



Global Connections for Canadian Innovators
Liaisons internationales pour les innovateurs canadiens

Expanding Canada-Brazil R&D Collaborations

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Vice President Operations

BRAZIL Visit
1-7 Dec 2011

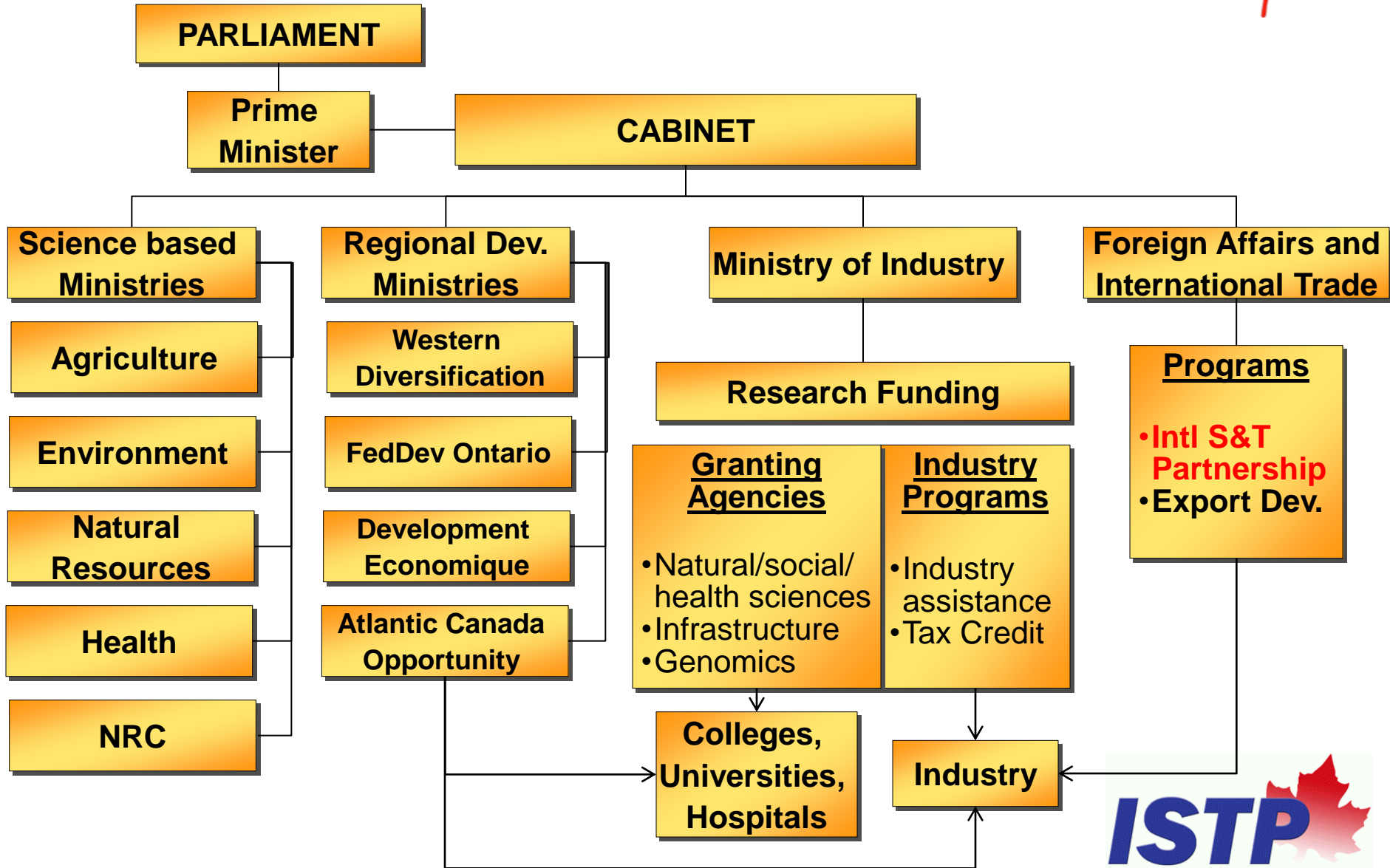


Purpose of this Visit

Identify a Brazilian organisation willing to co-fund Canada-Brazil bilateral industrial R&D collaborations nationwide in partnership with ISTPCanada over the next 4 years.



Canadian Federal S&T Structure



Canada's S&T Strategy

Vision: Building a sustainable national competitive advantage through S&T and the skilled workers

Entrepreneurial Advantage

Translate knowledge into practical applications to improve our wealth, wellness and well-being

Core Principles

Promote Excellence
Focus on Priorities
Foster Partnerships
Enhance Accountability

Knowledge Advantage

Build on research and engineering strengths, generate new ideas and innovations, and achieve excellence

People Advantage

Grow the base of knowledge workers by developing, attracting and retaining highly-skilled people



Canada Global Commerce Strategy

- **Boost Canadian commercial engagement in global value chains**
- **Secure competitive terms of access to global markets and networks for Canadian businesses**
- **Increase foreign direct investment in Canada and Canadian direct investment around the world**
- **Forge stronger linkages between Canada's science and technology community and global innovation networks**



Canada's Priority Markets

Europe and Middle East

- Europe
- Russia
- Gulf Cooperation Council

Americas

- United States
- Mexico
- **Brazil**
- Latin America & Caribbean



Asia Pacific

- Association of South East Asian Nations
- Australia - New Zealand
- **China**
- **India**
- Japan
- Korea



ISTPP Policy Context

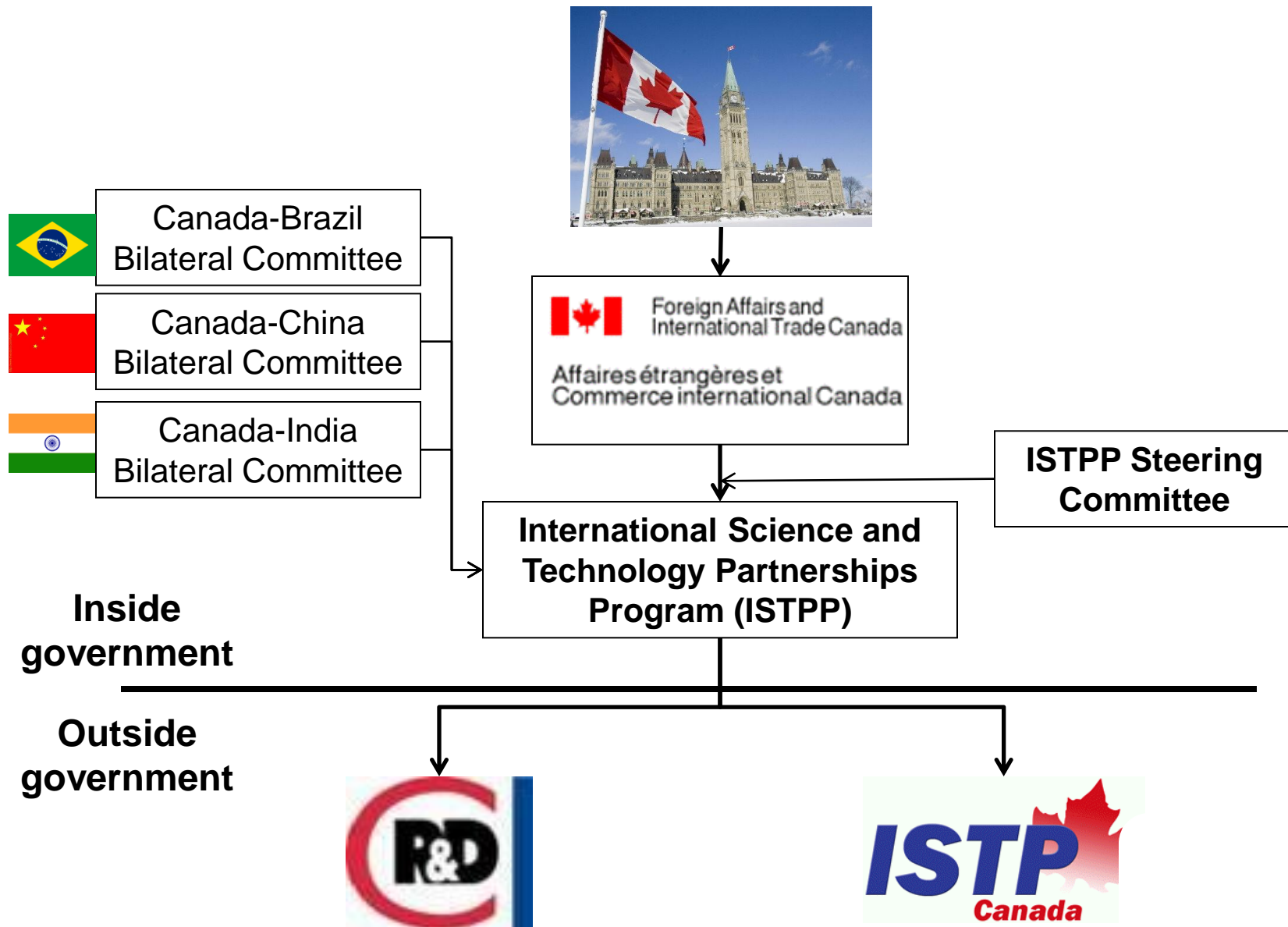


**Leverage academic research strengths
with Canada's private sector to access international
S&T networks and accelerate R&D commercialization**

ISTP Program At A Glance



ISTPP Governance



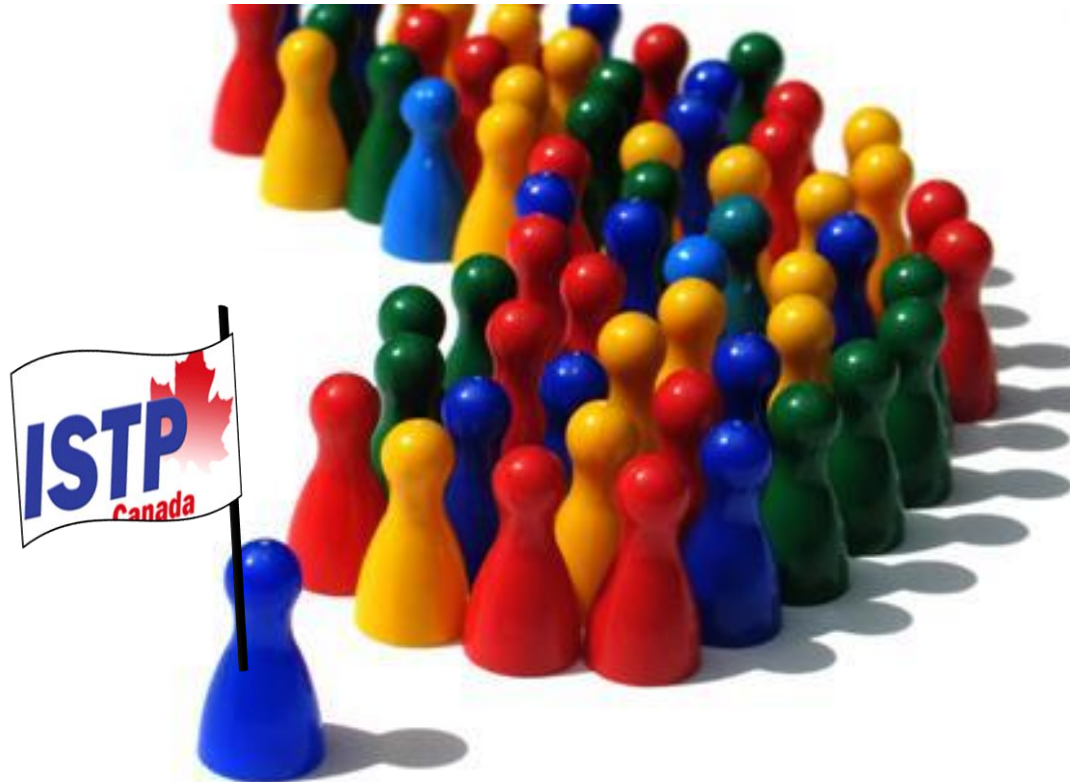
ISTPP Expected Results

- **R&D Capacity Building**
- **Access to Global R&D Networks**
- **Economic Benefits**



ISTPCanada Vision 2015

To be recognized as Canada's premier international Science and Technology (S&T) partnership development organization.



Main Business Activities

■ Partnership Development Activities

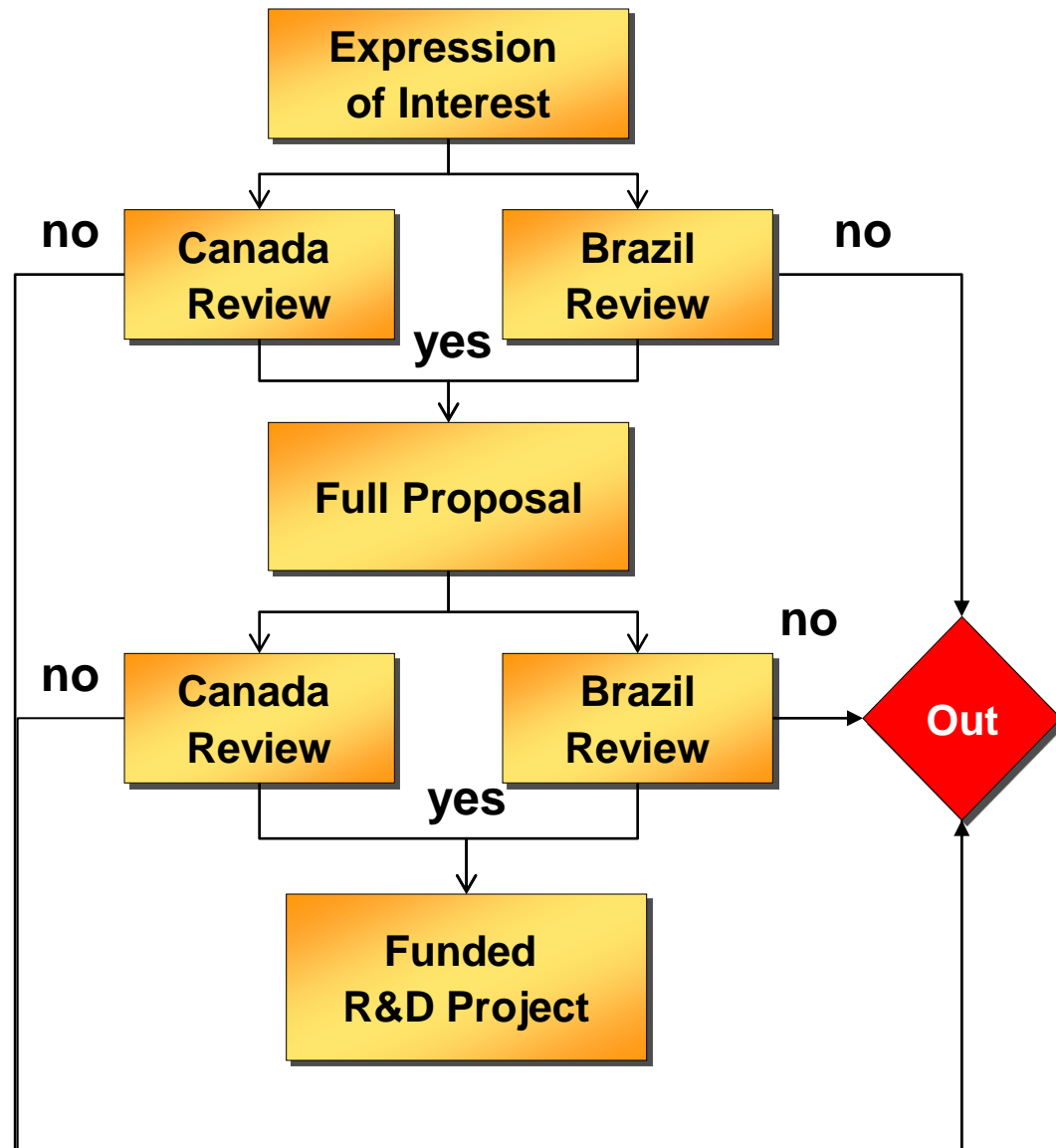
- ISTPCanada led in support of top down S&T priorities,
- 5 Canada-Brazil events scheduled in near future
- Normally followed by R&D project Call for proposals

■ Collaborative R&D projects competition

- Calls for proposals for R&D activities aimed at developing new products, processes or services,
- 50% of Canadian R&D cost up to \$600,000/project,
- Equivalent funding/effort in the partner country



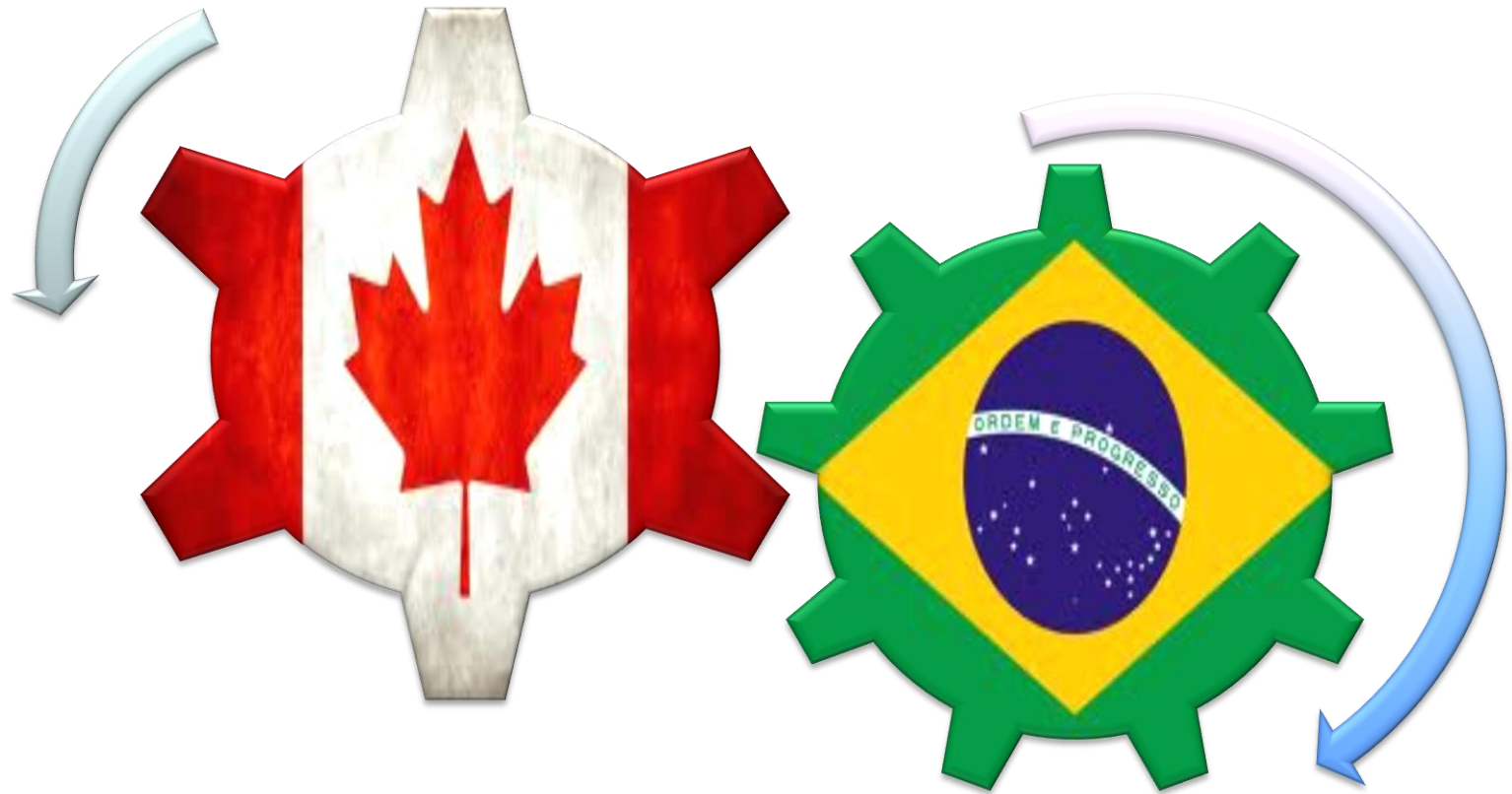
Typical R&D Project Call for Proposal



2007-2011 ISTPCanada Achievements

- **Facilitated 45 matchmaking activities, engaging 2,500+ highly qualified people**
- **Invested \$9.3 million in 23 bilateral R&D projects with India, China and Brazil**
- **Gained almost 4X leverage on every dollar invested in R&D projects (with additional multiples from economic results)**
- **Leveraged \$14.5 million from other provincial and regional programs**

Canada-Brazil Collaboration



S&T: A Priority for Bilateral Relations



“Prime Minister Stephen Harper today announced renewed funding for the International Science and Technology Partnership Program, as well as the development of a new and

unique bilateral Science and Technology Action Plan focused on innovation. Prime Minister Harper also announced that eleven scholarships have been granted under the first-ever Canada-Brazil scholarship program.”

Brasilia, 8 August 2011



Canada-Brazil S&T Agreement

Purpose

Encourage, develop and facilitate cooperative activities in science, technology and innovation

Areas of mutual interest

- aerospace,
- agriculture,
- biotechnology,
- nanotechnology,
- pharmaceuticals,
- information and communications technology, and
- renewable energy development.



Canada-Brazil Bilateral Relations

Canada

BRAZIL



| Joint Committee | |
|---|--|
| Jamshed Merchant, co-chair | Benedicto Fonseca Filho, co-chair |
| Anil Aurora (Government) | D. Neddermeyer, (Government) |
| Greg Vanclief (Industry) | Helena Nader, (Academia) |
| Ted Hewitt (Academia) | Paulo Mol Jr., (Industry) |
| Peter McArthur (DFAIT) | Carmen Moura (MCTI) |
| Life Sciences Working Group | |
| Ted Hewitt, VP Research UWO | Vânia Gomes da Silva, MCTI |
| ICT Working Group | |
| Tom Jenkins, CEO Opentext | Rômulo Neves, Ministry of External Relations |
| Ocean and Marine Working Group | |
| Jane Rutherford, DFAIT | Janice Trotte-Duha, MCTI |
| Environment and Cleantech Working Group | |
| Celine Bak, DFAIT | Eduardo Soriano Lousada (MCTI) |

2011 Status Report

- **S&T Agreement signed with MCT in 2008**
- **ISTPCanada-FAPESP MOU in 2009, renewed in 2011**
- **\$3.7 million worth of R&D**
- **Targeted top-down events**
 - Cellulosic biofuel, Marine/ocean technologies, Energy/smart grid,
- **\$5M ISTPP2 funding**



Next steps

- **Develop a joint S&T Action Plan**
- **Identify a Brazilian national partner**
- **Plan and deliver 5 thematic PDAs**
 - Smart Grid (12-2011), Ocean technology (05-2012), **Priority A (09-2012), Priority B (11-2012), Priority C (01-2013)**
- **Promote and deliver the next Call For Proposals**
- **Develop post-2015 Canada-Brazil Action plan**



Options to be Discussed

- Is CONFAP and/or individual FAPs interested to partner with ISTPCanada?
- Can federal and state resources be leveraged for bilateral R&D collaborations?
- Which organisation(s) can serve as a counterpart to ISTPCanada in Brazil?





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Thank you



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1-7 Dec 2011

Thank you for your attention

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www.ISTPCanada.ca



Canada-Brazil Smart Grid Match-Making Mission



- **5-9 December in Toronto and Vancouver, Canada**
- **Building on an event hosted in Brazil in 2009**
- **In partnership with a delegation from Chile**
- **Objectives**
 - Define key priorities for Canada-Brazil R&D collaboration in smart grid technologies
 - Stimulate bilateral R&D that delivers downstream economic and social benefits to both jurisdictions



Ontario Centres of
Excellence

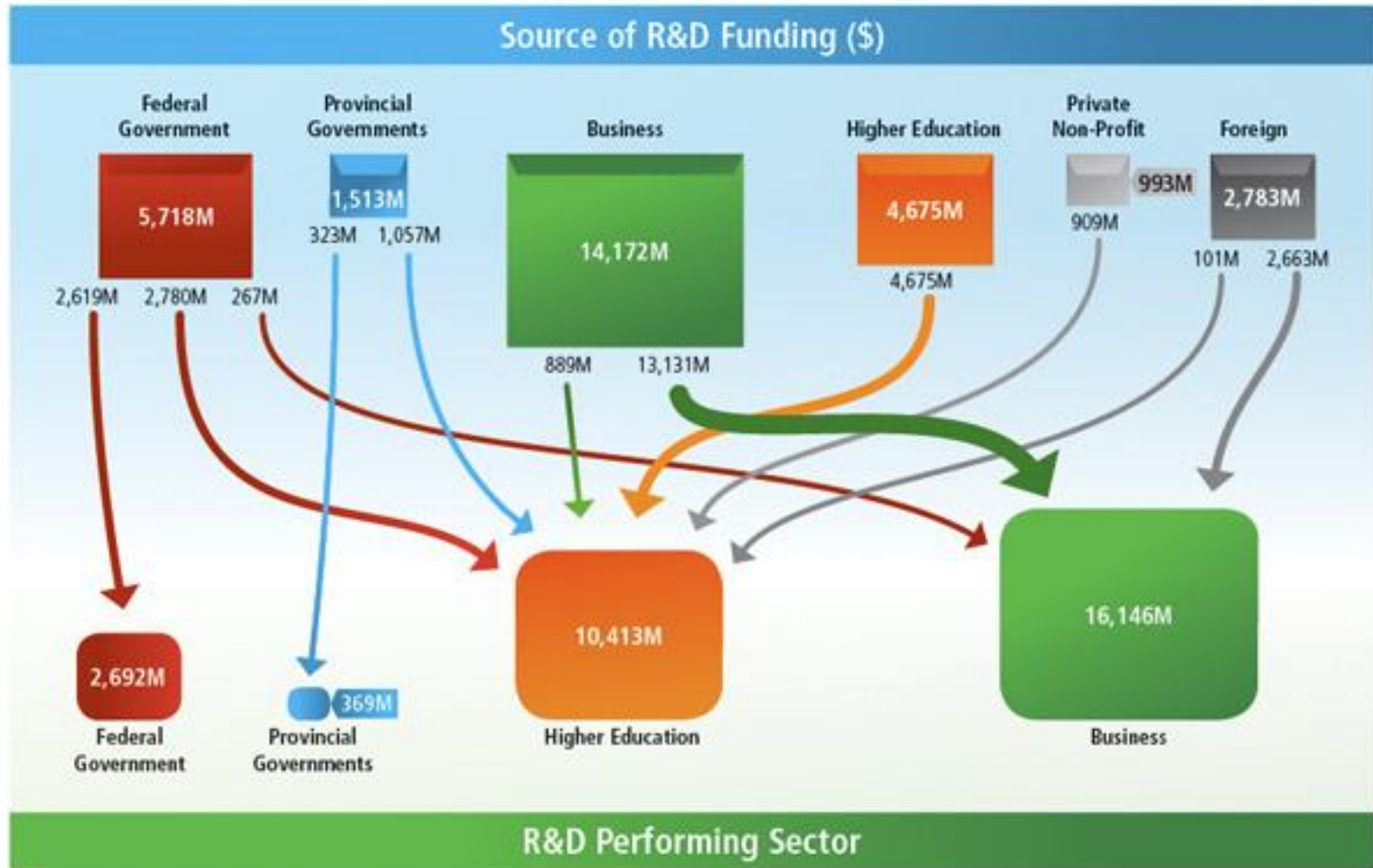


Foreign Affairs and
International Trade Canada

Affaires étrangères et
Commerce international Canada



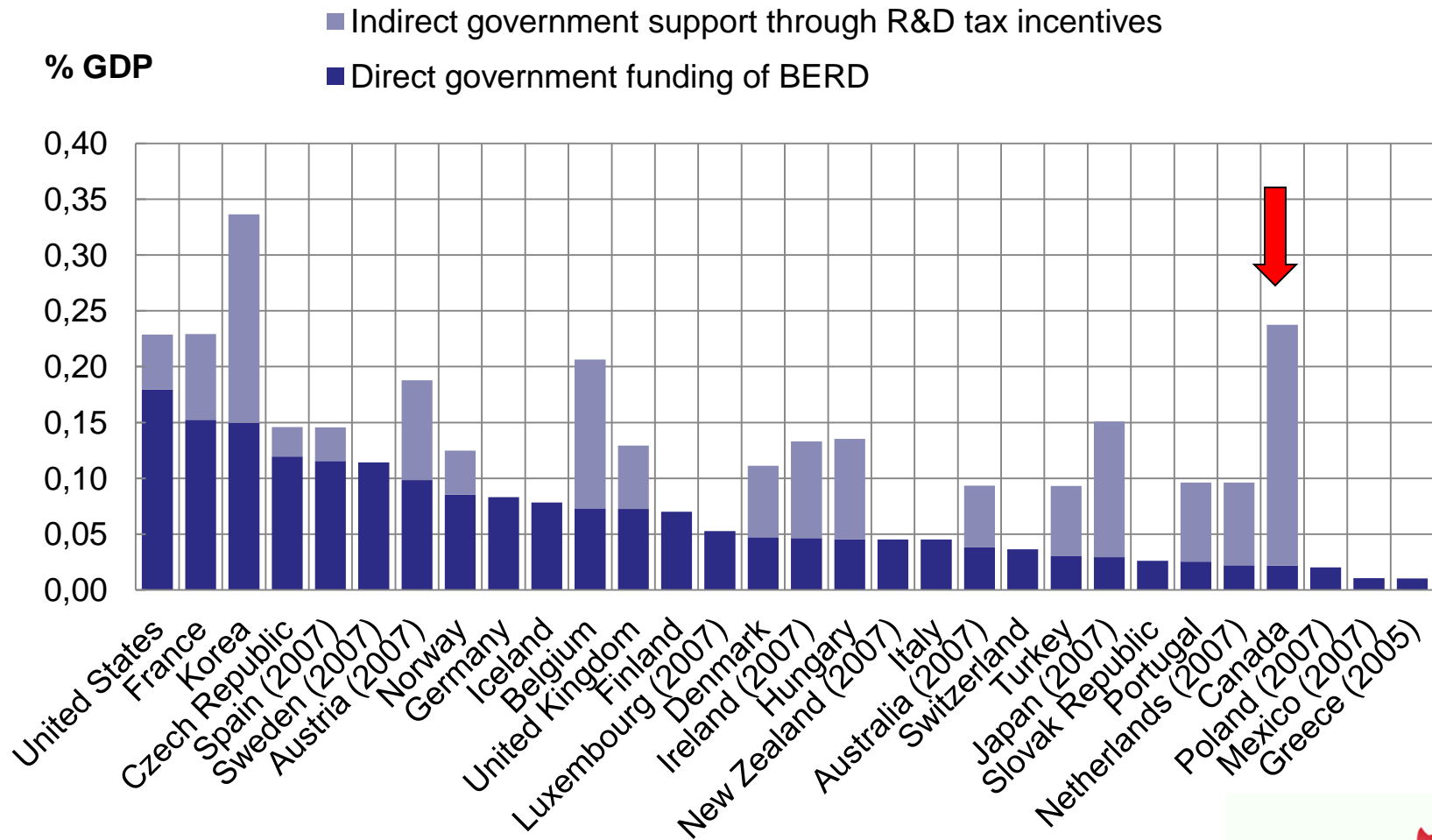
Major Flow of R&D funding in Canada



* Includes only flows and performers > \$100M.

Source: Statistics Canada, CANSIM Table 358-0001, August 2010.

Canada S&T Funding



Source: Source: OECD (2010), [Science, Technology and Industry Outlook 2010](#).

Canada's Research Priority Areas

Environment

Water:

- health
- energy
- security

Cleaner methods of extracting, processing and utilizing hydrocarbon fuels, including reduced consumption of these fuels

Natural Resources and Energy

Energy production in the oil sands

Arctic:

- resource production
- climate change adaptation
- monitoring

Biofuels, fuel cells and nuclear energy

Health and Life Sciences

Regenerative medicine

Neuroscience

Health in an aging population

Biomedical engineering and medical technologies

Information and

Communications

Technologies (ICTs)

New media, animation and games

Wireless networks and services

Broadband networks

Telecom equipment