

AssetAsyst®

Asset Condition and Performance

Asset Inspections

Inspections in AssetAsyst® have been customised to suit the specific types of assets available in the software, as follows:

- Road, pathway and other linear asset inspections:**
 Inspections are carried out on an as-segmented basis, meaning that the inspector can select multiple segments from different linear assets to add to a single inspection. The inspector checks off each segment as it is inspected and adds any defects identified. Defects can also be added in the GIS map, through GPS, allowing the location of the defects to be correctly recorded so that they can be found at a future date. Condition information can also be collected at the same time which

then feeds into the financial modelling of the Asset.

- Structure (bridge) and other point asset inspections:**
 Both Level 1 and 2 inspections can be conducted on bridge and culvert structures in AssetAsyst®, in line with the current state road authority inspection manuals. This allows for both checklist inspections as well as condition-based assessments on the structure's components. There is also the ability for a detailed Level 3 inspection to be conducted on a structural asset. This creates an inspection record to which reports and calculations can be attached. It also facilitates the inclusion of load limits on the structures and creation of defects in the database.

- Building Inspections and other area assets:**

Inspections can be assigned to whole buildings, levels, rooms etc. and can be used to identify defects, attach documents and provide comment on the state of the asset. The asset condition can also be recorded for each component

Works Scheduling

AssetAsyst® manages the scheduling of all works associated with assets (inspections, work orders, etc.). A user is able to log in and filter lists which show their overdue work, work upcoming within a defined period, and all other future work which has been assigned to them. The works scheduling also facilitates the creation of recurring inspections and maintenance works.

The screenshot displays the AssetAsyst software interface. On the left, there are panels for 'Road Inspection Information' and 'Level 2 Structure Inspection Information'. The 'Level 2 Structure Inspection Information' panel shows a table with columns for Unit, Exp. Class, and Assessment results (1-4, Assessed, Risk, Defects). Below this is a table for '71S: Columns (including bracing) / Steel' with columns for Number, Category, Type, Risk, Priority, Found, Location, and Description. On the right, there is an 'Inspection Tree' panel showing a hierarchical view of inspection regions and their due dates.