Urban Hydrology

KEEPING AN EYE ON WHAT IS IMPORTANT.

TIME SERIES MANAGEMENT
KiTSM INSIDE
TIME SERIES MANAGEMENT

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No effect in nature is without reason. Recognize the reason, and no experiment will be necessary.

Leonardo da Vinci | Artist and inventor, visionary and engineer

KISTERS
Pioneering Technologies.

The construction of a canal digging machine.

Even today people must still deal with the power of nature. To protect the city of Florence from the dangerous waters of the Arno, Leonardo planned massive canal works. Realisation of the work would have been impossible without Leonardo's canal digging machine, which was to make the work considerably simpler.
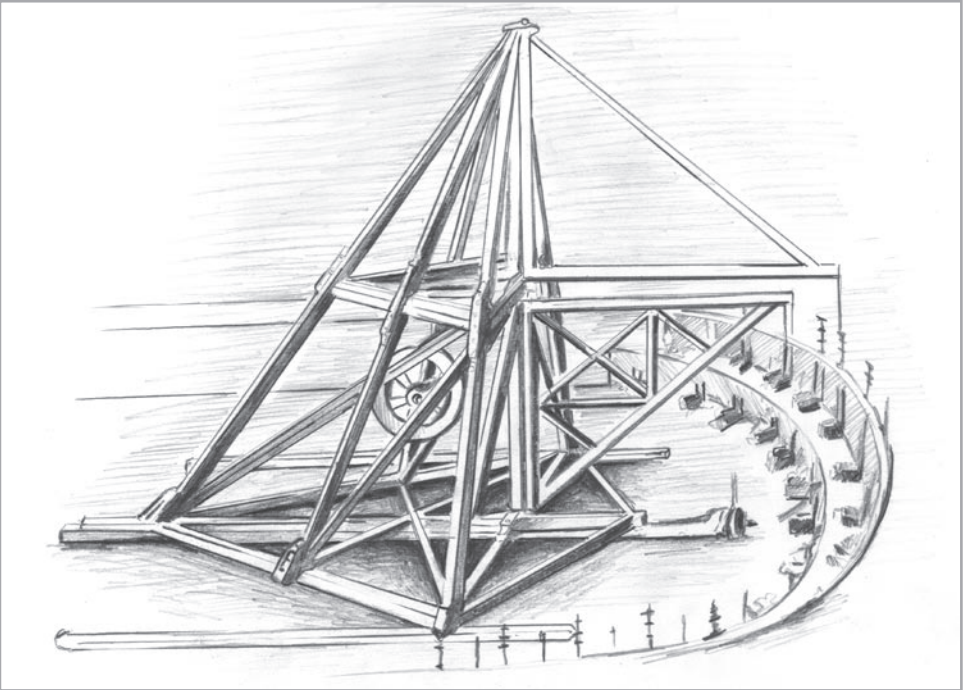
Optimised working conditions: for successful management of urban hydrological measuring networks.

The high and comprehensive requirements posed during the setup and management of urban hydrological measuring networks make the deployment of specialised software indispensable - for large and middle and even for small measuring networks. Our Water Management Information System WISKI supports all required tasks in this area.

WISKI allows for user friendly setup and efficient management of measuring networks in specialised structures and operational points within the channel network. Data from rain basins, pump plants or other operational points can be called up automatically or read manually. Discharge data within the channel network, amounts of precipitation or discharge operations are thus current at any time and ready for evaluation.

WISKI provides not only a decisive task for safety and efficiency with representation, but also automatic data validation that can be adapted to your individual requirements.

Through the automatic determination of key values like minima, maxima and mean values as well as sum values of days, weeks and months, WISKI supplies relevant values like:

- Amount of dumping and freights in the body of water
- Annual waste wateramount
- Contingents liable for wastewater treatment in rainwater and much more

Furthermore, any relevant evaluations and relationships between time series may be defined and checked nearly arbitrary. Thus the determination of load release amounts through a weir formula from the crest tapping can be reconstructed transparently in WISKI and can be calibrated on the basis of current measured data within the network.

For general drainage planning, WISKI offers timely unchecked discharge data from the canal network, which can be passed in any interface formats to external hydraulic calculations.

Vice versa, the quality of an external model calibration can be represented in WISKI graphically, and using automatically derived values (peak deviations, or other values) can be checked and documented transparently. WISKI therefore qualifies as a practical tool for daily planning far beyond the restrictions posed by traditional GIS applications or table calculations.

For the annual reports for submission to the supervision authorities, relevant numbers are derived at the touch of a button and passed to Office, or an appropriate report is generated completely in WISKI.

The system can scale for every conceivable application: Whether you need a portable solution with WISKI TV for reading devices on site within the scope of measuring campaigns, small desktop based database solutions, or complex integration of long-term operating and measuring points into a powerful client server architecture, WISKI adapts perfectly to any existing IT infrastructure.

A vision which spans the centuries.

Leonardo combined his fascination for anatomy with a passion for mechanics, to create the world's first robot. The robot, originally designed for a spectacular feast in the Castle of the Duke of Milan, fascinates inventors even today. Indeed, Leonardo's vision extends as far as the space age: his 500 year old drawings have inspired the hi-tech robots on the NASA space station.
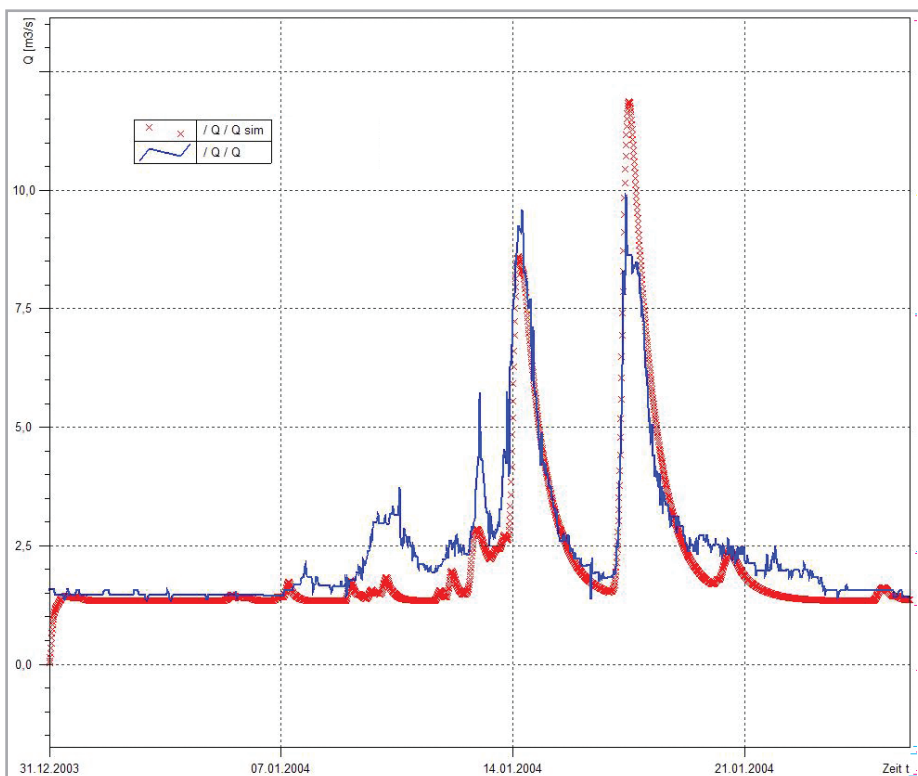
WISKI

WATER RESOURCES MANAGEMENT

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