

AssetAsyst®

Asset Risk Management

Internal Risk Management

AssetAsyst® has a number of internal functions which help asset owners manage their risk.

The first of these is the defect risk rating that can be assigned to any defect identified during an inspection. This can allow prioritised works schedules to be created (through the 'User Defined Reporting' tool).

There is also the capability to assign maintenance categories to assets.

This maintenance category, in conjunction with the defect category (safety/maintenance/capital) and

the defect type, can be used to set a priority for defects when they are found, again assisting with works programming.

Risk Scoring

The software has an inbuilt risk scoring algorithm which enables the comparison of risks across various types of components. The risk weighting can be driven by material type, load capacity, conditions etc.

Predictive Modelling

AssetAsyst® predictive modelling module can be used to predict the future funding requirements and

corresponding condition of assets. For those users who wish to use the Moloney financial modelling spreadsheets, access is provided through the capital editor module.

The modelling allows users to graphically visualise the results of their maintenance spending against the predicted long term condition of their assets. Thus highlighting if there are any gaps in the required spending as compared to proposed budgets, and ensures that asset owners are directing their fund to where they will be of most benefit.

DefectJobSafetyDialog

Consequence			Likelihood					Risk Level	
			Almost certain <i>(Is expected to occur most times this task is done)</i>	Quite Possible <i>(Not unusual in most circumstances 50/50 chance)</i>	Possible <i>(Might occur at some time/Monthly)</i>	Remotely Possible <i>(Could occur at some time /Yearly)</i>	Practically Impossible <i>(May occur only in exceptional circumstances)</i>		
Production / Plant or Equipment Loss	Environment Impact	Personal Injury	A	B	C	D	E		
Greater than \$200,000 loss	Major environmental event	Fatality	1	H (25)	H (24)	H (22)	H (19)	M (15)	H (25-16) High Risk Interim measures must be in place before continuing
Up to \$200,000 loss	Significant environmental event	Permanent disablement	2	H (23)	H (21)	H (18)	M (14)	M (10)	M (15-7) Medium Risk Interim measures to be put in place within 7 days
Up to \$100,000 loss	Noticeable pollution	Lost time injury	3	H (20)	H (17)	M (13)	M (9)	L (6)	L (6-1) Low Risk Control measure may not be required, may be managed by routine procedures
Up to \$50,000 loss	Minor pollution	Medical treatment injury	4	H (16)	M (12)	M (8)	L (5)	L (3)	
Less than \$5000 loss	Negligible pollution	First aid treatment	5	M (11)	M (7)	L (4)	L (2)	L (1)	

MEASURES

Consequence – the highest reasonably foreseeable adverse outcome that may result from an event

Likelihood – the most reasonably foreseeable prediction that the consequence will eventuate

WEIGHTING

> Exposure – the frequency, within a defined period, that a person(s) are exposed to the hazard

> Empirical number of defined per comparable

Hierarchy of Control

1. Eliminate (e.g. Remove it from the workplace) – Most effective
2. Substitute (e.g. Change equipment or materials)
3. Engineering controls (e.g. Forced ventilation)
4. Administrative controls (e.g. Training and instruction)

5-YEAR PREDICTED CAPITAL REQUIREMENT IN \$ TO MAINTAIN ASSETS BELOW THE "RCL" COMBINED WITH THE PREDICTED MOVEMENT IN THE WEIGHTED AV. ASSET CONDITION

Legend: Predicted Annual Cap. Requirement \$ (Green bars), Weighted Average Condition (Red line)

Y-axis: Predicted Overall Asset Condition (High value Poor, Low value Good)

X-axis: 5 Year Averaged Block (Years) from 2026 to 2051

Seg ID No.	ROAD OR STREET Name	FROM Street Name or Description	DIST m	TO Street Name or Description	DIST m	Total Pavement Length	No. of Defect
6	Abattoirs Rd	Pyramid Leitchville Rd	0	End Seal	760	760	760
7	Abattoirs Rd	End Seal	760	Missing Ref	5259	4,499	4,499
8	Abattoirs Rd	Property Ent	5259	Bendigo Pyramid Rd	5762	503	503
4057	Abbot Rd	Flary Flat Rd	0	Missing Ref	2068	2,068	2,068
4058	Abbot Rd	Missing Ref	2068	Missing Ref	2222	154	154
4059	Abbot Rd	2222 Missing Ref	3367	Missing Ref	3367	1,145	1,145
4060	Abbot Rd	Missing Ref	3367	Missing Ref	3656	289	289
5384	Acacia La	00 at Scots La	0	Gate	393	393	393
9	Adams Rd	Verleys Rd	0	Rural rd number	283	283	283
10	Adams Rd	Rural rd number	283	Missing Ref	3274	2,991	2,991
11	Addlem Rd	Harrison Rd	0	Northlands Rd	1554	1,554	1,554
5085	Addlem Rd	Missing Ref	1554	Pavement Change	3300	1,746	1,746
12	Addlem Rd	3300 Pavement Change	5174	Pavement Change	5174	1,874	1,874
13	Addlem Rd	Missing Ref	5174	Bridgewater Maldon Rd	6558	1,384	1,384
4061	Aicken Rd	00 at Loddon Valley Hwy	0	Missing Ref	740	740	740
3885	Ainsworth Rd	Viedderburn Wychtella	0	Missing Ref	400	400	400
3886	Ainsworth Rd	Missing Ref	400	Missing Ref	1420	1,030	1,030
14	Aikens Rd	Bendigo Pyramid Rd	0	Missing Ref	3690	3,690	3,690
15	Aikens Rd	3690 Missing Ref	5743	Missing Ref	5743	2,053	2,053
16	Aikens Rd	Missing Ref	5743	Missing Ref	7294	1,551	1,551
17	Aikens Rd	Pave Change	7294	Pavement Change	8049	755	755
18	Aikens Rd	Missing Ref	8049	Missing Ref	11712	3,663	3,663
19	Aikens Rd	Pave Chanon	11712	Dunne Rd	12437	795	795



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