Flood Nowcasting System for Urban Drainage

To recognize, inform and announce the flood risk promptly

Real-time Urban Flood Monitoring and Management System

Rainfall Information

Rainfall measurement with frequency and high resolution

Rainfall Radar

Water Level Information

Water level measurement and data transmission

Manhole Antenna

GIS Information

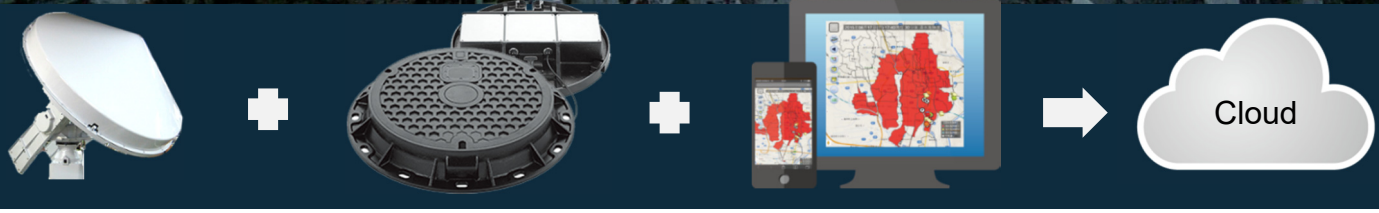
Data management of sewerage

Blitz GIS

Information Sharing

Integration of rainfall, water level, and GIS information

Cloud Server



To achieve SMART Flood Management

Flood Prevention System for quick recognition, information and announcement of flood risk

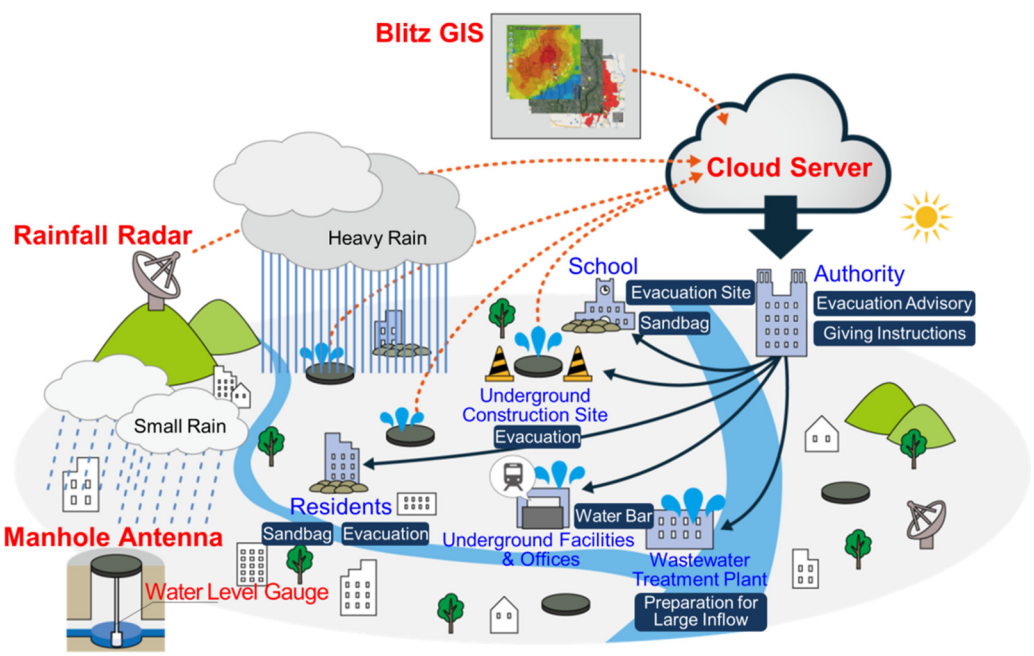
- The system can show current and forecasted data of rainfall and water level in sewers on a real-time basis.
- Rainfall is measured by radars and water level is measured by gauges with antenna installed inside sewer manholes.
- A spatial distribution of rainfall and water level is displayed on Blitz GIS and shared on Cloud Server simultaneously together with necessary information on flood prevention.
- Through the shared information on Cloud Server, the flood risk can be promptly recognized, informed and announced.

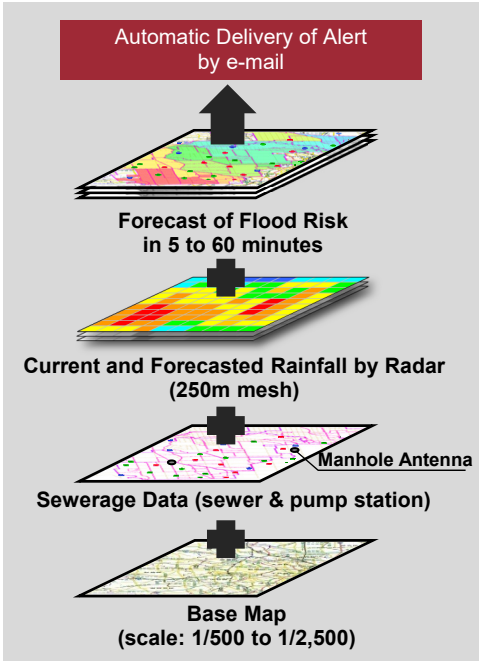
※ Manhole antenna is jointly developed product of Tokyo Metropolitan Sewer Service Co., Ltd., HINODE Ltd., and MEIDENSHA CORPORATION.

MEIDEN MEIDENSHA CORPORATION

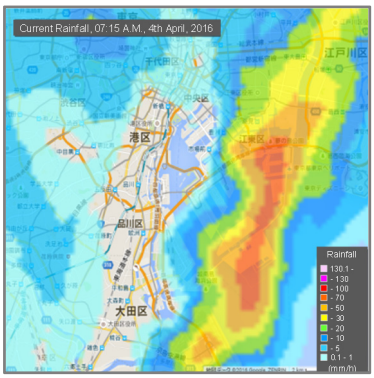
Nihon Suido Consultants Co., Ltd.
Water and Environmental Consultants

Outline of System

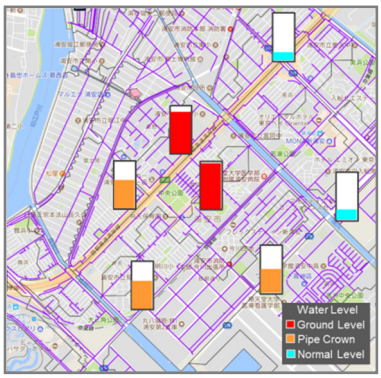




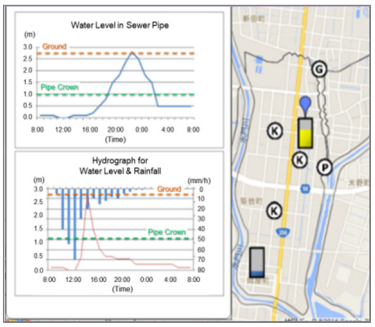
Function of Flood Management



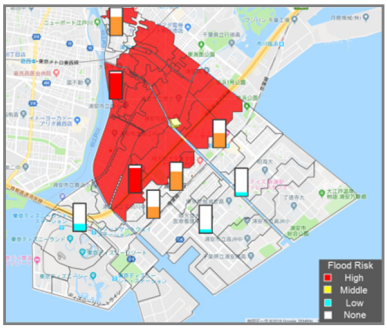
Rainfall Nowcasting
(Current and Forecasted Rainfall)



Water Level Nowcasting
(Current and Forecasted Water Level)



Hydrograph for Water Level and Rainfall



Flood Risk Distribution
(Forecasted by Rainfall and Water Level)

Function of Information Sharing

Record of Situation and Operation Result
(colored by category)

Delivery of Alert by E-mail
(if forecasted water level exceeds a specified height)

Photo and Video of Sites with Comment

- The current and forecasted rainfall and water level in 1 hour are displayed on Blitz GIS.
- The distribution of flood risk forecasted by rainfall and water level is also displayed on Blitz GIS.
- Users (e.g. authorities related to flood management) can easily access necessary information on flood management through the function of information sharing.
- Users can implement related activities on flood prevention effectively and promptly (e.g. evacuation, giving instructions and related preparations for heavy rain in advance).

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