MUNICIPAL ASSET MANAGEMENT: THE BUSINESS CASE FOR A GEOSCIENCE INFORMATION AND VISUALIZATION PLATFORM
OVERVIEW

• What is Asset Management?
• Application to Environmental Info
• Major Gap In City Information Base
• Steps Forward
ASSET MANAGEMENT

Integrated System Wide Approach

• inventory: data collection and review
• data management: storage & access
• objectives, assessments, priorities
• decisions
OTTAWA IMPLEMENTATION

- Authoritative Data Sets
- Interpretation / Documentation
- Exchange of Information
  - Clip & Ship
  - Online Documentation
  - Receive
FEATURES

- Data sets by project type
- Citywide synthesis vs. project one-offs
- Assists users with interpretation
- Standardized mapping & data presentation
- Updated as conditions change
BENEFITS

- Cost savings: major studies/assessments
- Increases consistency and clarity
  - methodology, interpretation
- Reduces uncertainty
  - study scope & approvals
- Responsive to user needs
- Better plans, designs, decisions
Example of Integration: Our Watershed Scale Geology Defines Us
Permeable Materials,
Wetlands, & Wooded Areas
Major Data Gap: Detailed Geology/GeoScience

• Planning/Land Use: Agriculture, Aggregates, Environmental, Development

• Design & Construction: Facilities, Roads, Pipes

• Water Resources: Drinking Water, Stream Flows
EXAMPLE SAVINGS / LEVERAGE

- Annual Investment ~ $3,000,000
- Example Project Savings: Existing Data

<table>
<thead>
<tr>
<th>Project</th>
<th>Data Costs</th>
<th>Savings</th>
<th>Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LRT Tunnel</td>
<td>$60,000</td>
<td>$1,750,000</td>
<td>29</td>
</tr>
<tr>
<td>Road Widening</td>
<td>$500</td>
<td>$30,000</td>
<td>60</td>
</tr>
<tr>
<td>Water Main Replacement</td>
<td>n/a</td>
<td>$40,000</td>
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## City of Ottawa Capacity Budget 2015 (Millions)

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Capital</td>
<td>$689</td>
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<tr>
<td>Operating</td>
<td>$3,074</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$3,763</strong></td>
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</table>
NEEDS/NEXT STEPS

• Authoritative Dataset
  • Working with OGS / GSC
• Visualization Platform
• Process to Clip, Ship & **Receive**
• Staffing – Master Custodian
CHALLENGES

• Support a knowledge culture
• Attract & maintain expertise
• Own the problem and solution
Thank you