

Philippines-Japan ENVIRONMENT WEEK



Real-time Stormwater Management System

January 2025



Company Introduction of Nihon Suido

Water

Environment

Construction

Supply

Sewerage

Digital

Transformation

500 professionals

65_{th}

countries ...

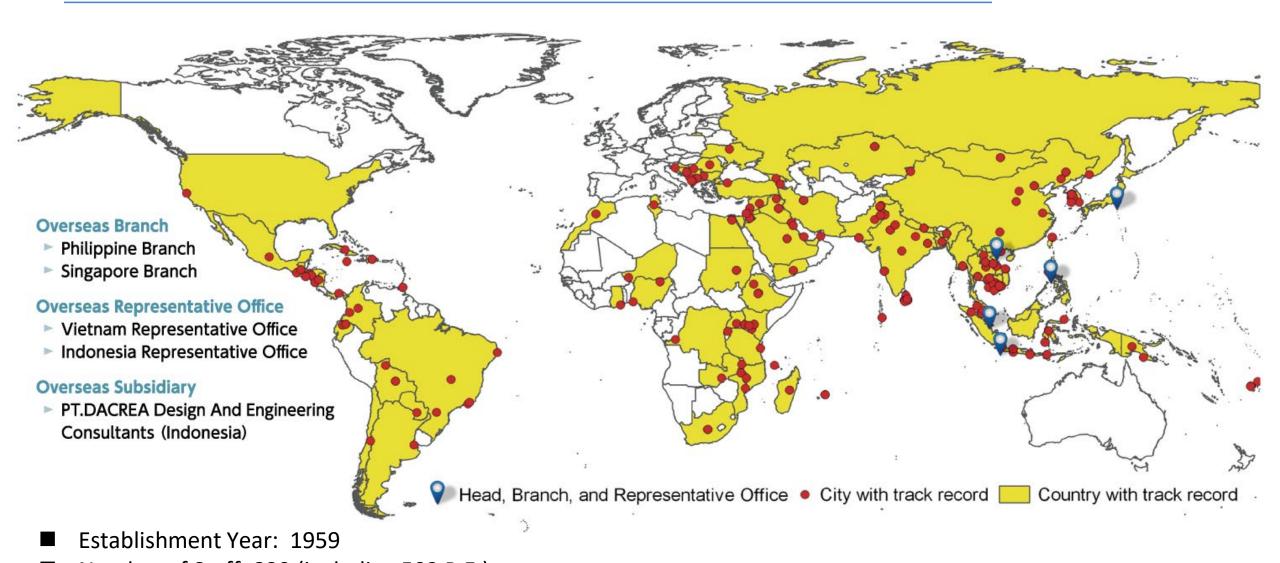
We are an engineering consultant company specializing in water and sewerage infrastructure.



We will provide total solution for Water-related Projects at Every Stage



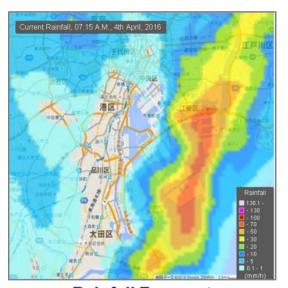
Our Presence in the World



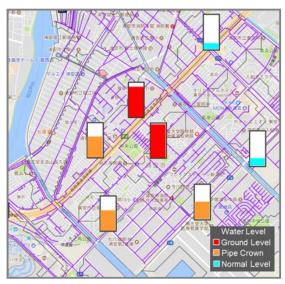
- Number of Staff: 839 (including 502 P.E.)
- ISO9001, ISO27001, ISO14001, ISO55001 registered

Our Innovative SMART Technology

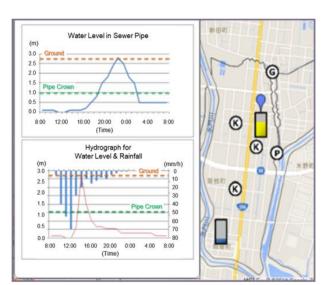
Real-time Stormwater Management System (Blitz GIS)



Rainfall Forecast (Current and Forecasted Rainfall)



Water Level Forecast
(Current and Forecasted Water Level)

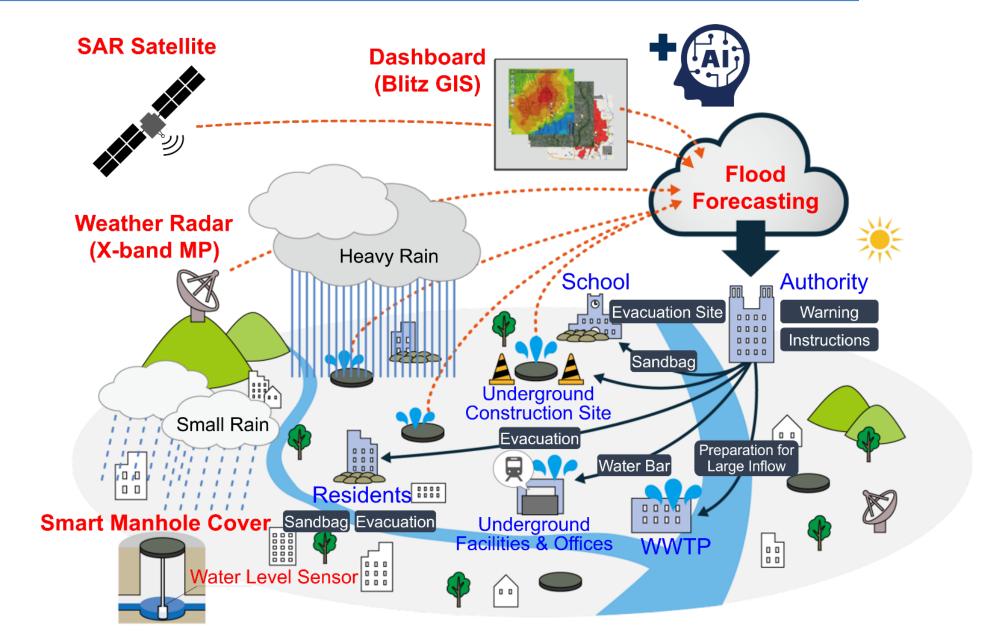


Hydrograph for Water Level and Rainfall



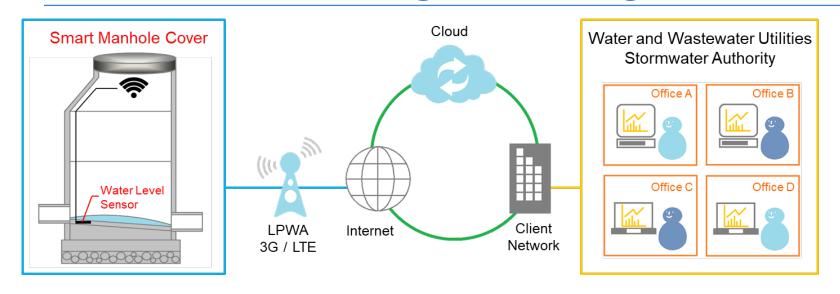
Flood Risk Distribution
(Forecasted by Rainfall and Water Level)

Outline of Smart Stormwater Management System



Nihon Suido Consultants

Real-time Monitoring for Drainage-Networks



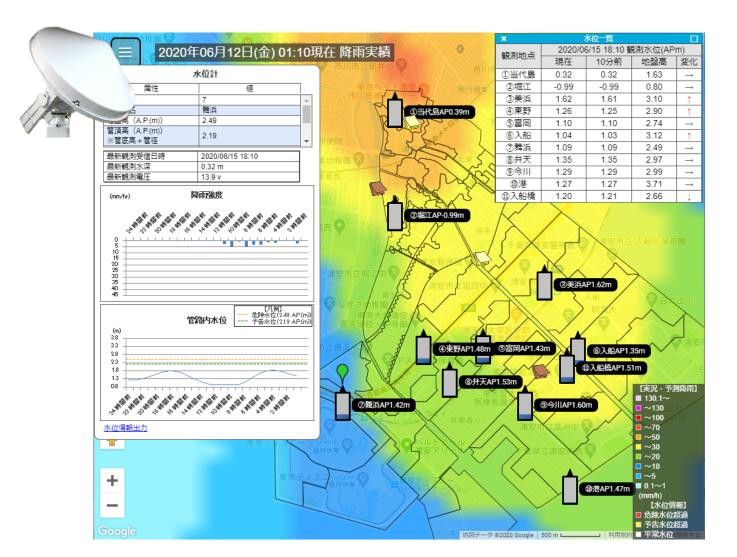






Stormwater Management System Overview

Rainfall information (weather radar) & water level: Real-time observation





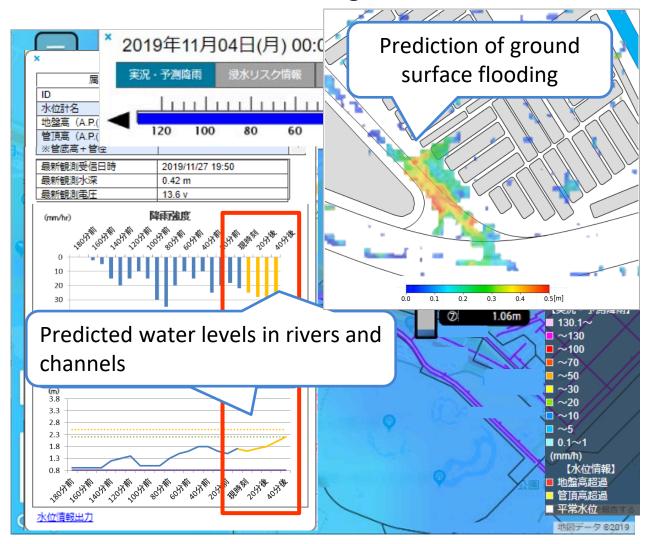
■ Alert Symbol in Blitz-GIS



Water Level	Condition	Symbol
Flooding	Over Flooding Water Level (Ground Level)	
Hazardous	Over Hazardous Water Level (Pipe Crown Level)	
Normal	Water Flow over 80% of Pipe Crown Height	
	Water Flow over 20% of Pipe Crown Height	:
	Water Flow below 20% of Pipe Crown Height	

Optional Features

1. Real-time Flood Forecasting



2. Flooded area map using SAR satellite



3. Disaster Information from Social Media



Smart JAMP Project in Davao

- Project Name: Smart JAMP Feasibility Study for Smart
 City (Disaster Prevention) in Davao City
- Period: June 2024 to March 2025
- Funded by: Ministry of Land, Infrastructure, Transport and Tourism (MLIT), Japan
- Counterpart in Philippines: City Government of Davao
- Implemented by: Yachiyo Engineering Co., Ltd.
 Nihon Suido Consultants Co., Ltd.

Project Description

- PoC for the stormwater management system (Blitz GIS) in Davao
- 2. Enhance the capacity for flood management in Davao City
- 3. Enhance urban functions and citizen quality of life

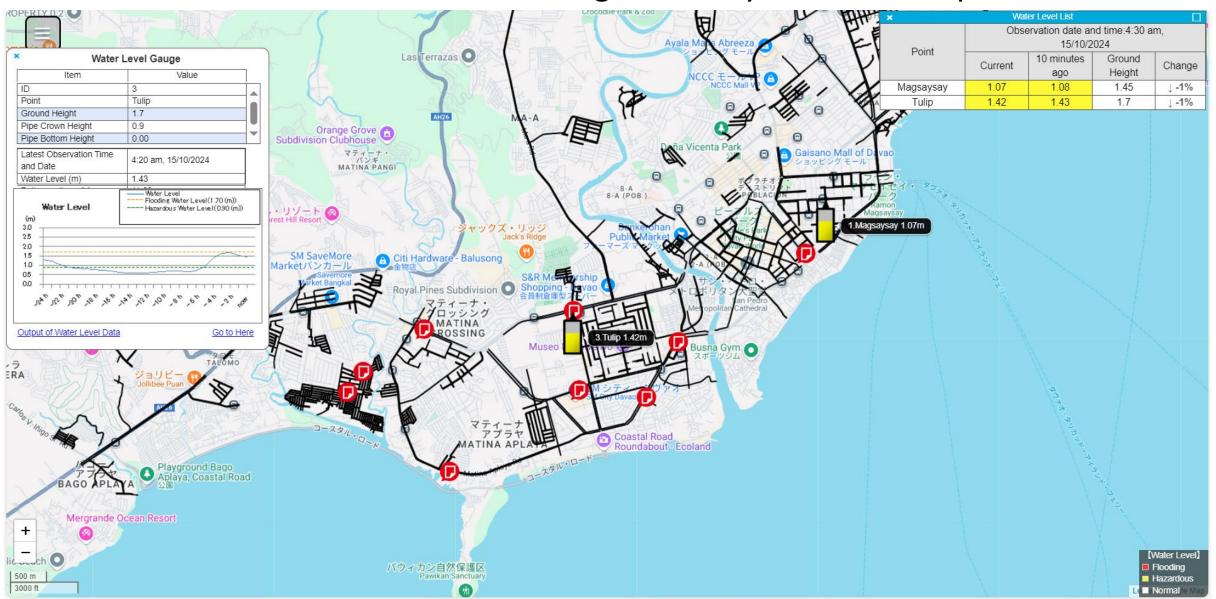




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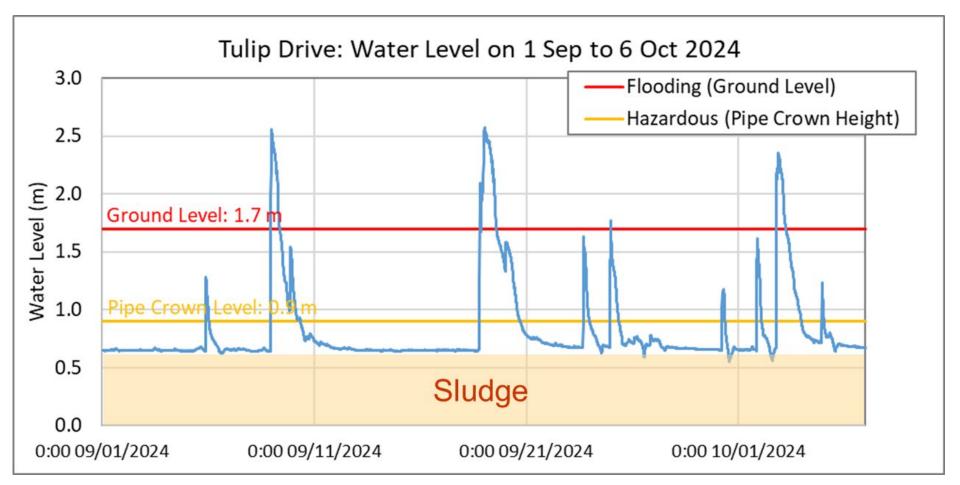
Stormwater Management System in Davao

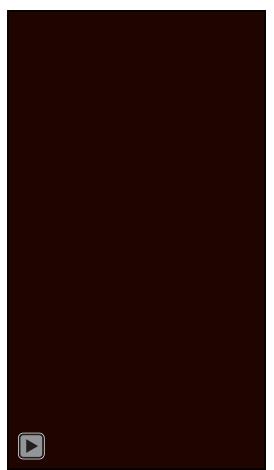
■ Actual dashboard of Blitz-GIS during the heavy flood on 8 Sep 2024



Stormwater Management System in Davao

Monitoring of the heavy floods during Sep and Oct 2024 at Tulip







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