



2021 WATER AND WASTEWATER MASTER PLAN

Presented to
City of Markham

Presented by
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October 18, 2021

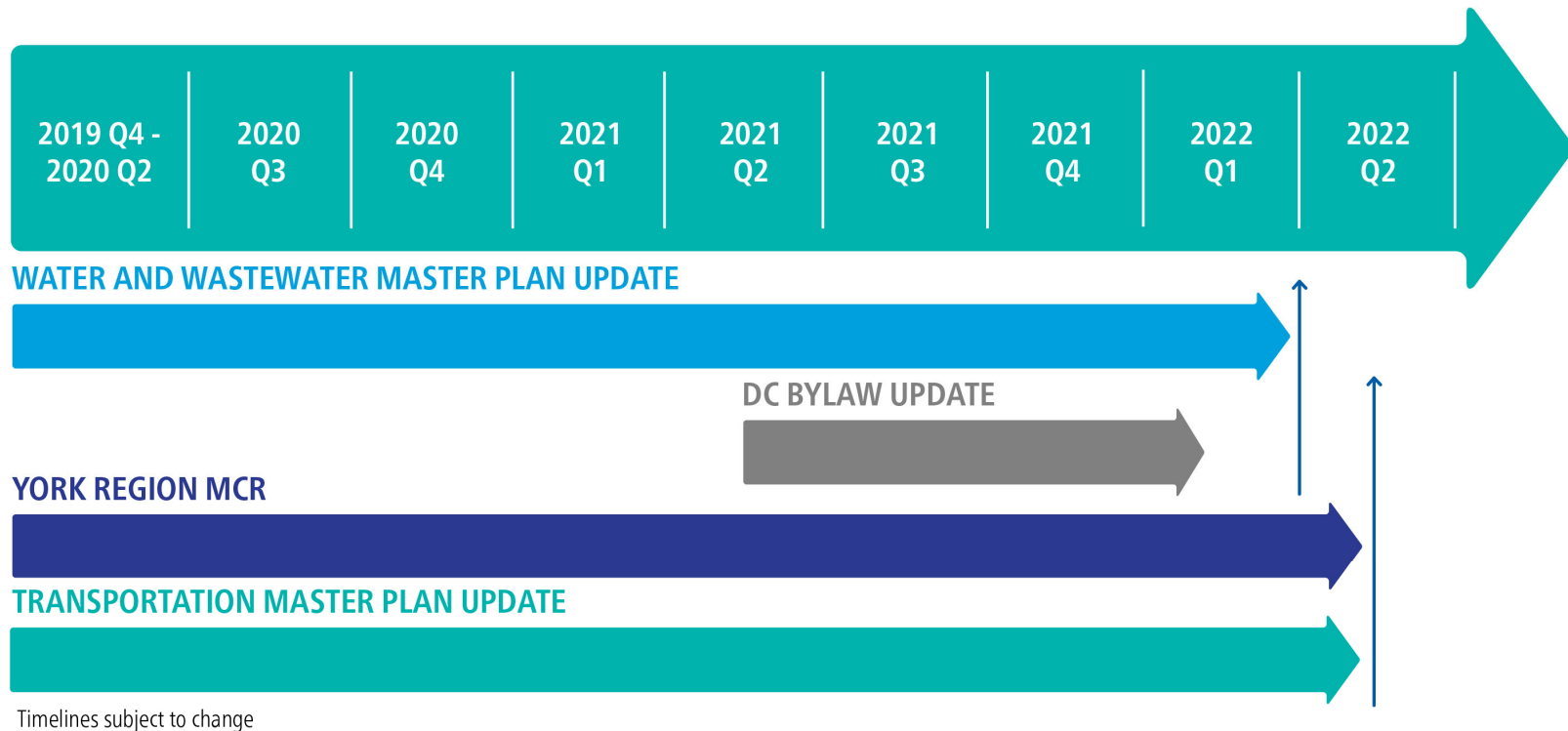


Agenda

1. Regional Context
2. Building on the 2016 Master Plan
3. Draft Infrastructure Plan
 1. Key Highlights of the New Draft Recommended Plan
 2. Implementing and Monitoring the Plan
4. Consultation and Engagement
5. Finalizing the Plan

Purpose is to present the recommended growth infrastructure program updated through the 2021 Water and Wastewater Master Plan

Integrated Growth Management



Master Plan updates aligns with ROP and DC Bylaw Updates

Master Plans Are Updated Regularly to Adapt to Changing Circumstances



- This 2021 Master Plan Update follows a tradition of long-term, sustainable service planning at York Region
- This update is a recalibration of prior plans
- Decisions continued to be guided by One Water principles introduced in 2016 to: innovate, integrate and infrastretch

New Plan Builds On 2016 Master Plan

- Extended forecast from 2041 to 2051 growth horizon
- Used approved draft Land Needs Assessment (March 2021)
- Considers UYSS Water Reclamation Centre as key component of long-term servicing

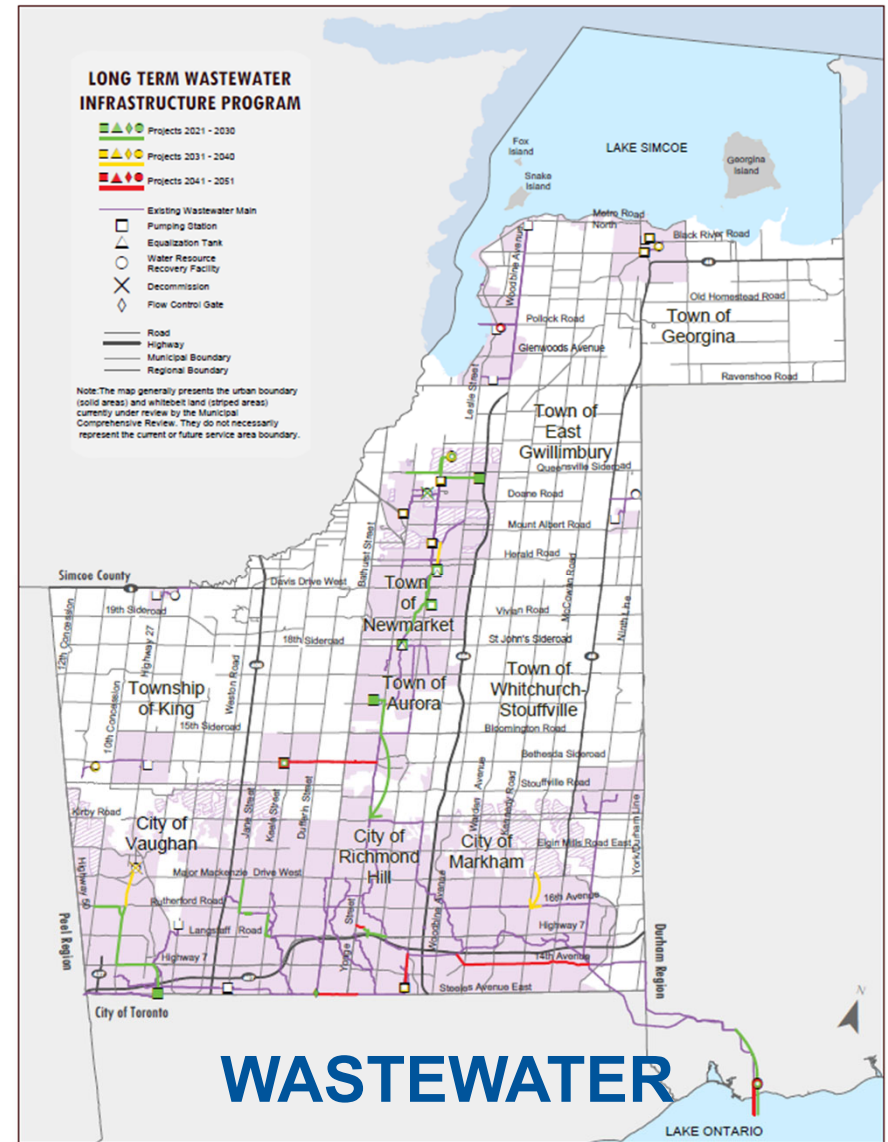
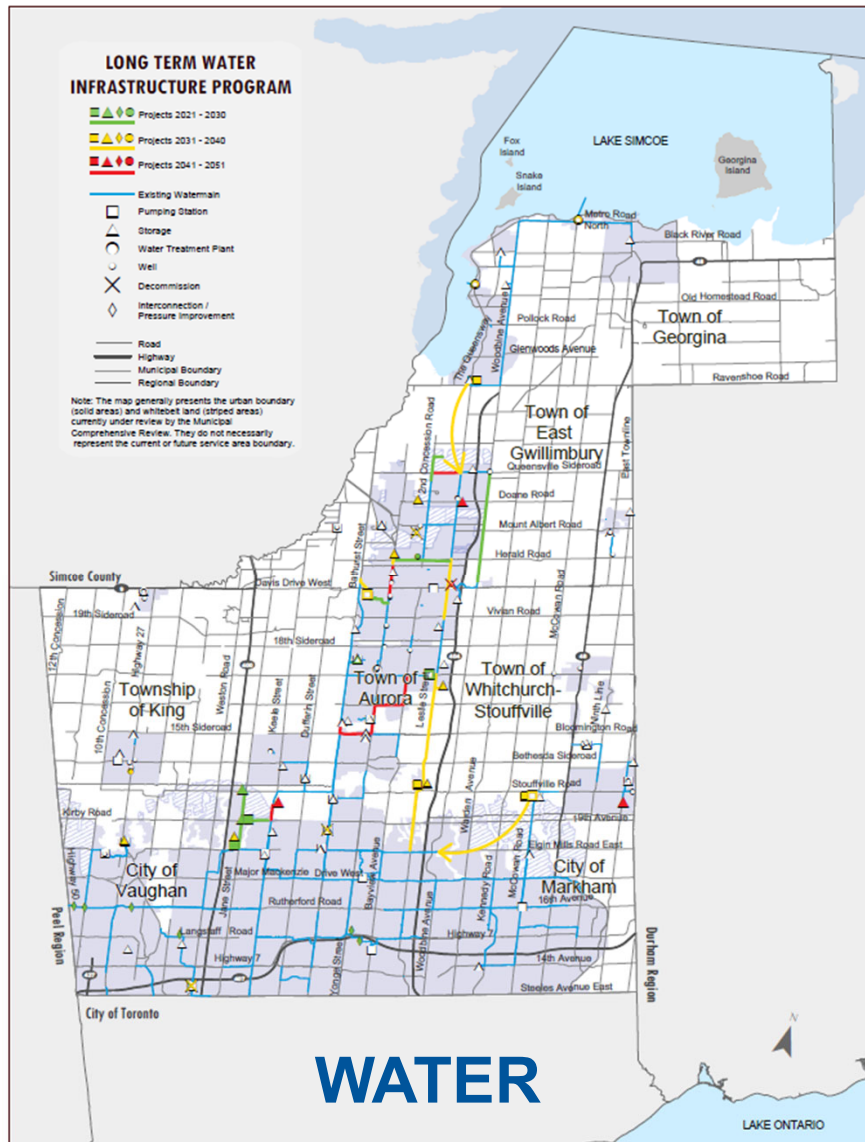
YORK REGION'S **POPULATION** is EXPECTED to GROW from



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Servicing Strategies Align With 2016 Master Plan

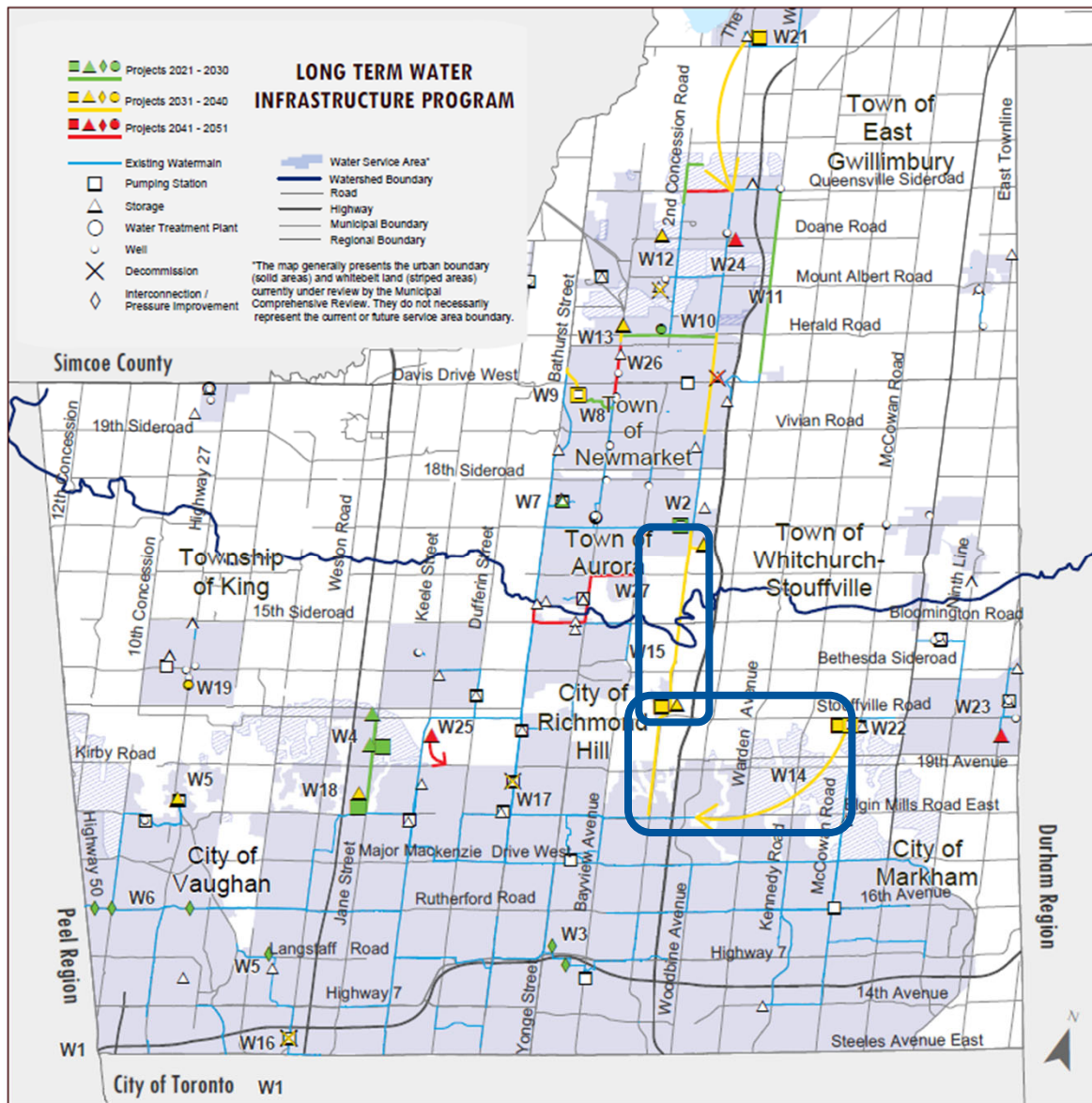


Highlights of the Infrastructure Program

To meet 2051 system demands:

- Most projects from the 2016 Master Plan have been carried forward, with some adjustments to sizing and timing
- Additional \$1.4 Billion in new water/wastewater infrastructure compared to 2016 Master Plan
- The updated water and wastewater infrastructure program totals **\$4.3 billion** over a 30-year horizon

Key Water Projects - Markham

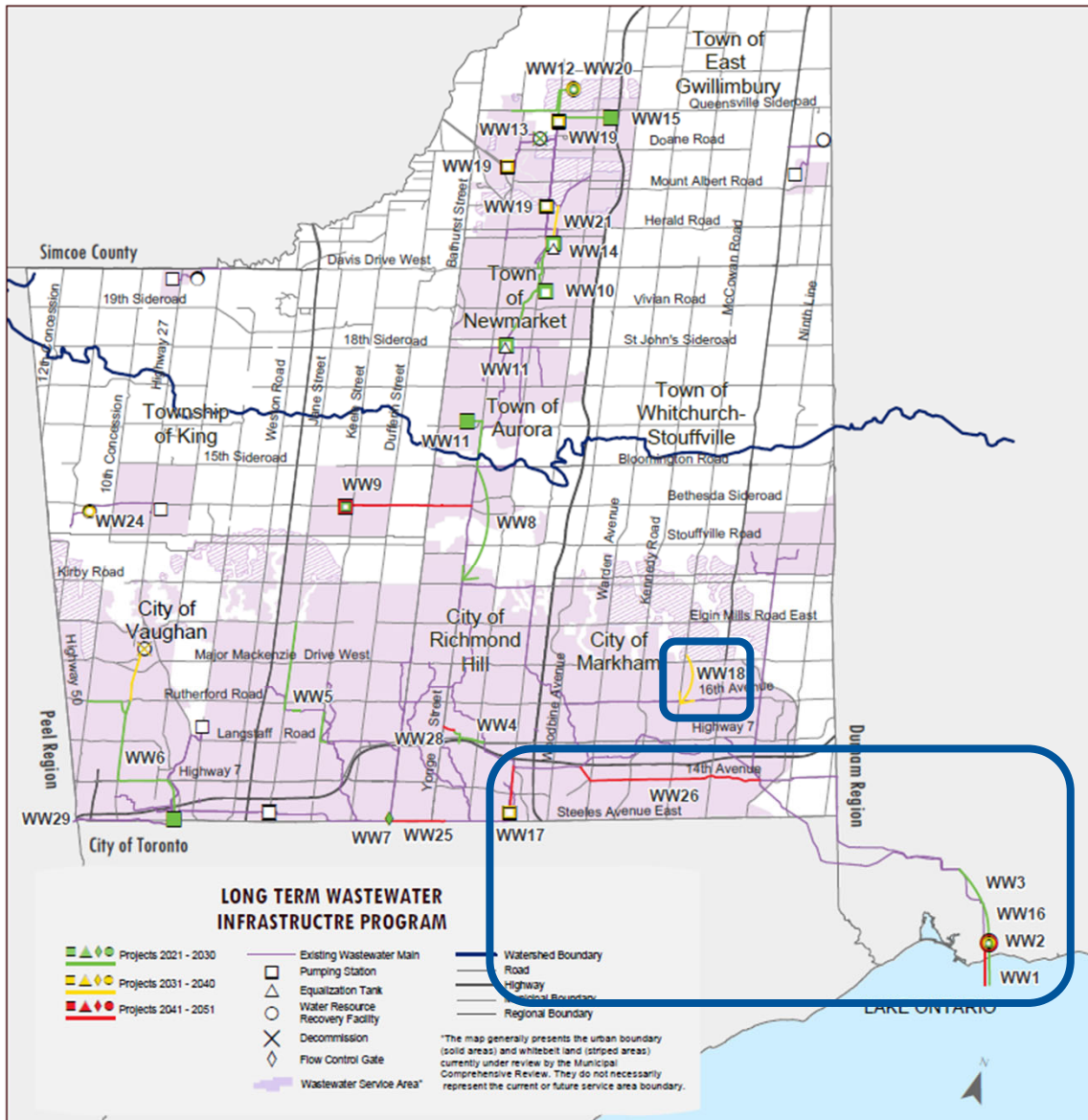


Long-term, drinking water will continue to be supplied from Toronto

North Markham Water Servicing project will bring servicing to support significant growth in urban expansion area by 2041

York Water System East Expansion project supports growth and resilience in the larger system

Key Wastewater Projects - Markham



Long term, wastewater flows will continue to be serviced through the York Durham Sewage System (YDSS)

- **North Markham Sewer** project will support growth in urban expansion area

Significant works to downstream YDSS:

- pipe network upgrades including **14th Avenue Sewer, Leslie Street Sewage Pumping Station Upgrade** and **Third Forcemain** projects
- upgrades and expansions to Duffin Creek Plant

Implementing and Monitoring the Master Plan

Infrastructure projects implemented through annual budget and **Capital Plan**

Capacity Monitoring coordinates servicing with near-term growth

Demand management programs continue to play a key role in long term service planning



Demand Management Programs

Demand management programs updated in 2021

Long Term Water Conservation Strategy Update:

- Enhanced focus on reducing non-revenue water
- Continue to raise awareness on water conservation, reducing outdoor water use and encourage water efficiency in new residential developments

Inflow and Infiltration Reduction Strategy Update:

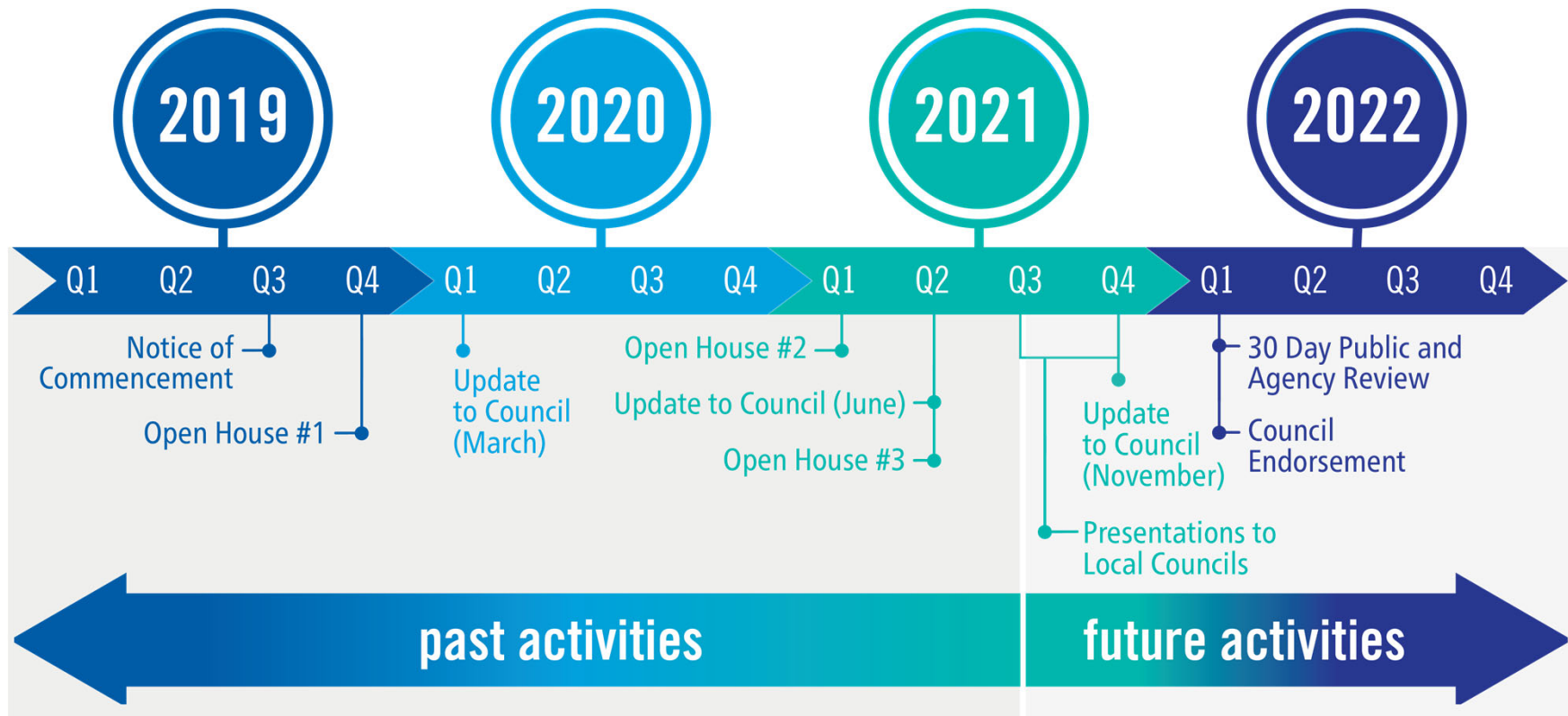
- Establishes targets specific to each Local Municipality in York Region, tailored to reflect conditions in each community
- Continued digital integration in data collection and analysis to drive actions towards long term reduction targets

Consultation and Engagement



- Engagement with local municipal staff, Indigenous Communities and development industry throughout the project
- Three public Open Houses completed
- Feedback collected and considered as input to the Master Plan and shared with other business areas

Next Steps to Finalize the Plan



Thank you

For more information

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