

## Resilient **Linear Asset Management System** -



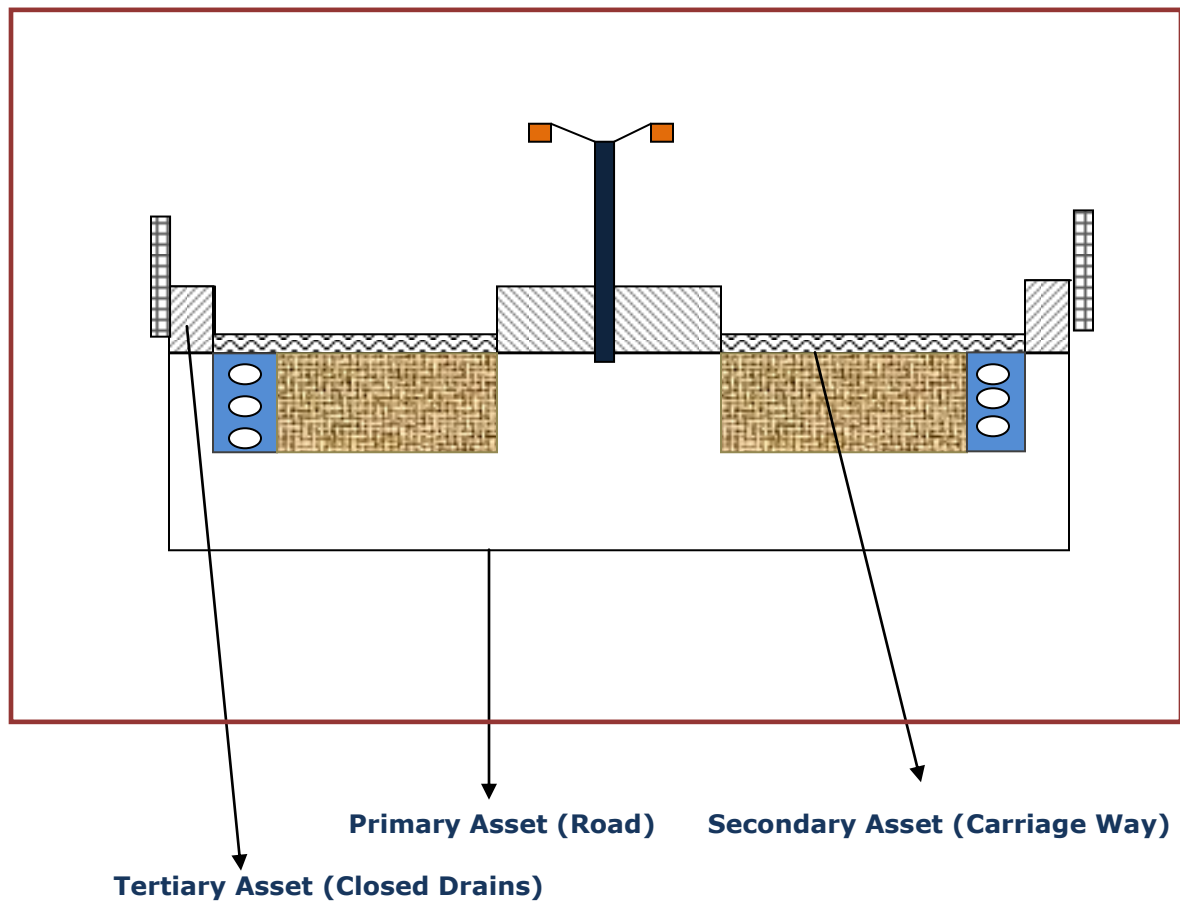
Managing Assets in large infrastructure oriented organization is a tedious and laborious task. Specially, countries like India, where infrastructure intensive organizations are good in creating assets without maintaining any documentation has lead to poor management of asset and finally replacing the same with newer one prior to the completion of life cycle of the asset. Unlike fixed assets, which are static in nature, the linear assets require dynamic approach and frequent update of asset attributes. A road asset which runs in to 100 of kilometers, operation and maintenance is an ongoing process to keep the infrastructure operational. The road in part or as a whole, may undergo various maintenance activities like preventive maintenance or break down maintenance. Similarly, creation and maintenance of Street light network which is a secondary asset on the road network with hundreds of poles located on the median or pavements. The street light in turn has other sub assets like connection box, cable and fittings and bulbs at the tertiary level.

Any organization which owns these assets need to account the expenditures incurred on each asset as part of maintenance activity or capital replacement. And the same need to consider for various financial computation like depreciation and MIS reports. Resilient **Linear Asset Management** allows creating a new asset at any level and helping to manage the existing with a click of mouse.

Linear Management with GIS interface and dynamic segmentation will help the operational team to locate various assets spatially and allocate resource to the right location with complete history of the asset life cycle. The GIS features supports creation of new asset on the map linking various attributes with relevant dimension.

Once assets created the same is available for various maintenance activities in the form of project or job order. A project can have a single asset or group of assets or all assets spread across segment selected on the GIS. The user picks the required asset or picks the nth level asset for maintenance. The Linear Asset Management along with Project Management System enables the user to complete activities like Estimation preparation, Release of Work Order, Daily Measurement, Measurement Sheet and Integrating Periodical payments to Vendors.

The Linear Asset Management along with Project Management System will work as project monitoring tool to monitor various Works in Progress (WIP).



The above figure shows a cross section of road with various levels of assets as an integral part of the road network.

Level 1 – Road  
Level 2 – Carriage Way  
Level 3 – Pavement + Median+ Utility Cable Duct  
Level 4 – Electrical Pole  
And so on.

The **Linear Asset Management** has option to capture various asset attributes associated with parent asset or child asset. The following section shows the details of Attributes associated with one of the parent asset.

**Road Type** – National Highway, State Highway, Municipal Road, Service Road etc. (facility to add any other attribute as when required).

**Road Dimension 1** – Length

**Road Dimension 2** – Width

**Road Dimension 3** – Surface Type

**Date of Construction**

**Cost of Construction**

**Construction Work Order Details**

**Construction Agency**

The **Linear Asset Management System** also helps user to handle the current and historical problem and helps as decision support tool for corrective action.

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