Innovation York in the MCC: Innovating in York Region

Presentation Prepared for the Development Services Committee Meeting June 21, 2011

RESEARCH







To establish York University as the research and innovation university of York Region

Example of Research: Centre for Vision Research

AQUA, a small submersible robot that swims using paddle legs and carries cameras and position sensors

Research Example: The City Institute at York University

The SSHRC-funded and York-led Global Surburbanisms Project is the first to systematically take stock of worldwide suburban developments.

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Research Example: The Centre for Research in Earth & Space Science

Some of our research even extends beyond the scope of our globe.



York Research Works Internationally

York U has more than 150 agreements worldwide

York U participated in the Ontario (2010) and the Markham/ York Region (2011) Trade Mission to Israel and established contacts with Israel's renowned innovation incubators

York U participated in the Markham Mission to China (2008)

The Schulich School of Business is opening a campus in India

"Local clusters enhance global competitiveness"



YORK RESEARCH



Markham Opportunity

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Canada's fastest growing population The country's most diverse municipality

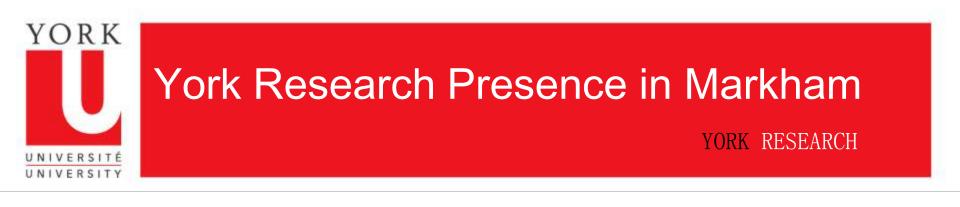


 Characterized by youth – the region will PSE needs by 34% by 2021.



- Location of more than190 medical device and 700 IT companies- opportunity for Economic Innovation
- Location of leading regional hospitals and social agencies- opportunity for Social Innovation

Markham is a powerful player- Canada's High-Tech capital



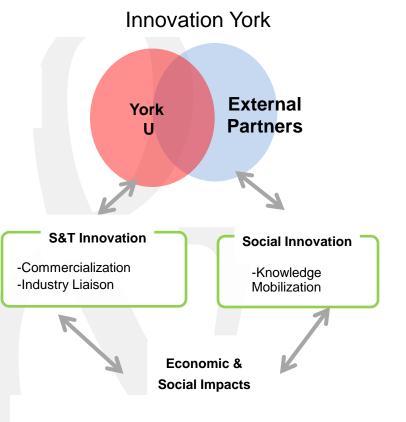


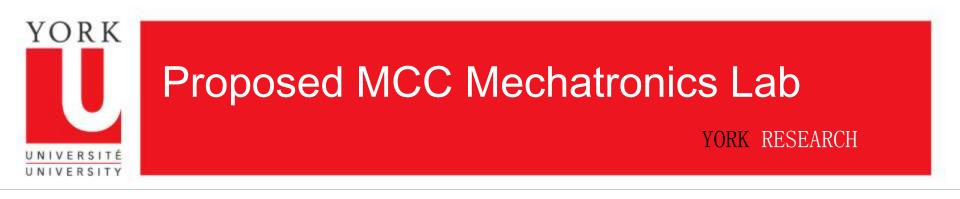


York U / IY Presence in Markham

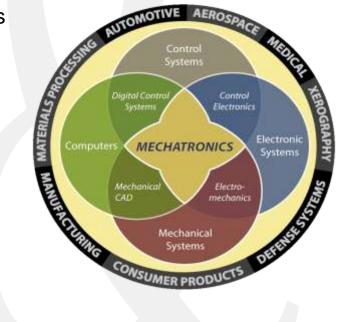
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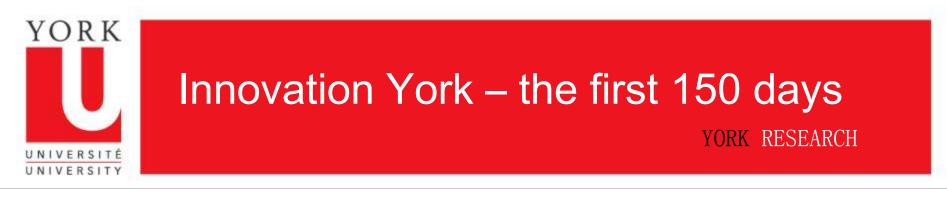




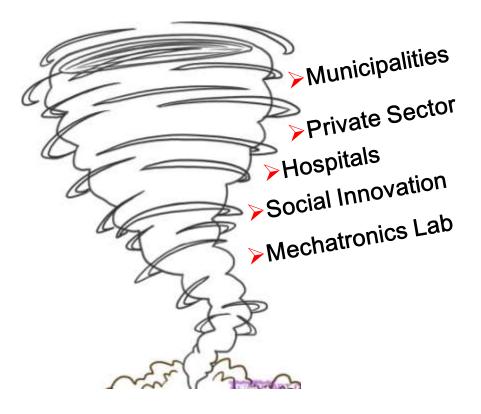


This Unique facility in the MCC to fill a substantial void in the Province Access the most advanced design technologies Allow early stage prototype and manufacturing development. Flexible technology platform for SMEs to diversify their products Provide for the growth of regional knowledge-based SMEs Creates a technology anchor to leverage investment





Innovation York is already experiencing increased regional connections and emerging results with industry, hospitals & social agencies







Innovation

Human ingenuity and the application of new knowledge leading to new policies, products and services by connecting across sectors towards the interplay of creativity, technology and society



"America gets more than half its economic growth from industries that barely existed a decade ago – such is the power of innovation." -The Economist

"We are on the road to recovery...we have to leave the comfortable and the traditional relationships and get used to dealing with the uncomfortable and the unknown" -Warren Jestin, Chief Economist Scotiabank, Ontario Economic Summit 2009

"We are going to hear more and more about collaboration rather than just competition. This is a great time to differentiate by innovating and capitalizing on new forms of commercial relationships" -Marcel Fenez, Global E&M Leader, PWC Report, 2010

"The non-profit sector employs 1 in 12 Americans and 115 nonprofits are launched every day. Yet while the federal government invests \$7 billion in R&D for the private sector, there is no similar effort to support non-profit social innovation. Meanwhile, there are ideas across America – in our inner cities and small towns; from college graduates to folks making a career change – that could benefit millions of Americans if they're given the chance to grow". -President Obama on a proposed social innovation fund (2008)



Canada's Challenge: Slow Progress Toward an Innovation-Driven Economy YORK RESEARCH

International comparison of business enterprise expenditures on research and development as a percentage of Gross domestic product 2.7% Japan 2.7% Sweden 2.5% Finland 2.2% Korea United States 1.9% .8% Austria 1.8% Germany 1.7% Denmark 1.5% Iceland Luxembourg 1.4% 1.3% France 1.3% Belgium 1.2% Australia 1.2% United Kingdom 1.1% 15th Canada 1.0% Netherlands 1.0% Czech Republic 0.9% Ireland 0.9% Norway

Emerging Nations Surge Potential Real Growth Rates, % 8 **Emerging Economies** 2020-29* 7 1990-99 6 Advanced Economies 5 3 2 U.S. BRICS World Advanced Canada Western Japan EM C. & E. Other EM's Europe Europe

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Source: StatsCanada



The Need to do Business Differently in the New Economy



"There is a need for reaching across the borders of institutions, sectors, fields of training, academic institutions and countries." What is missing is not only the vision but also a system of innovation governance that brings the entire regional stakeholders together for a common purpose.

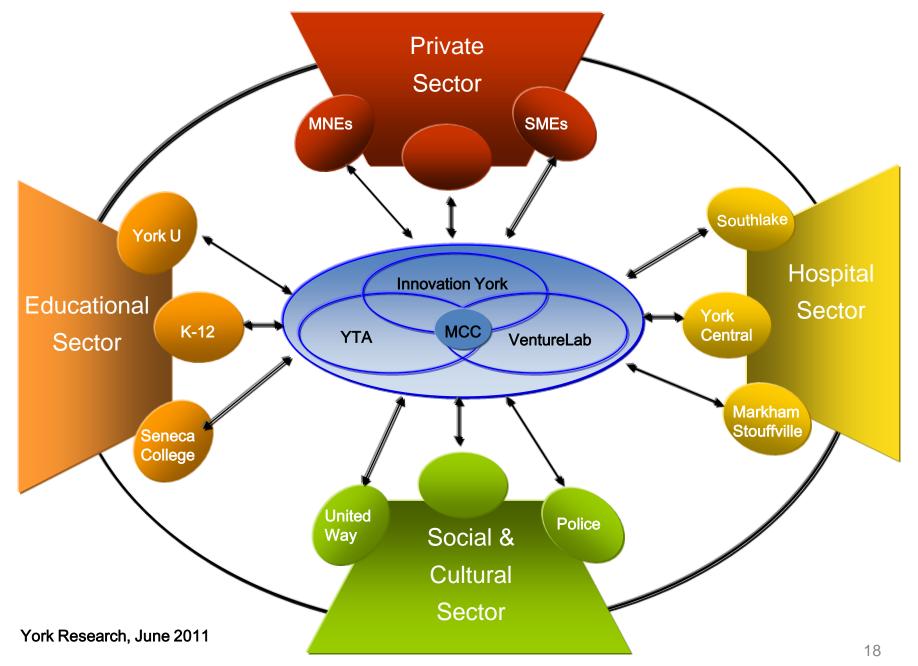
<u>OECD Innovation Strategy; Getting a Head Start</u> <u>on Tomorrow</u>, 2010

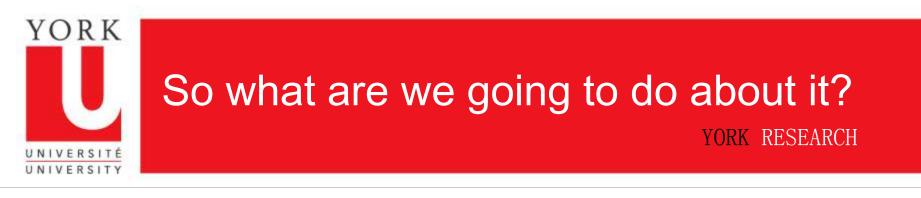
"Coordinating the region's economic development initiatives will help the region unleash its economic potential...this echoes what GTA mayors and groups have been saying for years about regional coordination and an end to parochialism being the best way forward" <u>Shifting into High Gear, Toronto Board of Trade Report, June 2011</u>





Mobilizing York Region's Innovation Eco-System





How do we strengthen and advance the relationship between Innovation York (York U) and Markham?

Scaling up: What are the next projects and initiatives that we can be focusing on?

Continuing Engagement: How would you see Innovation York contributing to your strategic economic development plans?

Working collaboratively: How can we create Canada's leading innovation community in York Region?

