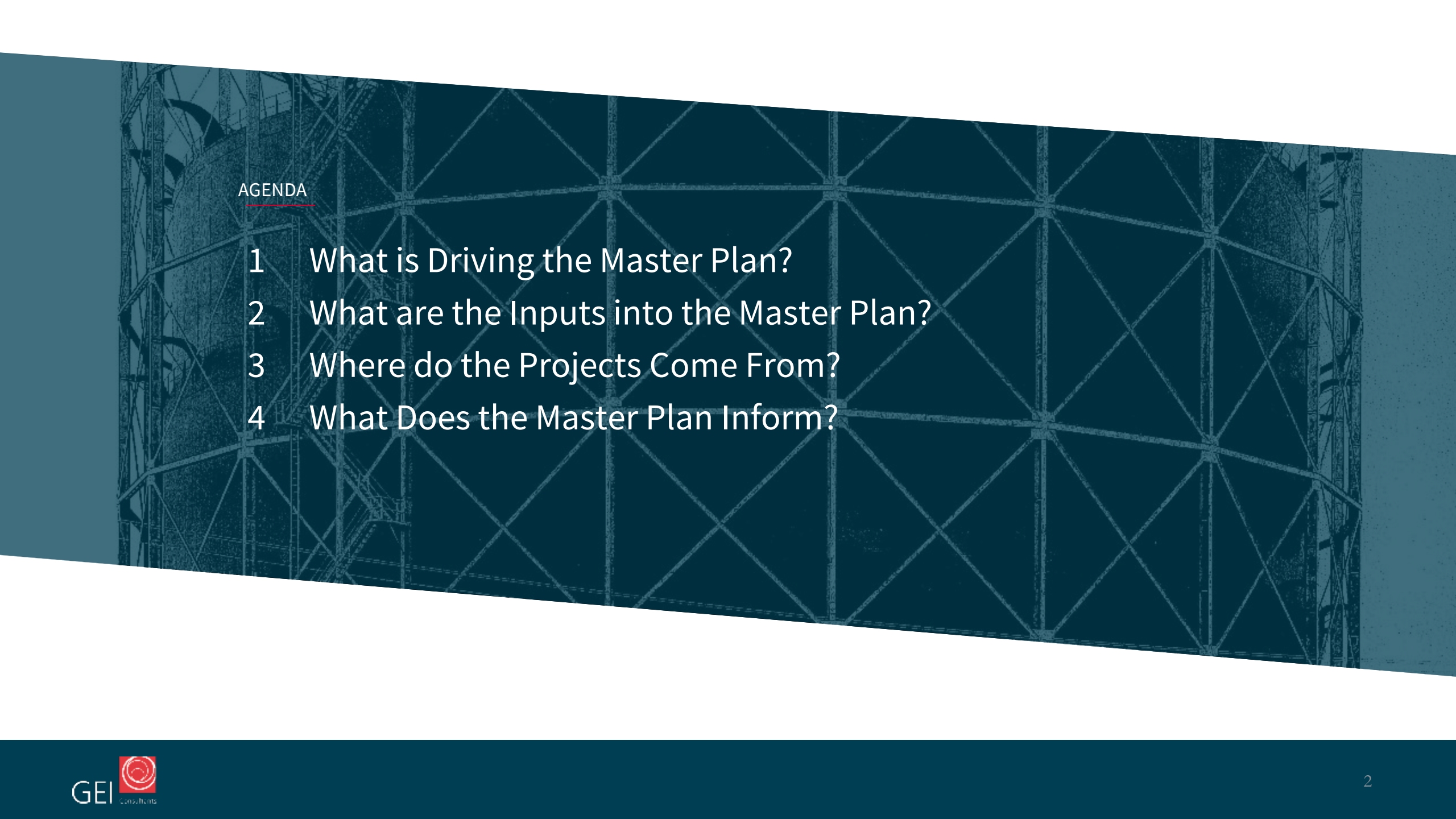




# **Municipality of South Huron Water and Wastewater Master Plan Special Council Meeting**

February 24, 2025





## AGENDA

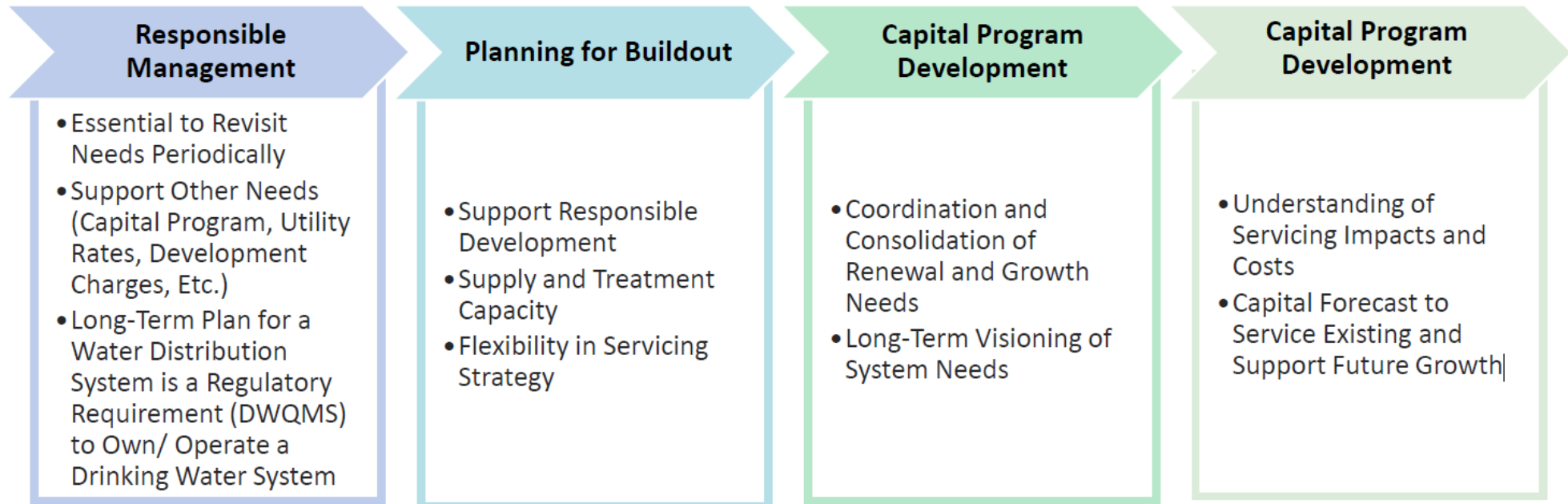
- 1 What is Driving the Master Plan?
- 2 What are the Inputs into the Master Plan?
- 3 Where do the Projects Come From?
- 4 What Does the Master Plan Inform?

# What is Driving the Master Plan?

# What is Driving the Master Plan

GEI Presentation of February 3, 2025

## What is Driving the South Huron Water and Wastewater Master Plan?



## What is Driving the Master Plan

## Responsible Management

- ***Revisit Needs Periodically***

- Review previous Master Plan. What's complete; what's not; and are recommendations still valid
- Review **new information and reports**, such as: MECP Inspection reports, main break reports, maintenance records, laboratory results, sewage by-pass reports, Asset Management Plan, and Road Condition Study (ie. 2021 SOI Report)
- Review updated Regulations, Best Management Practices, Council direction such as allocating 50% of road restoration costs on reconstruction projects to water & sewer.

- ***Support other needs***

- Identify and prioritize projects for annual capital and operating budget and 10-year capital forecast.
- Provide information for Water / Wastewater **Rates and Financial Plan**
- Identify growth related projects for Development Charges Background Study

- ***Long Term Plan for Water System***

- Regulatory requirement to maintain License (DWQMS), renewal in 2026.

## What is Driving the Master Plan

## Planning For Buildout

- ***Support Responsible Development***

- Alignment with Official Plan and Official Plan Update
- Utilize existing infrastructure investments.
- Consider servicing upgrades for lands within existing settlement areas
- Consider long term growth, including allowances for future expansion of existing settlement areas.

- ***Water Supply and Treatment Capacity***

- These are expensive, so long-term planning is critical
- Exeter-Hensall pipeline and LHPWSS WTP capacity.
- Exeter WWTF upgrades to access approved capacity
- Long-term plan for replacing Exeter sewage lagoons with Mechanical Treatment Plant.
- Grand Bend STF designed as an expandable plant and includes 20 years of growth.

- ***Flexibility in Servicing Strategy***

- Plan so that growth related projects are built when needed or when opportunities arise.
- Partner with others for mutually beneficial projects (ie. Developers and other Municipalities).
- Regulatory requirement to maintain Licence (DWQMS), renewal in 2026.

## What is Driving the Master Plan

## Capital Program Development

- ***Coordination and Consolidation of Renewal and Growth Needs***
  - Consider growth in the design of all **street reconstruction projects**.
  - Consider growth in other infrastructure upgrades, such as the **watermain replacement** project on Grand Bend Line and treatment plant projects such as the Exeter Sewage Lagoon sand filter rehabilitation project.
  - Partner with others, such as Developers and other Municipalities, whenever possible, for **mutually beneficial projects** such as water & sewer oversizing for the CVD Development and Grand Bend Sewage Treatment Plant.
- ***Long-Term Visioning of System Needs***
  - Road map to follow for planning future projects
  - Planning 10-year capital budget forecast
  - Long term planning for water supply and wastewater treatment capacity.
  - Partner with others for mutually beneficial projects (ie. Developers and other Municipalities).
  - Regulatory requirement to maintain Licence (DWQMS), renewal in 2026.

## What is Driving the Master Plan

## Capital Program Development

- ***Understanding of Servicing Impacts and Costs***
  - Alignment with Road Condition Study (ie. 2021 SOI Report)
  - Alignment with Asset Management Plan and CCTV Inspection ratings for Sewers
  - Alignment with Water & Wastewater Rate Study and Financial Plan
- ***Capital Forecast to Service Existing and Support Future Growth***
  - Annual Operating and Capital Budgets
  - 10-year capital forecasts



What are the inputs into the Master Plan?

## Master Plan Inputs

- **W/WW Operational Info** - Inspection Reports, Operational & Maintenance Records (ie. MECF Inspection Reports, Main break Reports, Hydrant & Valve Maintenance Records, Bacteriological Results, Sewage By-pass Reports, etc.)
- **Past W/WW Studies** - Previous Master Plan, Studies, Environmental Assessments (ie. 2018 Master Plan, Grand Bend Trunk Sewer ESR, Exeter WWTF sand filter assessment report, etc.)
- **Planning Studies** - Official Plan and growth studies (ie. Existing Official Plan, OP Update, potential future growth, development pre-consultations and applications, etc.)
- **Asset Management Plan** (ie. Condition assessments, CCTV inspections, AMP recommended annual expenditures, etc.)
- **Road Condition Study** (ie. 2021 SOI Report)

# Where do the Projects Come From?



## Where do the Projects Come From?

1. Approximately **60%** of the projects are **Asset Management related** projects that align with the Road Condition Study (2021 SOI Report)
  - 67% of the Exeter Wastewater projects align with the SOI Report
  - 59% of the Exeter Water projects align with the SOI Report
  - 46% of the Stephen Water projects align with the SOI Report
2. Approximately **19%** of the projects are **Growth related**

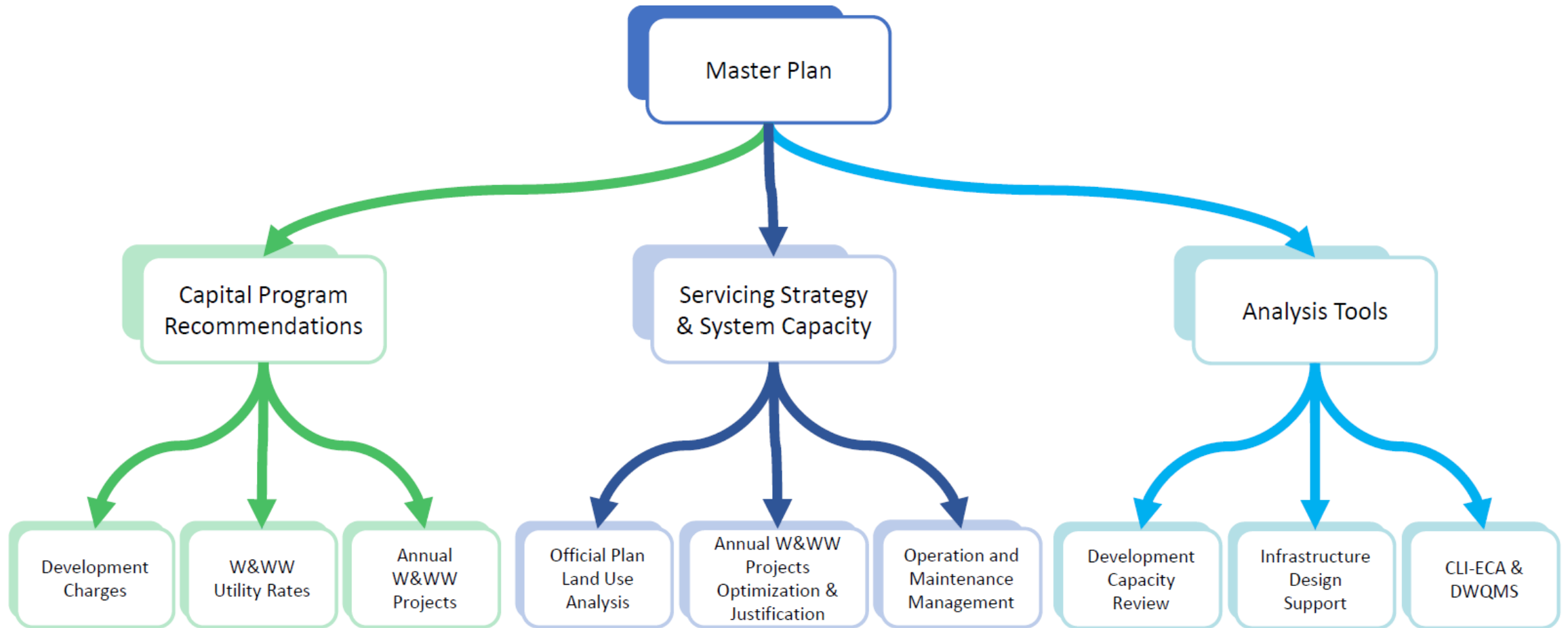
Many growth-related projects are developer driven, such as the Subdivision watermain looping, Grand Bend Trunk Sewer Extension and Crediton SPS Upgrade.

Other growth-related projects are Municipal driven, such as the future Exeter Water Tower and future Exeter Mechanical Sewage Treatment Plant.
3. Approximately **18%** of the projects are **Infrastructure Improvements** such as meter replacements, SCADA upgrades, water tower maintenance work, system redundancy, SPS decommissionings, WWTF filters, UV disinfection, and sludge removal
4. Approximately **7%** of the projects are related to improved **fire flow** and **4%** of the projects are rural **watermain replacement** projects.
  - Regulations (ie. DWQMS, Soil Management Regulation, etc.)

# What does the Master Plan Inform?

# What does the Master Plan Inform?

GEI Presentation of October 15, 2024





## What does the Master Plan Inform?

- DC Charges Background Study
- Water / Wastewater Rate Study
- Water and Wastewater Financial Plan
- Annual Capital and Operating Budgets
- 10 Year Capital Budget Forecast
- Official Plan Update

## What does the Master Plan Inform?

- Operational & Maintenance decisions
- Development Reviews
- Infrastructure Design Support
- CLI-ECA Applications Review and Approval
- Drinking Water System License Renewal (DWQMS Requirement)
- Grant Funding Applications

Questions?

