Advancing the Asset Management Plan

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Research and Technology

Two Divisions

RESEARCH Public Sector Digest®

TECHNOLOGY CityWide® Software Solutions



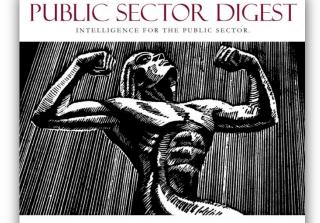
About PSD

Research and Technology

Research

Monthly publication, *Public Sector Digest* Case studies, white papers Education & policy analysis Workshops

Webinars User groups



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POWER AND MONEY

INFORMAL AUTHORITY AND THE ENDURING APPEAL OF SERVANT LEADERS RECYCLING PUBLIC ASSETS: A TIMELY FISCAL POLICY FOR GOVERNMENT HOLDING POLICE AND PUBLIC ACCOUNTABLE WITH BODY CAMERAS MANAGING THE BOOM IN WESTERN CANADA POLICING COSTS FOR STRATEGIC EFFECT TAKING INDICATORS FOR CITY SERVICES GLOBAL



About PSD

Research and Technology

Technology

CityWide® Software Solutions Enterprise-wide AM software Asset Management Self-Assessment Tool Basic, Intermediate, Advanced Asset Management Plans Consultancy





Agenda What to expect in this presentation

- 1. AMPs in Ontario
- 2. Building your asset management team
- 3. Maximizing the benefits of provincial/federal funding
- 4. Critical Activities Path
- 5. Advancing the Asset Management Plan
- 6. CityWide AMS



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AMPs in Ontario

Our perspective on the process

After 100+ AMPs:

Data integrity Communication with clients Education and training



AMPs in Ontario

Data integrity

What worked

- 1. Greater confidence with Condition versus Financial Age
- 2. Current Replacement Cost (Tender/per unit) vs CPI
- 3. Detailed Inventory With Attributes

Room for Improvement

- 1. Centralized Repository Finance/Engineering Data
- 2. Lifecycle Events/Rehabilitation Strategy
- 3. Disaggregate data Pooled for PSAB





AMPs in Ontario

Communication with clients

What worked

- 1. Departmental Participation
- 2. Asset Management Position/Role
- 3. Council or Senior Staff Buy-In

Room for Improvement

- 1. Understanding an AMP
- 2. Lack of Time & Resources
- 3. Levels of Service





AMPs in Ontario

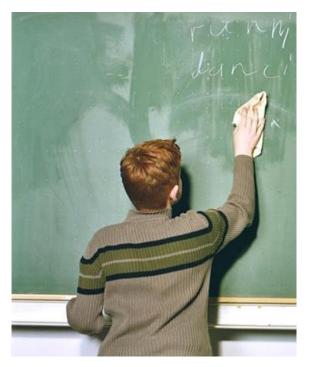
Education and training

What worked

- 1. Webinars/Training Sessions/Case Studies
- 2. Departmental Participation
- 3. CNAM, MFOA, AMO

Room for Improvement

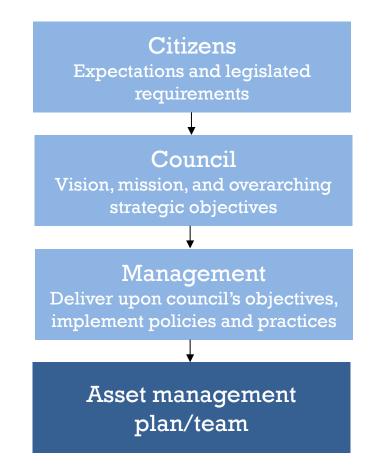
- 1. Commitment to Asset Management
- 2. Educating existing and new councils (AMO)
- 3. Critical Activities Path





Building the AM Team

Why you need it, and who should be on it





Building the AM Team

Why you need it, and who should be on it

INFRASTRUCTURE-STRATEGIC PLAN

Strategic Plan Goals, Asset Performance & Community Expectations, Legislated Requirements





Building the AM Team

Why you need it, and who should be on it





Building the AM Team

Why you need it, and who should be on it

Knowledge and technical expertise Operational expertise Skills development Technology

Video: City of Ryde Council, Australia





Provincial/Federal Funding

A process, not a project; developing the next step...the Critical Activities Path

OCIF/SCF

Comprehensive and current AMP Permanent and predictable funding

Priorities – Budgeting Annually for...

AM team AM technologies Accurate condition of data Accurate valuations Additional categories What to expect



Provincial/Federal Funding²⁰¹⁴

Ontario Community Infrastructure Fund

\$100 million per year

OCIF Formula-based funding (\$50 million)

- Allocation notices arrive by end of Sept 2014 for eligible communities (small, rural, northern)
- Grants flow by March 31, 2015
- Minimum \$25,000 per municipality- formula based on infrastructure index
- Conditions- By December 31, 2014 submit to OMAFRA:
 - Signed contribution agreements
 - A comprehensive up-to-date asset management plan
 - All outstanding reporting obligations from MIII & SRNMIF



ΤΑΜΑ

Provincial/Federal Funding

A process, not a project; linkage between developing the Critical Activities Path

Assumptions made during PSAB

- 1. Assumptions during PSAB Assessed replacement costs vs deflated costs using CPI
- 2. In-Service Dates Estimated
- 3. Pooling of Assets Versus components





Developing a practical road map

	Asset Management Self-Assessment Tool			
	Basic	Intermediate	Advanced	
State of the Infrastructure	\checkmark			
Levels of Service		✓		
Asset Management Strategy	✓			
Financial Strategy		✓		
Organizational Cognizance	\checkmark			
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Critical Activities Path

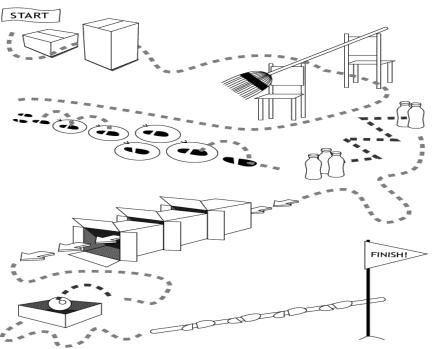
Level of Service					
Strategic Plan (Infrastructure Goals)	Basic	Intermediate		Basic	
Eurrent Level of Service Analysis	Basic	Intermediate		Basic	
egislative and regulatory requirements		Intermediate			
evel of Service framework development	Basic	Intermediate	Advanced	Basic	
Overall	Basic	Intermediate	Advanced	Basic	Inte
Overall Asset Management Strategy	Basic	Intermediate	Advanced	Basic	Inter
sset Management Strategy	Basic	Intermediate	Advanced Advanced	Basic Basic	
Asset Management Strategy					Interm
	Basic	Intermediate	Advanced	Basic	Interm Interm Interm
Asset Management Strategy	Basic Basic	Intermediate Intermediate	Advanced Advanced	Basic Basic	Interr



State of the Infrastructure

Basic activity indicators

Condition assessment Additional categories Detailed asset attributes Adopt enterprise-wide technology







Levels of Service

Intermediate activity indicators

Performance metrics are defined based on organizational knowledge and available data Work order/work flow system

Performance indicators

Strategic Financial Tactical Operational



Performance Indicators (reported annually)				
Strategic Indicators	 percentage of total reinvestment compared to asset replacement value completion of strategic plan objectives (related to transportation) 			
Financial Indicators	 annual revenues compared to annual expenditures annual replacement value depreciation compared to annual expenditures total cost of borrowing compared to total cost of service 			
Tactical Indicators	 percentage of road network rehabilitated / reconstructed overall road condition index as a percentage of desired condition index overall bridge condition index as a percentage of desired condition index 			
Operational Indicators	 percentage of road network inspected within last 5 years percentage of bridge / large culvert structures inspected within last two years operating costs for paved roads per lane km 			
	PUBLIC SECT			

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Asset Management Strategy

Advanced activity indicators

Growth and Demand

Construction of new infrastructure and/or expansion of existing infrastructure

Project Prioritization

Ranking of each project based on risk, location, coordination with other asset types





Asset Management Strategy

Risk Matrix and Scoring Methodology Risk = Probability of failure x Consequence of Failure

23 Assets	53 Assets	32 Assets	9 Assets	6 Assets
1,408.570889 units, m	8,169.549072 m	4,859.409632 m	2,208.169858 m	1,064.902005 m
\$9,099,325.35	\$5,733,890.58	\$2,581,023.56	\$1,607,440.04	\$653,531.31
62 Assets	33 Assets	44 Assets	3 Assets	9 Assets
18,823.675177 m	6,663.539556 units, m	3,078.879551 m	602.460808 m	1,776.315151 m
\$15,202,990.21	\$5,621,615.38	\$1,399,601.25	\$474,044.01	\$1,018,402.03
285 Assets	157 Assets	88 Assets	18 Assets	47 Assets
77,519.918445 units, m	86,893.000053 units, m	11,229.617174 m	2,460.359528 m	54,267.625658 m
\$24,156,800.90	\$13,006,618.39	\$4,638,619.11	\$1,591,378.38	\$18,098,022.71
473 Assets	317 Assets	516 Assets	58 Assets	103 Assets
18,835.1383 units, m	13,706.101724 units, m	46,550.167049 m	8,874.352638 m	85,144.028212 m
\$13,819,068.29	\$8,406,741.25	\$23,805,982.41	\$5,599,982.65	\$29,854,791.96
52 Assets	94 Assets	110 Assets	109 Assets	125 Assets
2,437.665982 units, m	2,599.298009 units, m	5,346.086104 units, m	20,473.230977 units, m	74,200.299339 m
\$1,778,524.67	\$1,491,152.53	\$3,183,123.30	\$8,358,806.74	\$22,188,182.28



Financial Strategy

Amortization of historical cost of investment

Principal and interest payments

Operating and maintenance costs



Financial Strategy

Inflation requirements

Renewal requirements

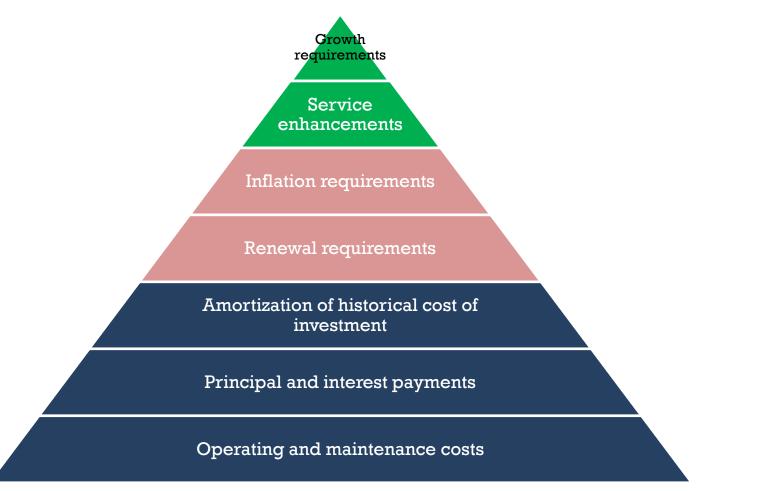
Amortization of historical cost of investment

Principal and interest payments

Operating and maintenance costs



Financial Strategy





Summary

Multi-year approach with defined activities Annual review and multi-year budget Addition of tools and technologies when appropriate Using the AMP to maximize available funding opportunities Performance Measurement and Management

Video: Township of Dorion, Ontario



Advancing the AMP

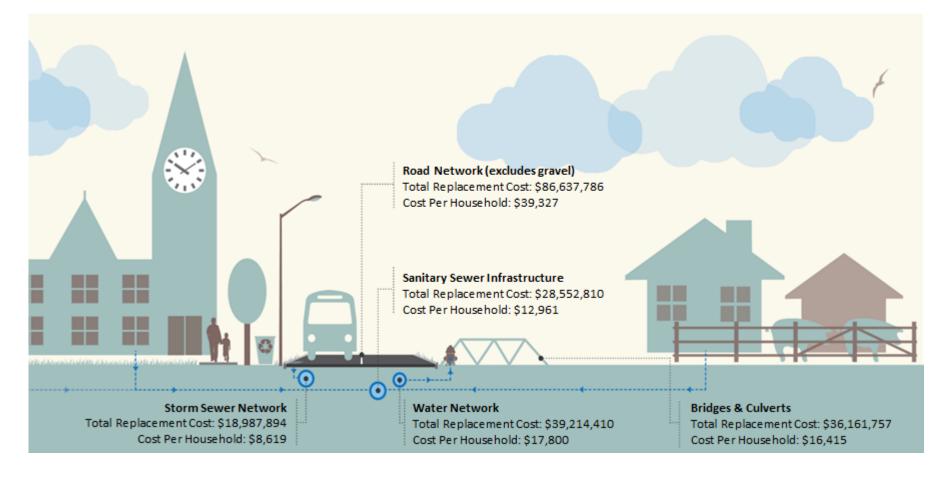
Communication tools

	GPA	Infrastructure Report Card The Town		
 Each asset category was rated on two key, equally weighted (50/50) dimensions: Condition vs. Performance, and Funding vs. Need. See the "What condition is it in?" section for each asset category for its star rating on the Condition vs. Performance dimension. See the "How do we reach sustainability?" section for each asset category for its star rating on the Funding vs. Need dimension. The 'Overall Rating' below is the average of the two star ratings converted to a letter grade. 				
Asset category	Condition vs. Performance	Need vs. Funding	Overall grade	Comments
Road Network	D (2.3 Stars)	A (5 Stars)	C+	The majority, 56%, of the municipality's road section (asphalt), and 76% of its sidewalks, are in poor to critical condition, with the remaining in fair to excellent condition. The average annual revenue required to sustain The Town's paved road network is approximately \$2,562,000. Based on The Town's current annual funding of \$2,562,000, the municipality is fully funded.
Bridges & Culverts	F (1.1 Stars)	D (1.9 Stars)	F	Six of the seven structures in the municipality's bridges & culverts portfolio are in poor to critical condition. The average annual revenue required to sustain The Town's bridges & culverts is \$427,000. Based on The Town's current annual funding of \$207,000, there is an annual deficit of \$220,000.
Water Network	F (1.9 Stars)	F (0 Stars)	F	Nearly 70% of the municipality's waterlines are in poor to critical condition. Further, based on replacement value, 100% of the municipality's only facility assets are in critical condition. The average annual revenue required to sustain The Town's water network is approximately \$945,000. Based on The Town's current annual funding of \$228,000, there is a deficit of \$717,000.

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Communication tools

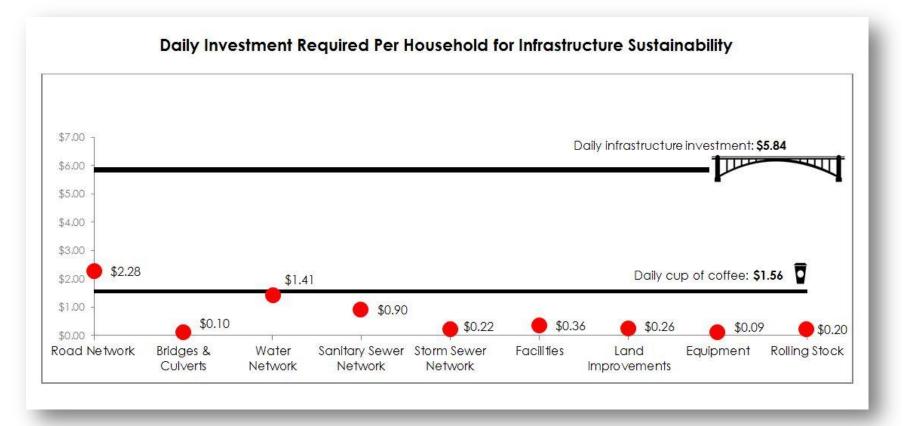


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Communication tools





Q and **A**

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