Prioritizing Budget

Asset management is an integrated approach that is urgently needed to help our clients maximize the value of their assets. We recognize it’s imperative to leverage capital assets for maximum return on investment (ROI) and operational effectiveness.

- Optimize capital investments based on criticality and risk
- Reduce spending on assets that are functionally obsolete or beyond repair
- Minimize life cycle cost of ownership

Streamlining Assessments

Managing assets effectively requires a coordinated team of planners, engineers, architects, financial analysts, data managers, real estate analysts, energy specialists, and other experts. Our practitioners are integrated into a focused unit, resulting in an effective team utilizing proven methods and processes.

- Streamline procedures for rapid data collection for input into CMMS
- Forecast likelihood and consequence of asset degradation and failure

Establishing a Framework

Our clients require sustainable methods to retain institutional knowledge and visibility of their infrastructure asset portfolio.

- Establish standard processes for repeatable and defensible investment decision-making
- Update data management tools and capabilities (CMMS, GIS, database mapping expertise)
- Comply with the Government Accounting Standards Board and secure grants and loans

Who We Are

We understand an asset management plan must be customized and scalable to the client’s needs. Our capabilities include:

- Decades of experience in conducting technology-enabled asset data collection
- More than 3.5 million facility inspections
- Application of comprehensive computer maintenance management systems (CMMS), such as Maximo, Cityworks, Cartegraph, and Infor
- Industry leading Geographic Information Systems (GIS) and related geospatial technology implementation
- Extensive financial and risk analysis experience based on adaptive intelligence systems
- Dedicated energy group experience in commissioning and energy efficiency
- Diverse experience in teaming with industry experts

Our Solutions

Much of our drinking water infrastructure is nearing the end of its useful life. According to the American Water Works Association, an estimated **240,000 water main breaks occur per year.** Assuming every pipe were replaced, the cost could reach more than **$1 trillion.** In this challenging fiscal environment, many utilities seek strategies to manage and better prioritize investment in their infrastructure. We offer flexible, sustainable solutions tailored to our clients’ needs, using the optimal tools to help prioritize construction and more efficiently operate and maintain assets. We establish sound modernization and cost-efficient renewal and replacement strategies.

Smart Focus of Resources

According to the Government Accountability Office, **one-third of all water utilities have deferred maintenance because of insufficient funding.** Our clients need to know what and where their infrastructure assets are, in addition to their condition and effectiveness in supporting the delivery of services to customers. In our experience, **organizations often underestimate the value of their assets by as much as 20 percent,** which impacts the ability to program resources for maintenance, renovation, or capital replacement.

- Understand asset location, condition, status, criticality, and life cycle value
- Streamline operations and maintenance procedures
- Focus resources and evaluate the level and adequacy of service

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We optimize sustainable asset management.

Asset Life Cycle

Asset management is a coordinated and integrated set of activities, competencies, and technologies used to plan, design, deploy, operate, maintain, manage, and modernize facilities and infrastructure. A well-formed program requires a coordinated team of planners, engineers, technologists, GIS professionals, and other disciplines working together to effectively understand and manage the asset portfolio. Our multidisciplinary approach to asset management helps our clients meet operational objectives and maximize ROI by optimizing performance, maximizing service life, and minimizing risk.

Inventory

The inventory phase involves either field data collection or records conversion to generate an asset database, including location, physical characteristics, condition, and financial information (value, costs, revenue generation, or profit).

- Field-based surveys and data collection
- As-built records research and preparation
- Paper to digital records conversion
- Digital (CADD to GIS) data conversion
- Asset valuation

Assessment and Prioritization

Determining the condition and criticality of an organization’s assets are key steps in establishing priorities for infrastructure rehabilitation and replacement.

- Condition assessment
- System testing and operational assessment
- Maintenance history evaluation
- Assessment of criticality (probability and consequence of failure)
- Requirements definition and regulatory compliance

Planning

The planning process is used to establish capital budgets, balance investment needs, and adjust budgets and strategic planning as requirements and conditions change. We prepare and execute investment plans to refurbish and modernize existing assets and establish capital and other resources for extensions and system growth.

- Demand forecasting
- Strategic planning and rate studies
- Modeling and alternatives analysis
- Renewal/replacement strategies
- Business case development and ROI
- Financial analysis and capital expenditure (CAPEX)/operation expenditure financial planning

Operations and Maintenance

Effective operations and maintenance (O&M) has long been a cornerstone of a mature asset management program but is also the greatest expense in owning and operating a portfolio of assets over time. Rigorous efforts must be made to better manage both preventative and reactive maintenance activities based on prioritization and program management objectives.

- Asset performance optimization

Implementation

An organization’s asset management plan establishes priorities, budget, and schedule for capital investments to maintain and expand service levels and capabilities.

- Define requirements and regulatory compliance
- Condition, vulnerability, business risk exposure, and depreciation assessment
- Financial and performance audits
- Valuation model development
- Design plans and as-built preparation
- Construction management services

• O&M and rehabilitation and replacement (R&R) scheduling
• Facilities management and building maintenance
• Asset data and information management (GIS, CMMS, financial and operations systems)