





# We're focused on solving some of the world's biggest challenges, and building a robust innovation ecosystem that translates research and development assets into jobs and investment.

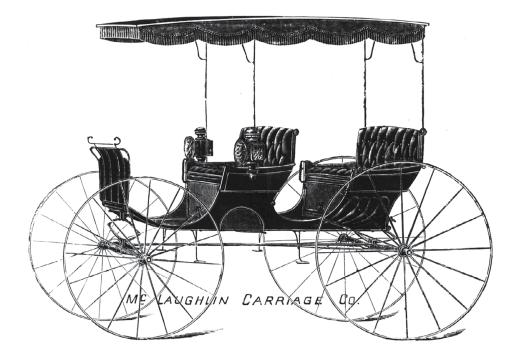
The world needs products, services and business models that will create value in new ways, while reducing social and environmental impacts. This change won't be driven by a few heroic entrepreneurs or innovative geniuses, nor will it be driven solely by investors. It will take all of these players, and more, working together.

Durham Region's foundation of solving important challenges began with early settlement, as immigrants founded local businesses that would grow to be some of the largest and most successful.

Since 1864, when Robert McLaughlin started his journey to transform human mobility, businesses in Durham have committed to improve lives—not just for local residents—but also for the world.

Today, by supporting innovators in everything from artificial intelligence to electric and autonomous mobility, and from clean tech to agri-tech, life sciences, health, and creative industries, our business ecosystem is evolving so that Durham's innovators continue to lead global solutions.

We're confident our innovation community will continue to change the world.



#### McLaughlin Carriage Co.

Colonel Robert Samuel McLaughlin settles in Darlington Township (now known as Clarington), and launches a business manufacturing horse-drawn sleighs and carriages. By the turn of the century, his Oshawa facility is one of the largest carriage factories in the world.

Image courtesy of Oshawa Public Libraries, Local History Collection.



# Newcastle Foundry and Machine Manufactory

Daniel Massey establishes the Newcastle Foundry and Machine Manufactory, and in 1866, Hart Massey appears at the International Exposition in Paris, France, where he wins first place honours for the Massey Self Binder—which cut a section of oats in 55 minutes. The company went on to become the largest manufacturer of agricultural implements in the British Empire, now known as Massey Ferguson.

Image courtesy of the Newcastle Village and District Historical Society Archives.



# The Holstein Association of Canada

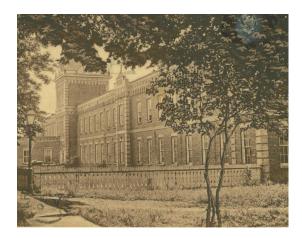
The Holstein Association of Canada is founded locally. Members include legendary operations such as Roybrook in Whitby and Hannover Hill in Scugog; farms that have made a lasting impact on dairy farming around the globe.



# Pedlar Metal Roofing Company

George Pedlar expands his father's hardware and metal stamping business to become the Pedlar Metal Roofing Company, based in Oshawa. The operation became the largest sheet metal factory in the British Empire, with warehouses in Montreal, Winnipeg and Calgary, Sydney, Australia, Auckland, New Zealand and Cape Town, South Africa.

Image courtesy of Oshawa Public Libraries, Local History Collection.



#### **Schofield Woolen Mills**

Schofield Woolen Mills is established in Oshawa. Nationally recognized for exceptional quality, Schofield innovative woolen products were found in nearly every town and city in Canada for the next 50 years.

Image courtesy of The Thomas Bouckley Collection, The Robert McLaughlin Gallery, Oshawa.



#### The Oshawa Railway

Construction begins on the Oshawa Railway to connect the Grand Trunk line at Oshawa's northern end with the port. By 1911, the railway offered passenger, express and freight service to every part of town, and was a primary feature in promoting the businesses and "natural advantages and resources of Oshawa" to prospective investors.

Image courtesy of Oshawa Public Libraries, Local History Collection.



#### Canada Dry Pale Ginger Ale

Robert McLaughlin's eldest son, John J. McLaughlin of Enniskillen, creates Canada Dry Pale Ginger Ale. The company quickly expanded to become worldwide by the 1930s. Canada Dry is still popular today and produced in countries around the globe.



# McLaughlin Motor Car Company

Robert McLaughlin & Sons rebrands as McLaughlin Motor Car Company, eventually selling the carriage business to make way for automobile production at their Oshawa plant.

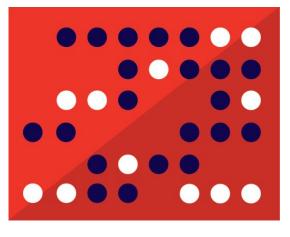
Image courtesy of The Thomas Bouckley Collection, The Robert McLaughlin Gallery, Oshawa.



#### **General Motors of Canada**

Sam and George McLaughlin become the first executives of General Motors of Canada, after the merging of their company McLaughlin Motor Car Company with Chevrolet and General Motors. General Motors of Canada built their first offices on Richmond street in Oshawa.

Image courtesy of The Thomas Bouckley Collection, The Robert McLaughlin Gallery, Oshawa.



#### The Rockex

Professor and electrical engineer,
Benjamin deForest "Pat" Bayly,
invents an offline one-time tape
cipher machine called the Rockex
at the secret military intelligence
base Camp X, located between
Whitby and Oshawa. The Rockex
was a solution to slower existing
equipment, and handled transatlantic
communications quickly and
securely during World War II.



#### **Defence Industries Limited**

The largest shell-filling plant in the British Commonwealth, Defence Industries Limited, is established in Ajax to provide supplies for the Allies in World War II. More than 2,300 women from across Canada worked in the munition factory. The contributions of women at this Ajax facility later inspired the award-winning television series "Bomb Girls".

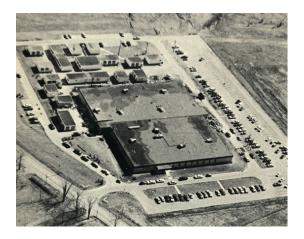
Image courtesy of The Town of Ajax – Ajax Archives.



# The Oshawa Harbour Commission is Formed

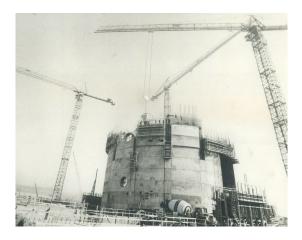
The port is the only seawaydepth harbour on Lake Ontario between Toronto and Montreal. On average, Oshawa's port handles \$23 million dollars worth of cargo annually, from salt and steel products to asphalt and grain.

Image courtesy of The Thomas Bouckley Collection, The Robert McLaughlin Gallery, Oshawa.



#### **Durham College is Founded**

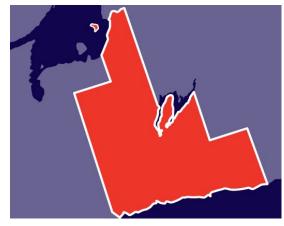
Durham College has become known as a leading post-secondary destination and was named one of Canada's Top 50 Research Colleges for six straight years, from 2012 to 2018. Today, Durham College enrolls more than 13,000 full-time students, including 1,900 international students from 75 countries.



## Pickering Nuclear Generating Station

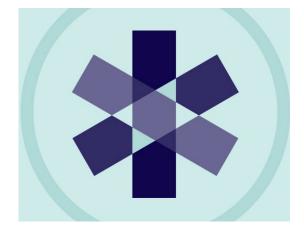
The Nuclear Generating Station in Pickering begins operations, starting the facility's run as one of the largest and safest nuclear stations in the world.

Image courtesy of Keith Beaty/Toronto Star via Getty Images.



#### The Region of Durham

The Region of Durham is established. It is one of several new regional governments in the Province of Ontario, and includes the cities of Oshawa and Pickering, towns of Ajax and Whitby, the municipality of Clarington, and townships of Brock, Scugog and Uxbridge.



#### Pre-hospital Cardiac Care Services in Oshawa

Oshawa becomes the first city in Ontario to provide pre-hospital cardiac care services. The program allowed paramedics to obtain faster diagnoses in the field, and prepared emergency staff at the hospital to respond—ultimately saving more patients and reducing the impacts of heart attacks.



#### **Northern Dancer**

Edward Plunket Taylor, a businessman, philanthropist and race horse breeder, produces
Northern Dancer at Windfields Farm in Oshawa. By the 1980s, Northern Dancer was the first Canadian bred horse to win the Kentucky Derby, the first animal to be inducted into the Canadian Sports Hall of Fame, and was the most sought-after sire in the world. Today, nearly every horse competing in the Kentucky Derby is a descendant of Northern Dancer.

Image courtesy of Tony Leonard, Canadian Museum of History.



#### **CANDU Reactor**

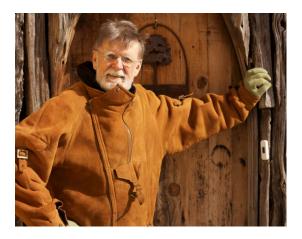
The CANDU reactor proven at Ontario Power Generation's Pickering and Darlington Nuclear Generating Stations is listed as one of Canada's top ten engineering achievements of the previous 100 years by a jury of Canadian engineering professionals.

Image courtesy of Frank Lennon/Toronto Star via Getty Images.



#### Colpitts Design Inc.

Colpitts Design Inc. is founded by Peter Colpitts in Uxbridge.
The company specializes in rapid prototype design and manufacturing; building products for the medical, garden, automotive and film industries. Today Colpitts Design works with Ontario
Tech University's automotive program and creates props for Hollywood blockbusters. Credits include work for films such as X-Men, Robocop, Batman vs Superman and Suicide Squad.



#### Fly Away Home

William "Bill" Lishman, an award-winning sculptor, filmmaker, inventor, naturalist and public speaker, pioneers ultra-light aviation in Canada, becoming the first person to lead the flight of geese with an aircraft, eventually conducting the first aircraft-led migration of birds from his home in rural Scugog in 1993. He made a short film about the migration for PBS Television Network that was eventually optioned for the 1996 Academy Award winning film, Fly Away Home.

Image courtesy of the Lishman family.



# Omachron Group of Companies

Wayne Conrad, a scientist based in rural Clarington, founds Omachron Group of Companies. Today, Conrad holds close to 600 patents, including a space-age water treatment system that NASA adopted for the International Space Station.

Image courtesy of NASA/Roscosmo.



#### Lakeridge Health

Lakeridge Health is formed when Durham-area hospitals are merged to create a leading health system focused on improving the overall wellness of one of fastest growing areas of Ontario. Today, Lakeridge Health has five hospitals, four Emergency Departments, and more than twenty community healthcare locations, a dedicated team of more than 5,400 employees, 760 physicians and 1,500 volunteers.



#### **Ontario Tech University**

Led by Gary Polonsky as its founding president, Ontario Tech University opens its doors as Ontario's first laptop-based university, and has continued to evolve into a techfocused institution that embeds the latest technology into its teaching and learning practices, administrative processes and innovative research projects. Today, Ontario Tech is ranked first in Canada in cross-sector research among undergraduate universities, and draws in more than 10,000 full-time students, including more than 1000 international students from 65 countries.

Image courtesy of Ontario Tech University.



#### **Search Engine People (SEP)**

After launching in 2001 with a focus on Search Engine Optimization, in 2006 the Search Engine People (SEP) become a full-service agency and are named the first-ever Canadian Partner in the Google Partner Program. Today SEP is recognized as one of the best SEO and digital marketing companies in Canada. Founder Jeff Quipp eventually became a founding board member of the Spark Angel Network, an angel investing group focused on tech start-ups in Durham Region.

Image courtesy of Search Engine People.



# The Clean Energy Research Laboratory (CERL)

The Clean Energy Research
Laboratory (CERL) opens at Ontario
Tech University. CERL houses the first
lab-scale demonstration of a copperchlorine cycle for thermochemical
water splitting and nuclear hydrogen
production. Hydrogen is a clean
energy carrier of the future and
potentially a major solution to the
problem of climate change.



#### **Trent University Durham GTA**

Trent University opens a campus on Thornton Road in Oshawa, building upon forty years of Trent education programs available in Durham Region. Today, Trent University Durham GTA offers undergraduate degrees, masters degrees and post-graduate programs to nearly 2,000 students.



#### **Spark Centre**

The Spark Centre is founded in 2010, and in 2012, Durham's Regional Innovation Centre locates in downtown Oshawa. Spark Centre supports start-ups by providing commercialization and services to innovative and technology-based entrepreneurs. By 2019, Spark grows into a 9000-square foot innovation space and begins graduating clients to the new 1855 tech accelerator in Whitby.

Image courtesy of Spark Centre.



#### **ACE Climatic Wind Tunnel**

The state-of-the-art ACE Climatic Wind Tunnel is operational. The world-class facility, which can simulate weather from a blizzard to a hot day in Arizona, is used by big automakers to test vehicles. With its moving ground plane, it is one of the most technologically advanced facilities of its kind in the world. ACE is also able to simulate a broad range of environments, and testing has included housing, bridges, product packaging and even athletes.

Image courtesy of ACE Climatic Wind Tunnel ace.ontariotechu.ca

# 2013



#### W. Galen Weston Centre for Food (CFF)

Durham College opens the W. Galen Weston Centre for Food (CFF) in Whitby, one of Canada's first culinary education facilities to bring the concept of "Field to Fork" to life. CFF is focused on local food, regionalism, sustainability and wellness, and it plays a leading role in providing students with hands-on experience of the full cycle of production: farming, preparing, serving and celebrating food.



#### ByBlacks.com

ByBlacks.com, the top-ranked Black Canadian online magazine is founded by Roger and Camille Dundas, and in 2020, they receive a Heritage Canada grant to grow their business. The website promotes Black Canadian entrepreneurs and serves as a hub where viewers can stay educated about topics surrounding the Black community.



# **Darlington Nuclear Generating Station**

The World Association of Nuclear Operators names Darlington Nuclear Generating Station in Clarington one of the safest and top performing nuclear stations in the world—for the third time in a row.



#### **Durham College Al/Hub**

Durham College launches the AI/Hub, a first-of-its-kind applied research centre focused on how "narrow AI"—such as machine learning, decision support, natural language processing and automation to recommend strategic options can make decisions autonomously.

Image courtesy of Durham College.



#### 360insights

Founded by Durham resident
Jason Atkins, 360insights is named
one of the Best Places to Work in
Canada by the Great Place To Work
Institute. Proudly located in Whitby,
360insights has innovated a software
platform for large manufacturers to
launch and execute flexible incentive
programs. By 2020, 360insights
is one of the largest global
Channel Incentives Management
(CIM) providers in the world.



#### Autonomous Vehicle Innovation Network (AVIN) at ACE

Ontario Tech University's
ACE Climatic Wind Tunnel is
named a key hub within the
Ontario Autonomous Vehicle
Innovation Network (AVIN).
ACE provides accurate sensing
technologies and reliable machine
learning techniques to improve
urban traffic management,
design and connectivity.

Image courtesy of ACE Climatic Wind Tunnel ace.ontariotechu.ca



#### **smartARM**

Ontario Tech University student
Hamayal Choudhry and his
teammate, Samin Khan, from
the University of Toronto win the
Imagine Cup—Microsoft's annual
innovation competition—for
their invention, the smartARM,
a prosthetic robotic hand. The
competition saw more than 40,000
student competitors register and
49 teams from 33 countries qualify
for the Imagine Cup World Finals.

Image courtesy of smartARM.

# **Building Youth Capacity (BYC)**

Brock Youth Centre rebrands their organization as Building Youth Capacity (BYC) to reflect services in Durham's three northern municipalities. The organization provides innovative programs and services to improve the social and economic well-being of youth, and encourage entrepreneurship. Success stories include a virtual hackathon that resulted in the outcome of a youth mental health app going into development.



#### **Life-Saving Medical Isotope**

Darlington Nuclear announces planned production of the life-saving medical isotope molybdenum-99 (Mo-99)—used for patients who need skeletal, brain and organ imaging to detect and diagnose harmful diseases—continuing OPG's decades long commitment to supply the world with valuable radioactive isotopes.

Image courtesy of Ontario Power Generation.



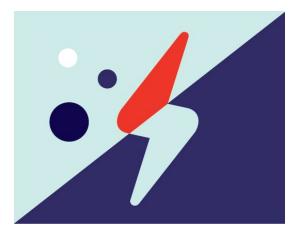
#### **Electric Vehicle Strategy**

Trent University Durham GTA campus students in the Communications and Critical Thinking program begin work on an Electric Vehicle strategy with the Municipality of Clarington. The project looks at best practices for the adoption, use and maintenance of electric vehicles and electric vehicle charging stations.



## Innovation in Cancer Care in Ontario

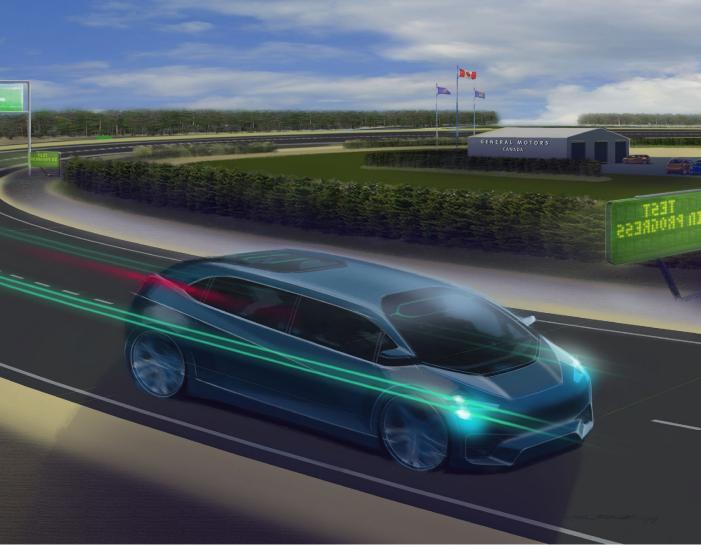
The R.S. McLaughlin Durham
Regional Cancer Centre at
Lakeridge Health wins a Cancer
Quality Council of Ontario 2019
Quality and Innovation Award for
significant contributions to quality
and innovation in the delivery
of cancer care in Ontario.



#### **Canada's First Biogas Plant**

Oshawa Power and Utilities
Corporation (OPUC) partners with
ZooShare—an energy co-operative
with more than 600 members—
and begins building Canada's
first biogas plant at the Toronto
Zoo to convert organic waste to
renewable energy and fertilizer.





# Canadian Technical Centre (CTC) McLaughlin Advanced Technology Track

Construction begins on GM's McLaughlin Advanced Technology Track, named after GM Canada's founder and visionary Colonel Sam McLaughlin. Situated on 55 acres, south of GM's Oshawa operations, the track will be used to support the testing of advanced GM vehicle software and technologies that will enable a future vision that is self-driven, all-electric, and highly connected.

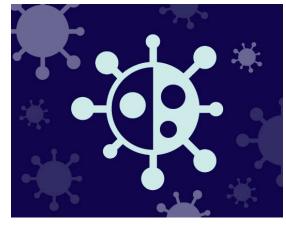
Image courtesy of General Motors Canada.



#### 1855 Whitby

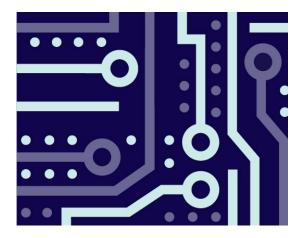
1855, Durham Region's innovation accelerator is founded in downtown Whitby. The vision of the Town of Whitby's former Director of Economic Development, Peter LeBel, and 360insight's Jason Aktins, 1855's goal is to accelerate the growth, and scale-up potential tech companies. Founding members include Spark Centre graduates MobileXCo, a quickly accelerating marketing technology (MarTech) company.

Image courtesy of 1855.



#### **Pivoting During COVID-19**

Manufacturers across Durham
Region retool to join the fight
against COVID-19. From face
shields produced in collaboration
between Ontario Power Generation
and Ontario Tech University, to
local sun porch manufacturer Sun
Space creating retail protective
equipment, companies large and
small innovate solutions. Of note, a
General Motors production facility in
Oshawa is retooled to manufacture
face masks for Health Canada.



## Centre for Cybersecurity Innovation

Durham College launches its fourth applied research centre, the Centre for Cybersecurity Innovation, which offers current and aspiring cybersecurity professionals, as well as public and private-sector organizations, access to applied research services and leading-edge education in cybersecurity to prepare for the ever-changing and complex threat landscape.



#### **Kendal Hills Farm**

In response to the COVID-19 pandemic, local farm Kendal Hills launches a virtual farmers' market, collaborating with more than 30 other farms to deliver local goods and produce direct to consumers. Modelled on a typical farmers' market, the project collates orders and ships to homes across the Greater Toronto Area.



#### **Axcessiom Technologies**

Axcessiom Technologies, founded by Shanjay Kailayanatha at Ontario Tech's Brilliant Incubator, receives federal funding to continue to develop their facial landmark recognition technology that makes driving more accessible for those using adaptive technology.



#### **Intelligent Community**

The Intelligent Community Forum (ICF), names the Region of Durham as one of the Smart21 Communities of the Year. The ICF recognizes communities around the world for successfully developing innovative solutions that create inclusive and prosperous communities.

# We're confident our innovators will solve the world's next big challenge.

Invest Durham is committed to working with others who share our vision of building a modern innovation economy in Durham. Collaboration between industry, post-secondary institutions, government and innovation centres, alongside a robust talent pipeline, positions Durham Region to be at the forefront of innovation in Canada—and the world.

An opportunity to join this innovation community awaits your business in Durham Region.

Durham Region is the eastern anchor of the Greater Toronto Area's (GTA) tech ecosystem. Durham Region is made up of eight local area municipalities, including the cities of Oshawa and Pickering; the towns of Ajax and Whitby; the Municipality of Clarington; and the townships of Brock, Scugog and Uxbridge.

We're confident our team will be able to help you.





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