



STAFF REPORT ACTION REQUIRED

Green Economic Sector Development Strategy Work Plan and Required Resources

Date:	October 17, 2007
To:	Economic Development Committee
From:	Sue Corke, Deputy City Manager
Wards:	All
Reference Number:	P:\2007\Cluster A\EDCT\ECON DEV\ed071107-041

SUMMARY

The Economic Development Culture and Tourism Division (EDCT), has undertaken the development of a Green Economic Sector Development Strategy to support the growth and recognition of Toronto's environment and renewable energy industry sector, promote environmental best practices among employers and increase the City's competitiveness and retention of existing employment. This report responds to the direction by City Council to report back to the Economic Development Committee on a work plan for implementing the action items and the required budgetary resources.

http://www.toronto.ca/business_publications/pdf/green_economic_development_22may2007.pdf

RECOMMENDATIONS

The Deputy City Manager recommends that the Economic Development Committee:

1. endorse the ten action items referred in Attachment 1 that comprise the work plan to implement the Green Economic Sector Development Strategy; and,
2. refer the budget request for consideration to the 2008 Operating Budget process.

Financial Impact

The cost of implementing the recommendations contained in this report is \$75,000. This request will be forwarded to the 2008 Operating Budget process for consideration, including the reallocation of existing resources.

The Deputy City Manager and Chief Financial Officer has reviewed this report and concurs with the financial impact information.

DECISION HISTORY

At its meeting July 16, 17, 18 and 19, 2007, ED6.1, City Council adopted motions to endorse the vision, objectives, strategic directions and implementation of the action items listed in the Green Economic Sector Development Strategy report. Council also requested the General Manager of Economic Development, Culture and Tourism, in co-operation with other City Divisions, to report to the Economic Development Committee, in September 2007, on a work plan for implementing the action items and the resources that may be required.

<http://www.toronto.ca/legdocs/mmis/2007/cc/decisions/2007-07-16-cc11-dd.pdf>

COMMENTS

The following ten action items comprise the work plan for the Green Economic Development Strategy. These initiatives will have a significant impact on improving the sector and Toronto's economic position as demand rises for clean technology and services.

- One Window Utility Conservation Program for Industry
- District Energy Project in The Discovery District (Attachment 2)
- Toronto Environmental Research and Commercialization Initiative (VEENUS)
- Sustainable Employment District Pilot Project (GTAA Partners in Project Green: A Pearson Eco-Business Network)
- Green Home Innovation Centre
- Environmental/Mechanical Systems Training Program for Building Owners and Managers
- Green Procurement including a Trade Fair to Demonstrate New and Emerging Environmental Products and Services
- Training Program Integrating Environmental Design into Building Design and Construction
- Environmental Industry Capabilities Database
- Environmental Workshops for Small Business

Economic Development staff have taken an interdivisional approach on a number of the priority initiatives to help realize the objectives of both the Green Economic Sector Development Strategy and the Climate Change, Clean Air And Sustainable Energy Action Plan to ensure there is strategic, coordinated action and implementation.

The development and progress of a Green Manufacturing Action Team comprising leaders in green manufacturing initiatives, environmental experts, key academic researchers and representatives from labour will be reported back to the Economic Development Committee. A terms of reference including the selection process and scope of work are currently underway

The attached work plan (Attachment 1) further identifies the priority recommendations, divisional leads, partners, status and budget.

Resources Required

In order to realize the goals of the Green Economic Sector Development Strategy, budget resources will be required to fully implement the strategy and support a number of priority initiatives. The work plan outlined above will require \$9 million to implement. Economic Development has been successful in establishing partnerships with the associations, companies and other levels of government with respect to providing the majority of funding required. Economic Development needs to commit \$75,000 in 2008, with the partners providing 99% of funding.

The cost of implementing the recommendations contained in this report is \$75,000. This request will be forwarded to the 2008 Operating Budget process for consideration, including the reallocation of existing resources.

Conclusion

The City of Toronto is poised to meet the rising demand for global environmental solutions. The Green Economic Sector Development Strategy points to the actions required to catalyze green business development in Toronto and to enhance the City's position as a globally recognized green industry hub. The Strategy will help shape the vision for Toronto, with a coordinated commitment, action plan and resources all working towards a common goal: To be the Greatest and Greenest of the World's big cities.

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SIGNATURE

Sue Corke,
Deputy City Manager

ATTACHMENTS:

Attachment 1: Work Plan For Implementing Priority Actions And Required Resources
Attachment 2: Discovery District Map
Attachment 3: Eco-Business Network Map

Attachment 1

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
1. Create a one window utility conservation program undertaken jointly with the City, Toronto Hydro and Enbridge targeted at the existing business community to support best environmental practices and make our companies industry leaders;	Ec Dev (L) TEO EEO Toronto Water Public Health Toronto Hydro Enbridge	Economic Development has initiated meetings with Toronto Hydro, Enbridge, Toronto Water and Energy Efficiency Office to discuss existing programs and joint ventures. The Green Economic Development Work Team will initiate work to discuss the further and ongoing development of Communications and marketing opportunities to initiate a One Window Conservation Program. As per Council direction, Economic Development will also be working in conjunction with Toronto Water to assist with the implementation of the industrial process block two water rate for approximate 800 companies using greater than 6000 m3 per year. Opportunities for adding additional conservation activities will be sought.	\$110,000 Future Ec-Dev budget will need to be reviewed to add one full time staff cost for Sector Development Officer – to implement all of the initiatives below. No initial budget required for the one window project.	\$110,000
2. Support the development and growth of the district energy project in the Toronto Discovery District (See Map, Attachment 2). This project supports the sustainable use of energy, provides stability with respect to supply costs and stimulates new development in the area;	TEDCO (L) Ec Dev EEO MARS Enwave TRCA	FCM application approved for \$250,000 Green Municipal Fund Grant. Initial work will focus on research and data collection on physical and performance characteristics of existing equipment and systems for approximately 10-20 buildings in the Discovery District. These buildings constitute hospitals, research & development facilities,	\$25,000 Required to support grant application in conjunction with other funding partners.	\$250,000 (\$225,000 From Partners)

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		<p>and university buildings.</p> <p>Recommendations on energy and water saving measures that could be adopted on a district-wide basis will be developed.</p> <p>Followed by a comprehensive District Energy/ Water Plan for the MaRS Discovery District.</p> <p>FCM grant of \$250k to identify program needs etc.</p>		
3. Formalize a Toronto Environmental Research and Commercialization Initiative to strengthen research partnerships in the fields of sustainable energy and environment; to seek avenues for commercialization of these technologies, and to link local and international environmental research to business opportunities;	<p>Ec Dev (L)</p> <p>TRRA</p> <p>TEO</p> <p>EEO</p> <p>UofT</p> <p>ENWAVE</p>	<p>Economic Development convened stakeholders meeting with TEO, EEO, UofT, TRRA, and Enwave to discuss the development of “VEENUS - The Virtual Environmental and Energy Nexus for Urban Sustainability”</p> <p>Similar to MARS, VEENUS will focus on bringing the research and business communities together to stimulate technology, commercialization and collaboration on international research projects.</p> <p>Stakeholders will initiate process/concept development and feasibility assessment for 2008 grant application to identify programs and funding sources that can support this initiative.</p>	\$0	\$0
4. Develop a Sustainable Employment District Pilot project to stimulate industrial ecology, and economic competitiveness as a means of creating competitive advantage for companies in the area; TRCA - GTAA Partners in Project Green: A Pearson Eco-Business Network. (See Map Attachment 3)	<p>Ec Dev (L)</p> <p>TRCA</p> <p>Planning</p> <p>TEO</p> <p>EEO</p> <p>Toronto Water</p> <p>York University</p> <p>University of Toronto</p>	<p>In September the TRCA initiated a proposed Eco-Industrial Zone Project which will include part of Western Toronto, Brampton and Mississauga. The project is sponsored by the Greater Toronto Airports Authority.</p> <p>The intent is to develop an eco-industrial outreach and networking program to provide assistance to businesses to lower their operating costs and improve their environmental performance. This will be achieved by realizing efficiencies in resource-use and</p>	<p>\$0</p> <p>Leveraged 4 part time York students</p>	<p>\$140,000</p> <p>(\$140,000 funding for TRCA project)</p>

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
		<p>developing by-product exchanges, while offering a platform to illustrate that environmental sustainability can coincide with economic development.</p> <p>Economic Development has enlisted 4th year York University students to assist with research and data collection pilot project as a student research project.</p> <p>The project will require the City to set the students' work plan and provide input and some supervision. Cooperation from the City in terms of data collection to develop a GIS based project will help provide additional company, land and building information in order to assist with project development around clusters, resource management and by-product synergies etc.</p>		
5. Develop a Green Home Innovation Centre to showcase and provide education on environmental products and services to Toronto residents that leverages partnerships and current initiatives;	<p>Ec Dev (L)</p> <p>TRCA</p> <p>TEO</p> <p>EEO</p> <p>Planning</p> <p>Building</p> <p>Parks & Rec</p>	<p>A commitment from a developer at Castlefield and Caledonia to provide land and a building for the Centre has been secured.</p> <p>Economic Development is setting up meetings with TRCA Green Building Council, TEO, EEO, P&R Building Planning and the developer to discuss space needs.</p> <p>In exchange for use of the building, it is being proposed that an NGO be brought on board to provide educational programming to residents and arrange for product and service displays.</p> <p>An expression of interest will be developed to select an NGO to undertake the programming that can be incorporated into the Centre.</p>	\$0	<p>\$400,000</p> <p>(\$400,000 From Partners)</p>
6. Develop a training program with the business, academic and labour communities to assist office	Ec Dev (L)	Convened a meeting with BOMA (Building Owners and Managers Association of the Greater Toronto Area) to discuss opportunities	<p>\$0</p> <p>No Ec Dev Budget</p>	<p>\$8,200,000</p> <p>(\$8,000,000 & \$200,000)</p>

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
operations and manufacturing companies to establish in house expertise with respect to running and maintaining environmental systems.	Boma MTCU T&YR Labour Council EEO	<p>around this initiative to develop a training course for building operators on energy management for commercial buildings, which could possibly be delivered to the MUSH sector in PHASE 2.</p> <p>Economic Development and BOMA have developed a \$350,000 grant submission to MTCU (Ministry of Training Colleges and Universities) to support a \$8 million training project.</p> <p>MTCU has also expressed interest in having the City organize a workforce development plan around the other training recommendations in the Green strategy. ED is preparing a \$200,000 grant submission for this purpose</p>	required in 2008	From Partners)
7. Investigate opportunities to expand the City's green procurement initiatives. As a first step, organize municipal workshops on Green Procurement and methods for stimulating environmental innovation within the City's operations, including a trade fair to demonstrate new and emerging environmental products and services for municipalities and the business community;	Ec Dev (L) P&MM EEO TEO (L) Water ONEIA EEO	<p>The Toronto Environment Office is organizing an inter-divisional team to assess opportunities around green procurement practices. ED staff will participate and bring a business and innovation focus to the discussions.</p> <p>ED Staff will lead a team to initiate a project with partners to discuss the development of a Municipal Green Vendors Trade Fair such to showcase green products and services to municipal operations and private sector in Southern Ontario in order to encourage greener products services etc.</p>	\$25,000 To support lead sponsorship of initiative	\$100,000 (\$75,000 From Partners)
8. Develop a training program with the business, academic and labour communities to improve the skill sets of architects, engineers, construction and building professionals on how to effectively	Ec Dev (L) T&YR Labour Council	This will addressed as part of the workforce development plan noted above.	\$0	Possible funding may also be derived from MTCU

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
incorporate integrated environmental design into building projects;	CAP EEO TEO TAF SDFA			grant application – see item 6 above
9. Support the creation of an environmental industry capabilities database and Toronto consumer market prospectus in cooperation with environmental industry association(s) and other levels of government to profile and market Toronto's green industry expertise;	Ec Dev (L) TRRA TEDCO EEO TEO	Economic Development has formed a partnership with the Toronto Region Research Alliance (TRRA) and TEDCO to undertake this project. The TRRA is coordinating the development a capabilities database to profile the companies and research institutions in the Toronto area, their capabilities and interests with respect to joint ventures and strategic alliances. This will also be used to assess economic gaps and opportunities to create/ attract companies un-represented in Toronto.	\$25,000 Economic Development Budget committed in 2007 to support initiative	\$100,000 (\$75,000 From Partners)
10. Organize Workshops with TABIA (Toronto Association of Business Improvement Areas) and the Chambers of Commerce to engage the participation of the small business community in adopting sustainability practices and green procurement policies.	Ec Dev (L) TEO TABIA- Green T Biz Local Chambers BOT BIA Office TRCA	Economic Development to Coordinate as part of TEO's LIVE GREEN TORONTO initiative and work with TRCA and other partners to fully assess the needs of the SME business community and develop specific projects to assist business in Toronto.	\$0	
In addition to the above priority recommendations, Council requested the Green Economic Sector Development Strategy work plan include the following:				

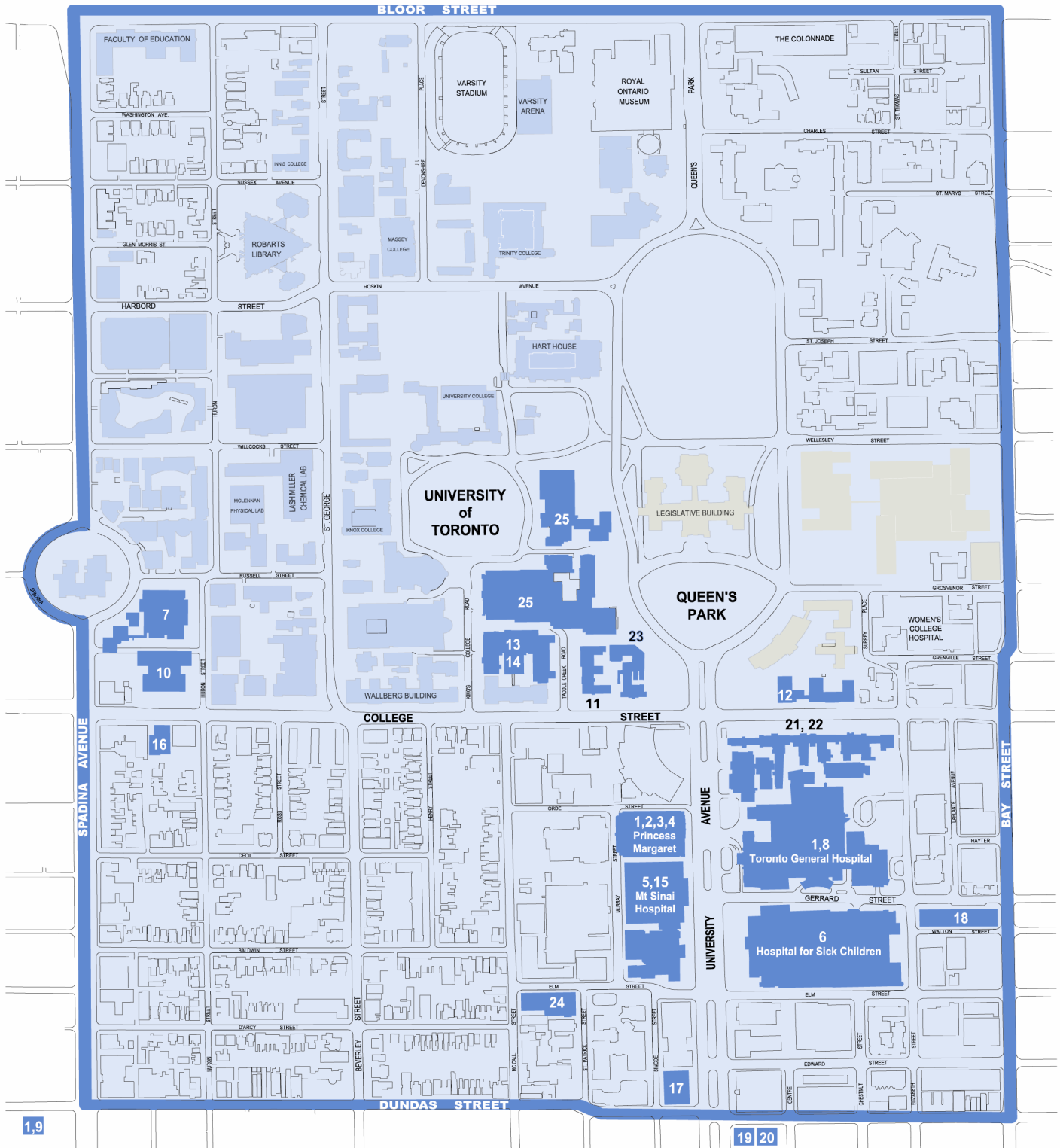
Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
11. The potential for including City-owned Toronto Hydro Energy Services Inc. as a key partner in the development of the action items;	Ec Dev (L) EEO	See Recommendation 1 – One Window Conservation Program ED has already met with various representatives at Hydro to discuss existing and emerging programs that target the business community.	\$0	
12. The potential to work with the Director of Toronto Water to find opportunities for enhancing business efficiency and business development opportunities emerging from the creation of water efficiency plans for bulk water consumers;	Ec Dev (L) Water EEO	Work ongoing with Toronto Water, Finance and large water users. Development of a communications plan and service delivery of Water Audits required to achieve block 2 process water rate. Joint roll out of the program will begin in Sept. 2007. The Business Development Bank of Canada may also participate in Capital Loan programs to assist with efficiency improvements.	\$0	
13. Opportunities for attracting new business in the following sectors: - bicycle parts, assembly and manufacture; - compact fluorescent light-bulb recovery and recycling; - green electricity equipment: windmill parts, solar equipment; - green landscaping; and reuse and recycling industries flowing from the establishment of reuse centres in the City's 70% diversion plan;	Ec Dev (L) EEO TEO PFR Solid Waste EET	This will be tasked to the Green Manufacturing Action Team to undertake as part of their mandate. See below.		
14. An examination of barriers and opportunities for local food production and marketing;	Ec Dev Food Policy Council TEO (L)	Economic Development work with Toronto Environment Office and Food Policy Council to develop specific action items Economic Development will participate with the Greater Toronto Agricultural Action Committee to link local growers with local food processors.	\$0	\$0

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
15. Possible strategies to ensure Toronto has adequate training and workforce development programs for a greatly accelerated home and building energy retrofit program; and	Ec Dev (L)	See Recommendation # 8	\$0	\$0
16. Opportunities to support the formation of local energy co-ops to take advantage of the provincial standard offer program;	EEO (L) TEO Ec Déb.	TEO or EEO have lead on this – Economic Development to support Potential research into what else is happening in other jurisdictions and how it will benefit Toronto based business.	\$0	
17. The City establish a Green Manufacturing Action Team comprising leaders in green manufacturing initiatives, environmental experts, key academic researchers and representatives from labour; The Green Manufacturing Action Team be tasked with outlining a path forward to match the emerging boom in demand for green products worldwide with green manufacturing opportunities in Toronto, as well as identifying tools for promoting pollution prevention activities in Toronto's manufacturing sector; and The Green Manufacturing Action Team report to the Economic Development Committee on initial steps and a recommended timeline for implementation by December 2007.	Ec Dev (L) T&YR Labour Council CAP EEO TEO TAF TEA Others	See # 8 Economic Development will organize stakeholders to form a Green Manufacturing Action Team that will be tasked with outlining a path forward to match the emerging boom in demand for green products worldwide with green manufacturing opportunities in Toronto, as well as identifying tools for promoting pollution prevention activities in Toronto's Manufacturing sector; and. Resources will be required to undertake some background research on best practices internationally, and facilitate the stakeholder process to generate an action plan. The Green Manufacturing Action Team report to the Economic Development Committee on initial steps and a recommended timeline for implementation.	\$25,000	\$25,000
			\$210,000	\$9,215,000

Recommendation	Leads (L) / Partners	Work Plan	Required City Resources \$	Total \$
			\$25,000 -2007 \$110,000 future staffing \$75,000 in operations	(\$9,140,000 From Partners)

Attachment 2

Toronto The Discovery District = *Innovation + Technology + Business*



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- 1 University Health Network
- 2 Ontario Cancer Institute
- 3 Photonics Research Institute
- 4 AMGEN Research Institute
- 5 The Samuel Lunenfeld Research Institute of Mount Sinai Hospital
- 6 The Hospital for Sick Children
- 7 The Centre for Addiction and Mental Health (CAMH)
- 8 Toronto General Hospital Research Institute (TGRi)

- 9 Toronto Western Research Institute
- 10 Positron Emission Tomography Centre
- 11 Heart & Stroke/Richard Lewar Centre of Excellence for Cardiovascular Research
- 12 The Banting and Best Research Centre
- 13 Institute of Biomaterials and Biomedical Engineering
- 14 Tissue Engineering
- 15 The Joseph and Wolf Lebovic Centre
- 16 exceler@tor

- 17 GLYCOdesign Inc.
- 18 Visible Genetics Inc.
- 19 Affinium Pharmaceuticals
- 20 ARIUS Research Inc.
- 21 MARS - Medical Related Sciences
- 22 TBCC - Toronto Biotechnology Commercialization Centre
- 23 Centre for Research in Neurodegenerative Disease
- 24 The Michener Institute for Applied Health Sciences
- 25 University of Toronto - Medical School

Attachment 3

