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# Indirect Costs Outcomes Report

File Number

P0078

## Section I - Facilities

### Expenditures

#### Was your grant invested, completely or partially, in any of the following ways?

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new Expenditures, you would check both A or B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2014-2015 grant invested?
1. Renovation and maintenance of research facilities (excluding expenditures incurred to meet regulatory requirements - see Section IV)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Upgrade, operations and maintenance of equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Operating costs (custodial, security, maintenance, utilities, leasing, capital planning, insurance on research space)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Technical support for laboratories, offices and other facilities (excluding technical support for animal care - see section IV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

# Indirect Costs Outcomes Report

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## Section I - Facilities (continued)

### Impact Statement

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#### Impact Statement

A portion of the ICP grant was allocated to the Physical Plant office for research laboratory and facility maintenance. Personnel were dedicated specifically to maintain the research facilities housed in the Richardson College for the Environment and Science Building (RCFE).

A model of green building technology, constructed to a LEED (Leadership in Energy and Environmental Design) Silver Standard, the 150,000 square foot RCFE is one of the most energy efficient educational laboratory buildings in North America. It uses approximately half the energy of a conventional building. The RCFE consists of more than 30 research and teaching labs, including a vivarium, and a 1,127 square foot rooftop greenhouse.

ICP funds were used partially for maintenance such as painting, plumbing and electrical, and also for renovations and fine-tuning environmental systems. These were completed as required. In addition, a portion of the funds was used to offset the operating costs of research facilities throughout the university. Expenses such as utilities, custodial costs, and insurance were covered by the grant.

Our Health and Safety Specialist and Lab Safety Officer looked after the necessary requirements for facilities in order for our investigators to conduct research in a healthy and safe environment. This has been extremely beneficial in maintaining state-of-the-art facilities, enabling researchers to conduct research under safe conditions and minimizing risks.

The University of Winnipeg Technology Solutions Centre (TSC) has a position dedicated to the maintenance of research scientific equipment supported by the ICP. TSC is responsible for information technology-related matters. This technical support has been essential to keeping the research infrastructure operating efficiently. TSC is traditionally a very busy office on campus, and this research-specific position enables a fast response from in-house service to get research which might be delayed from technical difficulties back up and running. We continued to use ICP funds to work with TSC to maintain an improved grant-tracking and reporting system, which was successfully implemented in 2012-13 (Phase 1).

The resulting efficiency and reliability of this system allows the University to direct more of its resources towards expanding our research program. It also contributes to the University's commitment to sustainability in research by reducing or eliminating paper-based applications and records. The University is currently investigating options for linking the grant-tracking and our financial reporting systems to provide greater efficiency and accountability.

ICP funds contribute to the maintenance and upkeep of the University website, which provides up-to-date information for researchers on funding opportunities, research administration, available resources, and the highlights and initiatives of our research community.

The funds contributed towards the completion of the Knowledge Mobilization Lab. The Knowledge Mobilization Lab is a facility specializing in research communication, visualization and storytelling using digital video, cartography, animation, websites, apps, and other multi-media tools. The lab is overseen by Dr. Ian Mauro, an award winning



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## Section II - Research Resources

### Expenditures

**Was your grant invested, completely or partially, in any of the following ways?**

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A or B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2014-2015 grant invested?
1. Acquisition of library holdings (journals, books, collections, periodicals, Canada National Site Licensing project, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Improvements to electronic information resources (access to databases, telecommunications systems, information technology systems, and research tools) (excluding technology to track grants and to provide financial services - see Section III)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Library operating costs and administration (custodial, security, maintenance, utilities, leasing, capital planning, staff salaries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Insurance on research equipment and vehicles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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### Section II - Research Resources (continued)

#### Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- what proportion of the acquisitions and operating budget of the library is covered by the Indirect Costs Program?
- do you participate in inter-institutional consortia or partnerships to assist in cost reduction in this expenditure category?

The Library used funds for a number of expenses, such as database licences, monographs, serials, and media, which are vital for the research community. Databases give University researchers access to journals and publications necessary for their research, and continuous additions to the Library's resources are proportionately a major indirect cost of research. Having these databases and resources readily available for researchers has enabled them to acquire relevant and up-to-date information in an easily accessible format, efficiently moving their research forward. This measure continues to be a significant contributing factor in the retention of faculty and attracting students. The Indirect Costs funding has also enabled us to increase subscriptions accordingly. The Library Acquisitions staff spent a portion of their time dedicated to acquiring material related to research endeavours. In particular, for higher-level research, three staff members are dedicated to acquiring resources through inter-lending with other institutions with more advanced graduate research programs, and a portion of their salary as well as the operating costs are covered by the ICP grant.

The funding also makes currency fluctuations and annual increases to database costs easier to manage. The databases increase each year on average anywhere from 2%-5% plus tax. Some of the databases are sub-scribed to multi-year license agreements allowing the Library to receive discounts.

The University recently acquired a licence for Qualtrics, which is web-based, research survey software that offers many advanced, but user-friendly features. Qualtrics enables users to do surveys, feedback and polls using a variety of distribution means. Our faculty have expressed high satisfaction with this enhanced research support.

Necessary insurance was taken out on research equipment such as vehicles (trucks, boats) and specialized research equipment. The off-site storage of this seasonal equipment was also an expense covered by the grant, and additional facilities were leased to accommodate an increased demand for storage.

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## Section III - Management and Administration

### Expenditures

**Was your grant invested, completely or partially, in any of the following ways?**

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A and B).

Expenditure category	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2014-2015 grant invested?
1. Institutional support for the completion of grant applications / research proposals.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Acquisition, maintenance and/or upgrade of information systems to track grant applications, certifications, and awards.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Eligible training of faculty and research personnel (excluding training to meet regulatory requirements - see Section IV)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Human resources and payroll	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Financial and audit costs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Research planning and promotion, public relations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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### Section III - Management and Administration (continued)

#### Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- do you participate in inter-institutional consortia or partnerships that assist in cost reduction in this expenditure category?

Funds from the ICP facilitated the costs related to software licensing and supplementary in-house development and implementation of the WebGrants grant-tracking and ethics application software. Considerable human resources involving TSC, faculty, research office staff and senior administrative personnel continued to be devoted to the successful implementation of this software. This enhancement of our grant and ethics application business processes results in more efficient service to our researchers, improved tracking and budgeting capability both for researchers and support personnel, and a significant move toward more sustainable operation of the research enterprise.

Four full-time employees were devoted to the management and administration of research activities at The University of Winnipeg.

The ICP covered a portion of the day-to-day operations of the Research Office. Funds supported various workshops and seminars to faculty, students, and staff in areas such as funding opportunities, grantsmanship, ethics, showcasing researchers, and lectures.

The funds are also directly supporting the costs of a part-time University Veterinarian and contracted support of a Commercialization and Intellectual Property expert.

There were a number of support bodies that the ICP Grant funds went towards, particularly through memberships to ProQuest, the Canadian Association of University Research Administrators (CAURA), The Canadian Federation for the Humanities, and the Shastri Indo-Canadian Institute. These organizations helped the Research Office disseminate important external funding information and opportunities and provided employees with valuable administrative information.

Ongoing memberships have also enabled the Research Office to stay abreast of policy updates and developments in local, national, and international research.

ICP funding supported the costs associated with highlighting the research community at The University of Winnipeg. An additional Senior Grant Accountant, working part-time, was hired and the two Senior Grants Accountants' salaries are derived from a portion of the Financial Services share of ICP funds, along with salaries of staff in Accounts Payable and Purchasing. The Human Resource functions include payroll, salary, and benefits administration, as well as Audit and Health and Safety services. These administrative positions contributed a portion of their time to research support and are funded in part by the Indirect Cost Program grant. The ICP grant also covered external audit fees when they related to research. All of these positions provide vital administrative and advisory support to our researchers.

As the university's research funding in the past decade has risen from \$2.5 million to \$7.5 million, the University of Winnipeg is striving to build support for the research office.



**Section IV - Regulatory Requirements and Accreditation**

**Expenditures**

**Was your grant invested, completely or partially, in any of the following ways?**

Note that A and B are not exclusive (i.e. for any given category, if you have covered both existing and new expenditures, you would check both A and B).

<b>Expenditure category</b>	A) The grant covered existing expenditures	B) The grant covered new expenditures (not previously covered by grant)	C) The grant did not cover this category	In which category was the largest proportion of your 2014-2015 grant invested?
1. Creation and support of regulatory bodies	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Training of faculty and other research personnel in health and safety, animal care, ethics review, handling radiation and biohazards, and environmental assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. International accreditation costs related to research capacity	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Upgrades to, and maintenance of facilities and equipment to meet requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Technical support for animal care, handling of dangerous substances and biohazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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### Section IV - Regulatory Requirements and Accreditation (continued)

#### Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?
- to what extent is compliance with Canadian and international regulations required to access research funds from international sources?

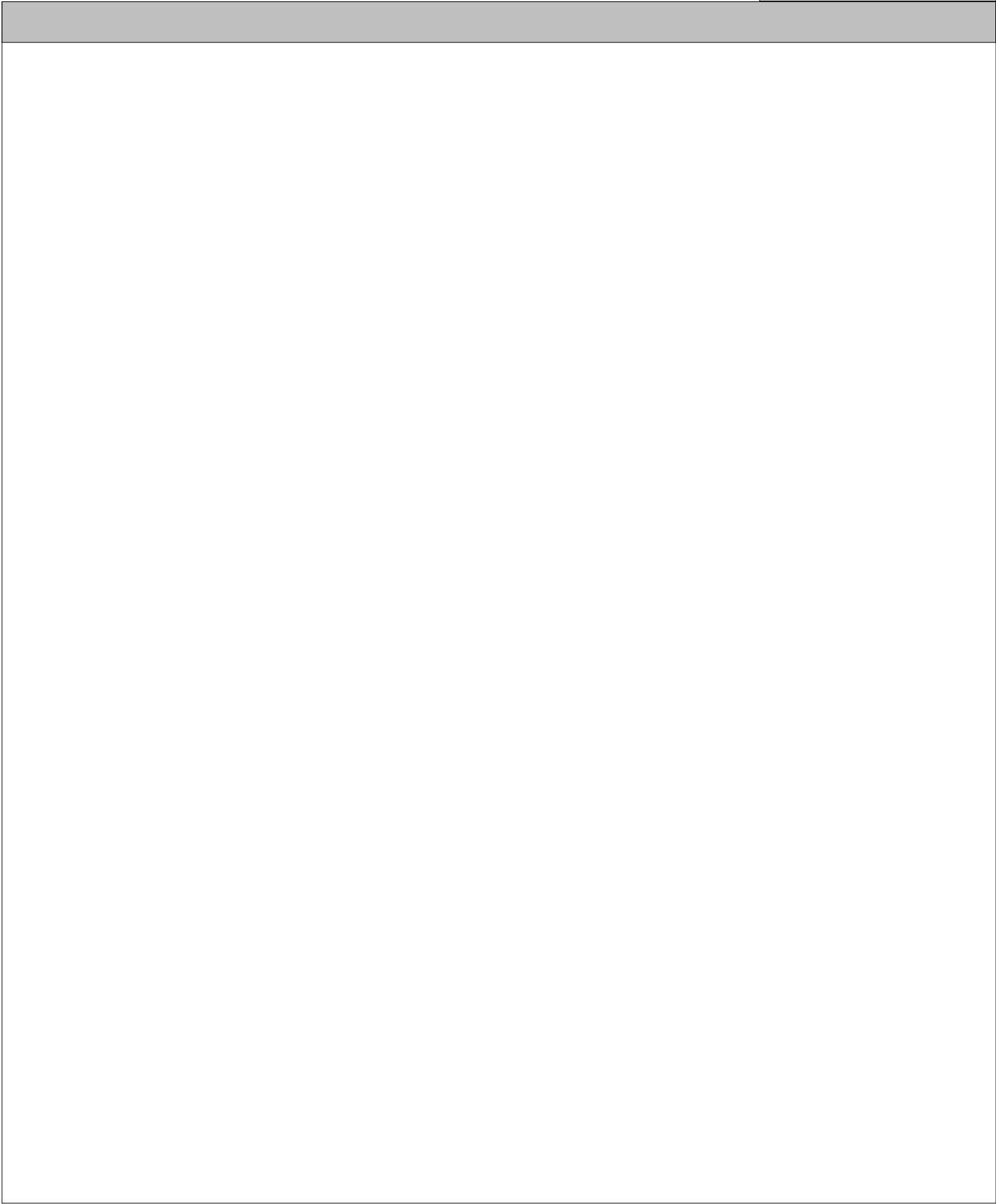
Animal user training is needed for any individual dealing with animals used in research, such as faculty, animal care technicians, and research assistants. Such training is mandatory, as set forth by the Canadian Council on Animal Care (CCAC), and consists of, for example, animal use certification programs, wet lab programs, and fish use programs. The Indirect Costs Program enabled the Research Office to cover this valuable and necessary training including, in particular, two animal care technicians' ongoing membership in the Canadian Association for Laboratory Animal Science and additional training for all three technicians, as was recommended by the CCAC.

In addition, during the 2014-2015 year the Animal Care Committee implemented an in-house online training program based on CCAC material that we were given permission to use. This support for maintaining the competency of our animal users removed the expense from departments and individual researchers, and allowed the redirection of funds to other needs. This measure contributes to a more collegial atmosphere in the University regarding the need for training and results in a higher level of cooperation from researchers and animal users. In January 2015 an external research team began using the Vivarium for research involving animal imaging, requiring further upgrades to our facilities to meet additional regulatory requirements and specific training was required for our animal care technicians using new equipment. University faculty and staff continued to revise and create Standard Operating Procedures (SOPs) for animal care. To ensure regulatory compliance and to reflect procedural changes related to the WebGrants implementation, University Animal Care Committee (UACC) members and research office staff continued to revise and update the documents relating to Policies and Terms of Reference. The University was awarded a certificate of Good Animal Practice (GAP) by the CCAC having successfully followed the recommendations arising from the CCAC site visit in October, 2013.

Health and Safety training was covered for the handling of radiation, imaging equipment, biohazards and waste disposal biohazards.

The ICP grant covered the salaries and benefits of the two full-time animal care technicians who are now staffing the Vivarium of the Richardson College for the Environment and Science Building, as well as those of a part-time assistant animal care technician. A chief technician for the Vivarium performs administrative and regulatory functions for the animal use program and a portion of that individual's salary and benefits is covered. The University employs an experienced University Veterinarian part-time to provide care, oversight and compliance with CCAC regulations to the animals on a regular, as well as on an as-needed, basis. With its ICP allocated funding, the Research Office supported costs related to the Veterinarian's travel to and from the facilities for these purposes, and to other centres for professional development.

A portion of the ICP funds were used to provide stipends and to cover eligible expenses for the Community Representatives who are members of our two ethics committees. The role of Community Representative is vital to the function of both animal and human ethics review boards and is mandated by both the Tri-Council and the CCAC. With the release of the second edition of the Tri-Council Policy Statement on Ethical Conduct for Research Involving Humans (2nd edition) in 2010, careful review and revision of our human ethics guidelines and policies continued, in order to ensure compliance and best practices in our research involving human participants.



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### Section V - Intellectual Property (continued)

#### Impact Statement

Please explain how the expenditures made in this priority area have allowed your institution (and its health research affiliates, where applicable) to maintain and/or enhance the capacity of its research enterprise. The following questions can help guide your answer:

- what difference have your grant investments made?
- are there significant changes from the previous year?
- why are these investments vital for researchers?
- why are these expenditures vital to the university research administration?
- what would have happened if expenditures hadn't been possible?
- what are the major cost drivers in this category?

The University has maintained a contractual relationship with a person dedicated to technology transfer and protecting the University's and faculty intellectual property rights in the negotiation of research contracts and other research-related agreements. In order to support this contractual relationship, the Research Office used a portion of the ICP funds. Funds also covered legal, maintenance and renewal fees with regard to patents, as well as the costs of correspondence with lawyers and patent officials.

Research office staff continue to revise the internal policies and procedures governing the negotiation and administration of external research contracts, with valuable input from the intellectual property consultant, the University's Legal Counsel, and the Vice-President, Human Resources.

All of these functions support the research activities of existing faculty and the outcomes will certainly contribute to encouraging the recruitment and subsequent retention of new faculty in an increasingly globalized and industry-collaborative research environment.

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## 1. Attraction and retention of researchers

**Has the Indirect Costs grant contributed to the attraction and retention of high-quality researchers at your institution?**

The Indirect Costs Program has been instrumental and absolutely essential in supporting the recruitment, development, and retention of high-quality researchers. By supporting their research productivity and maximizing the success of existing faculty members, the University has attracted such highly-qualified researchers as Dr. Kevin Walby, who was awarded a \$210,867 SSHRC Insight Development Grant for his sociological research in the area of policing and security, and Dr. Diane Santesso, whose research in developmental, cognitive and affective neuroscience is supported by an NSERC Discovery Grant of \$122,120.00.

Supporting researchers of this caliber strengthens The University of Winnipeg's position as a centre for both social science and scientific research and innovation.

The University is proud to retain such respected researchers as Dr. Karen Harlos, who was awarded a \$199,995 Partnership Development Grant for her national and internationally based research into workplace bullying and harassment. Her innovative program creates a unique partnership of diverse scholars and organizations committed to collaborating across disciplines, methods, work settings, and countries for improved well-being, performance and worklife policy.

Through the provision of staff and contracted services personnel, funded in part by the ICP, we have been successful in marshaling additional supports for such prestigious researchers, to the benefit of all Canadians.

## 2. Attraction of additional funding

The ICP grant is the catalyst for the development of research grants, both in science and in the humanities and social sciences. The IC grant funds supported the Associate Vice-President, Research and Innovation in strategic research planning, particularly related to attracting additional research funding. The funds allow a smaller university such as ours to provide well-trained administrative personnel to assist faculty with the development and implementation of research grants.

The 2014 Annual Maclean's Ranking of Canadian Universities placed the University of Winnipeg fifth amongst 19 primarily undergraduate universities in Canada for obtaining peer-adjudicated SSHRC grants, and 11th for funding from NSERC and CIHR combined.

The University's success in obtaining this funding was in large part the result of the diligent strategic work of personnel in the Research Office.

Support from the ICP funds benefits our researchers in technology development, commercialization, and intellectual property processes. The ICP funds support the needs of our researchers and scholars in both the natural and human sciences, by allowing the University to provide the infrastructure required to allow them to focus on and expand their research. New granting initiatives and advances in communication technology infrastructure (the Cisco Telepresence Suite), as well as the profoundly important support garnered for the construction of the new United Health and Recreation Complex, create a productive, inspiring, and rewarding environment for research at The University of Winnipeg.

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With the redirection of a substantial portion of our own operating funds, the University has been able to meet both our teaching and research objectives by upgrading and retrofitting our current campus facilities, expanding our campus, meeting faculty salary requirements, etc. Despite the ever-increasing pressure on our operating funds, we have been able to meet the academic priority of our University, which is to attract and retain highly-sought faculty in order to provide our students with the best instruction and research opportunities. The United Health and Recreation Complex now provides collaborative community programs, and provides researchers, particularly in the new Gupta Faculty of Kinesiology, with increased access to hands-on academic research and practicum experiences. Without support for the numerous expenses eligible under the ICP program, the University would not be able to maintain and build on its current level of support for such research.

Over the past decade, the physical campus has benefited from over \$200 million in renovations, new construction and enhancements to general infrastructure (e.g., wireless networks and systems upgrades). Certainly, the Richardson College for the Environment and Science Complex, The Buhler Centre, The Wesley Hall restoration project and a host of studenthost bqe lelln wiranviportuder to prexccl (stexance sa hoe fo tonsllemlabornaastru hoe fosical cst of ) Tj 0.00 -12.0footdem

