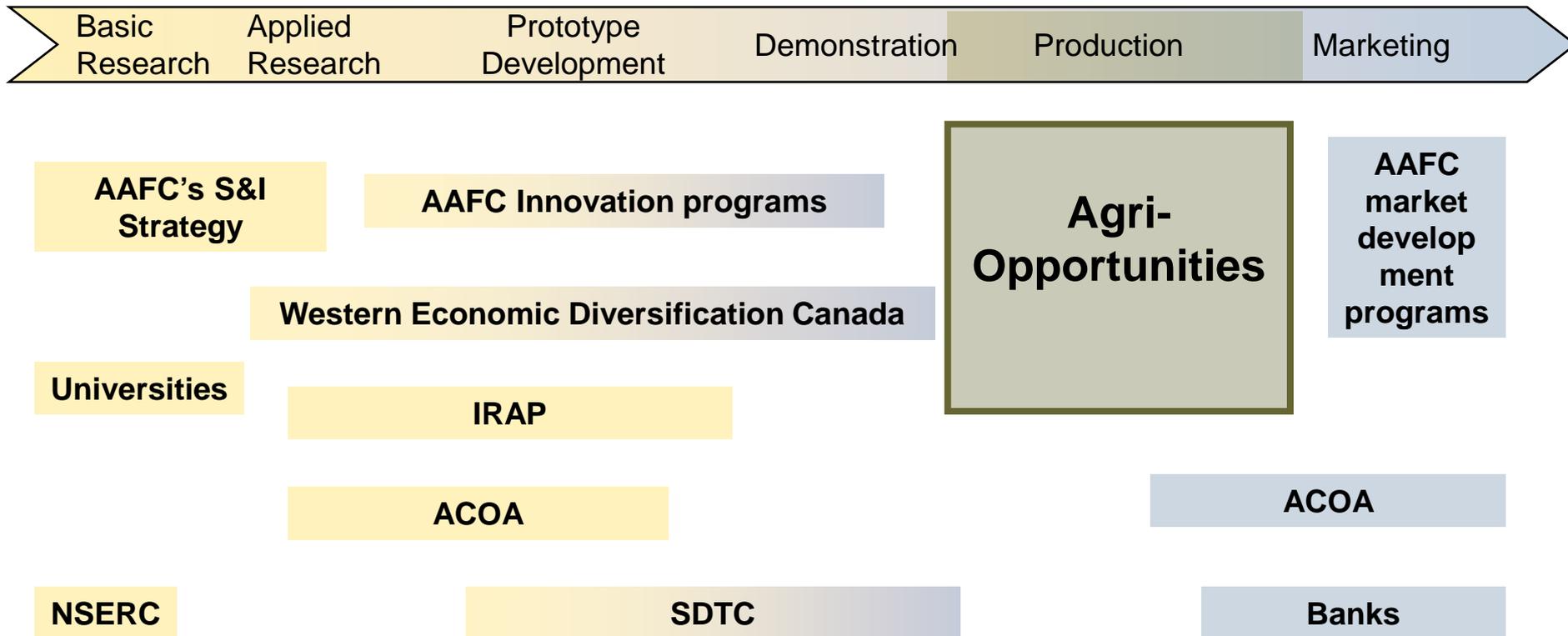
Canada 

# Agri-Opportunities – Program overview

- \$134 million program
- April 2007 - March 2011
- Focus on new value-added agricultural, agri-food and agri-based products, processes or services
- Working with large and small companies of all types

# Agri-Opportunities – Place on the innovation path

## INNOVATION PATH



# Agri-Opportunities – Available funding

- Up to \$10 million per project and per recipient regardless of the number of projects, over five years ending in March 2011
- Up to one third of total eligible project costs
- Interest-free
- Unsecured
- Contributions repayable over eight years
- Not-for-profit entities – contributions are generally not repayable
- Private sector funding should be at least 33% of total project cost

# Agri-Opportunities – Basic project criteria

## **New**

- Product, process or service is not already commercially produced or available in Canada

## **Ready to commercialize**

- Technology , business/marketing, financials and management are ready for scale-up

## **Benefiting Canadian agriculture and Canada**

- Project will be conducted in Canada and will benefit the Canadian agriculture and agri-food sector

# Agri-Opportunities – Types of potential projects

## Innovative Products

- Made from primary agricultural products
  - Grains – livestock – agriculture residues – by-products
- Examples: Bioproducts such as biopolymers, cosmeceuticals, neutraceuticals, lubricants, functional foods

## Innovative processes

- Technology used to manufacture agri-food products, or
- New technology that will be sold to many agricultural businesses
  - Must demonstrate significant potential increase in demand for primary products and benefit the agriculture industry

## New services

- Required because of the introduction of a new technology or a new product
- Examples: Advisory services, workshops, training - Related to knowledge, information or expertise required to successfully bring a new product or technology to market

# Agri-Opportunities – Project life cycle

## **Assessment Criteria:**

1. Technical
2. Market
3. Financial
4. Management

**6. Repayment phase** - To be completed within 8 years after project completion

## **5. Work Phase**

Claim submissions and contribution payments

## **4. Approval**

Ministerial congratulatory letter

## **3. Full Proposal Assessment – Project viability**

- A. Business & technical viability and site visit
- B. Industry Review Committee recommendation
- C. Recommendation

## **2. Proposal Synopsis – Basic eligibility**

New – ready – benefits to Canadians  
Review by AAFC Innovation Committee

## **1. Contact Program**

## **Expertise:**

1. Internal
2. External
3. Industry experts

# Agri-Opportunities – Contact information

Online: [www.agr.gc.ca/agri-opportunities](http://www.agr.gc.ca/agri-opportunities)

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E-mail: [agri-opps@agr.gc.ca](mailto:agri-opps@agr.gc.ca)