

# Demonstration of Operation Assist System using Artificial Intelligence technique during Rainy Weather in Separated Sewer System

## Conductors

Consortium between Mitsubishi Electric Corporation, University of Tokyo, Aichi Water and Greenery Public corporation and Aichi Prefecture

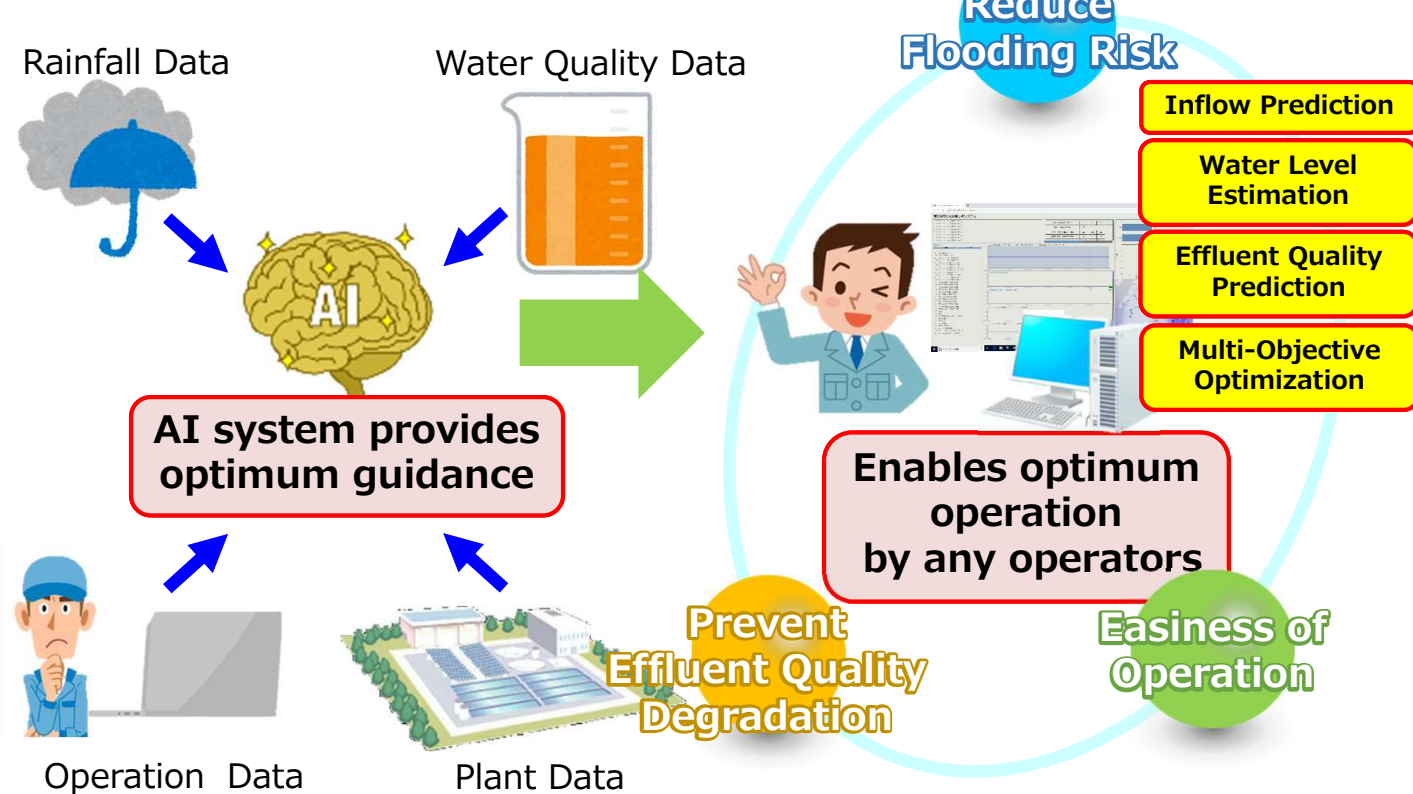
## Demonstration field

KinuuraSeibu Sewage Treatment Plant in Aichi Prefecture

## Demonstration Overview

This AI system learns operations of skilled engineer and provides optimum guidance of operation (of the sewage treatment plants) in rainy weather. This demonstration tries to prove that the operation realizes “Reduction of flooding risk” and “Prevention of effluent quality degradation”.

## Overview of Proposed Technology



## Features of Innovative Technology

### 1. Utilization of skilled engineers' Operation

- AI system analyzes historical data stored in the existing plant control system and provides optimum guidances of sewage treatment plants in rainy conditions.
- Operation based on the guidance realizes “Reduction of flooding risk” and “Prevention of water quality degradation”

### 2. Easiness of Operation

- Even inexperienced engineers can operate the plant easily by watching estimated value of “water level”, “effluent quality” and “electric energy”.