Utilities

Network Asset Management

Asset management as a tool for strategic and operational competitive advantage

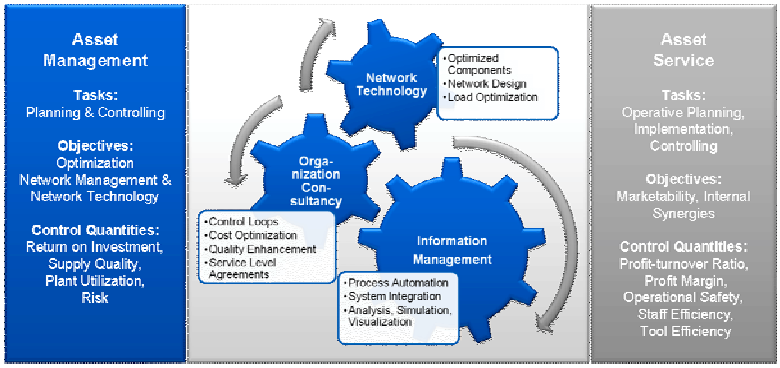
An effective network asset management initiative is based on an integrated consideration of the conflicting priorities of costs, quality and risk. A balanced orchestration of technology, economics and engineering combined with the adoption of a long-term asset replacement strategy into the operational business will result in an effective network asset management strategy. An integrated information base and specific IT tools are crucial factors to support this vital process while providing a long-term competitive advantage for asset management. FICHTNER is a competent partner for utilities in all aspects of asset management.

Definition of Asset Management

Asset Management is an integrated methodological approach that combines organizational factors with information management and best practices for network technology to allow for an optimized use of material assets.

Implementing Asset Management

Based on FICHTNER's experience in the aforementioned fields of competence, we are pleased to present a solution for asset management optimization consisting of consulting services and IT modules.



The IT module supports the development of a strategy and assists the integration into the operational business. Based on this leverage, strategic and operational asset management can be combined to provide tools for optimal asset management decision analysis.

The focus is directed towards investment, operations, maintenance and repair as well as materials and resources.

It is essential that defined service and safety standards are observed. This, in turn, requires the transparency of costs over the entire asset lifecycle.

Deriving optimized strategies through the analysis of asset states, risk assessment and lifecycle costs, including implementation into operation is what comprises an effective asset management strategy.

Asset management requires the integration of competencies from network technology, organization and information management.

SAM – Strategic Asset Management

SAM is the component for strategic asset management of physical networks. SAM is based on approved approaches for system and business dynamics and established lifecycle models for operating equipment.

SAM comprises:

- Risk-free scenario simulation to determine optimum maintenance, repair and replacement strategies
- Graphic representation of detail results and comparison of strategies
- Sensitivity analysis to identify the prime parameters
- Target-oriented modeling of the complete asset lifecycle
- Automatic optimization under specified constraints
- Data import and export based on standard formats (MS Excel / XML / data bases)

OAM – Operational Asset Management

OAM is the component for operational asset management. It supports the planner in decision making and links long-term strategic planning using SAM with the operational business requirements. Each individual operating equipment can be displayed with all stored attribute data and surveyed in detail.

OAM includes:

- Automatic prioritization of operational performance measures
- Graphic visualization of the prioritized operating parameters and segments of the operating equipment inventory
- Selective visualization of the operating equipment inventory and priorities in accordance with configurable criteria, such as segmentation, states and assigned measures

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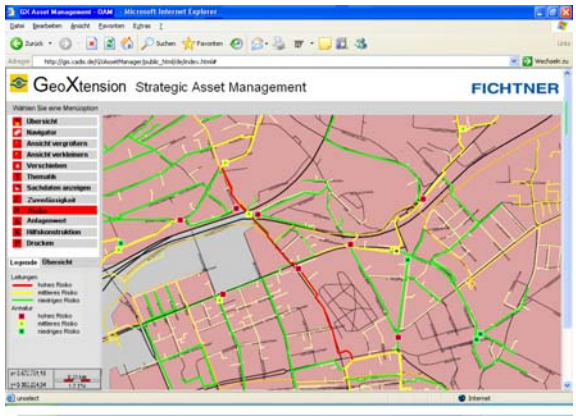
GeoXtension

GeoXtension adds value to the asset management by integrating existing geospatial data with the assessed status of the network and the strategic scenarios.
It provides thematic maps on the quality, importance, cost and value of the assets – illustrating the calculated progress of the infrastructure over the years.
By leveraging the Oracle Spatial capabilities, GeoXtension allows for impact and criticality analyses and visualizes the location and vicinity of critical assets and measures proposed. Assets can be clustered based on location, tracing and zoning.



Benefits

- Optimum use of budget and resources through efficient development of sustainable maintenance, repair and replacement strategies
- Effective structured decision making in the operational business allowing for the implementation of a long-term and sustainable strategy for your organization

Our consultants and IT experts provide competent services in all stages of asset management – from model design through implementation.

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