

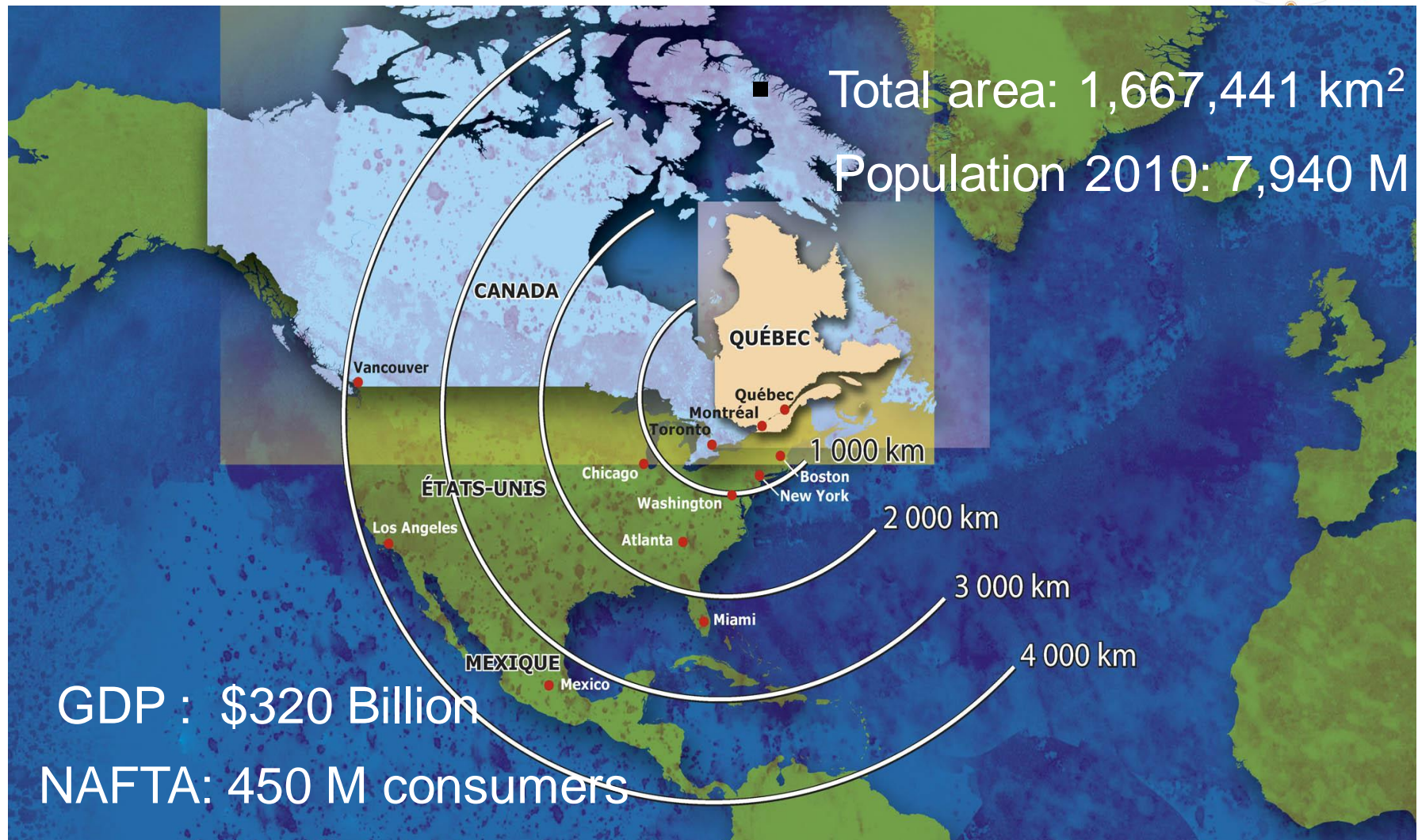
Stratégie québécoise
de la recherche et de
l'innovation 2010/2013

MOBILISER
innover
PROSPÉRER

Mobilize, Innovate, Prosper : A Promising Strategy for Québec

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An Integrated Economy



An Innovative Economy



- Leader among industrialized countries
- Venture capital: a strategy that is producing results
- R&D spending: Québec stands out - the highest in Canada (1.5% of our GDP in 2010)
- Tax system that encourages innovation



An Economy Driven by its Human Capital



Education knowledge
reward

- Universities including the Université du Québec, which consists of branches

State-of-the-art
research as an education tool

- Research subsidies and contracts from governments & private sector



An Economy Focused on High Technology



- aeronautics
- life sciences
- optics- photonics
- multimedia
- new technologies



Québec's Innovation Chain



CCTT

Universities

Public Laboratories

Patent

Validation

Technology
development

Product
development

Marketing

Research

Maturation
(Proof of concept)

Initiation
(Pre-start-up)

Start-up

Viable Business :
Growth & Expansion

Provincial granting
councils +GQ, NanoQc

Incubators

Institutional Banks

Commercialisation societies

Venture Capital

Federal granting councils

Angel Investors

University Tech Transfer Offices

Liaison and transfer centres

Sector Based Industrial Research Groups

Strategic Technologies

Measures in Research and Innovation



PUSH

Research

Maturation
(Proof of concept)

Initiation
(Pre-start-up)

Start-up

**Viable Business :
Growth & Expansion**

**Merit
Scholarships**

**Technological
Maturation**

**Technological
Start-ups**

Technology Showcases

Workplace scholarships

**Lecturer-Researchers
in the regions**

**Innovation in Businesses
through Design**

Research groups

Technical Validation

**Assistance to market
innovations**

Research infrastructures

**Development of Strategic
Technologies**

**Assistance to hire staff
assigned in Businesses to
Research and Innovation**

**International
Research
Networks and
Projects**

**University Research Development
Corporations**

Liaison and Transfer Organizations

Cegep Researchers working in CCTT

Activites of CCTT

Promotion of scientific culture and careers in science and technology



Measures in Research and Innovation



Tax Credits and Visas for Precompetitive Research Consortia

Support for CCTT

Assistance for Design

Technology Showcase

Workplace Scholarships

Intensification of Innovation in Businesses

Assistance to hire staff in Businesses in Research and Innovation

Tax Holiday for Foreign researchers

Tax Holiday for Foreign Experts

Sector-Based Industrial Research Groups

Liaison and Transfer Organizations

Attraction and Retention of Research Investments

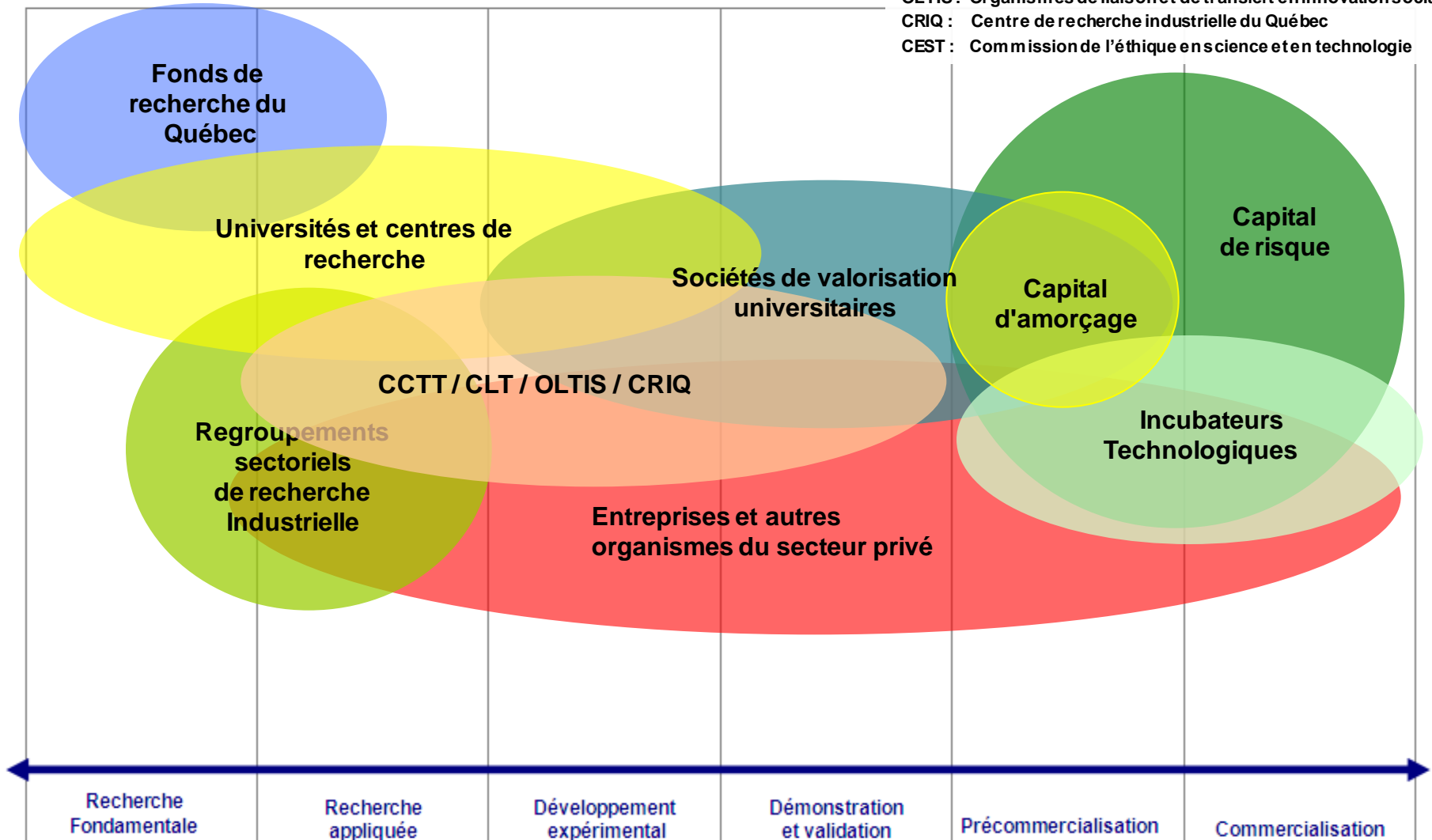
Promotion of scientific culture and careers in science and technology



Main Actors in Research and Innovation in Québec



CCTT : Centres collégiaux de transfert de technologie
CLT : Centres de liaison et de transfert
OLTIS : Organismes de liaison et de transfert en innovation sociale
CRIQ : Centre de recherche industrielle du Québec
CEST : Commission de l'éthique en science et en technologie



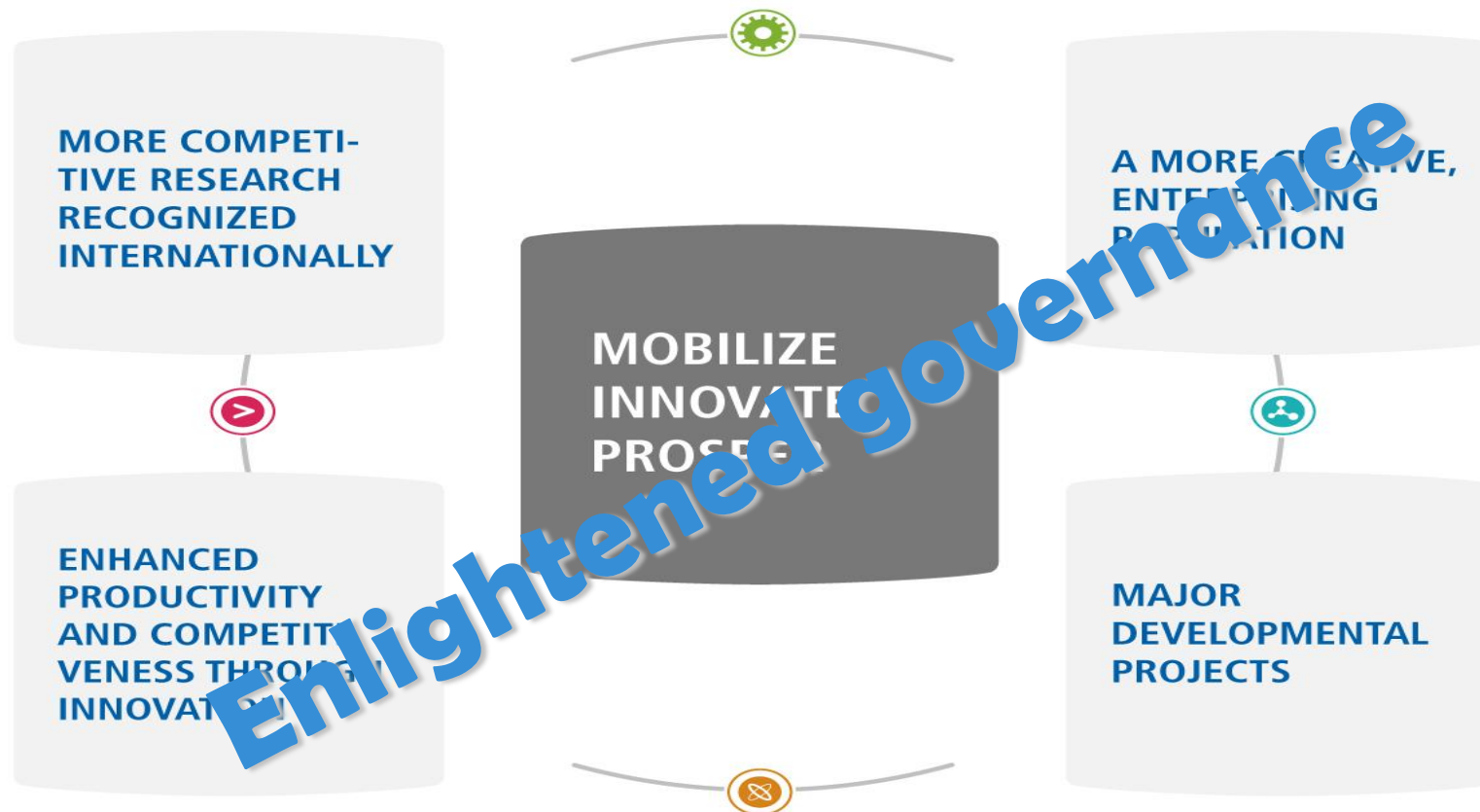
Context of Quebec Research and Innovation Strategy



- Innovation is a key success factor from the standpoint of economic, social and cultural development;
- It contributes to enhancing productivity;
- A competitive Québec must rely on innovation;
- Innovation is an integral part of our vision of economic development, centred on a creative, innovative, enterprising, welcoming Québec.



Four Areas of Intervention and One Condition for Success



More Competitive Research Recognized the World Over : *Challenges*



- Maintain the competitiveness of Québec's research system within Canada and at the international level, and its ability to attract the best researchers;
- Broaden the visibility at home and abroad of spinoffs from strategic investments to support research;
- Make cost-effective investments in scientific infrastructure (=adequate funding with respect to operations and accessibility by researchers and businesses).



More Competitive Research Recognized the World Over: *Initiatives*



RECHERCHE QUÉBEC



Fonds Recherche
Québec

•
Excellence de la
recherche

Technologies
stratégiques

•
Développement
de connaissances

Collaborations
internationales

•
Participation
aux réseaux
internationaux

Infrastructures
de recherche

•
Maintien
à la fine pointe

Recherche Québec devient la bannière qui regroupe des interventions
du gouvernement du Québec en matière de recherche publique.



A More Creative, Enterprising Population : *Challenges*



- Strengthen the innovation and entrepreneurial cultures (entrepreneurship strategy);
- Better match postsecondary training programs with the needs of businesses, in particular by developing talent in the areas of organizational innovation and marketing;
- Increase the availability of qualified workers against a backdrop of an ageing population;
- Support the internationalization of training to ensure that Québec's skills are recognized as widely as possible in the world, and facilitate the attraction of foreign students.



A More Creative, Enterprising Population: *Initiatives*



- Program (*NovaScience*) to encourage a greater number of young people to engage in trades and careers in S&T (tool to develop an innovation culture);
- The granting of merit scholarships (opened to foreign students). Competitions will be reserved in fields of strategic importance to Québec's development;
- Support for international traineeships : measure to support Québec's best laboratories in accepting foreign students;
- Scholarships in the practice environment to integrate students in industrial research facilities.



Enhanced Productivity and Competitiveness Through Innovation : *Challenges*



- Develop and strengthen collaborative measures, in particular with a vision to better include SMEs in such measures;
- Facilitate the management of IP in collaborative efforts between universities and businesses, but also between SMEs and big companies;
- Provide broader support for marketing;
- Enhance the operating efficiency of intermediation agencies (networking, collaboration);
- Increase social and organizational innovation in businesses and organizations;
- Optimize the mechanisms to commercialize university research through enhanced collaboration.



Enhanced Productivity and Competitiveness Through Innovation : *Initiatives*



- Support for the commercialization of innovation – support for industrial design;
- Support for industrial research (fiscal measures, ESSOR);
- Support for research in partnership: to support sectoral industrial research clusters;
- Support for the emergence of technology companies (proof of concept of technologies and startups);
- Support for liaison and transfer agencies.



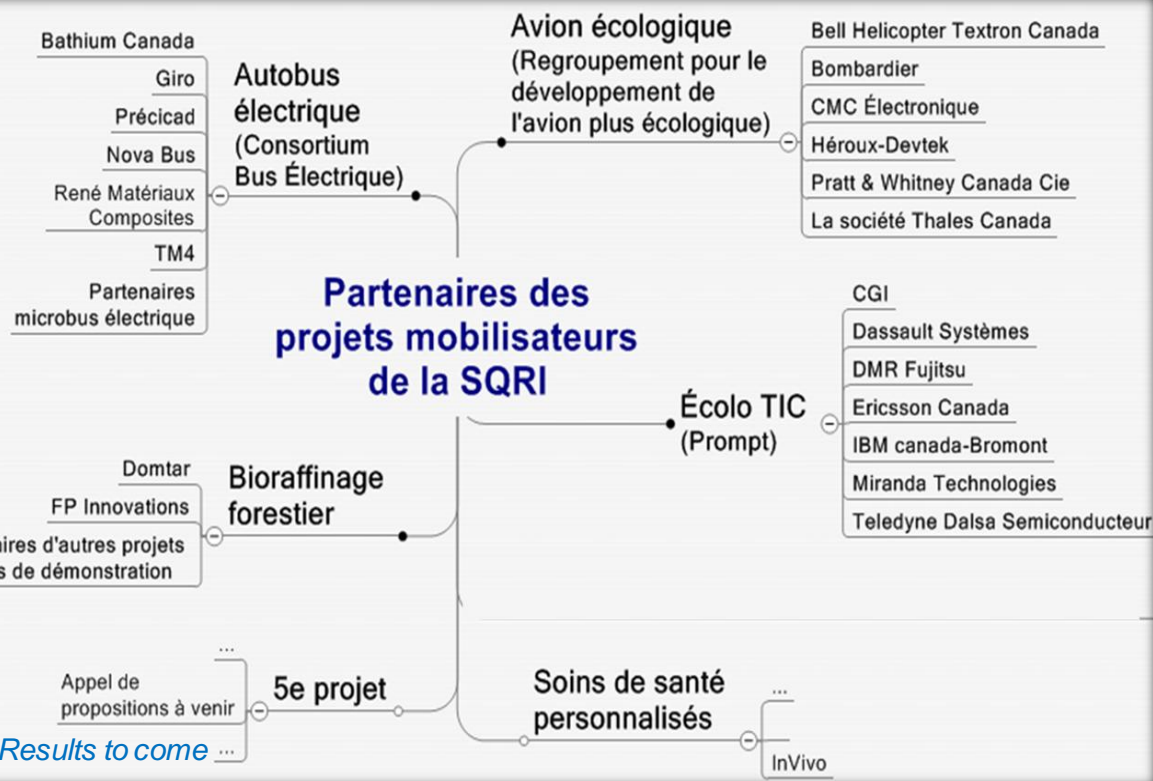
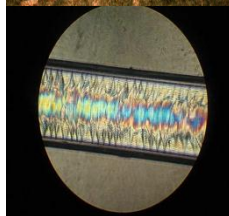
Major Mobilizing Projects



- The realization of six major developmental projects.
- Participation of stakeholders such as major prime contractors, SMEs, development and transfer agencies, research establishments and universities in developmental projects.
- Participation in each mobilizing project by stakeholders from different fields of innovation.



Major Mobilizing Projects



Enlightened Governance



- Stronger leadership in research and innovation (Strategic Science and Innovation Committee);
- A steering committee and project committees for major developmental projects;
- Better indicators to measure spinoff from government investments in research, science, technology and information.



The 2010-2013 QRIS



- Significant initiatives to support the emergence of major projects that assemble Québec's leaders in research and innovation;
 - Measures to support social and organizational innovation projects, in particular to bolster productivity in organizations;
 - New measures to support the emergence of technology SMEs;
 - Significant efforts to support the marketing of Québec innovations, in particular green innovations;
 - The adjustment of measures to encourage the attraction to Québec of top foreign students and researchers;
- ➡ Major restructuring to strengthen leadership in Québec in the realms of research and innovation.

Any Questions?



Thank you ... Merci de votre attention...

Gracias!

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Québec 