

# A Farsighted View of the Sewer

AQUA-Selekt  
for Windows

AQUA-WertMin  
for Windows

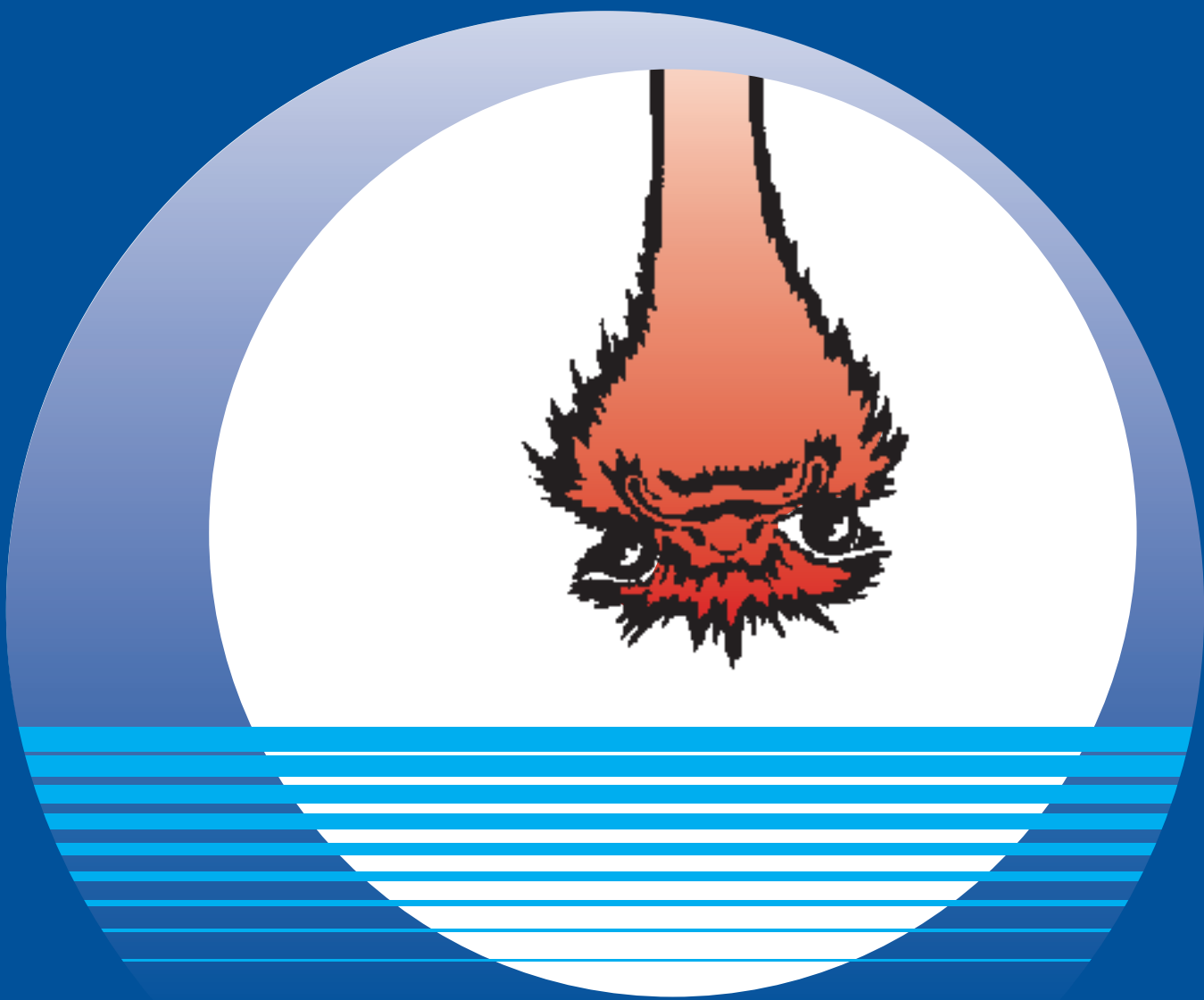
***Exclusive services and  
software for the funding and  
maintenance of sewers***

**Expert office for ●  
sewer rehabilitation ●**

Auf der Leh 17  
D-66271 Kleinblittersdorf  
Fon/Fax: +49-700-8799 2290

Branch:  
Cäcilienstraße 58  
D-47839 Krefeld  
Fon/Fax: +49-700-8799 2290

E-Mail: [kj@aging-model.com](mailto:kj@aging-model.com)  
[www.sewer-rehabilitation.com](http://www.sewer-rehabilitation.com)

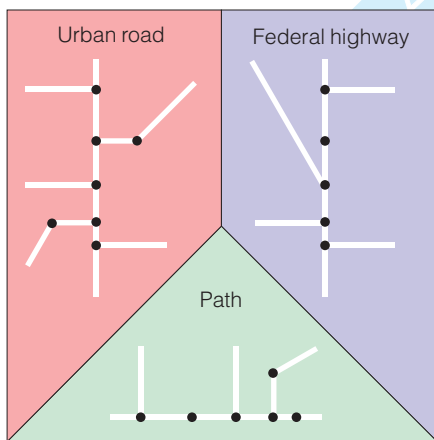
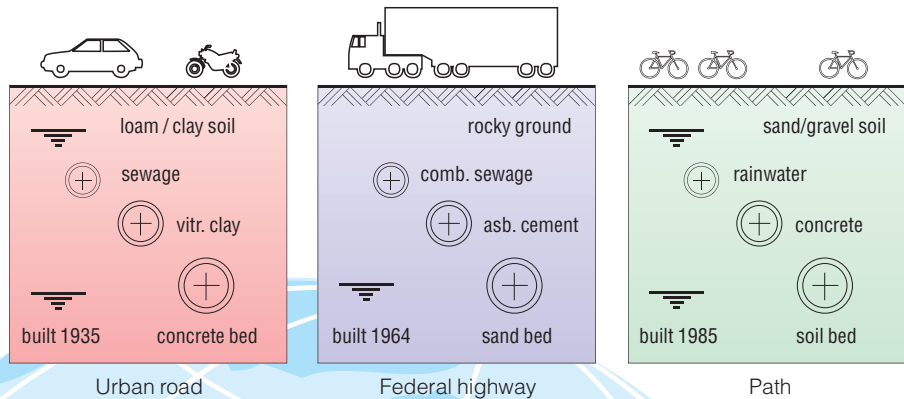




**AQUA-Selekt**  
V4.x for Windows

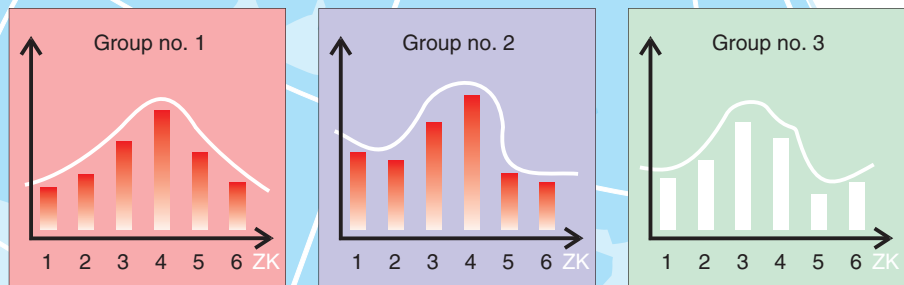
# New Selective Sewer Inspection Strategy (DIN EN 752/5)

## Group formation with representative features



## Qualitative sample of 10 - 20% per group

Condition distribution extrapolated from the sample for the reaches not inspected.

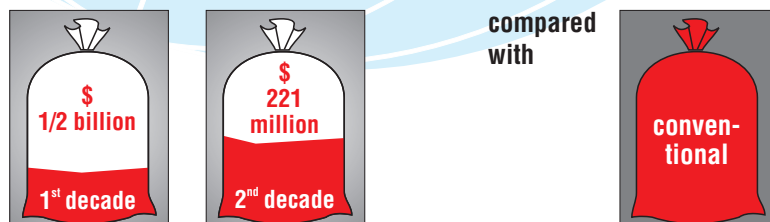


Determination of the average condition (bell curve) and the minimum condition with 95 % certainty (standard deviation) for documenting the need for action and the immediate need for catching up on the primary inspection.

## Time expenditure



## Cost saving



## Expert office for sewer rehabilitation

Auf der Leh 17  
D-66271 Kleinblittersdorf  
Fon/Fax: +49-700-8799 2290

Branch:  
Cäcilienstraße 58  
D-47839 Krefeld  
Fon/Fax: +49-700-8799 2290

E-Mail: [kj@sewer-software.com](mailto:kj@sewer-software.com)  
[www.inspection-strategy.com](http://www.inspection-strategy.com)

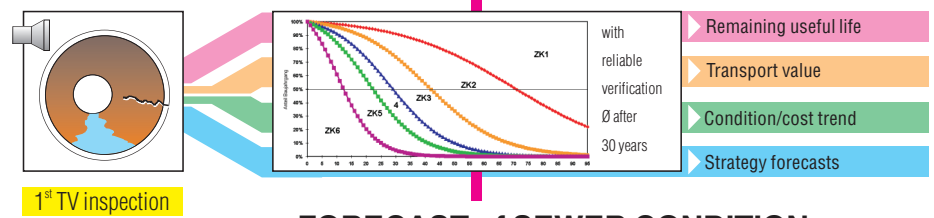
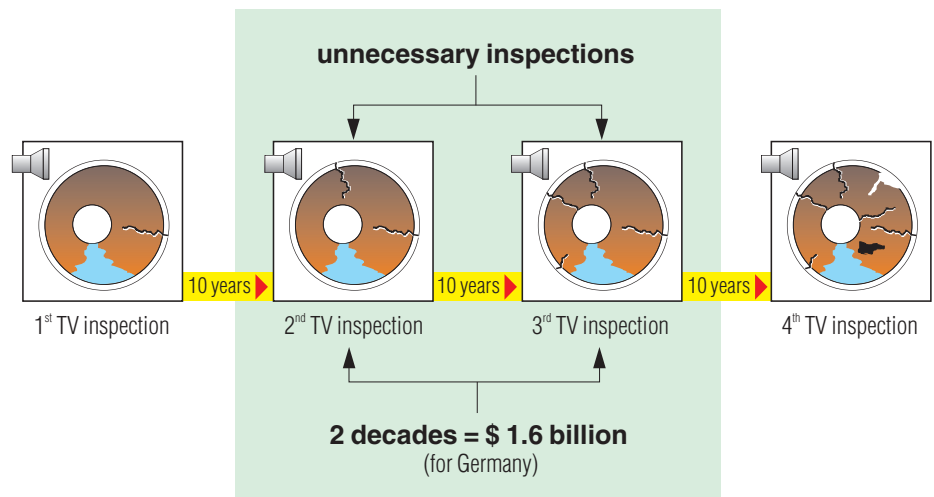
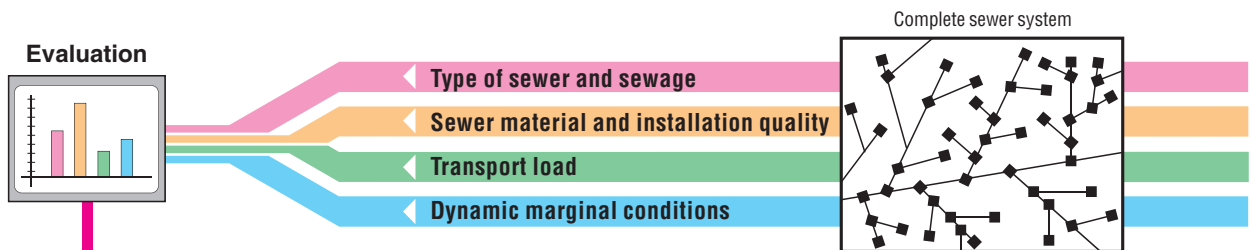
Ignoring interest and price increases and assuming that inspection of the sewers and branch lines is begun simultaneously, there is for Germany an annual cost saving of \$ 51 million/a during the first ten years and \$ 22 million/a during the second decade.



**AQUA-WertMin**  
V6.x for Windows

# Aging Forecast for Sewers

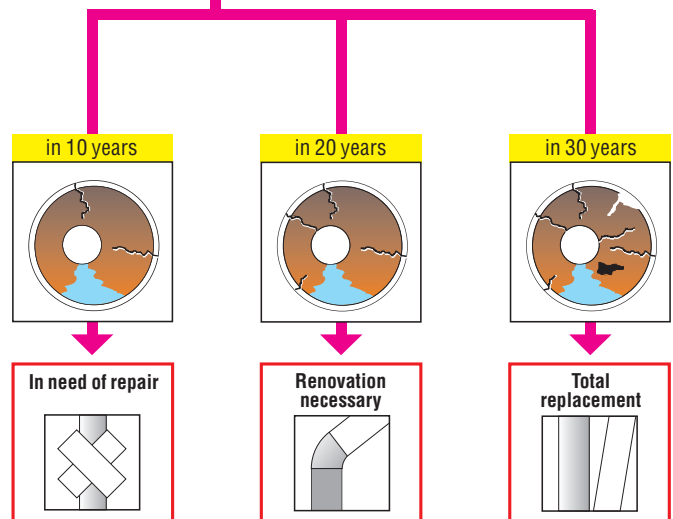
Method for forecasting the aging of individual reaches of sewers which have undergone primary inspection



## FORECAST of SEWER CONDITION

Inspection strategy

The condition of the sewers can also be derived from the forecast for any other point in time.



The remaining useful life and replacement requirements are shown by the forecasted condition in connection with the required minimum condition.

### Expert office for sewer rehabilitation

Auf der Leh 17  
D-66271 Kleinblittersdorf  
Fon/Fax: +49-700-8799 2290

Branch:  
Cäcilienstraße 58  
D-47839 Krefeld  
Fon/Fax: +49-700-8799 2290

E-Mail: [kj@rehabilitation-strategy.com](mailto:kj@rehabilitation-strategy.com)  
[www.forecast-model.com](http://www.forecast-model.com)