



Region of Halton
*Enabling the
Right Technologies*

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 Water Environment
Association of
Ontario

 Ontario Water Works
Association
A Section of AWWA

Agenda

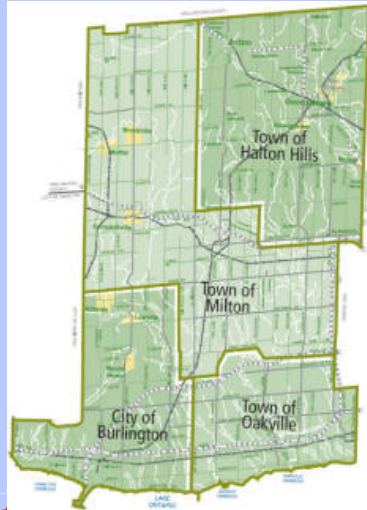
- Halton's asset configuration
- Asset Management Background & Vision
- Work Order Management Systems
- Implementation Status & next steps



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Region of Halton



- Located along Lake Ontario between Hamilton and Peel Region and forms part of the GTA
- Asset Base
 - 7 Wastewater Plants w/approximately 100 pump stations
 - 5 Water Plants – Lake and Well based
 - 2000 KM of Watermains & 1700 KM of Wastewater Mains
- Current population 430,000 & projected 731,000 by 2031



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Current State

- Incomplete Asset Inventories
 - GIS
 - Plant Maintenance SAP Work Order – Master Data
- Work Order & Paper Based Systems
- Project Rating forms to evaluate priorities
- Stand alone databases
- Data Access & Sharing
- Limited field access
- Standard out of the box reporting



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Challenges

Operations

- Linking work performed to assets
- Evaluation of asset performance & links to decision making on procurement and maintenance activities
- Incomplete asset attributes information
- Priority setting to ensure strategic spending between different asset types
- Technology acceptance & utilization capability
- Implementing new business processes
- Communications
- Improve coordination with infrastructure partners



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Challenges

Corporate

- Evaluation of appropriateness of funding levels
- Understanding drivers of funding increases
- Demonstrating Sustainable infrastructure capability
- Forecasting work and funding requirements



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VISION

- Complete asset inventories
- Computerized Maintenance Management
- Integrated Data – Business Warehouse/Business Intelligence
- Asset Visualization
- Data Analysis, Key Performance Indicators and Dashboard Reporting
- Reliability Centered Maintenance
- Strategic Asset Renewal
- Sustainable Infrastructure & Long Range Forecasts
- Risk Management



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Work in Progress

- Implementation of Computerized Work Order System for Linear
- Upgrade of SAP PM Work Order System
- Integration of Time Management with work orders
- Web-based interfaces to permit field access
- Field deployment of work orders
- Corporate IT platforms implemented to support vision
- Computerized Time & Activity tracking already in place



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Anticipated Benefits

- Improved customer responsiveness
- Reduced work duplication
- Improved data currency & timeliness
- Better asset information
- Reporting and analytics
- Performance management
- Improved decision making
- Strategic spending
- Defensible funding requirements
- Sustainable Infrastructure



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Lessons Learned

- Identify known risks and mitigation strategies
- Anticipate unforeseen challenges when developing project timelines and include buffer to accommodate
- Use internal audit to validate implementation and solid business processes



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Lessons Learned

- Identify critical resources and other competing initiatives impacts (collaborate on project plans for resource allocation)
- Stakeholder requirements – interfaces
- Communication with Council & Senior Management
- Involve implementers from day one



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What should I do?

- Ensure full engagement of the project sponsors
- Spend time looking at solutions others have implemented
- Communicate frequently
 - Council & Senior Management
 - Project Stakeholder
 - Implementers & the “burning platform” for change
- Explore total cost of ownership & it’s relationship to ease of use & level of expertise required to operate



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What should I do?

- Engage the implementers early
- Periodic review of project plan, risk assessments, & implementation timelines
- Reach stakeholder consensus on:
 - Data sets & how to be handled, augmented or addressed through the implementation
 - Reporting
 - Asset Management Objectives
 - Roll out
 - Integration points
- Have a dispute resolution process agreed to early in the project



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Questions?



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