

Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada

**Innovation and collaboration -
The Canadian agriculture perspective**

SW10 International Cooperation for Innovation
Americas Innovation Forum
March 30-April 1, 2008, Punta del Este, Uruguay

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AAFC research expertise and infrastructure are well positioned to serve the sector across Canada

AAFC science and innovation research...

- 600 scientific and research professionals
- 19 research centres, 13 research farms, and 30,227 hectares of land
- Crop, animal and food processing facilities

- Different ecosystems
- Different attitudes
- Different market structures
- Different communities

Capacity to work From Production to Consumption

AAFC Research Centres
AAFC Research Farms
AAFC Research Sites

Research and Development

Science and Technology

Science and Innovation

Science and Research

Fundamental Research Applied Science

PRES2008-03-29

Science and Innovation for a Research Organization

- **Science**
 - Investing money to create knowledge
- **Innovation**
 - Investing knowledge to create money

“Research being market-driven to markets being science-driven”

The federal policy context ...

Advantage Canada

- Focus is on industry competitiveness and economic growth achieved through innovation and productivity improvement. There is a strong focus on university-business science collaborations. The notion that excellence will be obtained through the competition of ideas is presented as a key theme.

■ **Budget 2007**

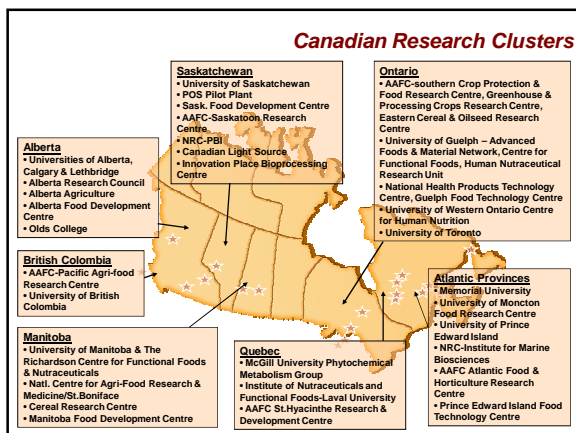
- Continues the messaging from Advantage Canada. Government investment in universities through Granting Councils is increased only modestly. Granting Councils are essentially the means by which excellence through competition of ideas will be achieved. Innovation supported by a focus on entrepreneurship, knowledge development and management and enhancing HQP is a key thrust.

■ **Federal Laboratory Infrastructure Project**

- Treasury Board is leading a multi-department review of federal laboratory infrastructure. It is apparent that significant reinvestment is required and this project is attempting to determine the current condition of federal laboratory capacity in the context of government science priorities.

■ **Federal S&T Strategy will put emphasis on:**

- Promoting world class excellence
- Focusing on priorities
- Encouraging partnerships



Goal 4 — Extend science and innovation capacity to the bioeconomy

- AAFC announced the Agricultural Bioproducts Innovation Program (ABIP)
 - ABIP is a \$145 million program designed to support research networks and encourage the development of clusters for the advancement of a sustainable and profitable Canadian bioeconomy.
 - As the Science and Innovation Strategy indicated, these new research efforts will put an increased emphasis on research partnerships that will allow for the creation of 15 multidisciplinary and multiparty networks along the innovation Chain, with the best research teams in Canada.
 - Close to \$1 Billion of funding requests were received.

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Goal 5 — Accelerate the adoption and commercialization of scientific knowledge

The Matching Investment Initiative (MII) program is being rejuvenated to enhance its effectiveness and flexibility and improve its delivery. Rebranding and rejuvenating the MII will:

- Enhance innovation capacities across the value chain
- Introduce a new funding formula to cater to a wider variety of industry needs
- Build long-term AAFC-industry relationships
- Simplify agreements will be put in place
- Welcome applications throughout the year

- The MII program has been a success. For the period 1994-2002:
 - MII funded **3000 projects** involving **1400 industry groups** between 1994 and 2002.
 - MII leveraged **\$235 million AAFC direct cash investment** with matching industry cash and in-kind investment (50:50)
 - Net economic benefits** from MII funded research have been estimated to be at least **\$2.2 billion**

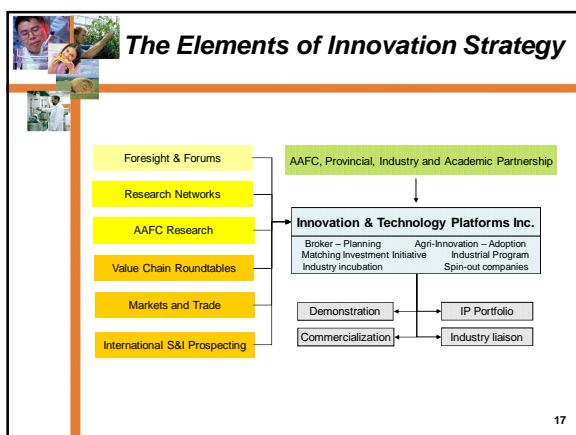
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Three interrelated initiatives to deliver science and technology along the continuum in support of sector innovation and competitiveness


INNOVATION CONTINUUM						
DISCOVERY PHASE		PRE-ADOPTION / PRE-COMMERCIALIZATION PHASE			MARKETING PHASE	
Basic Research	Applied Research	Prototype Development	Commercialization Full Scale	Market Ready Product Development	Market Entry	Market Development
A-base	Science Clusters - Seeding the establishment of science groups, not adding to AAFC's capacity, but adding to the critical masses of focused capacity in partnerships	Industry Innovation and Commercialization Centers - technology transfer, pre-commercialization activities, prototype development. Staff and resources in partnerships, not at AAFC.	Science Solutions Advancing Innovation - making AAFC and other organizations' science capacity available to solve industrial or regulatory challenges			

Initiatives to be promoted in Growing Forward

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- ### Some challenges for Successful Innovation
- Need increasingly skilled work force including qualified personnel to prepare business plan for agriculture opportunities
 - Need robust private sector investment and involvement in S&T matters to develop new products
 - Need harmonization of intellectual property guidelines between research organizations and commercialisation of publicly funded S&T matters
 - Need to address macroeconomic framework and regulations for new products to meet high cost for testing
 - Need to create incentives for scientists and companies
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Conclusion

- There is a global clearer understanding of the role of innovation in driving the economic growth and how it links to the S&T capacity of a country.
- The Canadian approach is to create the economic, politic, scientific and regulatory environment in order to be a facilitator and a catalyst to favor innovation.
- Innovation goes with partnerships and the Canadian government has set up various programs to support PPP.
- In Agriculture and agri-food, concrete actions are being taken such as a special funding ABIP to set up 15 networks, the MII to match with industry investment, review its infrastructure and improves on the communication.
- My role in the International Scientific Cooperation Bureau is to grab and create international research opportunities for AAFC scientists, attract the talented students in our laboratories, use the scientific capacity of the department to help the industry to develop new foreign markets

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Your contact point...


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Ensuring AAFC's place in the world
 Assurer la place d'AAFC dans le monde





Thank you!

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 Director

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 Agriculture and Agri-Food Canada

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