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Definitions: ***Invention*** is producing something unique

Innovation is process by which new products or methods are introduced

Municipal Asset Management

- **Asset Management first introduced as concept in ~ 1980 (Australia)**
- **Legislation in USA in 1999 (GASB Statement 34)**
- **Sustainable Water and Waste Water Act (Bill 175 MOE) 2002**
- **InfraGUIDE Best Practices (2003-2005)**
- **When will *all* municipalities in *all* regions of Canada implement *all* Best Practices?**

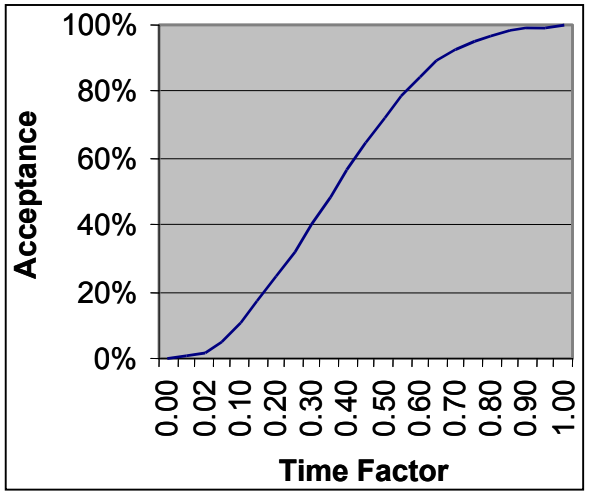
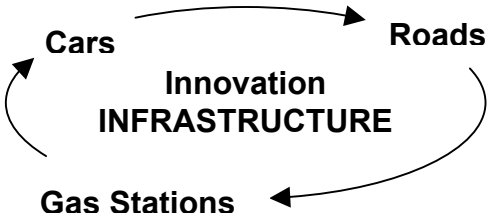


Figure 1: *Diffusion of Innovations* (Rogers, E.M. 2003) S - Curve



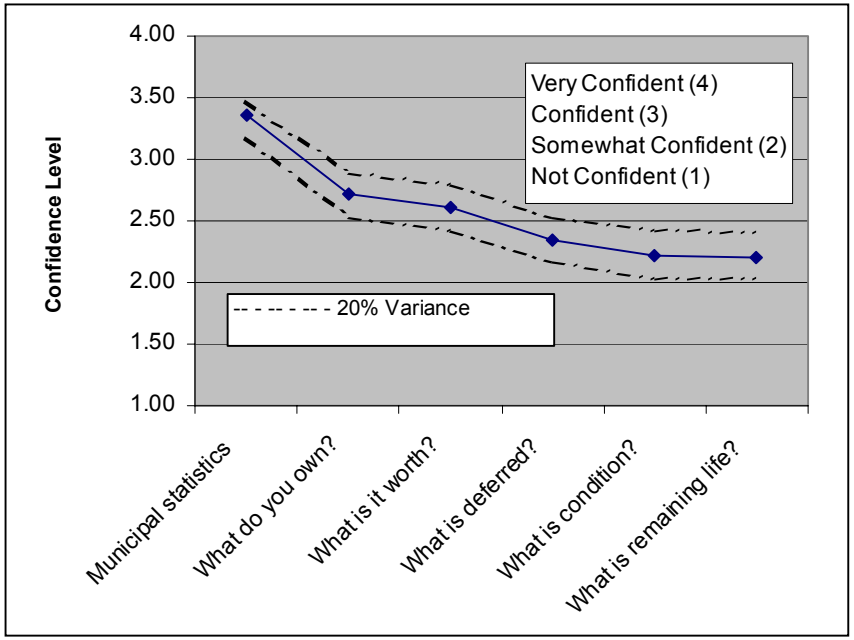


Figure 2: Confidence in Data about Asset Management Information

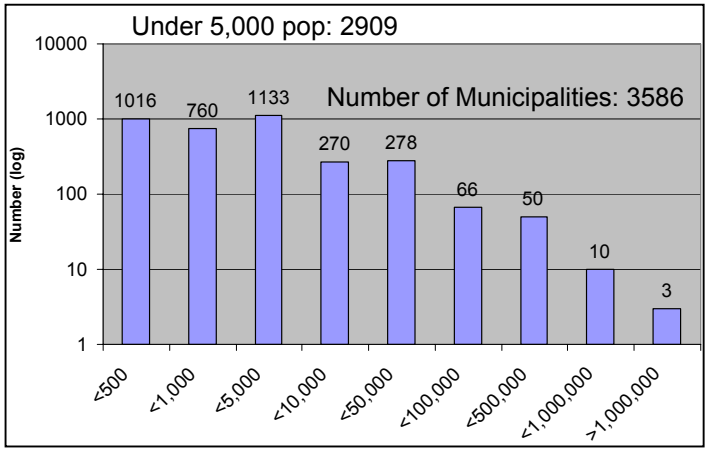


Figure 3a: Municipality Sizes in Canada (MIIP Survey)

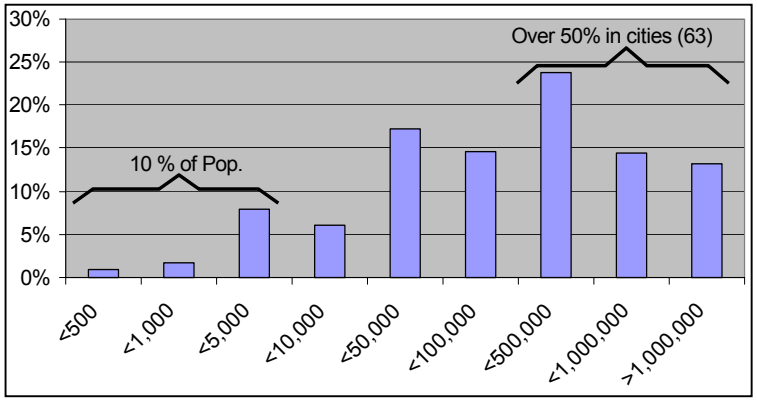


Figure 3b: Population Distribution in Canada (MIIP Survey)

3 Levels of Government ● 2 Pockets ● 1 Taxpayer

(Details in Municipal Infrastructure Investment Planning MIIP Primer -- www.nrc.ca/irc/uir/miip)

International Activities in Asset Management

Governmental Accounting Standards Board (GASB) <www.gasb.org> *GASB Statement 34.*
Federal Highway Administration (FHWA), US Dept. of Transportation <www.fhwa.dot.gov> *Primer on Asset Management, Life-Cycle Cost Analysis Primer; Highway Economic Requirements System; Data Integration Primer; Primer: GASB 34.*
American Association of State Highway and Transportation Officials <www.aashto.org/aashto/home.nsf/FrontPage> *Asset Management Strategic Plan.*
ISO 156861-1: 2000. *Buildings and constructed assets -- Service life planning -- Part 1: General principles, International Organization for Standardization.*
Australian National Audit Office (ANAO) <www.anao.gov.au> *Asset Management Guide.*
Institute of Public Works Engineering Australia (IPWEA) <www.ipwea.org.au> *International Infrastructure Management Manual.*
Australian National Audit Office <www.anao.gov.au> *Asset Management Handbook.*
Government of Victoria, Australia <www.doi.vic.gov.au> *1998* **--** *Facing the Renewal Challenge of aging assets: Victorian Local Government Infrastructure Study; 2004 -- Sustaining Local Assets: Local Government Asset Management Policy Statement.*
Water Infrastructure Network <www.win-water.org> *Clean and Safe Water for the 21st Century: A Renewed National Commitment to Water and Wastewater Infrastructure; Water Infrastructure Now: Recommendations for Clean and Safe Water in the 21st Century.*

Canadian Activities in Asset Management

Infrastructure Canada <www.infrastructurecanada.gc.ca> *Strategic Infrastructure Fund; National Infrastructure Canada Program.*
Ministry of Public Infrastructure Renewal <www.pir.gov.on.ca> *Province of Ontario.*
National Guide to Sustainable Municipal Infrastructure <www.infraguide.gc.ca> *30+ Best Practices.*
National Infrastructure Action Plan <www.csce.ca/TRM> *The Civil Infrastructure Systems (CIS) Technology Road Map.*
Ontario Municipal CAO's Benchmarking Initiative <www.caobenchmarking.ca>
Municipal Performance Measurement Program <www.mah.gov.on.ca>
Sustainable Water and Waste Water Act (Bill 175 MOE) *Province of Ontario Initiative.*
Canada West Foundation <www.cwf.ca> *Drop by Drop: Urban Water Conservation Practices in Western Canada; A Capital Question: Infrastructure in Western Canada's Big Six [Cities]; No time to be Timid: Addressing Infrastructure Deficits in the Western Big Six [Cities].*
Public Policy Forum <www.ppforum.ca> *Public Infrastructure in Canada: Status, Priorities and Planning.*
McGill University <www.regionomics.com/infra/Draft-July03.pdf> Mirza, S. and M. Haider, *The State of Infrastructure in Canada: Implications for Infrastructure Planning and Policies.*
Canadian Institute of Chartered Accountants <www.cica.ca> *Accounting for Infrastructure in the Public Sector.*
Transportation Association of Canada (TAC) <www.tac-atc.ca> *Primer on Highway Asset Management; "Bridge Management Guide"*
Transport Canada <www.tc.gc.ca> *National Highway System Condition and Needs Update.*
Municipal Infrastructure Investment Planning (MIIP) <www.nrc.ca/irc/uir/miip> *Survey on Municipal Infrastructure Assets; Primer on Municipal Infrastructure.*
Municipal Infrastructure Management System (MIMS) <www.albertamims.org>
Statistics Canada <www.statcan.ca> *Public Infrastructure in Canada: Where do we stand?*
Infra2004 <www.ceriu.qc.ca> Centre for Expertise and Research on Infrastructures in Urban Areas. *Urban Infrastructure: Managing Assets, Mastering Technology.*
City of Edmonton <www.edmonton.ca/infrastructure> *Infrastructure Strategy: 2002 Update.*
Canadian Association of University Business Officers <www.caubo.ca> *A Point of No Return: Urgent Need for Infrastructure Renewal at Canadian Universities.*