



2022 WATER AND WASTEWATER MASTER PLAN

Presented to
SPECIAL COMMITTEE OF THE WHOLE

Presented by
Wendy Kemp

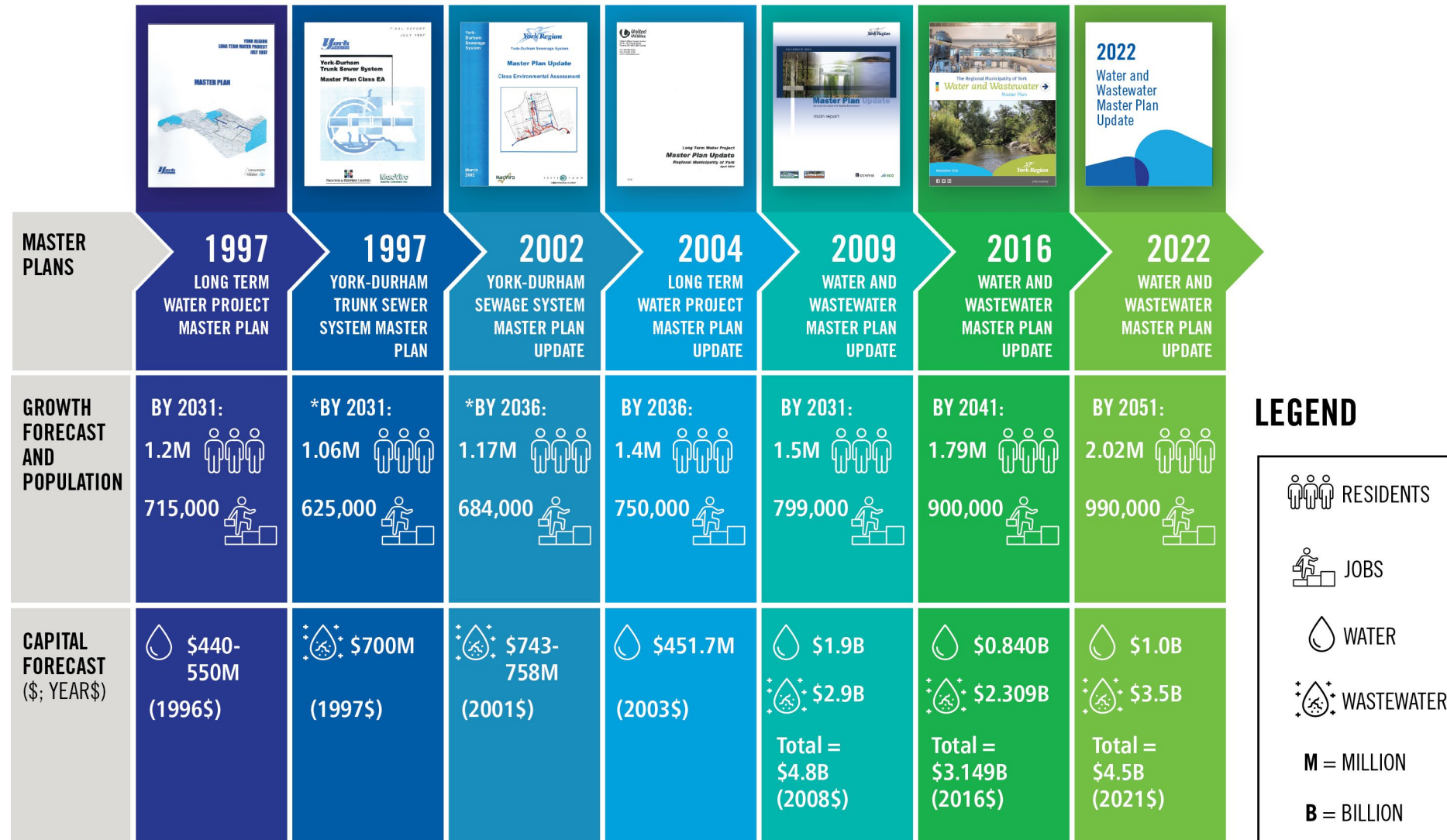
May 19, 2022



PRESENTATION OBJECTIVES

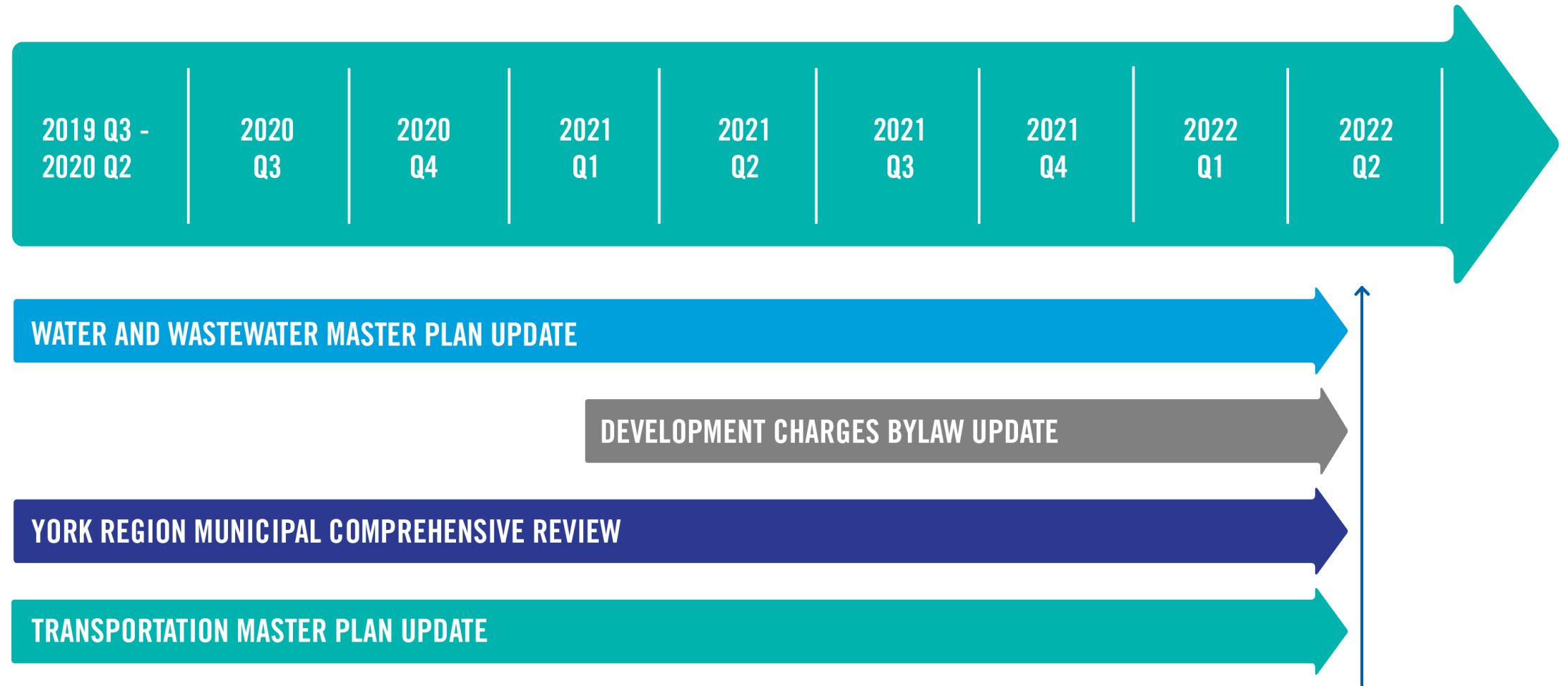
- Background and Context of this Master Plan Update
- Servicing Strategies and Infrastructure Plan
- Monitoring and Implementation
- Consultation and Engagement Summary

MASTER PLANS UPDATED REGULARLY TO ADAPT TO CHANGING CIRCUMSTANCES



*Served by the York Durham Sewage System only

INTEGRATED GROWTH MANAGEMENT



Timelines subject to change

NEW PLAN BUILDS ON 2016 MASTER PLAN

- Extended forecast from 2041 to 2051 growth horizon
- Used approved draft Land Needs Assessment
 - Includes approved Council motions from October 2021
- Considers UYSS Water Reclamation Centre as key component of long-term servicing
- One Water Approach

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



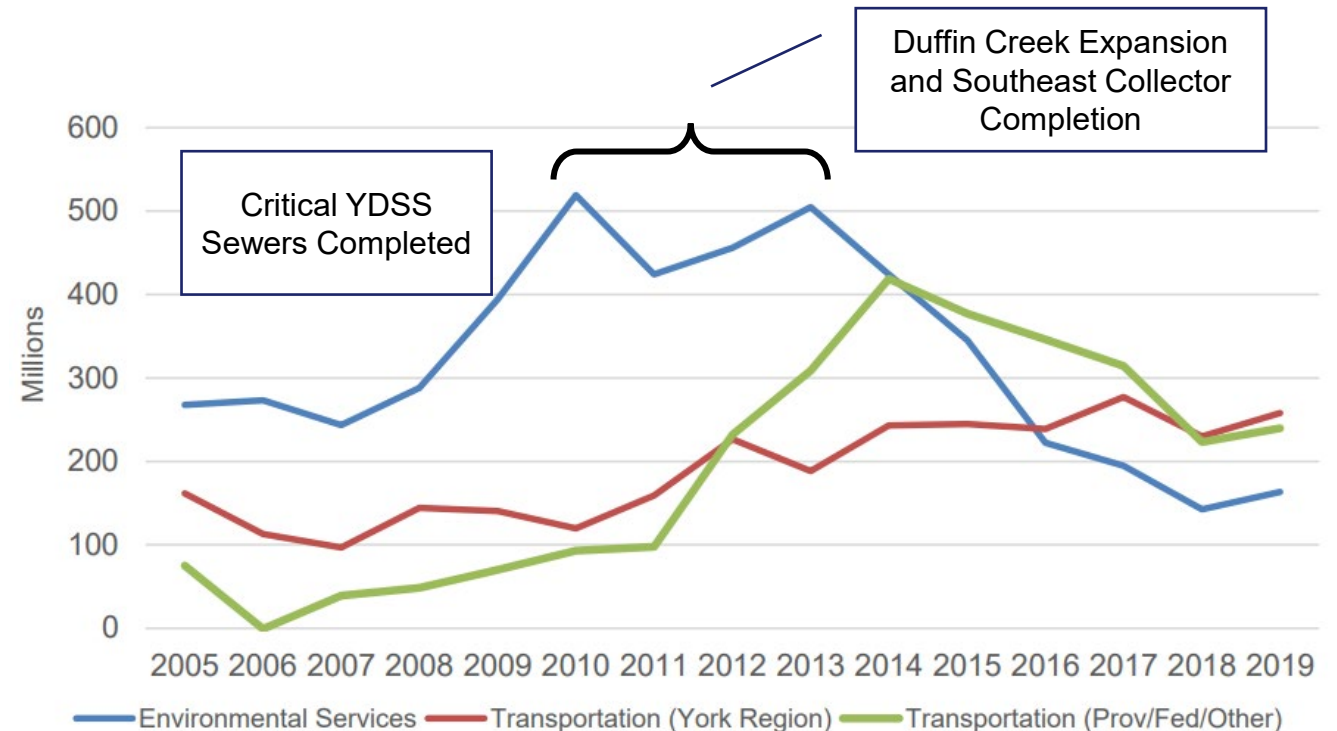
YORK REGION'S **EMPLOYMENT** is EXPECTED to GROW from



BALANCED APPROACH TO ADVANCING COUNCIL PRIORITIES

- Significant investments in infrastructure
- Experiencing lower growth rate
- Fiscal Strategy to manage debt
- Capitalize on existing infrastructure to maintain borrowing capacity for next generation

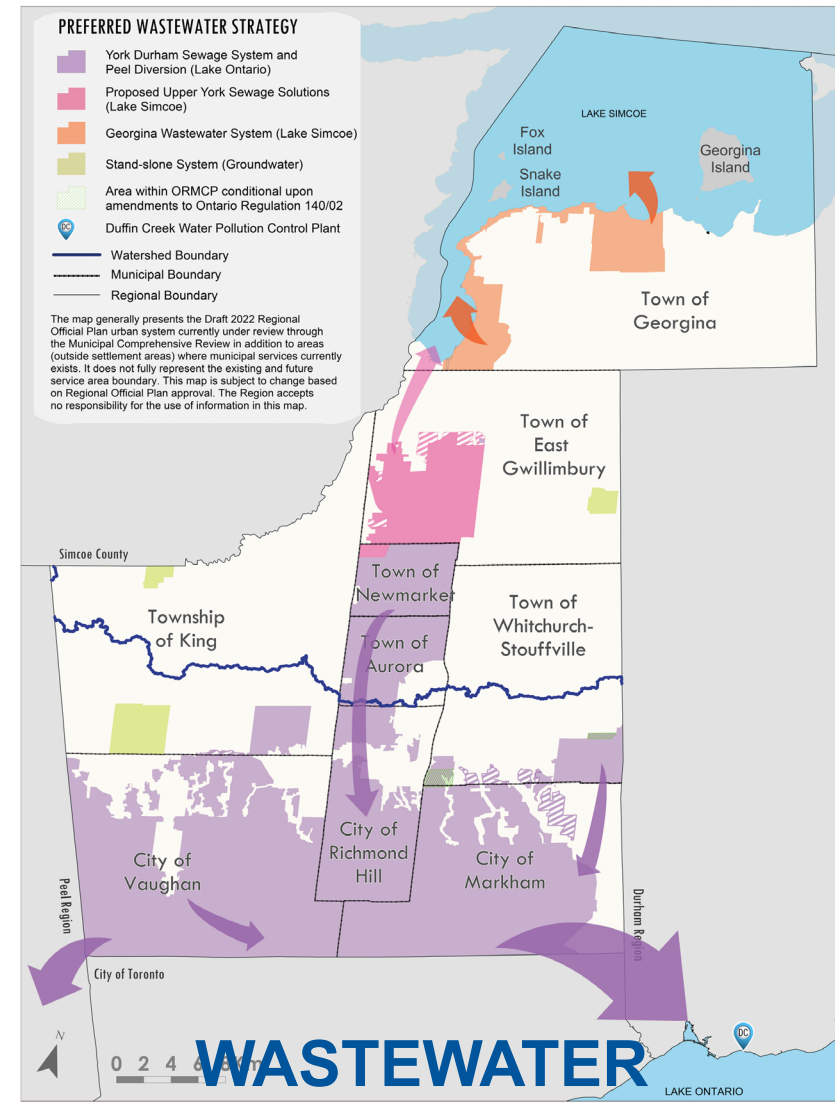
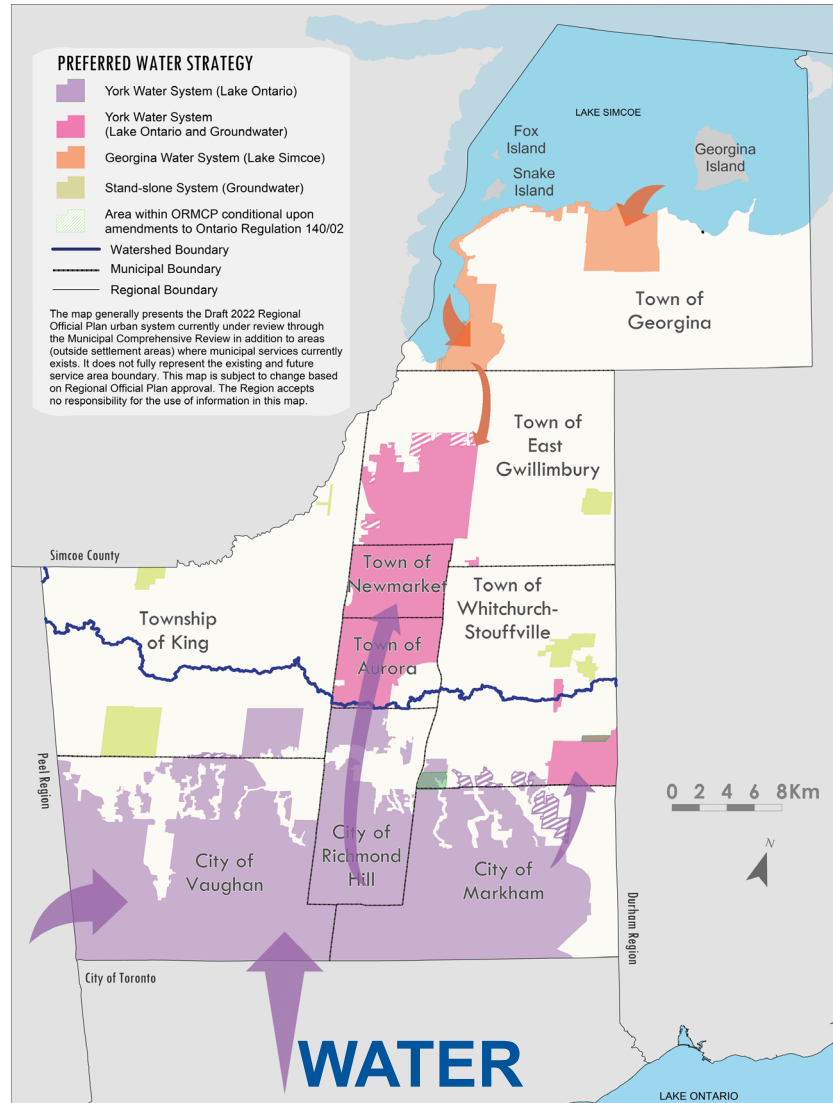
Infrastructure Investments 2005 - 2019



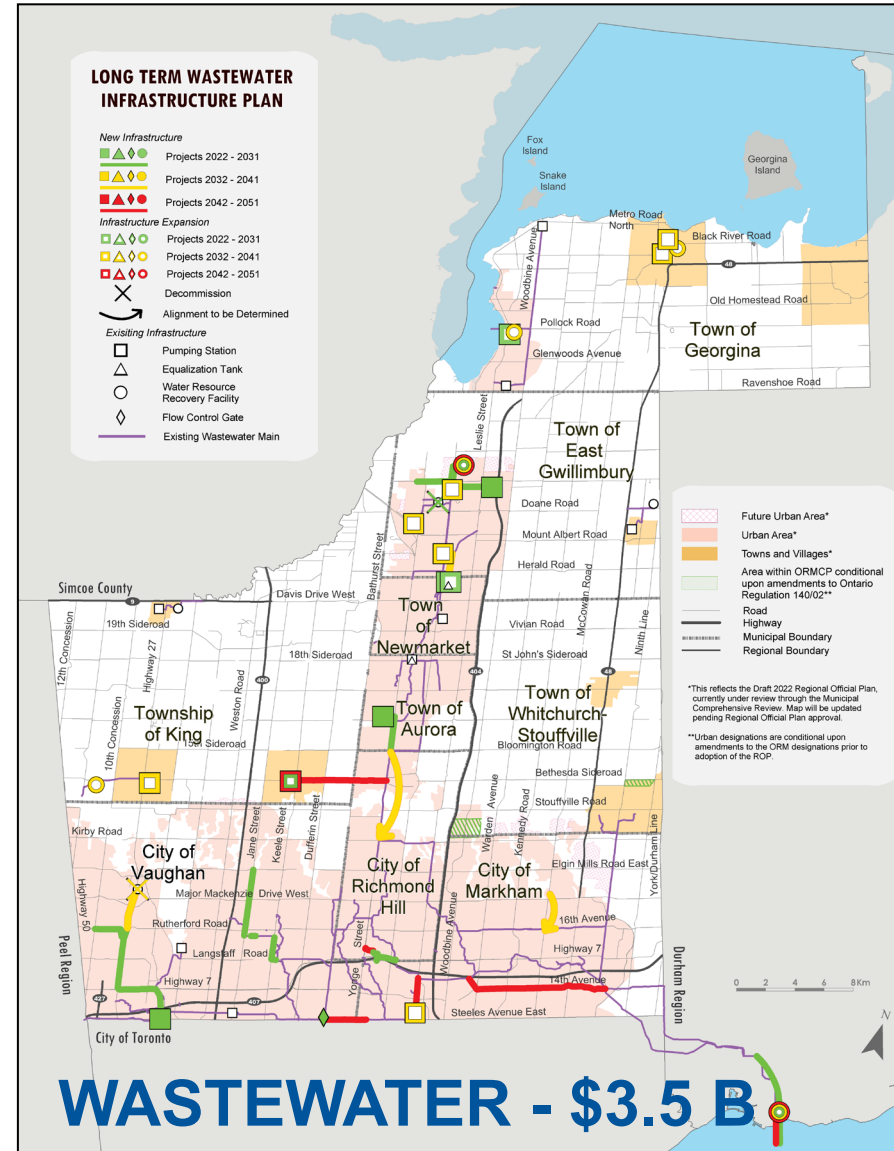
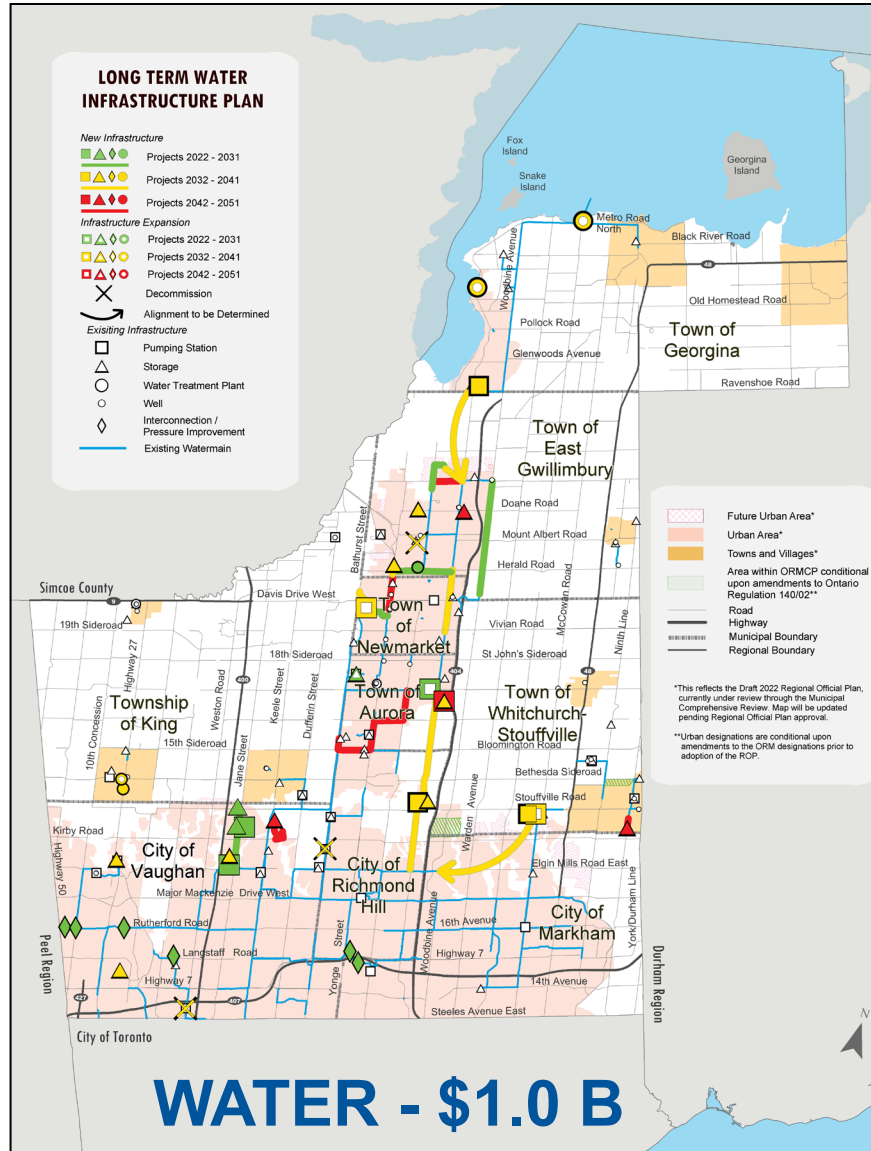
Over 178,000 persons of capacity in YDSS as of September 2021 with 5-10 years of capacity

SERVICING STRATEGIES AND INFRASTRUCTURE PLAN

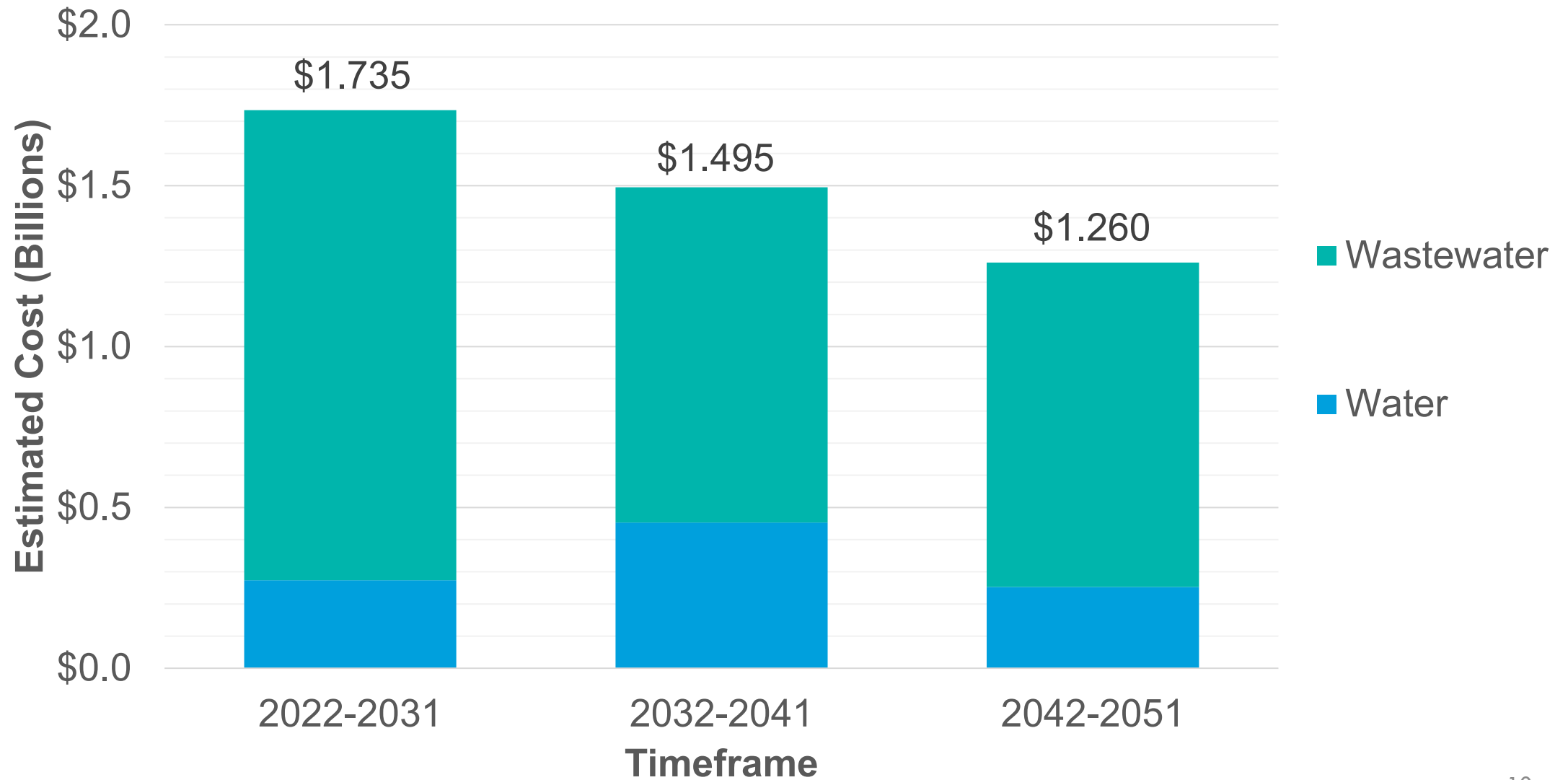
SERVICING STRATEGIES ALIGN WITH 2016 MASTER PLAN



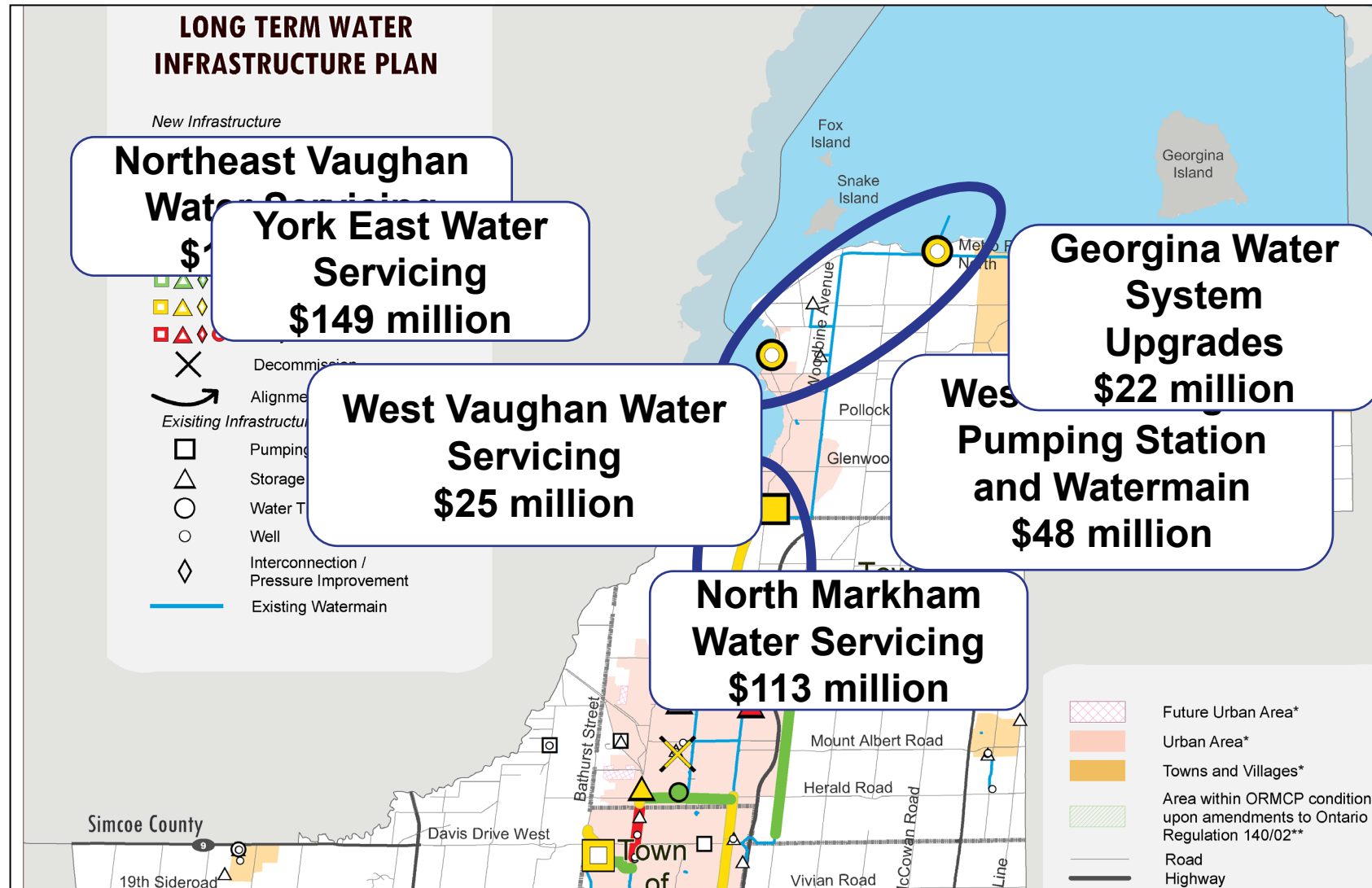
RECOMMENDED INFRASTRUCTURE TO SERVICE GROWTH TO 2051



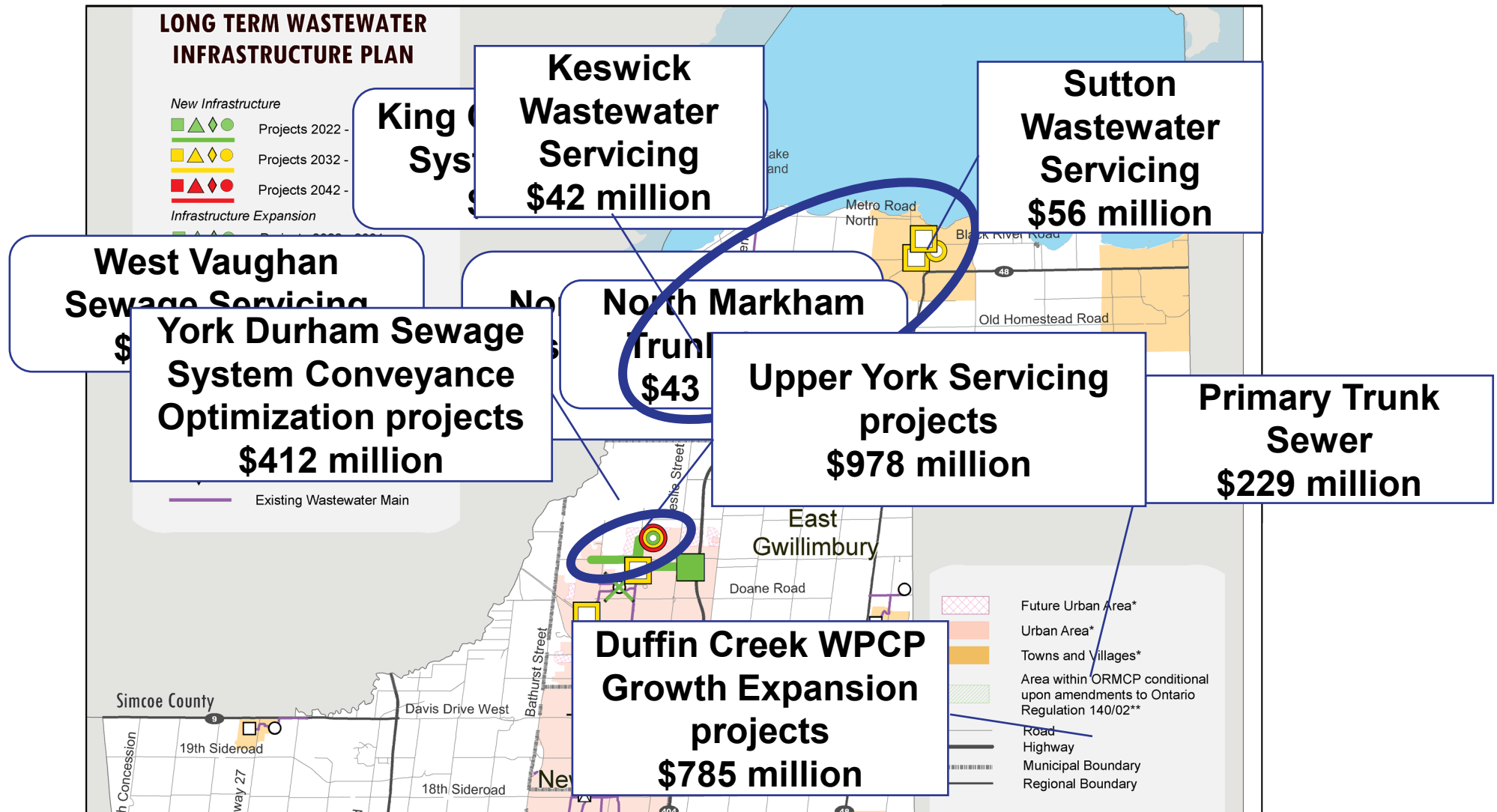
\$4.5 BILLION OF INFRASTRUCTURE REQUIRED TO MEET GROWTH BY 2051



HIGHLIGHTS OF KEY WATER PROJECTS



HIGHLIGHTS OF KEY WASTEWATER PROJECTS



FLEXIBILITY IN MASTER PLAN TO ACCOMMODATE COUNCIL DIRECTION

Council approved growth scenario modifications:

- **Township of King** – Growth be re-directed towards existing and established Township Villages rather than Whitebelt lands
- **Town of Stouffville** – Request for amendment to Oak Ridges Moraine Conservation Plan to permit proposed changes to the settlement area boundary
- **City of Markham** – Include Lands West of the Little Rouge as Residential – eastern portion of block bounded by Elgin Mills Rd, Kennedy Rd, 19th Ave and Warden Ave designated as “Community Area”

ADDITIONAL \$200 MILLION FOR EXPANDED EG WHITEBELT

Council approved growth scenario modifications:

- **Town of East Gwillimbury** – Include Additional Whitebelt Lands in 2051
Timeframe – designate a minimum of 70% of Whitebelt lands as Community and Employment areas
 - 2nd Expansion of Water Reclamation Centre required to advance into 2041-2051 period
 - Subject to Provincial approvals

UYSS ESTIMATED INFRASTRUCTURE COSTS

Total cost of wastewater works only currently anticipated as follows:

Phase	Estimated Completion Date	Cost** (\$)	Units	% of East Gwillimbury Whitebelt
Initial Construction	2029*	650 M***	15,333	0%
1 st expansion	2041	223 M	7,667	40%
	Total	873 M	23,000	40%
2 nd expansion	2046	205 M	7,333	60%
	MCR Grand Total	1,078 M	30,333	100%

*dependent on approval

**updated costs reflect 2022 Master Plan

*** includes \$100M already spent

MONITORING AND IMPLEMENTATION

MASTER PLAN GUIDES IMPLEMENTATION TO CREATE CAPACITY FOR GROWTH

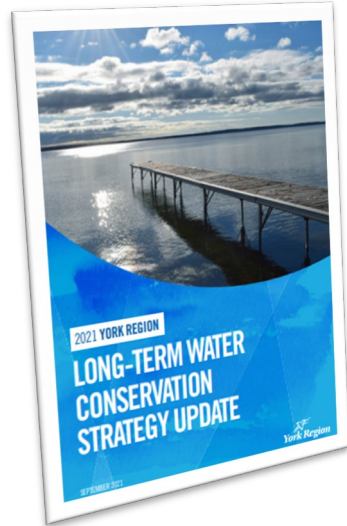
Infrastructure projects implemented through annual budget and **Capital Plan**

Capacity Monitoring coordinates servicing with near-term growth

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

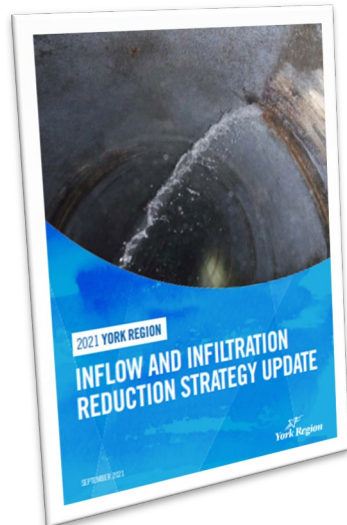


DEMAND MANAGEMENT PROGRAMS UPDATED IN 2021



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 SUMMARY

CONSULTATION AND ENGAGEMENT COMPLETED IN MID 2021

2019



OPEN HOUSE 1
Understanding
York Region's Water

**Opportunity
Statement**

EARLY 2021



OPEN HOUSE 2
Servicing Strategies

**Identification of
Servicing Strategies**

MID 2021



OPEN HOUSE 3
Our Path Forward

**Recommended
Solution**

Content and summary reports on [York.ca/waterplan](https://york.ca/waterplan)

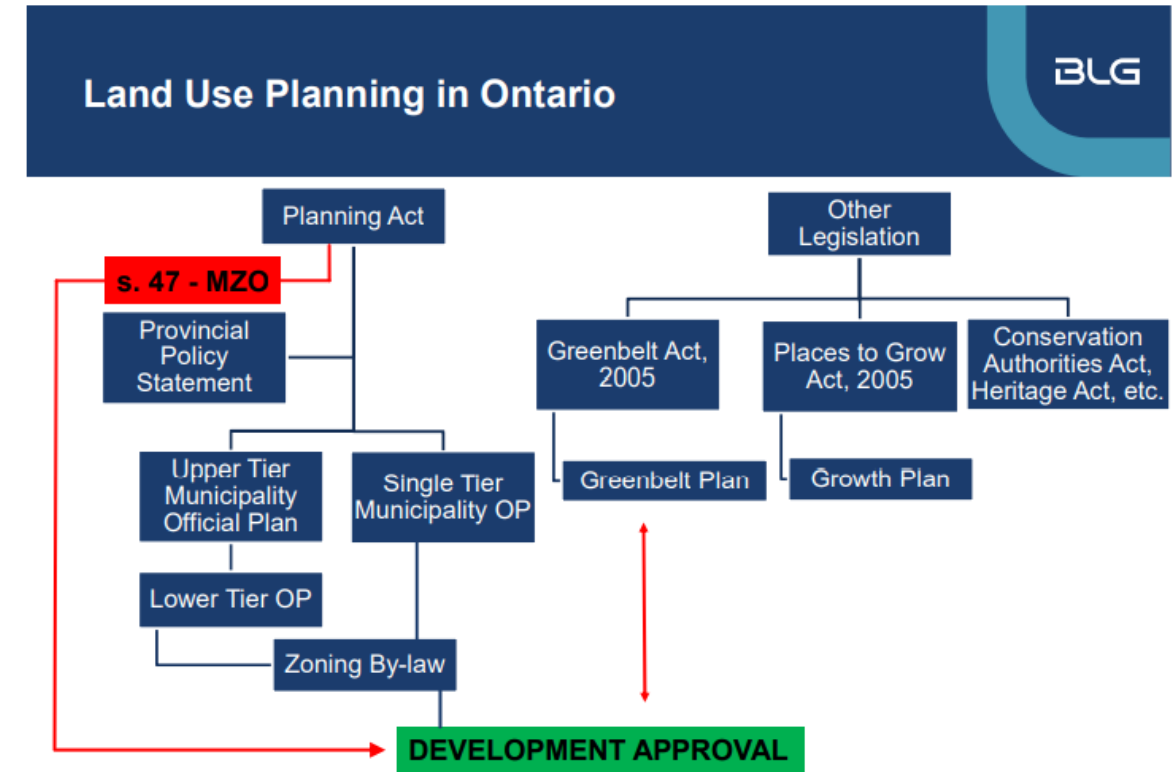
POSITIVE FEEDBACK FROM LOCAL MUNICIPAL ENGAGEMENT

Opportunities for consideration:

- Timely wastewater capacity to allow communities to develop in an uninterrupted manner
- Need resilient services and robust infrastructure to deal with issues
- Heightened coordination between the Region and local municipalities to plan and service growth, including:
 - The role of regional and local infrastructure
 - Phasing of infrastructure to ensure financial sustainability in accordance with new Regional Official Plan policies
 - Servicing for Minister's Zoning Orders

MINISTER'S ZONING ORDERS REQUIRE AGILE SERVICING PLANS

- Minister's Zoning Orders advance land use planning process
- Poses challenges to traditional methods
- Requires rework of the infrastructure plan to reprioritize and reevaluate servicing needs
- Trade offs recalibrate to meet shifting objectives



This is an oversimplified diagram for illustrative purposes only

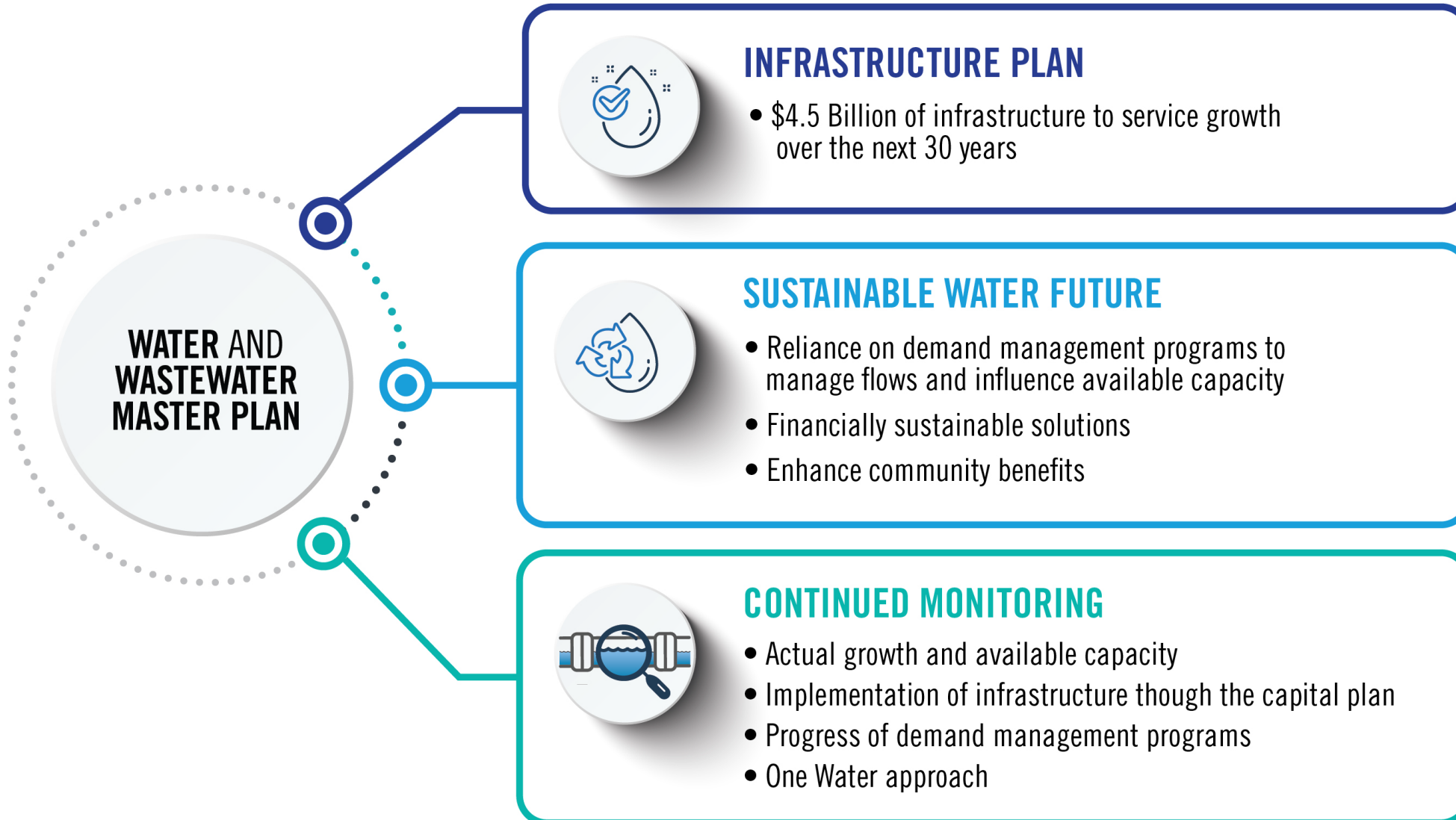
Source: AMCTO

RESPONDING AND ADDRESSING LOCAL COUNCIL RESOLUTIONS

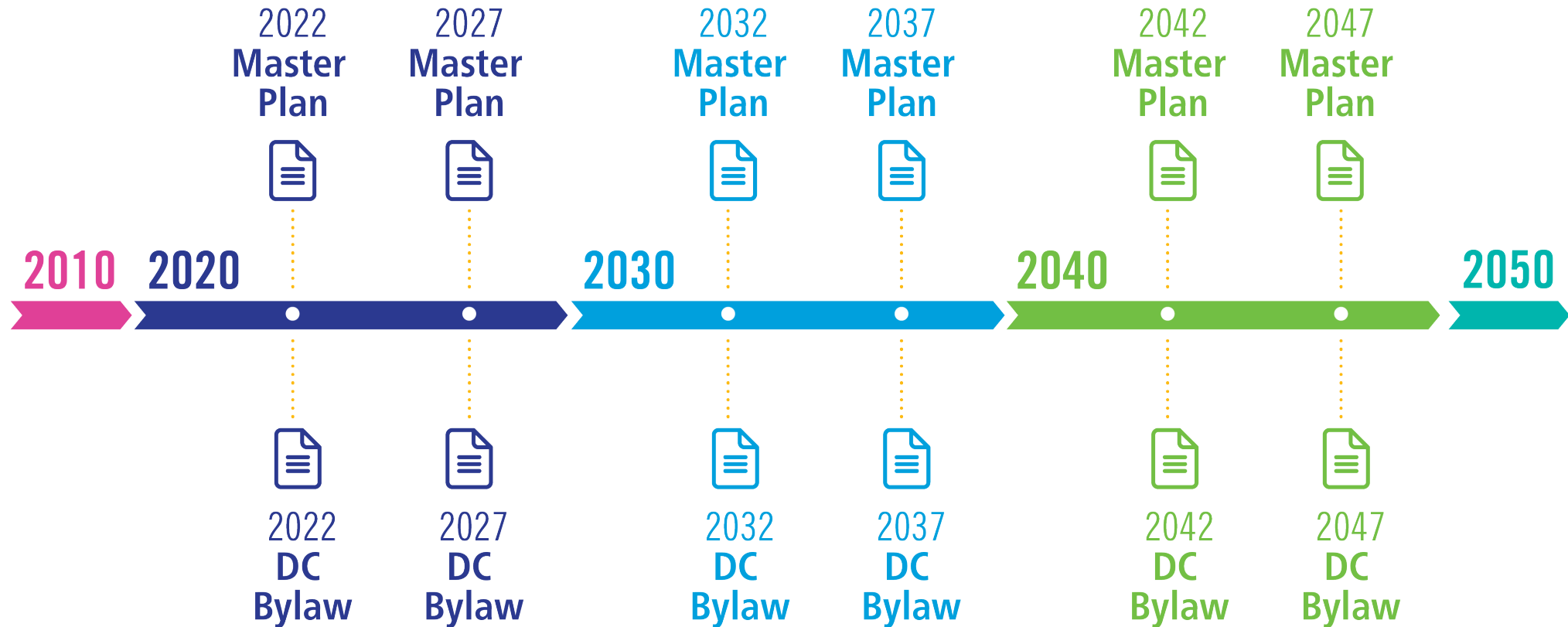
Markham

- Markham Council requested advancing water and wastewater infrastructure to support North Markham growth
 - 132,000 people in North Markham and Whitebelt areas by 2051
 - Wastewater services - existing YDSS 16th Ave and new North Markham Wastewater Project
 - Water services - expand existing York Water System through new North Markham Water Project
 - Total cost of new projects - \$156 Million in early 2030s
- Propose to advance Environmental Assessment from 2027 to 2024
 - Deeper analysis on phasing of growth
 - Commitment to revisit construction timing based on EA findings

OUTCOMES OF THE 2022 MASTER PLAN



MULTIPLE OPPORTUNITIES TO RECALIBRATE BY 2051



Creating fiscal room for the next generation of infrastructure projects

RECOMMENDATIONS TO COMMITTEE OF THE WHOLE

1. Council endorse the 2022 Water and Wastewater Master Plan Update and list of infrastructure projects and programs, exclusive of the Upper York Sewage Solutions project (Attachments 1 and 2)
2. Council approve inclusion of the Upper York Sewage Solution project in the Master Plan Update to meet growth needs in the Towns of Aurora, East Gwillimbury and Newmarket as outlined in Attachment 3
3. The Regional Clerk circulate this report to the Clerks of the local municipalities, conservation authorities (Toronto and Region and Lake Simcoe Region Conservation Authorities), the Director of the Central Region Office, Ministry of the Environment, Conservation and Parks and Ministry of Municipal Affairs and Housing

Thank You

