



**Defining the Standard for Asset Management** 



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A Member Service of Ontario Good Roads Association

Visit www.ogra.org/mdw



### **OGRA Background**

- OGRA represents infrastructure interests of Ontario municipalities
- Established 1894
- Primary link is to the Ministry of Transportation
- Board is both technical staff and political representatives
- Training, Advocacy and Member Services



#### MDW and OGRA

- Initiated by OGRA a couple of years ago
- An advocacy tool
- Basic AM tools for members
- Standards based repository
- Embraces private sector participation ove
  30 companies engaged to date



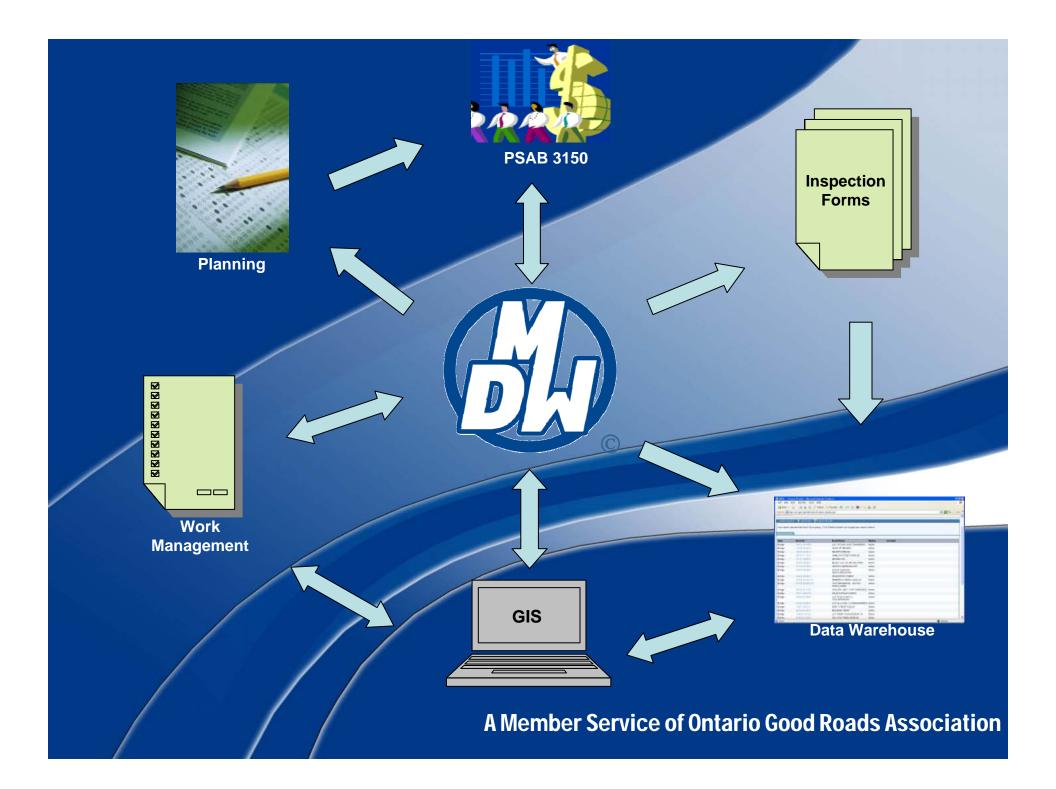
## AM and MDW Background

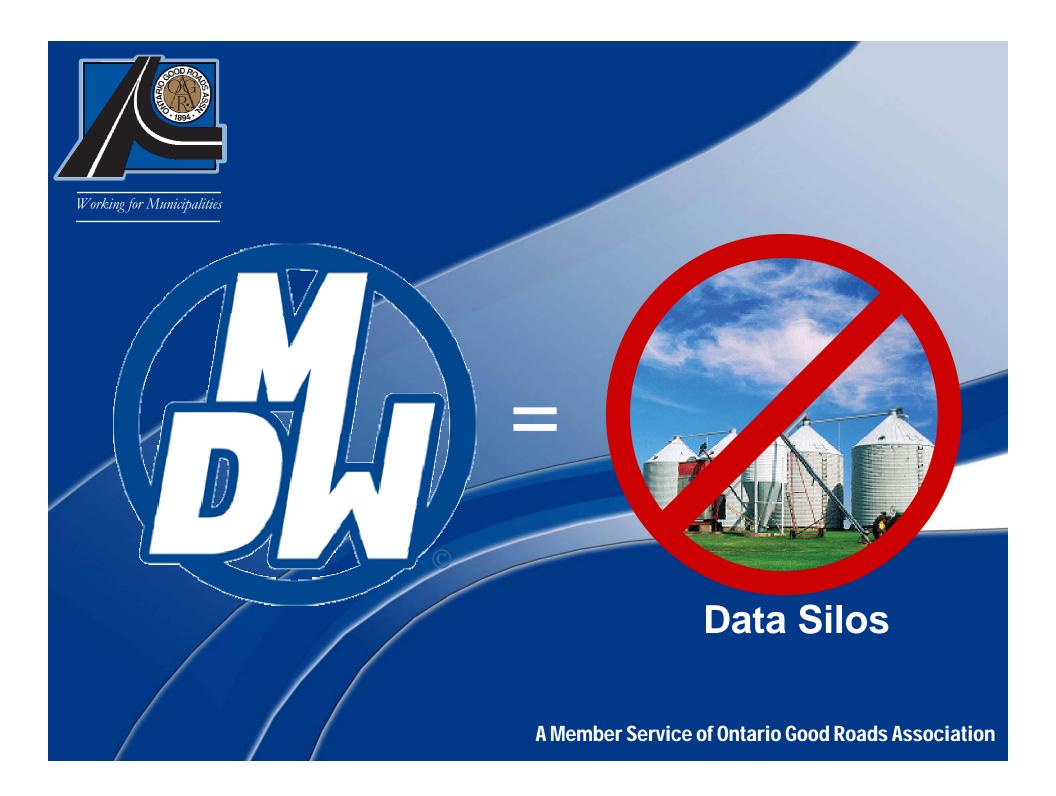
- Asset management is a very broad subject
- "Series of repeatable processes"
- Data is a key requirement!
- Standardized approach to data collection and management
- The solution to our asset management needs is...it begins with data



#### **Minister's Comments**

- In her speech in plenary session at the Combined Conference in February 2007, Minister Cansfield said this about Municipal DataWorks:
- "The Municipal DataWorks database is a fantastic asset management tool that helps municipalities plan for future infrastructure needs" and ... "this ministry recently committed additional funding to enhance the existing road and bridge database and to create a new transit asset inventory in Municipal DataWorks."

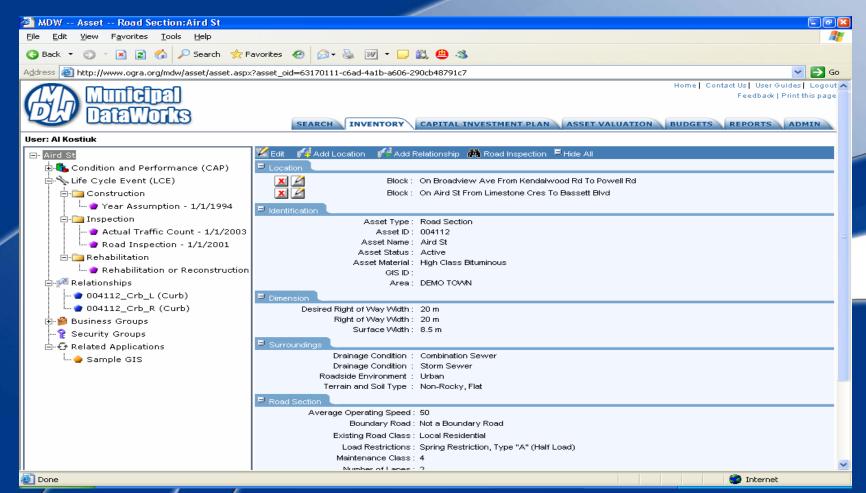






#### **MDW Interface**

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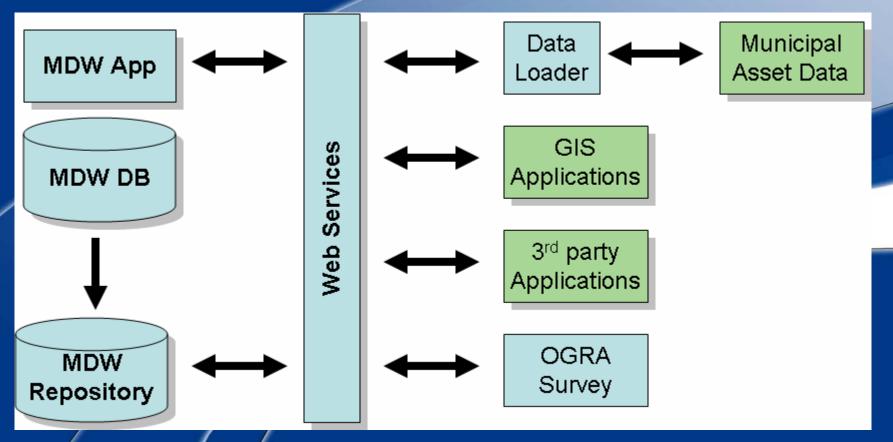
#### **NRC Research**

- "Developing industry-wide standard integrated data models for infrastructure systems is another critical area for future research. The data models supported by existing software are mostly proprietary, which impedes the ability of the software systems to interoperate and share asset data"
- Source: NRCC-45610, January 2006



#### **MDW Schematic**

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#### **Current Modules**

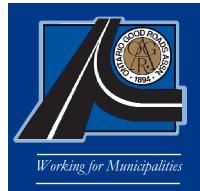
- Asset Data Repository (roads, bridges, water and sewer, transit, buildings etc.)
- Asset condition
- Asset Valuation (PSAB 3150)
- Web Services (data in and data out)
- Capital Investment Plan (CIP)
- Data conversion tools





#### **Future Modules & Enhancements**

- Capital Investment Plan (Phase II)
- Business Intelligence Tools
- New Asset Types (based on demand)
- Expanded Web Services
  - Continued expansion of these services
- More Third Party Integration (Software)



## **Spatial Tools (GIS)**

- A critical area for the MDW service!
- No need to re-invent the wheel
- Short term goal use web services to offer up integration with GIS software
  - Autodesk
  - ESRI
  - Mapfusion
  - Google Maps
- Next step spatially enable MDW

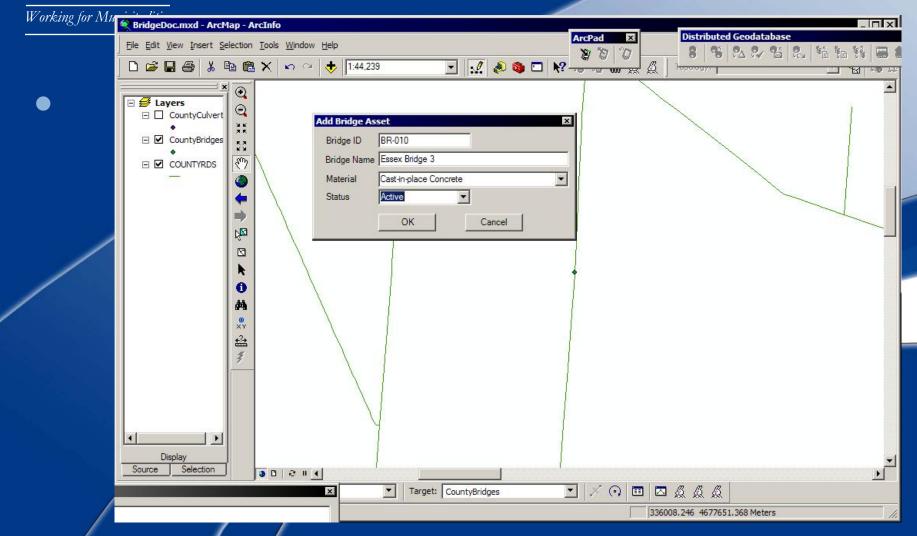


#### **How MDW "Connects"**

- MDW uses "web services" to interact with third-party applications (software)
- Consultants can use web services to access existing data or upload new data
- Software providers can "consume" MDW part of their solution
- MDW puts maximum leverage in the hands of the municipal infrastructure owners



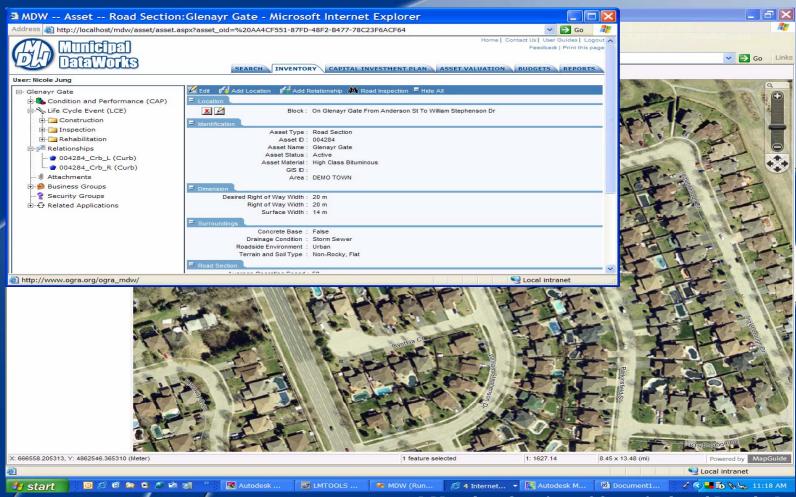
## **Example: ARC GIS and MDW**





# Global CADD/MDW Integration

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## Integration

Manage



**Centralized Data** 

**Share** 



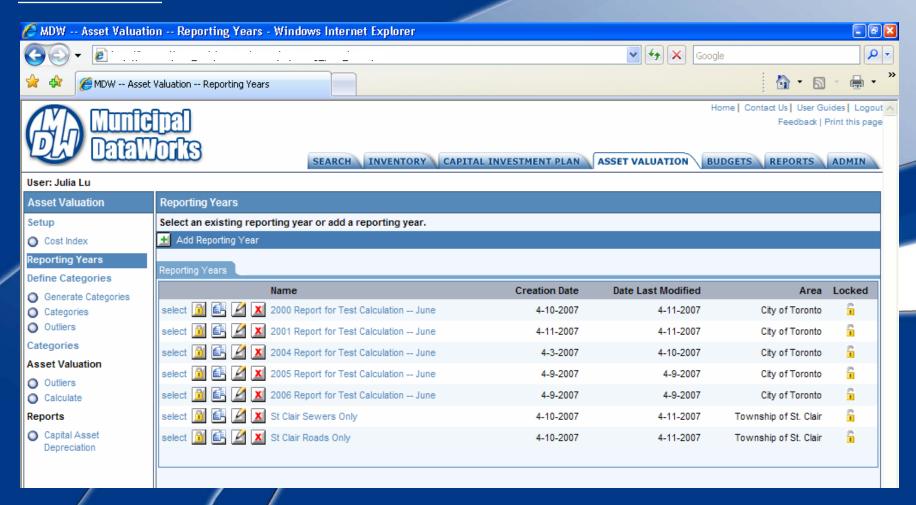
**Enterprise** 

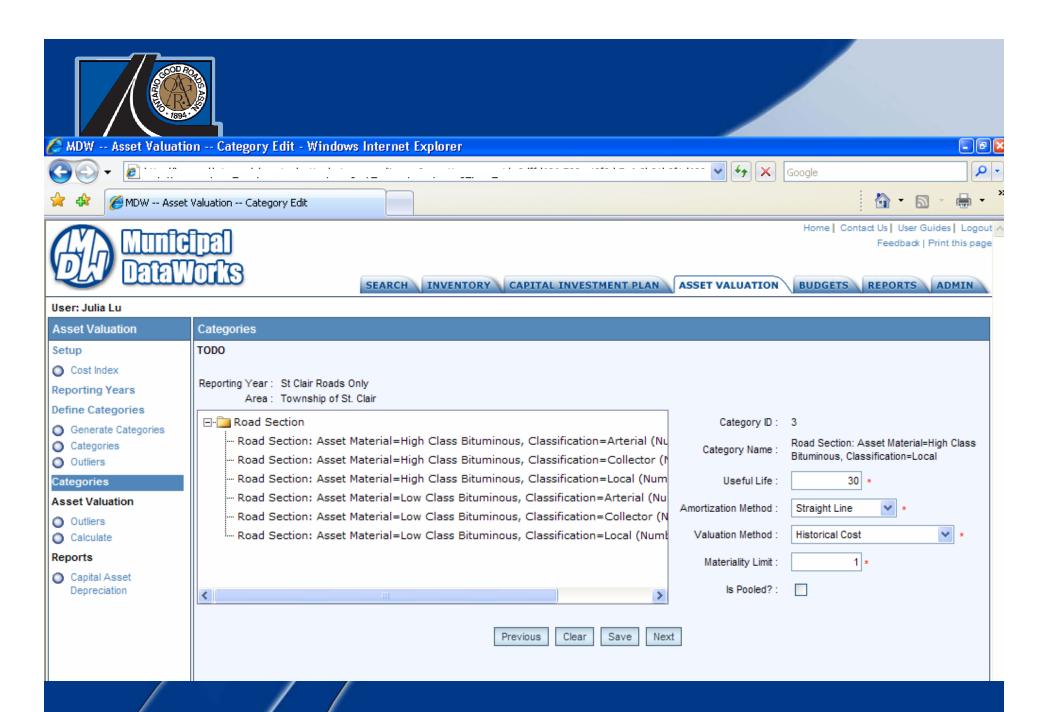




## **AV Start-up**

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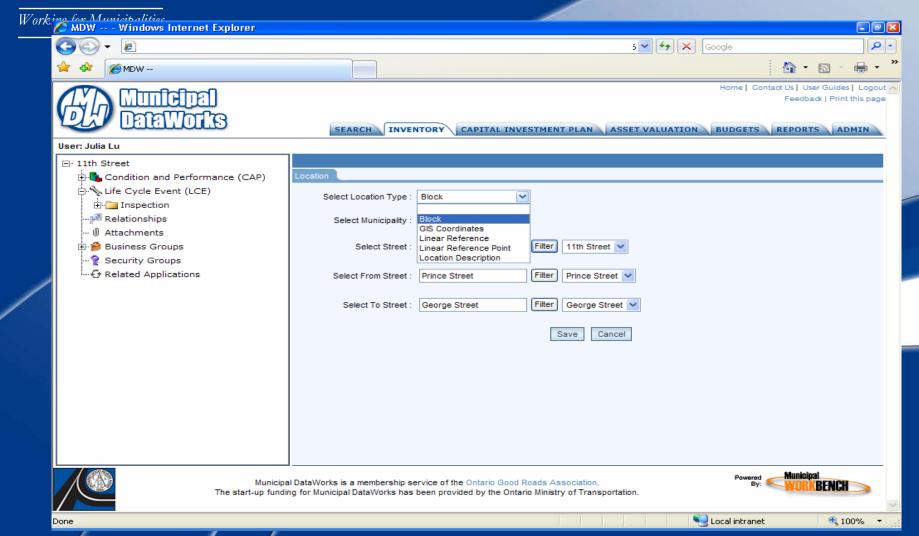


#### **AV – Final Numbers**

Working for Municipalities 🌈 MDW -- Asset Valuation -- Capital Asset Depreciation Report - Windows Internet Explorer 🏉 MDW -- Asset Valuation -- Capital Asset Depreciation ... Home | Contact Us | User Guides | Logout A Feedback | Print this page SEARCH INVENTORY CAPITAL INVESTMENT PLAN ASSET VALUATION BUDGETS REPORTS ADMIN User: Julia Lu Asset Valuation Capital Asset Depreciation Setup Reporting Year: St Clair Roads Only Cost Index Area: Township of St. Clair Reporting Years 🔀 Export Define Categories Generate Categories **Capital Asset Depreciation** Categories Outliers Period: January 1 ---- December 31, 2007 Categories Asset Valuation Asset Type **Beginning Value Depreciation Applied Ending Value** Outliers Calculate Road Section \$99,299,890.00 \$13.057.943.54 \$86,241,946,46 Reports \$99,299,890.00 \$13,057,943.54 \$86,241,946.46 Total Capital Asset Depreciation Previous



#### **MDW – Location Screen**





#### Role of ASP's

- Provide software and services as always
- Advise on data requirements to complete certain objectives (PSAB 3150)
- Manage and maintain data as required
- Generate capital plans
- Provide integration with MDW where required
- For clarity, an ASP works for you the municipality...MDW is simply another tool for you and them



### **Getting Involved!**

- MDW is available to all Municipalities in Canada through OGRA and a variety of Authorized Service Providers
- Private sector organizations can join the MDW team
- Consultants are leveraging their services through the MDW program
- MDW is an innovative, cost effective, standards based tool



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## Municipal DataWorks

Defining the Standard for Asset Management



**Questions?** 

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