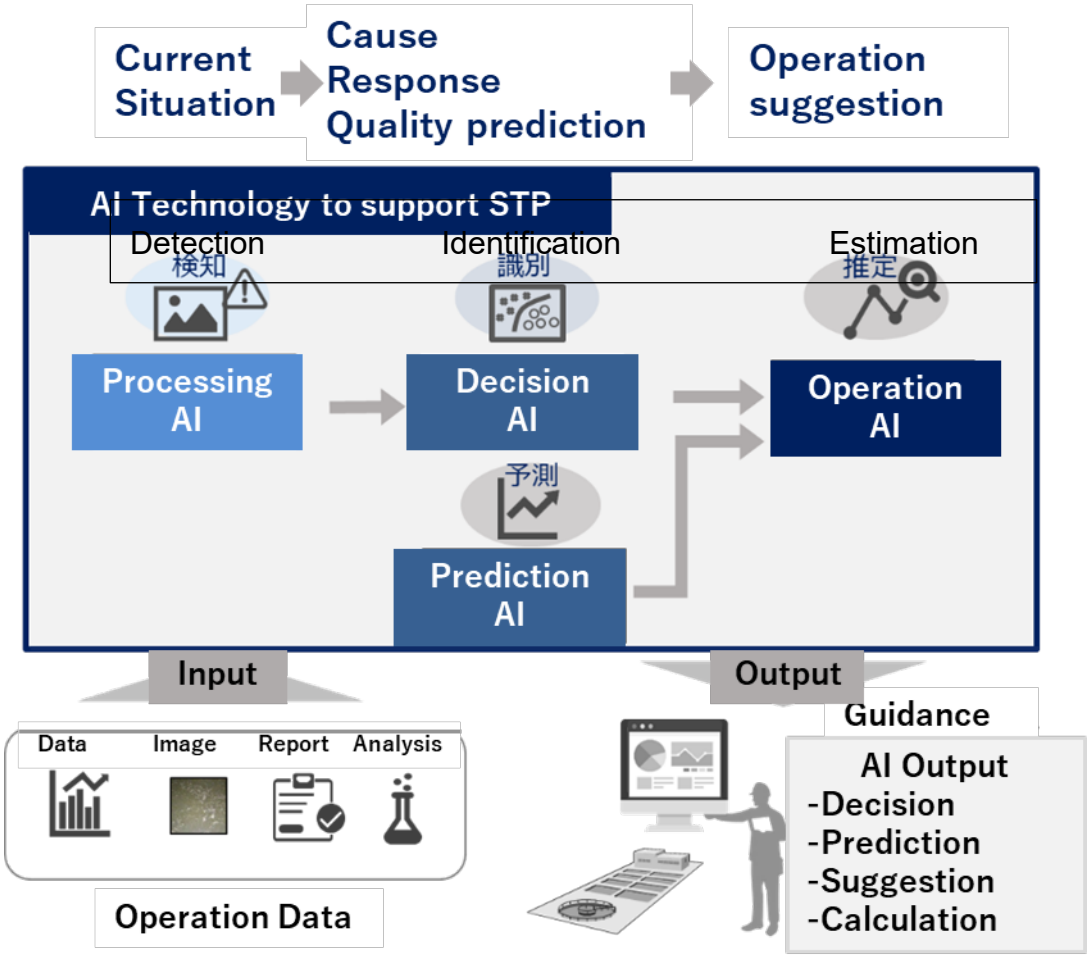
Passing on Healthy Water and Environment to the Next Generation

July 25, 2025

"AI Technology to Support Sewage Treatment Plants"
B-DASH Project Guidelines Established

NJS Co., Ltd.

The National Institute of Land and Infrastructure Management (NILIM) has established guidelines based on a Sewage Innovative Technology Demonstration Project (B-DASH Project) (※1). This project, the "Demonstration Project on Advanced Support Technology for Sewage Treatment Plant Operation Using AI"※2, had been commissioned by NILIM to a joint research group of NJS Co., Ltd. (Headquarters: Minato-ku, Tokyo; CEO: Masaaki Murakami), Hiroshima City (Mayor: Kazumi Matsui), Funabashi City (Mayor: Toru Matsudo), and Meidensha Corporation in 2021. The guidelines are available on the NILIM website as of July 25.



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This technology was developed to address the anticipated shortage of skilled technicians in the future. By visualizing the basis for decision-making to facilitate technology transfer, we aimed to achieve both the stabilization of treated water quality and the efficiency of operation management, as well as the reduction of maintenance costs. By analyzing data such as operation logs, wastewater quality analysis, and images of treatment conditions, AI can determine the status and provide real-time recommendations for operation decisions similar to those made by experienced technicians. Additionally, by accumulating data, the system will be able to contribute to more optimal operation decisions.

The introduction of this technology is expected to enable the inheritance of operational management that balances high-quality treated water with reduced electricity and chemical usage, while also contributing to the development of next-generation technical personnel.

We will continue to promote the adoption of AI and DX initiatives to address infrastructure challenges such as aging facilities and disaster countermeasures, while striving to enhance sustainability.

※1 The B-DASH Project (Breakthrough by Dynamic Approach in Sewage High Technology Project) is a national initiative launched in 2011 to develop and utilize new technologies to address various challenges in sewerage services. The project involves conducting technical verification at real scale facilities to establish guidelines, and to promote the adoption of innovative technologies in Japan.

※2 https://www.njs.co.jp/ja/news/news20210518103082/main/0/link/File81930310.pdf

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