



Value preservation through forward-looking network management



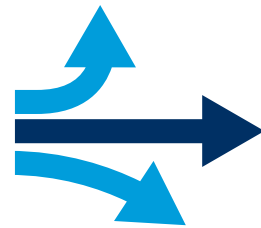
ANALYSIS

Integrity of the data basis, data review and evaluation according to all common TV inspection standards



CLASSIFICATION

Continuous classification and consideration of the substance of sewer segments and pipes



PROJECTION

Long-term forecast of the expected effects and facility values depending on the decision



STRATEGIES

Individual risk analysis to determine the optimum strategy for effective value preservation

ECONOMICAL NETWORK MAINTENANCE

Who can tell you how the substance and value of your sewer network will develop over the coming years? Considering the deficient condition and tight budgets, forward-looking and economical maintenance and investment planning for sewer networks is becoming increasingly important. With BaSYS STATUS you have a tool that provides you with long-term forecasts – under consideration of the decisions made today. Projections help you make the best possible decision for the choice of replacement, maintenance and repair strategies. Use the individual risk analysis to refine your strategies, ensuring that the value of your wastewater systems is maintained in the future.

FUNCTIONALITY

- Review of net data using all common visual TV inspection standards
- Verification of plausibility for quality assurance and to avoid an incorrect foundation
- Continuous damage classification under consideration of local boundary conditions
- Substance classification to estimate the actual remaining service life
- Solid forecasts about network ageing and future rehabilitation requirements
- Iteration to determine the optimum rehabilitation strategy
- Comprehensive and clear diagrams of results for the classification of rehabilitation strategies

STRUCTURE

An initial data review and plausibility check of the existing network portfolio provides the basis for an informative classification and projection. The extended and continuous condition and substance classification establishes the benchmark for the remaining functions. Boundary conditions, the severity, distribution and extent of damage, and the economic significance of the rehabilitation backlog are taken into account. Clusters are used to group facilities with similar properties to determine a homogeneous ageing behaviour. Graphics of the survival curves are generated for the verification and quality review of the generated clusters.

Current projections provide results for the condition and substance classification, delivering the status for all sewer segments in the current fiscal year independently of the actual inspection date. Remaining service life projections determine the approximate actual service life of the wastewater systems based on ageing and the expected condition development. Strategies can therefore be defined under consideration of the budgets for maintenance, replacement, repair and renovation. Subsequently a comparison identifies the optimum approach for value preservation of the net data. This establishes the basis for operational maintenance planning.

EVALUATION

Integration of the STATUS maintenance concept developed by Stein & Partner allows the existing tools to be used to prepare and output queries, reports and plans. BaSYS

STATUS comes with templates for the output of all classification and projection data:

- Queries and graphical representation as a theme plan for visualisation of the data review
- Diagrams and theme plans to output the condition and substance classification, separated by utilisation, stability and environmental relevance
- Queries and survival curves to evaluate the facility groupings in definable clusters
- Presentation of the determined remaining service life as a query and report

For comparison and selection of the relevant strategy, informative diagrams related to the development of the facility values can be accessed through the dashboard. The optimum strategy is chosen based on the curve progression.

BENEFITS AND ADVANTAGES

- Full integration into BaSYS permits direct access to central data management
- Extended data management and user interface for intuitive editing and evaluation

INDIVIDUAL SOLUTIONS



Complex tasks demand unique solutions. We work with you to develop a concept in order to adapt our products to your individual needs for efficient application. The BARTHAUER consulting team offers advice, training and support from the first meeting to smooth operation in your company.

- Solid forecasts about future rehabilitation requirements
- Maximum economic efficiency and therefore cost savings in sustainable network maintenance
- Definition of different strategy options in regards to their long-term effects
- Continuous condition and substance classification and evaluation of the boundary conditions relevant for rehabilitation
- Consideration of the substance of sewer segments and pipes for a realistic estimate of the remaining service life
- Full plausibility review for quality assurance in data management