



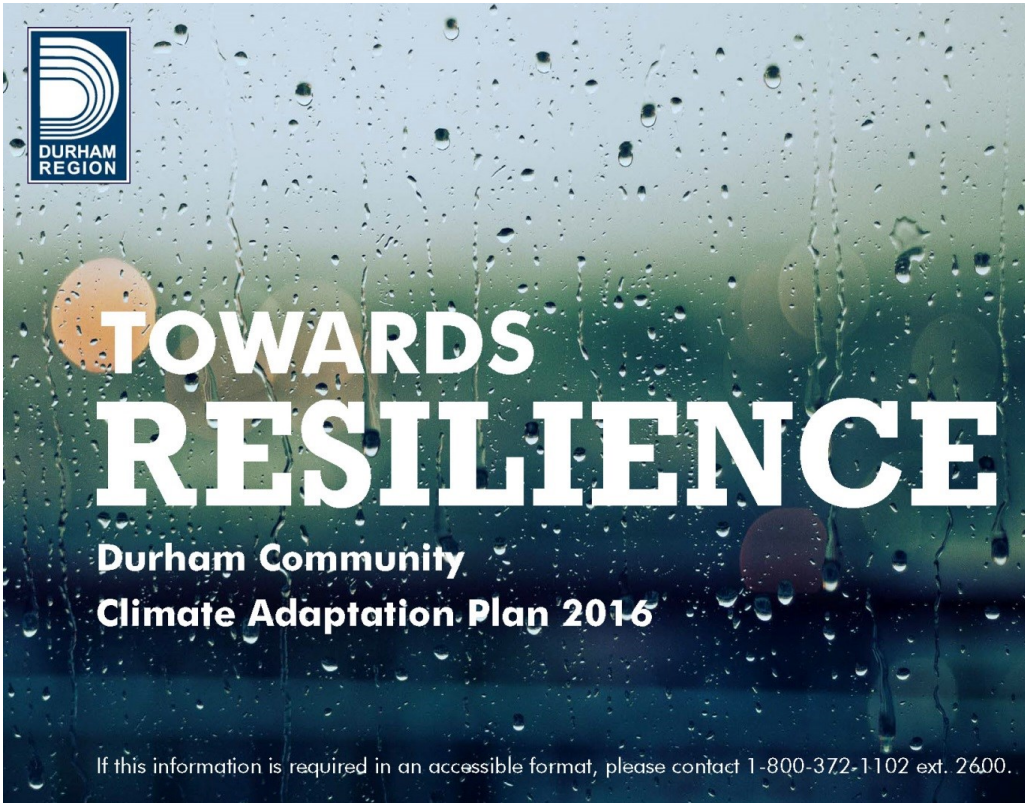
Durham Greener Homes Program

Ian McVey, Manager of Sustainability, Office of the
Chief Administrative Officer

Township of Brock Committee of the Whole – April 19,
2022



Durham's Climate Action Plans



DURHAM COMMUNITY ENERGY PLAN

What is Durham Greener Homes?

*“The Regional Municipality of Durham is establishing a **residential energy retrofit program** to stimulate homeowner demand for energy efficiency-related home renovations.*

The Program is one of six priority programs critical to achieving the Durham Community Energy Plan (DCEP) Low Carbon Pathway.”



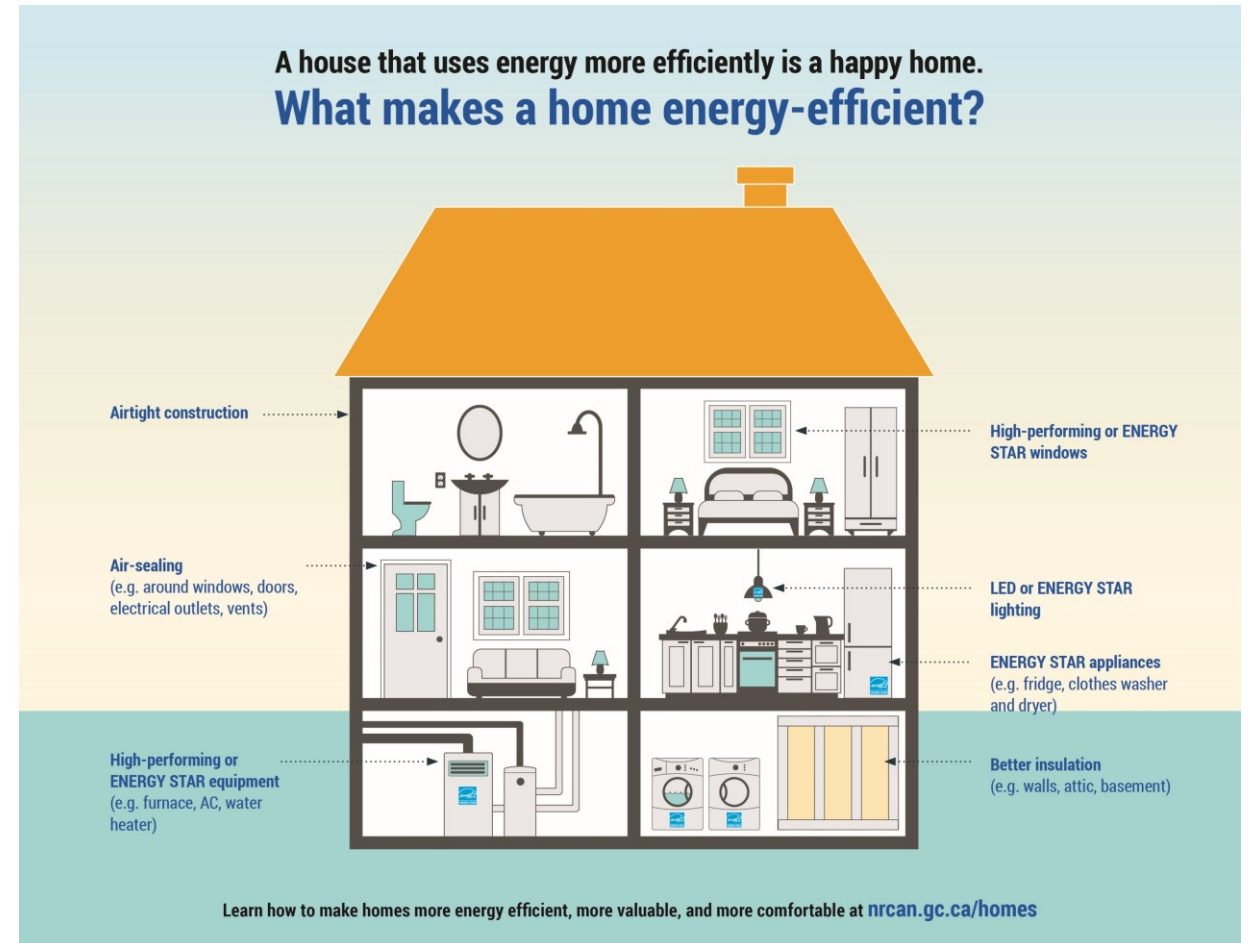
Figure 21: Percent emissions by sector 2020

Image source: The Atmospheric Fund (2021). *Reality Check: Carbon Emissions Inventory for the GTHA*. Available online: <https://taf.ca/gtha-carbon-emissions/>

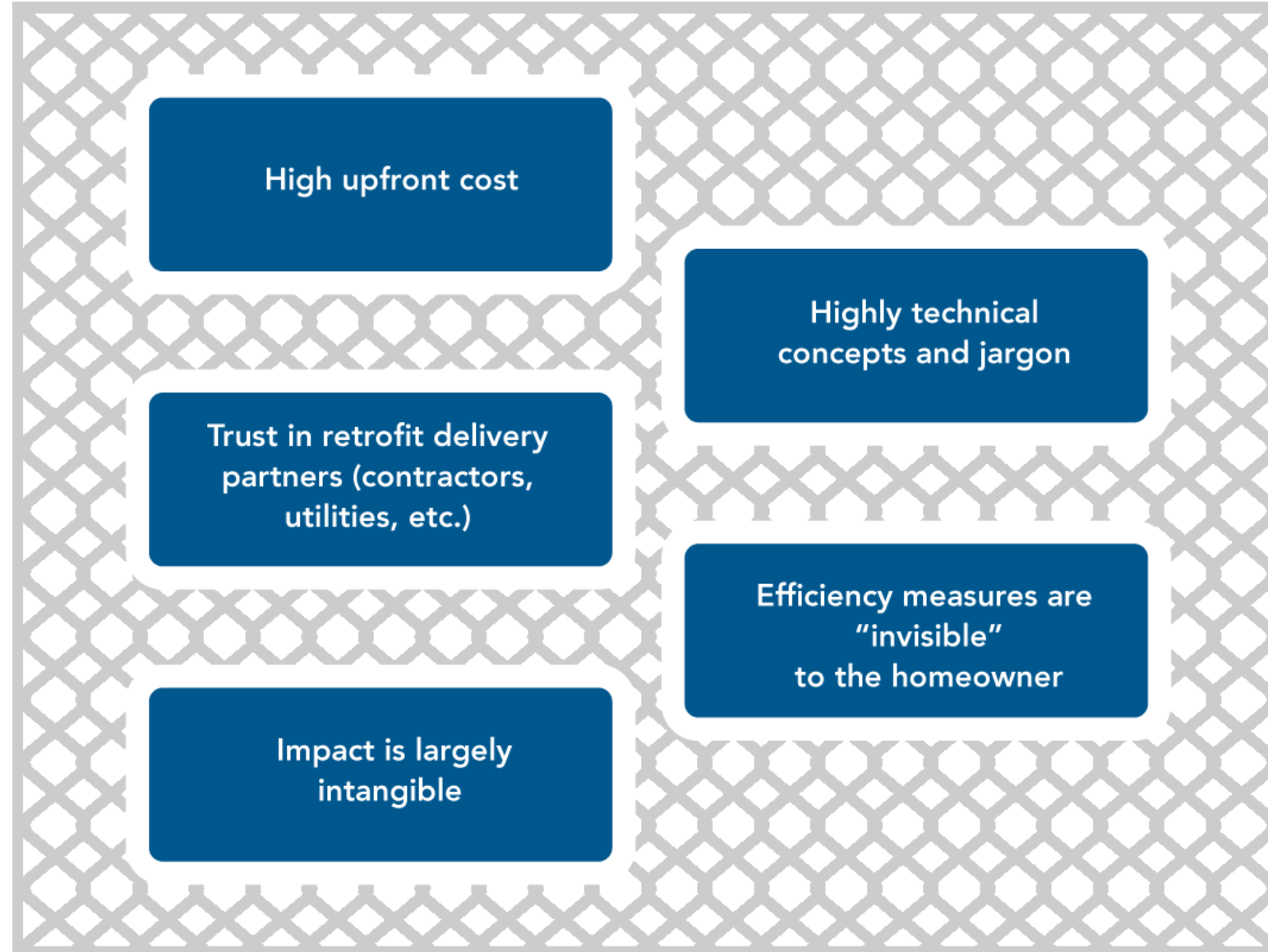
What kind of Retrofits?

Retrofit Type	GHG Reduction	Cost Range
Typical (light)	10-30%	\$10-40K
Deep	40-60%	\$50-100K
Fuel Switching	~100%	+\$10-25K

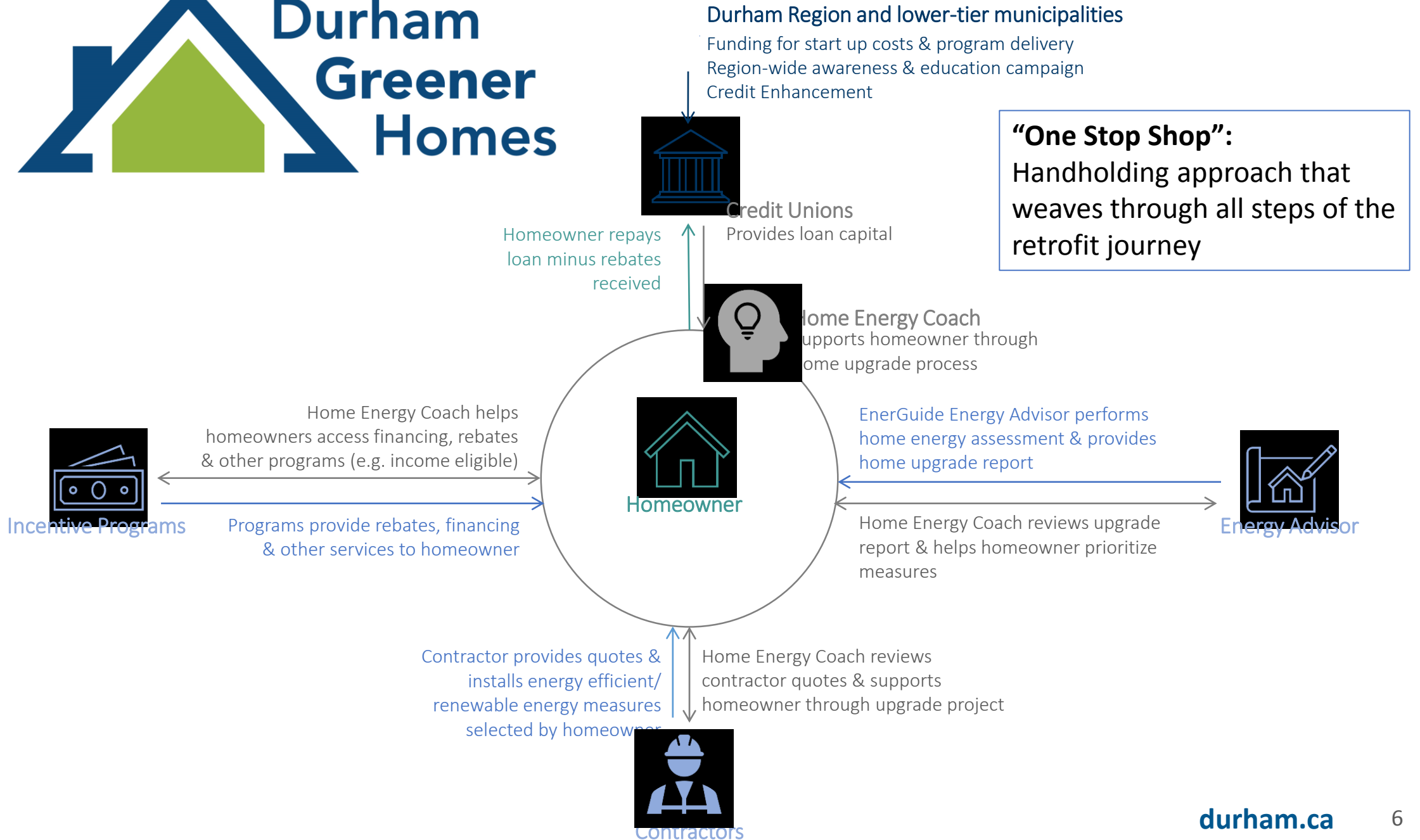
- ~7000 deep energy retrofits/yr to 2050 are needed to reach net zero in Durham Region
- Currently less than 2000 energy retrofits are completed/yr – and almost no “deep” retrofits or fuel switching



Barriers to change



Durham Greener Homes





5 Steps to a Greener Home in Durham Region

- 1 Apply online
- 2 Book a free phone or web meeting consultation with a home energy coach
- 3 Complete a pre-retrofit Home Energy Evaluation performed by a NRCan Registered Energy Advisor
- 4 Complete the recommended home energy upgrades
- 5 Complete a pre-retrofit Home Energy Evaluation performed by your Registered Energy Advisor
- ✓ Get cash back from approved incentive programs

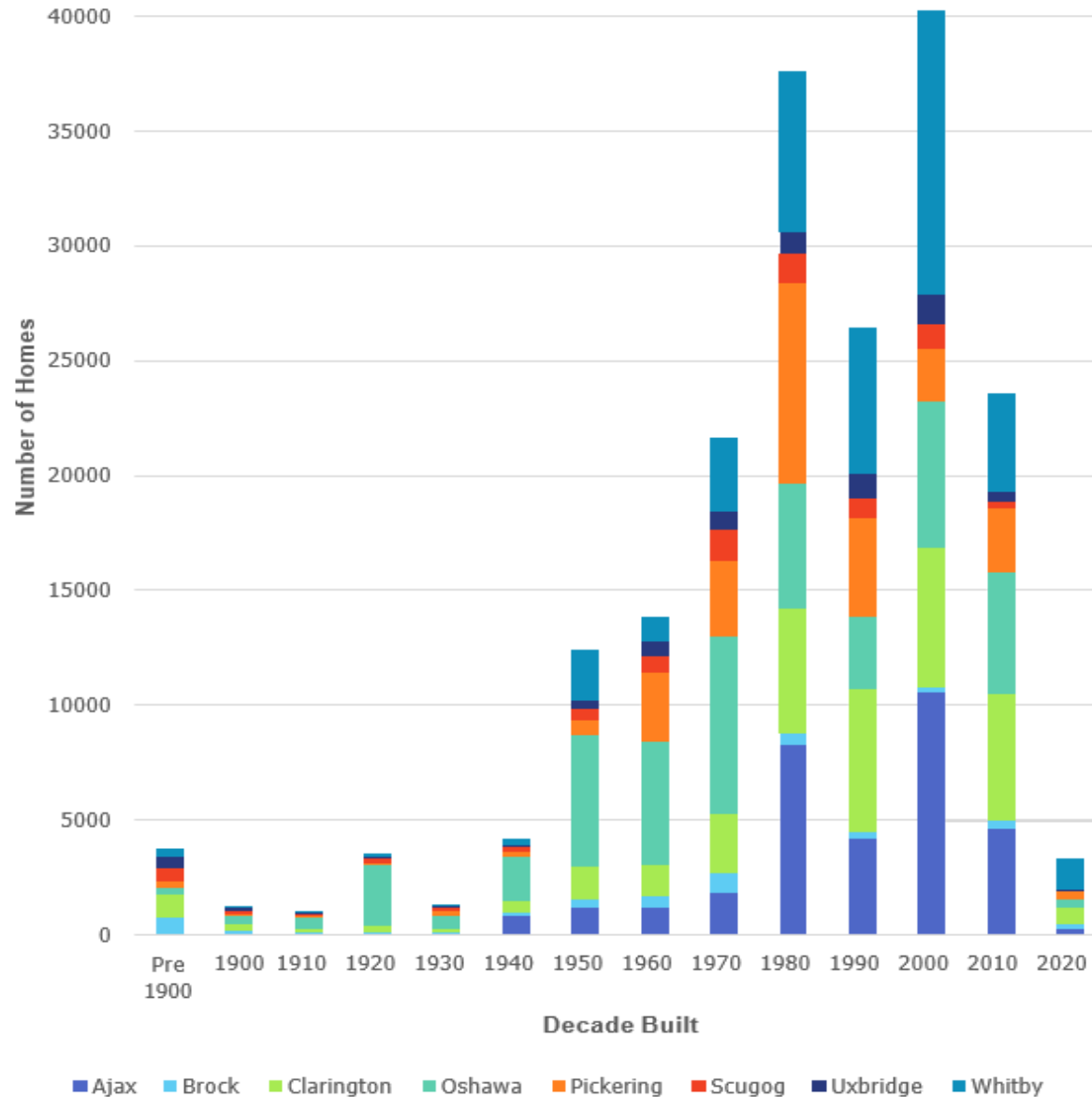
[Get Started](#)

Market Characterization Analysis -

Breakdown of residential property types

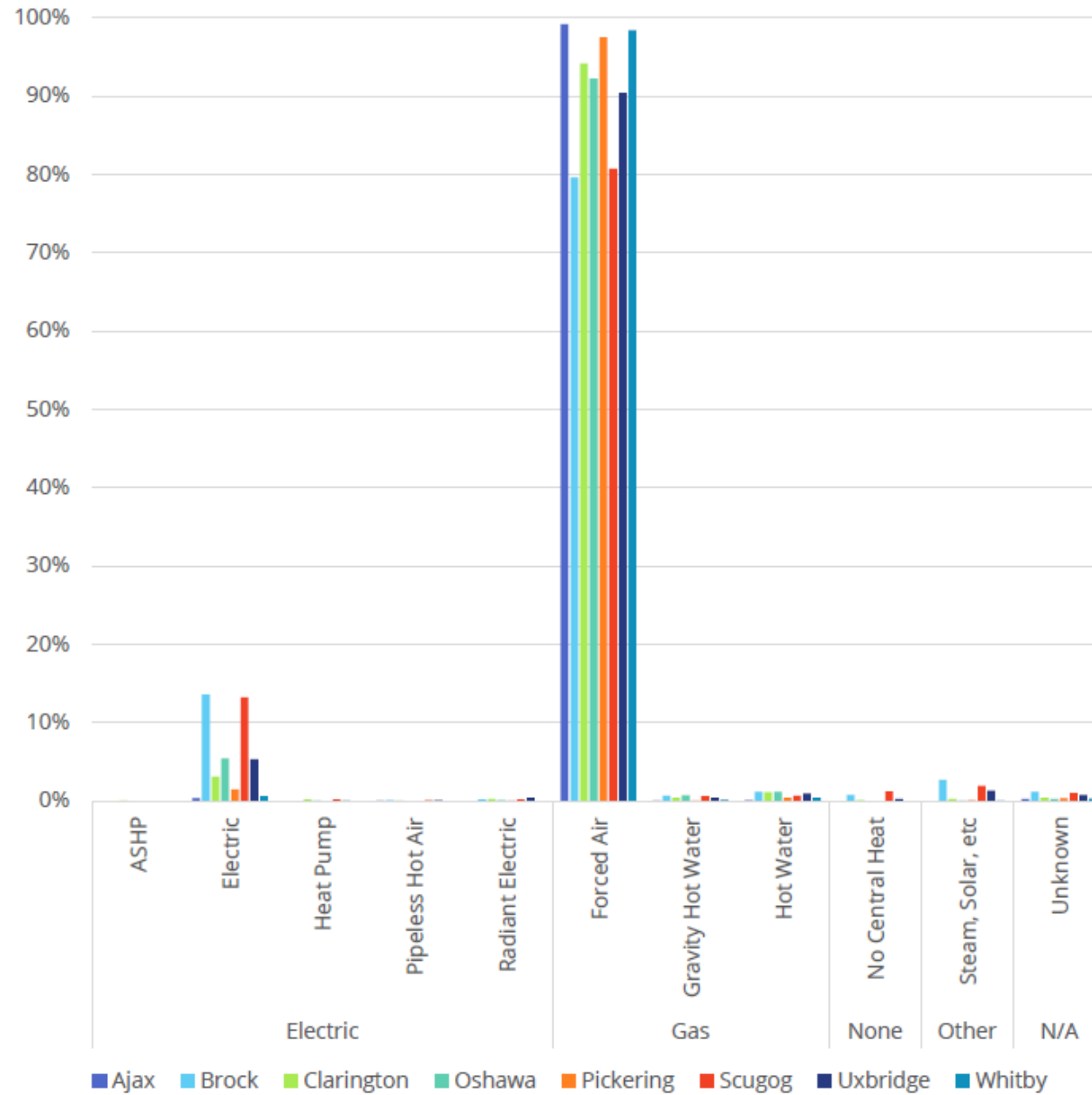
Typology	Buildings	Units/Homes	% of Buildings	% of Units/Homes
Single Family Homes	194,400	196,414	99%	89%
Rental MURB*	2,656	23,284	1%	11%
Strata MURB	85	177	0%	0%
Mobiles Homes	9	17	0%	0%
Total Residential	197,150	219,892	100%	100%

Number homes by decade built and municipality



- Bulk of homes built after 1950s
- Peaks in 1980's and 2000's
- Newer homes are more much larger

Homes by heating type





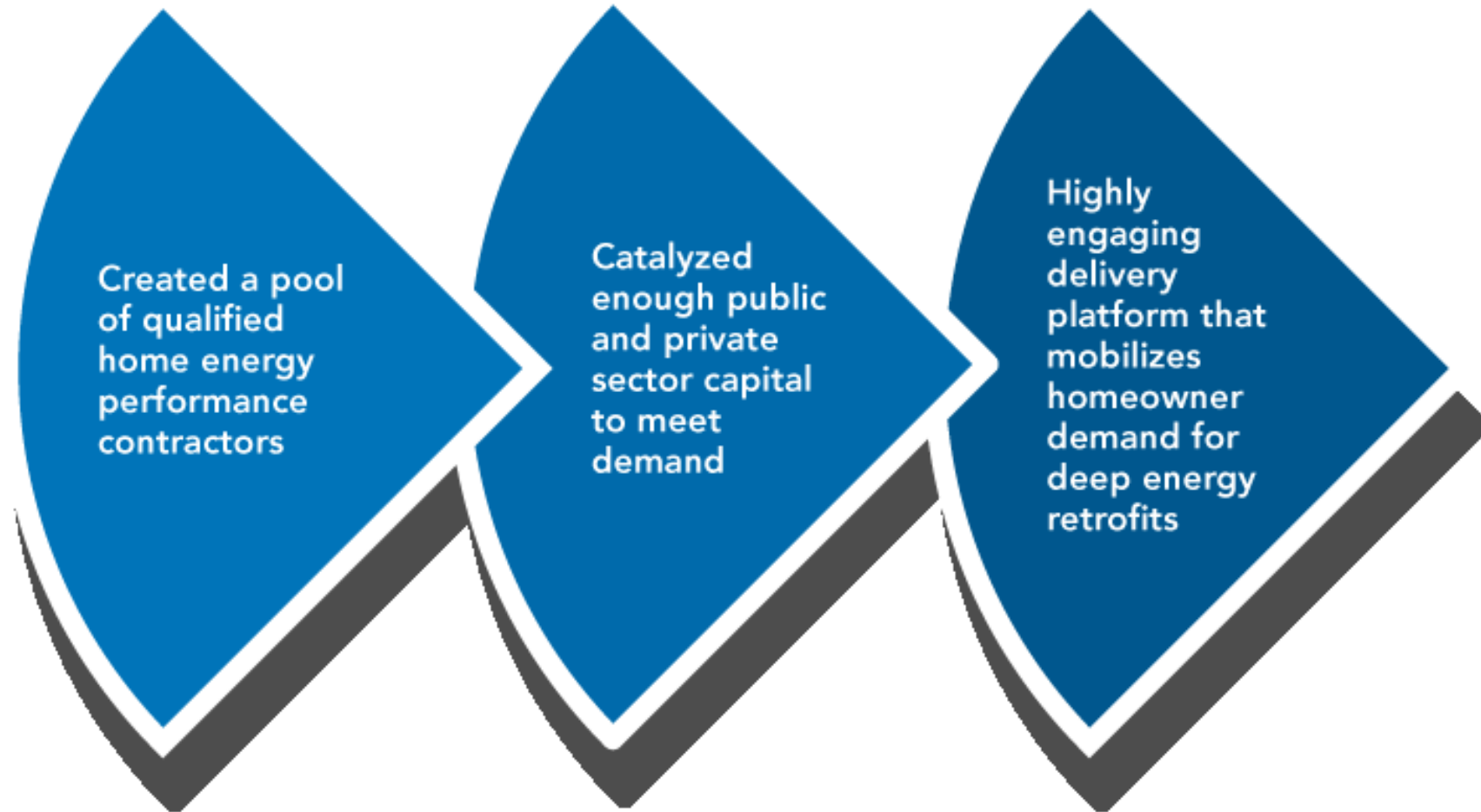
- Launching April 28th
- Launch event:
 - Durham College Whitby Campus School of Skilled Trades
 - Representatives from Federal Government, Durham Region, and other program partners
 - Reception at Bistro 67 alongside media event to celebrate the launch.
 - Please let me know if you are interested in joining us for the launch event!



Training and Capacity Building

- Canadian Home Builders Association -> Net Zero Renovator Program
 - Training renovator contractors using “house as a system” approach
 - Targeting the delivery of 100-150 net zero renovations across Canada by 2026
 - We are hoping Durham will be a leader in this initiative through the Durham Greener Homes Program
- Heating Refrigeration and Air Conditioning Institute – Heat Pump training
 - Partnering with Ottawa, Toronto, and Calgary to develop training content for HVAC contractors
 - Trying to overcome supply side challenges to fuel switching from natural gas furnace to air source heat pumps.
- Durham Local Energy Efficiency Partnerships (LEEP) initiative

What does success look like?



Program evolution

Longer-term we will look to explore other sustainability retrofits including:



Water
efficiency



Stormwater
management



Green
roofs

We will also look to expand the program into other building sector segments such as:



Single-family
rental housing



Multi-unit
residential
housing



Small
commercial



Questions?

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