

Annex B- List of Department's PAA and result indicators

Note that the departments provided lists of program activities and related indicators. When possible, expenditures per programs were matched using departmental Report on Plans and Priorities 2005-06. Amount shown for each program activities might include non-R&D related expenditures.

The following departments and agencies are listed:

- Agriculture and Agri-Food Canada
- Canadian Institutes of Health Research Council
- Canadian Space Agency
- Defence R&D Canada
- Industry Canada
- National Research Council Canada (NRC)
- Natural Resources Canada (NRCan)
- Natural Sciences and Engineers Research Council (NSERC)
- Social Sciences and Humanities Research Council (SSHRC)

Agriculture and Agri-Food Canada (AAFC)

Program Activity (planned for 2005-2006)	
Business Risk Management Ongoing	\$1,386M
Food Safety and Food Quality Ongoing	\$102M
Environment Ongoing	\$332M
Innovation and Renewal Ongoing	\$331M
International Issues Ongoing	\$109M
Rural and Co-operatives Ongoing	\$21M
National Farm Products Council Ongoing	\$3M
Canadian Pari-Mutuel Agency Ongoing	\$16M
Budgetary Main Estimates for 2005-06	2,297M

Moreover, AAFC science has been organized into four National Science Program teams. The programs and research areas the teams address are:

- **Environmental Health**— research to develop knowledge and technologies that will minimize the impact of agricultural production on natural resources;
- **Sustainable Production Systems** — research to develop systems of crop and livestock production that are economically and environmentally sustainable in the face of disease, pests and weather threats, and improve the competitiveness of Canadian agri-food products in domestic and international markets;
- **Bio-products and Bio-processes** — biological and engineering research to discover and develop value-added bio-based products and processes such as bio-materials for construction, new bio-fuels and chemicals, and new wellness foods; and
- **Food Safety and Quality**— research to provide the knowledge and technology needed to enhance the ability of the Canadian food industry and government to keep the food system safe, and to produce quality food products for current and future consumers.

Source: AAFC RPP, 2005-06

Agriculture and Agri-Food (AAFC) Common GOALS	Investment (\$M)	Target and Indicators
REALIGNING PUBLIC SCIENCE RESOURCES		<ul style="list-style-type: none"> • Levels of investment by the Parties, academic institutions and industry in science and innovation in the priority areas and in bio-products; • Levels of investment by non-agricultural sources in science and innovation in the priority areas;
CO-ORDINATING ALONG THE WHOLE VALUE CHAIN		<ul style="list-style-type: none"> • Number of collaborative arrangements based on science and innovation across the value chain

Agriculture and Agri-Food (AAFC) Common GOALS	Investment (\$M)	Target and Indicators
CREATING AN INNOVATION CLIMATE		<ul style="list-style-type: none"> • Number of producers that become engaged in value chain activities beyond production of the raw commodity; • Market share of bio-products produced in Canada; • Impact on rural economic development of investments or economic activity in bio-products and the priority areas; • Number of publications, licensing agreements and patents awarded in the agriculture and agri-food sector; • Number of people employed in the bio-based economy; • Number of persons enrolled in post secondary institutions in subjects related to the bio-based economy; • Employers' access to skilled labour in the bio-based economy; and • Number of new research and innovative projects that are commercialized.

Note: It was not possible to get AAFC list of indicators linked to their PAA. See below their Budgetary Structure:

Canadian Institutes of Health Research Council (CIHR)

Program Activity (planned for 2005-2006)

Outstanding Research	\$420M
Outstanding Researchers in Innovative Environments	\$294M
Transforming Health Research into Action	\$ 62M
Budgetary Main Estimates for 2005-06	\$777M

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
1.0 Outstanding Research	\$420	<ul style="list-style-type: none"> • Canadian ranking in health research expenditures compared to international levels • Number of publications resulting from CIHR-supported research and their impact • High peer review rankings of results of CIHR-funded research
1.1 Fund health research <u>Description:</u> Manage competitions and programs for grant funds to facilitate and enable the conduct of outstanding health research including collaborative programs in investigator-framed and Institute-framed initiatives.	\$420	<ul style="list-style-type: none"> • Success of CIHR-funded research programs including results, awareness and satisfaction levels. • <i>Extent to which Institutes have appropriately influenced the research, policy and/or practice agendas in their communities (Common Framework 3a and b)ⁱ</i>
1.1.1 Investigator-Framed Grants Programs <u>Description:</u> Manage competitions and programs for grant funds to facilitate and enable the conduct of outstanding health research including collaborative programs in all areas of health research.		<ul style="list-style-type: none"> • Proportion of fundable grant applications received by CIHR that are funded. • Average duration of grants. • Average dollar value of grants issued • Total expenditures for research targeted to strategic areas by health research priority.
1.1.2 Institute-Framed Strategic Grants Programs <u>Description:</u> Manage competitions and programs for grant funds to facilitate and enable the conduct of outstanding health research including collaborative programs in strategic health research areas.		<ul style="list-style-type: none"> • Proportion of fundable grant applications received by CIHR that are funded. • Average dollar value of grants issued. • Average duration of grants. • Diversity of research supported (by theme and # institutions).

ⁱ Indicators in bold and italic are derived from the 15 common indicators agreed to by Institutes in the Common Framework. Some of those related to Organizational Excellence and Partnerships (Enabling Outcomes) are not included in this structure. The number (1a) refers to the number within the Framework for reference purposes.

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.0 Outstanding Researchers in Innovative Environments	\$294	<ul style="list-style-type: none"> • Number and types of PhD graduates in Canada by year. • % of PhD graduates in Canada planning postdoctoral fellowship or research associateship in health. • Canadian international ranking in level of education. • Quality and availability of adequate resources for research (infrastructure, resources, hardware, software).
2.1 Fund health researchers and trainees <u>Description:</u> Manage competitions and programs for both salary awards to enable health researchers to devote more time to their research, as well as competitions for training awards to develop future health researchers.	\$195	<ul style="list-style-type: none"> • Success of CIHR-funded salary and training programs including results, awareness and satisfaction levels. • Level and success of Institute activity in creating opportunities for capacity development based on successful initial and ongoing identification and targeting of research domains in need of capacity development. (Common Framework 4a).
2.1.1 Salary Support Programs <u>Description:</u> Manage competitions and programs for salary awards to enable health researchers to devote more time to their research – in all areas of health research.		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded. • Numbers of health researchers funded by area of health research
2.1.2 Training Programs <u>Description:</u> Manage competitions and programs for training awards to develop future health researchers in all areas of health research.		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded. • Stipend and research award levels.
2.1.3 Canada Research Chairs Program <u>Description:</u> Provide two levels of salary award (Tier I and Tier II) that are allocated to universities and research institutions based on a formula; subsequently researchers are recruited into these “Chair” positions.		<ul style="list-style-type: none"> • Percentage of Research Chairholders attracted or retained in Canada due to the program. • Number of established or expanded research centres in areas related to university strategic plans since the program.
2.1.4 Canada Graduate Scholarships Program <u>Description:</u> Manage competitions and programs for financial support to develop future health researchers (at both Masters and Doctoral levels).		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>2.1.5 Institute-framed Strategic Salary Support Programs</p> <p><u>Description:</u> Manage competitions and programs for salary awards to enable health researchers to devote more time to their research – in strategic health research areas.</p>		<ul style="list-style-type: none"> Percentage increase in the number and diversity of researchers funded in National and Institute strategic health research priority areas.
<p>2.1.6 Institute-framed Strategic Training Programs</p> <p><u>Description:</u> Manage competitions and programs for training awards to develop future health researchers in strategic health research areas.</p>		<ul style="list-style-type: none"> Percentage increase in the number and diversity of trainees funded in National and Institute strategic health research priority areas. Number of trainees successfully completing CIHR-funded training programs.
<p>2.2 Fund research resources, collaboration and other grants to strengthen the health research community</p> <p><u>Description:</u> Manage competitions and programs for grant funds for research-enabling activities, such as networking, provision of new equipment, databases and/or specialized resources. Encourage participation and involvement of stakeholders in the public and private sectors through collaborative enabling programs and competitions.</p>	\$65	<ul style="list-style-type: none"> Success of CIHR-funded research resources and collaboration programs including results, awareness and satisfaction levels Expenditure levels and distribution. Level of Institute leadership, activity and success in strengthening research infrastructure/environment. (Common Framework 4c)
<p>2.2.1 Investigator-framed Research Resources and Collaboration Programs</p> <p><u>Description:</u> Manage competitions and programs for grant funds for research-enabling activities, such as networking, provision of new equipment, databases and/or specialized resources in all areas of health research.</p>		<ul style="list-style-type: none"> Proportion of fundable applications received by CIHR that are funded Types of support by area of health research. Number of research teams, networks and partnerships established.
<p>2.2.2 Institute-framed Research Resources and Collaboration Programs</p> <p><u>Description:</u> Manage competitions and programs for grant funds for research-enabling activities, such as networking, provision of new equipment, databases and/or specialized resources in strategic health research areas.</p>		<ul style="list-style-type: none"> Proportion of fundable applications received by CIHR that are funded. Total expenditures for research targeted to strategic areas by health research priority. Number of research teams, networks and partnerships established.

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>2.2.3 Other Grants to Strengthen Health Research Community</p> <p><u>Description:</u> Encourage participation and involvement of stakeholders in the public and private sectors through collaborative enabling programs and competitions.</p>		<ul style="list-style-type: none"> Total expenditures and description of activities funded in this category
<p>2.3 Develop and support strong health research community through National and international alliances and priority setting.</p> <p><u>Description:</u></p> <p>Plan, launch and manage both Institute Support Grants that enable Institute activities such as the development of strategic health research priorities and development of alliances, as well as competitions and programs for grant funds for both national and international partnered programs.</p>	\$28	<ul style="list-style-type: none"> Success of CIHR-funded partnership research programs including results, awareness and satisfaction levels. Number, diversity and scope of linkages, exchanges, alliances and partnerships with other organizations including health policy-makers at all levels of government (especially provincial governments) compared to baseline. Includes willingness of stakeholders to support research in Institute domains and number and size of funding flows through jointly funded partnership programs where relevant. (Common Framework 2b).
<p>2.3.1 Institute Operational Support</p> <p><u>Description:</u> Manage Institute Support Grants that enable Institute activities such as the development of strategic health research priorities and development of alliances</p>		<ul style="list-style-type: none"> Evidence of Institute's emerging leadership within the Canadian research and research user community, including examples of Institute innovation in identifying and responding to National health threats and opportunities.
<p>2.3.2 Partnership Programs</p> <p><u>Description:</u> Manage competitions and programs for grant funds for both national and international partnered programs.</p>		<ul style="list-style-type: none"> Total expenditures for research targeted to strategic areas through partnership programs. Total expenditures for partnered research by area of research.

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>2.4 Inform research, clinical practice and public policy on ethical, legal and social issues (ELSI) related to health and health research</p> <p><u>Description:</u> Undertake consultations to enable inclusive dialogue across sectors, disciplines and communities to lead to greater public engagement, improved knowledge and understanding of the ethical, legal and social issues in the context of health and health research. As well, plan, launch and manage competitions and programs for grant funds to create new knowledge and provide grant funds that enable effective insights pertaining to the ethical, legal and social issues in the context of health and health research.</p>	\$6	<ul style="list-style-type: none"> • Success of CIHR's ELSI activities, for example changes in the number of ethics-related incidents that arise from health practice, research, and policies. • Number of publications resulting from ELSI research. • Number of public policies influenced by ELSI principles • Opinions of health researchers and policy-makers regarding their success in uptake and application of new ethical knowledge.
<p>2.4.1 Consultations related to ELSI</p> <p><u>Description:</u> Undertake consultations leading to greater public engagement, improved knowledge and understanding of the ethical, legal and social issues in the context of health and health research.</p>		<ul style="list-style-type: none"> • Number of laws and public policies in health and health research informed from an ELSI perspective
<p>2.4.2 Fund ELSI research</p> <p><u>Description:</u> Manage competitions and programs for grant funds to create new knowledge and provide grant funds that enable effective insights pertaining to the ethical, legal and social issues in the context of health and health research.</p>		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded. • Total expenditures for research targeted to strategic areas pertaining to ethical, legal and social issues in the context of health and health research.
<p>3.0 Transforming Health Research into Action</p>	\$62	<ul style="list-style-type: none"> • Changes in research questions, agendas, context and methods attributable to prior CIHR-funded research (research targeting). • Changes in health practice, programs or policies attributable to prior CIHR-funded research, improvements in service delivery or health benefits attributable to prior CIHR-funded research. • Commercial activity – products (IP), companies and employment generated as a result of CIHR-funded projects • Health and educational sector labour market indicators. • Canadian quality of life and health status indicators

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>3.1 Support activities on knowledge translation, exchange, use and strategies to strengthen the health system</p> <p><u>Description:</u> Implement strategies to enable the effective dissemination, exchange, synthesis and application of health research results that will lead to improvements in the Canadian health system and improved health for Canadians. As well, manage competitions and programs for grant funds designed to create new knowledge, strengthen Canadian capacity and networks and together with our partners, undertake effective research and knowledge translation of health research.</p>	\$37	<ul style="list-style-type: none"> • Success of CIHR-funded research programs including results, awareness and satisfaction levels. • Increased number, scope and diversity of knowledge translation activities supported by CIHR (and its partners where relevant) or resulting from CIHR activities (e.g. synthesis papers, briefs, participation in policy task forces etc), compared to baseline (Common Framework 5b). • Identification of and initial communication with key knowledge translation stakeholders followed by increased number of inputs (driven by research evidence) to stakeholders' decision processes (Common Framework 5c).
<p>3.1.1 Knowledge Translation Strategy</p> <p><u>Description:</u> Implement strategies to enable the effective dissemination, exchange, synthesis and application of health research results that will lead to improvements in the Canadian health system and improved health for Canadians.</p>		<ul style="list-style-type: none"> • Percentage increase expenditures for KT activities. • Percentage increase in number of researchers incorporating KT into their research activities. • Opinions on quality of tools, programs and strategies implemented to support KT.
<p>3.1.2 Knowledge Translation Funding Programs</p> <p><u>Description:</u> Manage competitions and programs for grant funds designed to create new knowledge, strengthen Canadian capacity and networks and together with our partners, undertake effective research and knowledge translation of health research.</p>		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded. • Total expenditures for research targeted to strategic areas pertaining to KT.

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>3.1.3 Networks of Centers of Excellence Grants Program</p> <p><u>Description:</u> Provide grant funds to support the best NCE applications in areas of health research. NCE's are partnerships among universities, industry, government and not-for-profit organizations aimed at turning Canadian research and entrepreneurial talent into economic and social benefits for Canada. They are nation-wide, multi-disciplinary and multi-sectoral partnerships that connect excellent research with industrial know-how and strategic investment.</p>		<ul style="list-style-type: none"> • Number and diversity of partnerships and networks in health domains. • Distribution of partners by province, institution, discipline and sector.
<p>3.2 Support National efforts to capture the economic value for Canada of health research advances made at Canadian institutions</p> <p><u>Description:</u> Implement strategies to enable the effective development and commercialization of health research that will lead to a better quality of life for Canadians through improvements in the Canadian health system, products and economy. As well, plan, launch and manage competitions and programs for grant funds to create and transfer new knowledge, strengthen Canadian capacity and networks and undertake effective commercialization of health research.</p>	\$25	<ul style="list-style-type: none"> • Success of CIHR-funded research programs including results, awareness and satisfaction levels. <p>Number and nature of patents, spin-off companies and licenses for intellectual property (IP) generated from CIHR funded research.</p>
<p>3.2.1 Commercialization Strategy</p> <p><u>Description:</u> Implement strategies to enable the effective development and commercialization of health research leading to a better quality of life for Canadians through improvements in the Canadian health system, products and economy.</p>		<ul style="list-style-type: none"> • Percentage increase expenditures for health research commercialization activities. <p>Opinions on quality of tools, programs and strategies implemented to support commercialization.</p>

Canadian Institutes Health Res. (CIHR) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
<p>3.2.2 Commercialization Funding</p> <p>Programs</p> <p><u>Description:</u> Manage competitions and programs for grant funds to create and transfer new knowledge, strengthen Canadian capacity and networks and undertake effective commercialization of health research.</p>		<ul style="list-style-type: none"> • Proportion of fundable applications received by CIHR that are funded. <p>Total expenditures for research targeted to strategic areas pertaining to commercialization.</p>

Canadian Space Agency (CSA)	
Program Activity (planned for 2005-2006)	
Space Based Earth Observation	\$145M
Space Science and Exploration	\$157M
Satellite Communications	\$ 34M
Space Awareness and Learning	\$ 6M
Budgetary Main Estimates for 2005-06	\$342M

Canadian Space Agency (CSA) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
A. Space Based Earth Observation (EO)	\$145	# of RADARSAT operational users and applications in Env/Res/Land/Secur. # active missions supported by Canada in Env/Res/Land/Secur. Growth in Fed budget for space sciences # annual hit on Canadian Geospacial Data infrastr. Re: CSA-sponsored missions
A.1 EO Enabling Research		
A.1.1 EO Mission concept (expected result= studies by ind/gvt/aca enabling CSA decisions on future EO space missions of interest for Canada)		Feasibility studies and missions studies (target=1) New missions developed (Target=1)
A.1.2 ESA Programs in EO (expected returns=successful development & demonstration of advanced tech/syt/studies for contracts awarded to CND firms for EO optional programs)		CND industrial returns in ESA optional pgms in EO (target=80+%)
A.1.3 Science prgs for EO (expected returns=advance understanding and scientific knowledge of atmospheric environment)		# Scientific public. /reports/conference proceed. acknowl. CSA funding (50) # Highly Qualified Personnel (HQP) involved in the program (t=130) # operating or approved space science research missions (6) # scientific research projects supporting the development of future space science research missions (5) # scientific presentations (100) # research partnerships (nationally and internationally) (5) # awards granted under Space Science Grants and Contributions Pgm (5)
A.1.4 Application Development pgms (expected returns=increase used of EO data in public and private sectors with development and demo of application)		# of new EO applications operationally used (20) # of new field of applications using EO data (8)
A.2 EO Space Mission Development		
A.2.1 E.O Projects (expected result= EO projects' deliverables meet mission obj and user expectations)		Safety and Mission Assurance requirements are identified Mission objectives and user requirements are met at critical steps of the projects Project cost is maintained within authorized levels (75% on time and on budget) Risks are identified and mitigated for each project (75+% of budget used)

Canadian Space Agency (CSA) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
A.3 EO Space Mission		
A.3.1 EO Mission operation		System performance, as per mission requirements and resources Volume of data acquired or delivered as per mission requirements and resources
B Space Science and Exploration (SE)	\$157	# missions over the next three years in international participation Rate of successful missions # peer-reviewed papers over the next three years published in world-class scientific journals as a result of the CSA's participation in international missions
B.1 SE Enabling Research		
B.1.1 SE Mission Concepts (expected result= Mission Feasibility/ Concept studies by ind., gvt and univ, enabling CSA decisions on future SE space missions of interest to Canada)		Feasibility studies/mission-payload concept studies initiated and completed (1) New Missions developed and successfully retained for implementation (1).
B.1.2 ESA Programs in SE (expected returns=successful development & demonstration of advanced tech/syt/studies for contracts awarded to CND firms)		CND industrial returns in ESA optional pgms in EO (target=80+%)
B.1.3 SE Programs (expected returns=advance understanding and scientific knowledge of atmospheric environment)		# Scientific public. /reports/conference proceed. acknowl. CSA funding (200) # Highly Qualified Personnel (HQP) involved in the program (t=470) # operating or approved space science research missions (20) # scientific research projects supporting the development of future space science research missions (60) # scientific presentations (400) # research partnerships (nationally and internationally) (60) # awards granted under Space Science Grants and Contributions Pgm (11)
B.1.4 Human Space Flight Expertise		Cdn astronauts are qualified on all flight vehicles (4 on Shuttle, 2 on Soyuz and 1 on ISS) Cdn astronauts are recruited according to recruitment plan. # of space flights and missions in which Cdn Astronauts participate. (1).
B2 SE Space Mission Development		
B.2.1 SE Projects (expected result= SE projects' deliverables meet mission obj and user expectations)		Safety and Mission Assurance requirements are identified Mission objectives and user requirements are met at critical steps of the projects Project cost is maintained within authorized levels (75% on time and on budget) Risks are identified and mitigated for each project (75+% of budget used)
B3 SE Space Mission Operations		

Canadian Space Agency (CSA) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
B.3.1 International Space Station (ISS) (expected result=CSA robotics operations and engineering services meet ISS Pgm (ISSP) and Cdn Space Station Pgm (CSSP) stakeholders' expectations in accordance with Inter Governmental Agreement (IGA) and the Memorandum of Understanding with NASA		% of active participation of the CSSP team in the various multi-lateral boards and panels managing the ISSP (95 %) Rate of availability of Ops Centre (99 %) Rate of training delivered vs. training requested (95 %) % of MSS system(s) and operational support availability for planned and unplanned events (95 %) % of software and flight products delivered as required/scheduled (95 %) Rate of payload operational support availability for planned and unplanned events (100 %)
B.3.2 SE Mission Operations (exp. Result= SE Space Mission Operations meet mission objectives and user/client expectations		Sponsoring organisation's requirements for payload projects are met at critical steps of the operation (100 %).
B.3.3 : Human Space Flight Missions Support (Ensure and maintain Canadian Astronauts' health and safety for space flight missions		# activities targeted at maintaining Astronauts' Health and Safety (Target: 2) % of participation in ISS medical boards, panels and working groups (100 %)
C Satellite Communications (RPP05-6:04/05: \$50M) (1 Increased access for Canadians to state-of-the-art communications systems and services to meet their social and economic needs;) (2.Better use of space communications, search and rescue, and global navigation satellite systems and applications to improve the efficiency and effectiveness of other government departments in delivering services to Canadians.)	\$34	Gap (in MHz or MBytes) between current capabilities and future needs of Canadians for satellite communications and the available or expected system's capacity. Usable operational capacity (in MHz or MBytes) of satellite and ground systems in place. % of coverage over Canada by satellite and ground systems in place. Utilisation rate of Anik-F2 Ka-band payload and in particular of the payload government services credits. # joint studies and projects between the CSA and other government departments in the field of satellite communications, navigation and search and rescue
C.1 SC Enabling Research		
C.1.1 SC Mission Concepts (Mission Feasibility and Concept Studies by industry, government and academia, enabling CSA decisions on future Satellite Communications' space missions of interest to Canada)		Feasibility Studies/ Mission-Payload Concept Studies initiated and completed (1) New missions developed and successfully retained for implementation (Target: 0 for 2006-2007)
C.1.2 ESA Programs in SC (Successful development & demonstration of advanced tech/syt/studies for contracts awarded to CND firms)		Canadian industrial returns in ESA optional programs in Satellite Communications. (Target: 80+ %)
C.1.3 SC Application Development Programs (Development and demonstration of SC Applications for private and public sector clientele and the support and development of ground-segment telecommunication technologies.		# new or improved applications (Target: 0) # operational engagements (Target: 0)
C.2 SC Space Mission Development		

Canadian Space Agency (CSA) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
C.2.1 SC Projects (SC projects' deliverables meet mission obj and user expectations)		Safety and Mission Assurance requirements are identified Mission objectives and user requirements are met at critical steps of the projects Project cost is maintained within authorized levels (75% on time and on budget) Risks are identified and mitigated for each project (75+% of budget used)
C.3 SC Space Mission Operations		
D Space Awareness and Learning (RPP05-6:04/05: \$11M) (1. Increased public awareness of Cnd's activities in space and space benefits positively affecting the quality of life of Canadians.) (2. Targeted audience is reached through outreach activities)	\$6	Awareness of Canadians measured by telephone survey every three years Number of persons from the targeted audiences reached
D.1 Space Awareness		
D.1.1 Strategic Communications (Targeted audience is reached through outreach activities)		# of persons from the targeted audiences reached
D.1.2 Sector communications		nil
D.1.3 Media Relations and Information Services		Quantity of media initiatives that resulted in coverage, particularly in television Number of Canadian hits in CSA website
D.1.4 Creative Services, Marketing and Exhibitions (Target audience has access to information through products and publications and outreach activities with partners (conferences and fairs).		# products and publications distributed through different communications channels. # persons from targeted audiences having access to information
D.1.5 Astronaut Awareness Tours (Canadians are reached by awareness activities conducted by a Canadian Astronaut)		# participants reached/astronaut days invested. # events/astronaut days invested Type of clientele reached vs. type of clientele targeted Satisfaction level for message received Satisfaction level for message transmitted.
D2 Space Learning		
D2.1 Space Learning Program E. Canadian educators and students further their learning related to S&T through space theme) (2. Enhance expertise of Canadian scientists, engineers and physicians in space science, space technology and space medicine through the learning components of the CSA Grants and Contributions Program		# educators reached through professional development initiatives # students reached through learning activities # participating educators incorporating space into their learning environment # resources accessed by educators. # students, fellows and medical residents supported through the Program (Target: 22). Complementary indicators - # students and fellows supported through the program who will successfully complete their studies (%) - # supported students and fellows who find a space-related job (%)

Canadian Space Agency (CSA) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
E Generic Space Activities in support of EO, SE, and SC (GSA) (Innovative space technologies, techniques, and design and test methodologies in response to advanced developments required for future Canadian space missions and activities)	Included in other PA	# technologies supported through one of the R&D programs that are used in a space mission or activity # of space missions making use of the DFL # peer-reviewed papers as a result of CSA technology R&D programs
E.1 Enabling Research – Generic Space Activities in support of EO, SE, and SC		
E.1.1 Generic Space Technology Supporting EO, SE, and SC (1. Development and transfer of advanced space technologies by industry, government and academia, in support of EO, SE, and SC activities of interest to Canada) (2. Successful development and demonstration of advanced technologies, systems, components or studies provided for in the contracts awarded to Canadian firms under ESA Programs) (3. Increased number of university scientists and engineers with Ph.D's and/or Master's degrees with research experience addressing real space problems faced by industry and/or government institutions)		# of publications # of patents # technologies brought to higher readiness levels to advance technological capacity # of technologies chosen for future space missions and/or commercial products by industries Overall Canadian industrial return in ESA mandatory programs (General Budget, GSTP) (Target: 80 % or higher). . Number of partnership projects involving industry, universities and the CSA (Target: 3).
E.2 Space Mission Development – Generic Space Activities in support of EO, SE, and SC		
E.2.1 David Florida Laboratory (DFL) supporting the Canadian Space Program		

Defence Research and Development Canada (DRDC)

Funding Programs:

Applied Research Program	\$156M
Technology Demonstration Program	\$81M
Technology Investment Fund	\$10M
Defence Industrial Research Program	\$16M
Providing Scientific Analysis and Advice	\$45M
Budgetary Main Estimates for 2005-06	\$307M

Defence R&D Canada (DRDC) PERSPECTIVE	Investment (\$M)	Results Indicators
Customer (Goals: Be Critical to National Defence & Security; Meet our customers' needs)	n.a.	<ul style="list-style-type: none"> • Annual subjective assessment by senior management • Ability to support the requirements of the CF ten years into the future.
Value for Money (Goals: Be recognised as creating great value; Augment our scientific capacity)	n.a.	<ul style="list-style-type: none"> • Value of in-kind contributions • Number of print articles that mention DRDC • Funding over A-base • Value of external revenues
Internal (Goal: Excel in service delivery)	n.a.	<ul style="list-style-type: none"> • Percentage of projects meeting milestones • Fragmentation of effort – Percentage of S&T workers assigned to more than 4 projects
Foundation (Goals: Foster high-impact teams; Renew our infrastructure; Nourish a supportive workplace)	n.a.	<ul style="list-style-type: none"> • Percentage of projects using inter-disciplinary teams • Effectiveness of information technology • Average number of sick days per person per year • Training expenditures as a percentage of SWE • Number of grievances and appeals on workplace issues

INDUSTRY CANADA

Industry Canada Program activity architecture (PAA) according to RPP 2005-06:

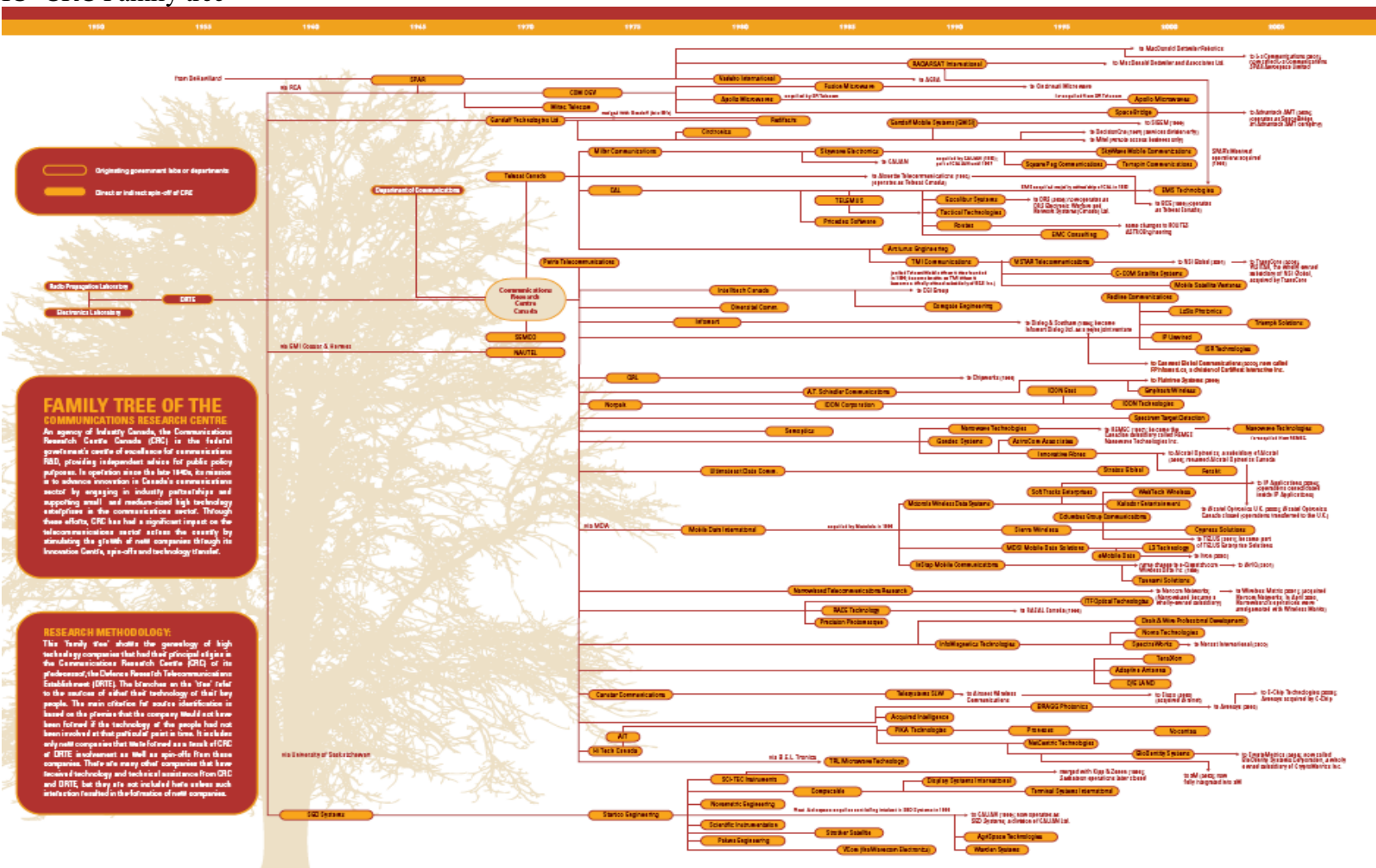
A fair, efficient and competitive marketplace	\$214
An innovative economy	\$438
Competitive industry and Sustainable communities	\$906
Budgetary Main Estimates for 2005-06	\$1,519

In the program activity " An Innovative Economy" the following R&D programs are included:

Industry Canada (IC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
D-2 Communications Research Centre Canada (5)	\$49	<ul style="list-style-type: none"> • Number of Scientific publications • Number of Patents • Number of Research Partnerships • Contracted R&D • Number of IP Licences
D-3 Communications Research Centre Canada - Wireless and Photonics Research (5a)		<ul style="list-style-type: none"> • IC-CRC participation on Industry Canada, national and international standards, policy and regulatory committees as technical experts • IC-CRC participation in industry Canada and other government industrial support programs as technical experts • Number of scientific publications, reports, patents and technical demonstrations • Number of industrial partnerships and technology transfer activities • Number of academic collaborations
D-3 Communications Research Centre Canada - Defence R&D (5b)		<ul style="list-style-type: none"> • Technologies are adopted that enhance or provide new capabilities for CF operations • Number of technology demonstrations and project reports • Leadership of and participation in projects involving Allied defence organizations
D-3 Communications Research Centre Canada - Research Support (5c)		<ul style="list-style-type: none"> • Industrial partnerships and revenue resulting from CRC's intellectual property portfolio as well as communications of its technical capabilities
CANARIE		<ul style="list-style-type: none"> • Number of institutions connected • \$ invested annually.

Industry Canada (IC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
Precarn		<ul style="list-style-type: none"> • Number of projects funded and \$ involved.
Technology Partnership Canada	\$341	<ul style="list-style-type: none"> • Number of projects (which represents the number of strategic partnerships).
TPC R&D Program		<ul style="list-style-type: none"> • Dollars of total innovation spending leveraged per dollar of TPC investment. • Actual number of new jobs created and/or maintain. • Repayment amount relative to TPC Business Plan target. • Number of projects funded • \$ value of projects funded
TPC - h2 Early Adopters Program		<ul style="list-style-type: none"> • Number of participants involved in demonstration projects. • Dollars of total innovation spending expected, leveraged per dollar of TPC investment. • Leverage of private sector R&D investment. • Number of projects funded • \$ value of projects funded

IC- CRC Family tree



Legend:

- Orange box: Originating government lab or department
- Yellow box: Direct or indirect spin-off of CRC

FAMILY TREE OF THE COMMUNICATIONS RESEARCH CENTRE

An agency of Industry Canada, the Communications Research Centre Canada (CRC) is the federal government's centre of excellence for communications R&D, providing independent advice for public policy purposes. In operation since the late 1940s, its mission is to advance innovation in Canada's communications sector by engaging in industry partnerships and supporting small and medium-sized high technology enterprises in the communications sector. Through these efforts, CRC has had a significant impact on the telecommunications sector across the country by stimulating the growth of new companies through the Innovation Centre, spin-off and technology transfer.

RESEARCH METHODOLOGY:

This Family Tree shows the genealogy of high technology companies that had their principal origin in the Communications Research Centre (CRC) or its predecessor, the Defence Research Telecommunications Establishment (DRTE). The branches on the 'tree' refer to the creation of related high technology of their own people. The main criterion for source identification is based on the premise that the company would not have been formed if the technology of the people had not been involved at that point or point in time. It includes only real companies that have formed as a result of CRC or DRTE involvement as well as spin-offs from those companies. There are many other companies that have become technology and technical assistance from CRC and DRTE, but they are not included here unless such interaction resulted in the formation of real companies.

National Research Council Canada (NRC)

Using the RPP for 2005-06:

Research and Development	\$434M
Technology and Industrial Support	\$207M
Budgetary Main Estimates for 2005-06	\$642M

National Research Council (NRC) Strategic Outcome	Investment (\$M)	Results Indicators
OUTSTANDING PEOPLE – OUTSTANDING EMPLOYER	n.a.	<ul style="list-style-type: none"> • Total Visiting Workers (in FTEs) • Total Visiting Workers (in persons) • Total Supervised Grad Students (in FTEs) • Total Supervised Grad Students (in persons) • Total Non-Grad/Coop Students (in FTEs) • Total Non-Grad/Coop Students (in persons) • Total Research Officers (in FTEs) • Total Research Officers (in persons) • Total Research Associates (in FTEs) • Total Research Associates (in persons) • Total Post-Doctoral Fellows (in FTEs) • Total Post-Doctoral Fellows (in persons) • Total Women in Science and Engineering (in persons) • Number of External Awards • Number of Internal Awards
EXCELLENCE AND LEADERSHIP	n.a.	<ul style="list-style-type: none"> • Total Papers in Refereed Journals • Total Papers in Refereed Conference Proceedings • Total Technical Reports • Other Types of Publications • Number of Adjunct Professorships • Total Number and • Total Dollar Value of Grants • Number of Journal Editorships • Total Invited Presentations • Total Participation in National Committees • Total Number External Conferences/Workshops/ Seminars Organized • Total Number External Multi-researcher networks/centres of excellence
TECHNOLOGY CLUSTERS	n.a.	<ul style="list-style-type: none"> • Total Number of Co-locators and IPF Tenants During the Fiscal Year • IPF Space Available • IPF Space Occupied • Number of Graduated Tenants/Co-Locators

National Research Council (NRC) Strategic Outcome	Investment (\$M)	Results Indicators
GLOBAL REACH	n.a.	<ul style="list-style-type: none"> • Number of International Conferences and Workshops Organized or Sponsored • Total Participation in International Committees • Number of Foreign Delegations Received • Total International Conferences with I/P Representation • Total Number of Formal Collaborations-International Partners (Multinational or Foreign Organizations) • Total Value of International Formal Collaborative Agreements • Number of Multinational/Foreign Industrial Partners with Formal Collaborative Agreements • Number of Multinational/Foreign Public Organizations with Formal Collaborative Agreements • Number of Multinational/Foreign Universities with Formal Collaborative Agreements • Total Number of International Collaborative Agreements Signed During the Year • Total Value of International Collaborative Agreements Signed During the Year • Cash Contributions of Partners to International Collaborative Agreements Signed During the Year • In-Kind Contributions of Partners to International Agreements Signed During the Year • NRC Gross Contribution to Agreements signed during the Year • Leverage Impact of NRC's Investment Internationally

National Research Council (NRC) Strategic Outcome	Investment (\$M)	Results Indicators
VALUE TO CANADA		<ul style="list-style-type: none"> • Number of Spin-Offs Formed During the Year • Number of Spin-Ins Formed During the Year • Total Value of Canadian Formal Collaborative Agreements • Total Number of Formal Collaborations with Canadian Partners • Number of Canadian Industrial Partners with Formal Collaborative Agreements • Number of Canadian Public Organizations with Formal Collaborative Agreements • Number of Canadian Universities with Formal Collaborative Agreements • Total Number of Canadian Collaborative Agreements Signed During the Year • Total Value of Canadian Collaborative Agreements Signed During the Year • Cash Contributions of Partners to Canadian Collaborative Agreements Signed During the Year • In-Kind Contributions of Partners to Canadian Agreements Signed During the Year • NRC Gross Contribution to Agreements signed during the Year • Leverage Impact of NRC's Investment Nationally • Total Number of Active Patents In Portfolio • Number of Patent Applications • Total Number of Patents Issued • Total Number of Patents Issued in Canada • Total Number of Patents Issued in U.S. • Number of Licences Issued • Total Licensing Revenue From Intellectual Property • Total Number of Material Transfer Agreements • Total number of new products and processes • Number of Fee-For-Service Clients • Number of Highly Qualified Personnel (HQP) to Industry • Number of Highly Qualified Personnel (HQP) to Universities • Number of Highly Qualified Personnel (HQP) to Public Organizations • Number of Highly Qualified Personnel (HQP) to Spin-offs/Spin-ins

Note: NRC will have a PAA by 2007-08.

Natural Resources Canada (NRCan)

Program Activity (planned for 2005-2006)

Earth Sciences	\$209M
Energy	\$671M
Forest	\$163M
Minerals and Metals	\$68M
Budgetary Main Estimates for 2005-06	\$1,109M

NRCan PAA (note: only activities with R&D result indicators are shown)

NRCan	Investment (\$M)	Results Indicators
NRCan	n.a	<ul style="list-style-type: none"> Recent reviews (e.g., expert/peer reviews, in-house assessment, international review, stakeholder input etc.); Bibliometric data (e.g., number of publications in international scientific journals/conference proceedings, number of presentations, etc); Patents issued/pending, licensing, technology transfer, or other commercialization data e.g., royalties received, willingness of the clients to share costs, number of spin-off companies, increase in sales or jobs; Significant prizes, award and recognition; Benchmarking, satisfaction and impact analysis (e.g., case-studies, client satisfaction surveys, % of clients satisfied; % of program outputs/outcomes on time, on target, within the budget; etc.
1.Earth Science		
1aa Earth Sciences for Sustainable Resource Development		<ul style="list-style-type: none"> Scope of partnerships, product access and download rates, repeat usage, investment impact and social-economic impact.
1aa-3 Sustainable Development through Knowledge Integration		<ul style="list-style-type: none"> Publication after undergoing expert review and, subsequently, citations of work
1aa-4 Geomatics for Sustainable Development of Natural Resources		<ul style="list-style-type: none"> Canadian coverage and on-line availability
1ad Earth Sciences for Strong and Safe Communities		<ul style="list-style-type: none">
1ad-1 Natural Hazards and Emergency Response		<ul style="list-style-type: none"> Compliance with published services standards. Detailed hazard assessments published.
1ah-1 Climate Change Impacts and Adaptation		<ul style="list-style-type: none"> Number of research reports and datasets and topics addressed. C-CIARN reports on gaps and research needs. Number of researchers trained in workshops and events; number of students involved in projects
2. Energy		
2.b-1 Electricity Resource Policy		<ul style="list-style-type: none"> Legislation/regulations/policies prepared, approved, or in force, reports developed or issued

NRCan	Investment (\$M)	Results Indicators
<p>2e Energy S&T</p> <p>2e1- Built Environment 2e2- Power Generation 2e3- Transportation 2e4- Conventional Oil and Gas 2e5- Unconventional Oil and Gas 2e6- Industrial Sector (For all the sub-programs activities, same kind of indicators)</p>		<p>Knowledge-related outputs</p> <ul style="list-style-type: none"> • Publications • Modeling and simulation • Techniques and methods • Conceptualization • Standards, legislation, policy support • Level of uptake of new knowledge contributing to increased energy efficiency and reduced emissions from buildings and communities • Number and type of technical studies contributing to development of new and improved technologies • Number and type of cases where safe, efficient, environmental methodologies were chosen for development purposes • Number of conferences and presentations delivered to scientific community and policy community respectively <p>Technology-related outputs</p> <ul style="list-style-type: none"> • Installations • New equipment and demonstrations • Prototypes • Number of market-ready technologies developed • Number of prototypes
3. Forest		<ul style="list-style-type: none"> • Policies, knowledge, and number of science-based technologies and management strategies developed to prevent and mitigate identified forest and forest sector threats
3a. Forest Sector Economics & Policy		<ul style="list-style-type: none"> • Participation in national, regional and local level partnerships, advisory bodies and/or councils supporting the forest sector. • Extent to which information and estimates on forest carbon stock changes are more precise, more defined and more complete relative to baseline information. • Social and economic information regarding the impacts of Canada's forests and the forest sector on communities.
3c Climate Change & Forest Fire Research		<ul style="list-style-type: none"> • Progress in the development and implementation of reporting processes, models and tools to measure, monitor and report Canada's forest carbon • Progress in the development of National climate change detection and prediction methodologies under various climate change scenarios • Assessments completed on the ability of forest species and ecosystems to resist, moderate, and/or recover from climate change
3d. Forest Production Research		<ul style="list-style-type: none"> • Progress in the development of pest and disease resistant trees; environmentally-safe alternatives to chemical pesticides and herbicides; and assessments of the impacts of genetically modified trees on the environment • Sustainable forestry practices, methodologies, tools and techniques that protect forest health and non-timber values by forest managers across Canada.

NRCan	Investment (\$M)	Results Indicators
3f. Forest Protection & Biodiversity Research		<ul style="list-style-type: none"> • Dissemination, analyses, and reports on the impacts and interactions of stress agents on Canada's forests health • Support in the development of policies and guidelines related to air and water quality to help offset the effects of human activities and other disturbances on forest organisms and the environment.
4. . Minerals and Metals		<ul style="list-style-type: none"> •
4c. Minerals and Metals Science and Technology		<ul style="list-style-type: none"> • Environmental impacts (e.g., effluents and greenhouse gas emissions) of these industries are reduced. The health and safety of workers and the general public are improved. • Research is conducted in cooperation with industry. • New targeted programs for deep mining and processing are developed and proposed. • The Academic User Access Facility trains highly qualified personnel in Canadian universities. • Program activity experts are invited by the Canadian International Development Agency and other organizations to advise developing countries • The number of personnel in Canada who are appropriately certified for non-destructive testing methods is maintained.
4d. Explosives Safety and Security		<ul style="list-style-type: none"> • The safety and security activities are of high quality and valued by stakeholders, as measured by: <ul style="list-style-type: none"> • - the impact of technical work on policy decisions; • - client feedback through formal surveys; • - the number of national and international standards contributed to through committees; and • - revenue from contracts with other government departments and external clients.
		<ul style="list-style-type: none"> •

Natural Sciences and Engineers Research Council (NSERC)

Program Activity (planned for 2005-2006)

PEOPLE	\$280M
DISCOVERY	\$432M
INNOVATION	\$117M
Budgetary Main Estimates for 2005-06	\$829M

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
1.0 PEOPLE	\$280	<ul style="list-style-type: none"> # of students gaining research experience and/or job training average salary of recipients vs. general population average completion rates among recipients vs. general population # of excellent researchers attracted to Canadian universities # of excellent researchers retained in Canadian universities
1.1 Promoting Science and Engineering	\$4	<ul style="list-style-type: none"> Student interest in science and research
1.2 Supporting Students and Fellows	\$124	<ul style="list-style-type: none"> # of students gaining research experience and/or job training average salary of recipients vs. general population average completion rates among recipients vs. general population
1.2.1 Undergraduate Student Research Awards	\$19	<ul style="list-style-type: none"> # of students gaining research experience and/or job training # undergraduate students motivated to pursue further studies or training extent of student interest in research among recipients
1.2.2 NSERC Postgraduate Scholarships	\$58	<ul style="list-style-type: none"> # of students gaining research experience and/or job training # masters and doctoral students motivated to pursue further studies or training average salary of recipients vs. general population average completion rates among recipients vs. general population
1.2.3 Canada Graduate Scholarships (CGS)	\$25	<ul style="list-style-type: none"> # of students completing degrees average completion rates among recipients vs. general population average time to degree completion among recipients vs. general population
1.2.4 Postdoctoral Fellowships	\$17	<ul style="list-style-type: none"> # of postdoctoral fellows gaining research experience # of postdoctoral fellows continuing on an academic path average salary of recipients vs. general population
1.2.5 Industrial Research Fellowships (IRF)	\$5	<ul style="list-style-type: none"> # of postdoctoral fellows gaining research experience in an industrial setting % of recipients intending to continue working in industry % of recipients hired by industry participant

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
1.3 Attracting and Retaining Faculty	\$144	<ul style="list-style-type: none"> • # of excellent researchers attracted to Canadian universities • perceptions of how the career development of outstanding researchers has been facilitated • # of students and postdoctoral fellows trained
1.3.1 Canada Research Chairs	\$113	<ul style="list-style-type: none"> • % of Chairs awarded to researchers from Canadian universities vs. foreign researchers and expatriates • qualitative assessment of the importance of the Chair award in the decision to accept a position in Canada and in keeping excellent researchers in Canada • # of research centres, created or expanded, in areas related to the university's strategic plan since the inception of the Canada Research Chairs program • Relative research productivity of chair holders vs. other researchers • # of students and postdoctoral fellows trained
1.3.2 Industrial and Other Research Chairs	\$28	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partners
1.3.3 Prizes	\$2	<ul style="list-style-type: none"> • perceptions of awardees on the recognition received • qualitative assessment of the impact of award on awardees • % change in research funding (pre-post award) of awardee vs. other NSERC grantees • Perceptions of research community of stature of awardees
2.0 DISCOVERY	\$432	<ul style="list-style-type: none"> • # of publications, impact factors of publications stemming from NSERC funded research • # of patents stemming from NSERC funded research • # of licences, copyrights • # of new products or processes stemming from NSERC funded research • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows gaining research experience

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.1 Funding Basic Research	\$387	<ul style="list-style-type: none"> • # of publications, impact factors of publications stemming from NSERC funded research • # of patents stemming from NSERC funded research • # of licences, copyrights • # of new products or processes stemming from NSERC funded research • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows gaining research experience
2.1.1 Discovery Grants	\$330	<ul style="list-style-type: none"> • # of publications, impact factors of publications stemming from NSERC funded research • # of patents stemming from NSERC funded research • # of licences and copyrights • # of new products or processes stemming from NSERC funded research • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows gaining research experience
2.1.2 Special Research Opportunity (SRO) Grants	\$10	<ul style="list-style-type: none"> • # of international collaborations of researchers and the industrial/ government sectors • # of continuing collaborations or collaborations on new projects with partners • perceptions of researchers regarding breakthroughs
2.1.3 Perimeter Institute2	\$5	<ul style="list-style-type: none"> • Increased visibility of Canada as a world-class destination for conducting and applying theoretical physics research. • World-class research conducted in theoretical physics/contributions toward basic research in theoretical physics in Canada • Increased support for the development of Highly Qualified Personnel in theoretical physics

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.1.4 Small University Capacity Development	\$2	<ul style="list-style-type: none"> • Amount of total research funding in NSE from all sources at funded universities • # and type of new collaborations with industrial/user sector and other partners • # of new graduate programs created • # of graduate students in science and engineering programs at funded universities • # and types of new positions created to support research capacity development
2.1.5 Research Tools and Instruments (RTI) Grants	\$20	<ul style="list-style-type: none"> • # of publications, impact factors of publication) • # of patents stemming from NSERC funded research • Licences and copyrights stemming from NSERC funded research • # of new products or processes stemming from NSERC funded research • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows gaining research experience
2.1.6 Major Facilities Access (MFA) Grants	\$22	<ul style="list-style-type: none"> • Perceived impact of national and regional research facilities on research • # of publications, impact factors of publications • # of patents stemming from NSERC funded research • Licences and copyrights stemming from NSERC funded research • # of new products or processes stemming from NSERC funded research • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows gaining research experience
2.1.7 General Support2)	\$1	<ul style="list-style-type: none"> • Perceptions of impact of miscellaneous grants on research • # of students continuing studies
2.2 Funding Research in Strategic Areas	\$56	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows trained • # of continuing collaborations or collaborations on new projects with partners

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.2.1 Strategic Projects Grants	\$51	<ul style="list-style-type: none"> • Average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of new products or processes stemming from NSERC funded research • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partner
2.2.2 Collaborative Health Research Projects (CHRP)	\$4	<ul style="list-style-type: none"> • # of continuing collaborations with CIHR researchers • # of publications, # of presentations to users/stakeholders • # of students and postdoctoral fellows gaining interdisciplinary research experience in areas of relevance to health
3.0 INNOVATION	\$117	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partners
3.1 Funding University-Industry-Government Partnerships	\$100	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partners

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
3.1.1 Collaborative Research and Development	\$39	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights • # of new products or processes • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partners
3.1.2 Research Partnerships Agreements	\$5	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights • # of new products or processes • # of policies influenced or created, stemming from NSERC funded research • # of students and postdoctoral fellows trained in area relevant to the industrial sector • # of continuing collaborations or collaborations on new projects with industry partners • perceptions of industrial and government partners of the benefits of university research • qualitative assessment of industrial and government partners regarding knowledge transfer and use of research results
3.1.3 Networks of Centres of Excellence	\$40	<ul style="list-style-type: none"> • examples of value-added to research by networking, collaboration and multi-disciplinarity • # of publications, # of presentations • # of patents, licences and copyrights • # of new companies and existing companies maintained • # of new products or processes stemming from networks • # of policies influenced or created, stemming from networks • average amount of research funds (cash and in-kind) leveraged from partners • distribution of partners by province and sector • distribution of researchers by province, institution, discipline and sector
3.1.4 Research Networks	\$16	<ul style="list-style-type: none"> • average amount of research funds and in-kind leveraged from partners • # of publications, # of presentations • # of patents, licences, copyrights, # of new products or processes • # of students and postdoctoral fellows trained in area relevant to the <u>user</u> sector • # of continuing collaborations or collaborations on new projects with <u>partners</u> • Achievement of sustainable critical mass of researchers collaborating in the research area of the Network
3.2 Commercialization Support	\$12	<ul style="list-style-type: none"> • Awareness of the user sector of NSERC commercialization support programs • # of patents, licences, copyrights, # of new products or processes

NSERC Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
3.2.1 Intellectual Property Mobilization (IPM)	\$5	<ul style="list-style-type: none"> • # of patents, licences, copyrights, # of new products or processes
3.2.2 Idea to Innovation (I2I) Program	\$6	<ul style="list-style-type: none"> • # of patents, licences, copyrights, # of new products or processes, <u>royalty revenue</u> • # of new (start-up) companies • # of continuing collaborations or collaborations on new projects with industry partners
3.2.3 College and Community Innovation Pilot Program	\$1	<ul style="list-style-type: none"> • # of local businesses working with colleges on innovation activities • # of new products, processes introduced, # of improved products process. • # of new contacts within local community • # of faculty and staff working with local businesses

Social Sciences and Humanities Research Council (SSHRC)

Program Activity (planned for 2005-2006)

People	\$ 146M
Research	\$ 139M
Knowledge Mobilization	\$ 17M
Institutional Support	\$ 260M
Budgetary Main Estimates for 2005-06	\$ 574M

Social Sciences and Humanities Research Council (SSHRC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
1.0 People	\$146	<ul style="list-style-type: none"> # of students gaining research experience and/or job training ddd
1.1 Fellowship, Scholarships and Prizes	\$89	
1.1.1 Canada Graduate Scholarships (CGS) program	\$52	<ul style="list-style-type: none"> # of fellows/scholars completing their programs by research area (social sciences and humanities) Average completion rates among recipients and general student population Average time to completion among recipients and general student population
1.1.2 Doctoral Fellowships program	\$37	<ul style="list-style-type: none"> # of fellows/scholars completing their programs Average completion rates among recipients and general student population Average time to completion among recipients and general student population # and proportion of fellows/scholars employed
1.1.3 Postdoctoral Fellowships program		<ul style="list-style-type: none"> # of fellows hired in research-related positions
1.1.4 Prizes and Special Fellowships		<ul style="list-style-type: none"> List and summary of contributions of awardees
1.2 Canada research Chairs	\$57	<ul style="list-style-type: none"> Qualitative assessment of the importance of the Chair award in the decision to accept a position in Canada and in keeping excellent researchers in Canada # of established or expanded research centres in areas related to university strategic plans since CRCP established # of HQP and researchers working in areas related to university strategic plans since CRCP established Research productivity (# of publications, # of appearances as guest speakers in national and international conferences, etc.) of chairholders compared to other researchers. # of graduate students supervised
2.0 Research: New Knowledge Based on Excellent Research in SSH (3.0 also expected to be achieved in 2.0)	\$139	<ul style="list-style-type: none">
2.1 Investigator-framed Research (theme area and subject defined by researcher)	\$84	<ul style="list-style-type: none">

Social Sciences and Humanities Research Council (SSHRC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.1.1 Standard Research Grants program (disciplinary intellectual relevance)		<ul style="list-style-type: none"> • Sample list of new and completed research projects supported • Profiles of typical new and completed research projects supported and examples of research findings arising from completed projects • # of publications by type • Profiles of other modes of dissemination (to the public, for policy and practice) • # graduate students trained through research projects • Inter-regional and international research co-publications arising from SSHRC-funded projects
2.1.2 Major Collaborative Research Initiatives		<ul style="list-style-type: none"> • Profiles of ongoing and completed initiatives and examples of research findings • # of publications by type • # of team members from outside Canada and # of international partners • Inter-regional and international research co-publications arising from SSHRC-funded projects
2.2 Targeted Research and Training Initiatives (External relevance)	\$33	<ul style="list-style-type: none"> •
2.2.1 Strategic Research Grants	\$8 (Includes 2.2.2)	<ul style="list-style-type: none"> • Examples of research findings on issues of importance to Canadians • # of partners involved in research projects • # of publications by type • Total contribution (financial and in-kind) of partners • Profiles of ongoing and completed research projects and examples of research findings • Evidence of increased level of awareness of pressing social, economic and cultural issues
2.2.2 Strategic Joint Initiatives		<ul style="list-style-type: none"> • List of SSHRC partners and total partner financial contributions over time, by program • # of partners involved in research projects and total contribution • Profiles of ongoing and completed research projects and examples of research findings • Perceptions of partners about relevance of knowledge generated • # and reach of various public dissemination activities (e.g. media interviews, newspaper articles, Web sites, etc.) • # of publications by type
2.2.3 Initiative on the New Economy (INE)	\$21	<ul style="list-style-type: none"> • Profile of ongoing and completed research projects and examples of research findings • # of publications by type • # and reach of various public dissemination activities (e.g. media interviews, newspaper articles, Web sites, etc.) • Perceptions of Canadian and foreign scholars/ decision-makers

Social Sciences and Humanities Research Council (SSHRC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
2.2.4 The Social Economy Suite	\$3	<ul style="list-style-type: none"> • Profiles of funded research projects and examples of research findings • # of publications by type • # and reach of various public dissemination activities (e.g., media interviews, newspaper articles, Websites, etc...) • Perception of Canadian and foreign scholars/decision-makers • Examples of policies developed and of performance improvements within organizations of the social economy
2.3 Strategic Research Development	\$23	•
2.3.1 Research Development Initiatives (RDI)		<ul style="list-style-type: none"> • Examples of outcomes of RDI grants • # of SSHRC grant applications arising from research supported under the RDI program
2.3.2 Community-University Research Alliances (CURA)		<ul style="list-style-type: none"> • Profiles of ongoing and completed projects and examples of research findings and of reinforced decision-making capacity (at end of grant periods – see note 7) • # of publications by type • # and reach of knowledge mobilization activities • Perceptions of participating community organizations
2.3.3 SSHRC institutional Grants (SIG) program		<ul style="list-style-type: none"> • # of researchers supported within each institution • # of new researchers funded • # of student's and researchers supported for travel (i.e. for research, networking and/or dissemination activities),
2.3.4 Aid to Small Universities (ASU) program		<ul style="list-style-type: none"> • Profiles of research strengths developed in small universities
2.3.5 General Support		<ul style="list-style-type: none"> • Examples and profiles of projects and initiatives funded
3 Knowledge Mobilization: The Transfer, Dissemination and Use of SSH	\$17	•
3.1 Research Communication and Interaction		•
3.1.1 Aid to Scholarly Publications Program (ASPP)		<ul style="list-style-type: none"> • Highlight of impacts of program in various disciplines
3.1.2 Aid to Research Workshops and Conferences in Canada		<ul style="list-style-type: none"> • Variety of participants; media coverage, etc. • # of disciplines covered by conference topics; # of disciplines, institutions, sectors, regions and countries represented by participants in supported conferences
3.1.3 Aid to Research and Transfer Journals program		<ul style="list-style-type: none"> • # of subscribers by type (i.e. Canadian, foreign, students, etc.) and estimate of overall readership

Social Sciences and Humanities Research Council (SSHRC) Strategic Outcome/Program Activity	Investment (\$M)	Results Indicators
3.1.4 Attendance grants to scholarly associations program		<ul style="list-style-type: none"> Qualitative assessment of the linkages taking place at AGMs and annual conferences
3.1.5 Strategic Research Clusters Design Grants		<ul style="list-style-type: none"> Examples of new programs (i.e. clusters) created and/or of improvements to existing programs
3.1.6 Networks of Centres of Excellence		<ul style="list-style-type: none"> examples of value-added to research by networking, collaboration and multi-disciplinarity # of publications, presentations # of new companies and existing companies maintained # of new products, programs, services and processes stemming from networks impact of the use of research findings and/or network expertise on national and international practices, policies, and procedures impact on public understanding and discourse average amount of research funds (cash and in-kind) leveraged from partners distribution of partners by province and sector distribution of researchers by province, institution, discipline and sector # of joint authorship publications
4. Institutional Support: A Strong Canadian Research Environment	\$260	<ul style="list-style-type: none">
<ul style="list-style-type: none"> 4.1 Indirect Costs of Research 	<ul style="list-style-type: none"> \$260 	<ul style="list-style-type: none"> Qualitative description of the adequacy and condition of the research facilities Qualitative description of contributions of the program to the provision of research resources # of applications to granting agencies Qualitative description of the program's contributions to the management and administration of the research enterprise Status of compliance with the ethics policies of federal granting agencies, the Canadian Council of Animal Care, and the American Veterinary Medical Association Qualitative description of how the program helped the recipients meet the regulatory and accreditation requirements Qualitative description of the program's contributions to the transfer of knowledge, including public dissemination, and commercialization and management of the intellectual property generated by the research activities