### **Project Contractor**

Consortium between Meidensha Corporation, NJS Co., Ltd., the City of Hiroshima, and Funabashi City **Demonstration Field** 

Seibu Water Resources Reclamation Center, Takase Sewage Treatment Plant

#### **Demonstration Overview**

Demonstrate the stability of treated water quality and reduction of operating cost using AI technologies of image processing, assessing responses to anomalies, and so on, in order to inherit the know-how of skilled engineers and realize the optimization and effectiveness of the operation for sewage treatment plant.



### **Innovative Features**

The four AIs work together to provide operation guidance and realize technology inheritance by visualizing the basis for judgment and advanced support that aims to maintain or reduce costs.

# (1) AI Image Processing

Grasp the situation of final clarifier and detect anomalies using camera images as a substitution of the skilled engineers.

### (2) AI Assessing Responses to anomalies

Visualize the relationship between the cause and the response from the water quality and images, and identify the measures.

# (3) AI Operation

Estimate the optimum operation amount from the numerical data.

# (4) AI Water Quality Prediction

Predict the treated water quality for the current and estimated operational variables.