



Municipal DataWorks Can...

1. Document asset data

- MDW allows for the collecting and storing of data for over 120 different asset types that includes but not limited to roads, bridges, sewers, waterlines, buildings, fleet and equipment.
- For each asset type, only 3 fields of data are mandatory: asset ID, asset name and asset status. All other data fields are optional.
- The master list of asset attributes (those attributes included in MDW by OGRA) can easily be supplemented with additional attributes. Likewise additional values can be added to a pick list or existing pick list values can be turned off. Text fields can also be quickly converted to a pick list. These features ensure that staff is restricted to selecting only the preferred local municipal choices.

2. Document regular asset inspections

- MDW has two built in inspection modules:
 - The road section inspection module is linked to the asset material type and will use either MTO's Manual for Condition Rating of Flexible Pavement SP-024, Manual for Condition Rating of Rigid Pavement SP-026 or Manual for Condition Rating of Gravel Surface Roads SP-025 to calculate a Pavement Condition Index (PCI) value. The module can also be used to calculate a Road Sufficiency Index (RSI). If the RSI value is not used other condition and performance values can be used such as: substandard stopping site distance, substandard vertical and horizontal alignment, traffic volume to name a few. These other values can be manually input into each road asset record included in MDW.
 - The bridge inspection module follows the Ontario Structure Inspection Manual (OSIM) to calculate a Bridge Condition Index (BCI) value and includes the factors for the calculation of the Bridge Sufficiency Index (BSI). As with road inspections, if the inspection module is not used BCI, BSI and other condition ratings can be manually added.
- For all other asset types that do not have a standard inspection methodology, MDW does contain asset specific ratings of condition and performance or a condition rating value is available for all asset types all of which are manually added to each asset type.

3. Document Lifecycle Events (LCE)

- LCE's include the building or acquisition of a new asset and all work required to operate, maintain, renew and replace an asset.
- For each LCE, any and all documentation related to that LCE can be stored as a lifecycle event attachment. This includes word, excel, PDF and jpeg file formats. Adding the documentation as a lifecycle event attachment allows for the review of the information about that LCE at any time, from anywhere, by anyone with permission to access the data.

4. Amortize Capital Expenditures

- Users can establish criteria for grouping like assets together (referred to as categories in the module) and set the useful life, amortization method and capitalization threshold amount for each category within a single asset type; and
- LCE's for asset betterment, renewal and replacement in excess of the capitalization threshold can be easily capitalized and amortized over the assets useful using the asset valuation module of MDW. By simply adding a lifecycle event for the work completed on an asset and including the "Total Cost" of the project, the asset valuation module will automatically capitalize and amortize the total cost over the assets useful life when the next report is run. If the project extends the useful life of an asset, an adjusted replacement date must be included in the LCE in order for the module to amortize the total cost over the extended timeframe.

5. Forecast renewal actions

- The Capital Infrastructure, Improvement and Investment Planning module (CI³P) permits the development of up to a 10 year plan;
- Users can establish criteria for grouping like assets together (referred to as categories in the module) and set the strategies to be used for each group/category of like assets;
- Users can select age based or condition based planning;
- Users can select the strategies that will be used for asset renewal and the timing for implementation of those strategies based on age or condition for each category;
- Users would input local costs for each strategy selected; and
- Projects included in the plan can be moved from year to year or can be made into a multiyear project with a minimum of effort.