


NEWS MARCH 2024

An Institution of  DVGW

TZW
Technologiezentrum
Wasser

Editorial

Dear colleagues,



Climate change, digitalisation and micropollutants are megatopics not only for the water sector. But what do these topics mean for the daily work of waterworks? And how can the challenges be met with innovative solutions?

In this issue, we present two projects that are working on precisely these kinds of solutions: Digital monitoring of water losses and the networked monitoring of water quality. Environmental chemicals such as PFAS must be detected and removed using new processes. We have summarised our comprehensive solution package on this topic in a flyer.

We will continue to work on bringing these topics down to daily practice in the water sector.

Have an inspiring reading.

Dr. Josef Klinger



Analysing time series of water consumption for loss detection

Experts at TZW have been working on the topics of water consumption and digitalisation for years. One aspect is analysing large amounts of data with the aim of gaining new insights and thus creating added value. Together with Wasserwerke Zwickau, TZW is working on the topic of digital water loss monitoring, which also utilises machine learning methods.

[Read more](#)



On the way to an autonomous early warning system for water quality

Climate change, changes in land use and the discharge of pollutants are threatening the quality of our surface waters. The DIWA research project "Digital networked and interactive water quality monitoring", which was launched in autumn 2023, is developing a comprehensive, combined monitoring system for a wide range of water quality parameters with the aim of creating an innovative early warning system. Thus only by understanding the complex processes that determine water quality it is possible to develop customised, forward-looking and sustainable protection measures.

[Read more](#)



PFAS in the environment - challenges and solutions

The chemical group of perfluorinated and polyfluorinated compounds (PFAS) has meanwhile entered the political and public debate. The PFAS group comprises around 10,000 different substances. They are characterised by the fact that they are water-, grease- and dirt-repellent and very persistent. They are therefore used in many products. New PFAS limits apply to drinking water as a result of the amended German Drinking Water Ordinance. We at TZW have been involved with the PFAS substance group for a long time and have carried out extensive research in this area. Read more in a new information flyer (in German).

[Read more](#)



News in brief

New projects

New research projects have been acquired for TZW. The main focus is on digital tools and the use of AI and machine learning in order to make water protection and water supply future-proof with new technical solutions in times of climate change.

[IQ-Wasser - Molecular biology and AI in biodiversity research](#)

[RIQO - Consequences of heavy rainfall and dry periods in Baden-Württemberg](#)

[ResilJetzt! - Water supply in water shortage regions](#)

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