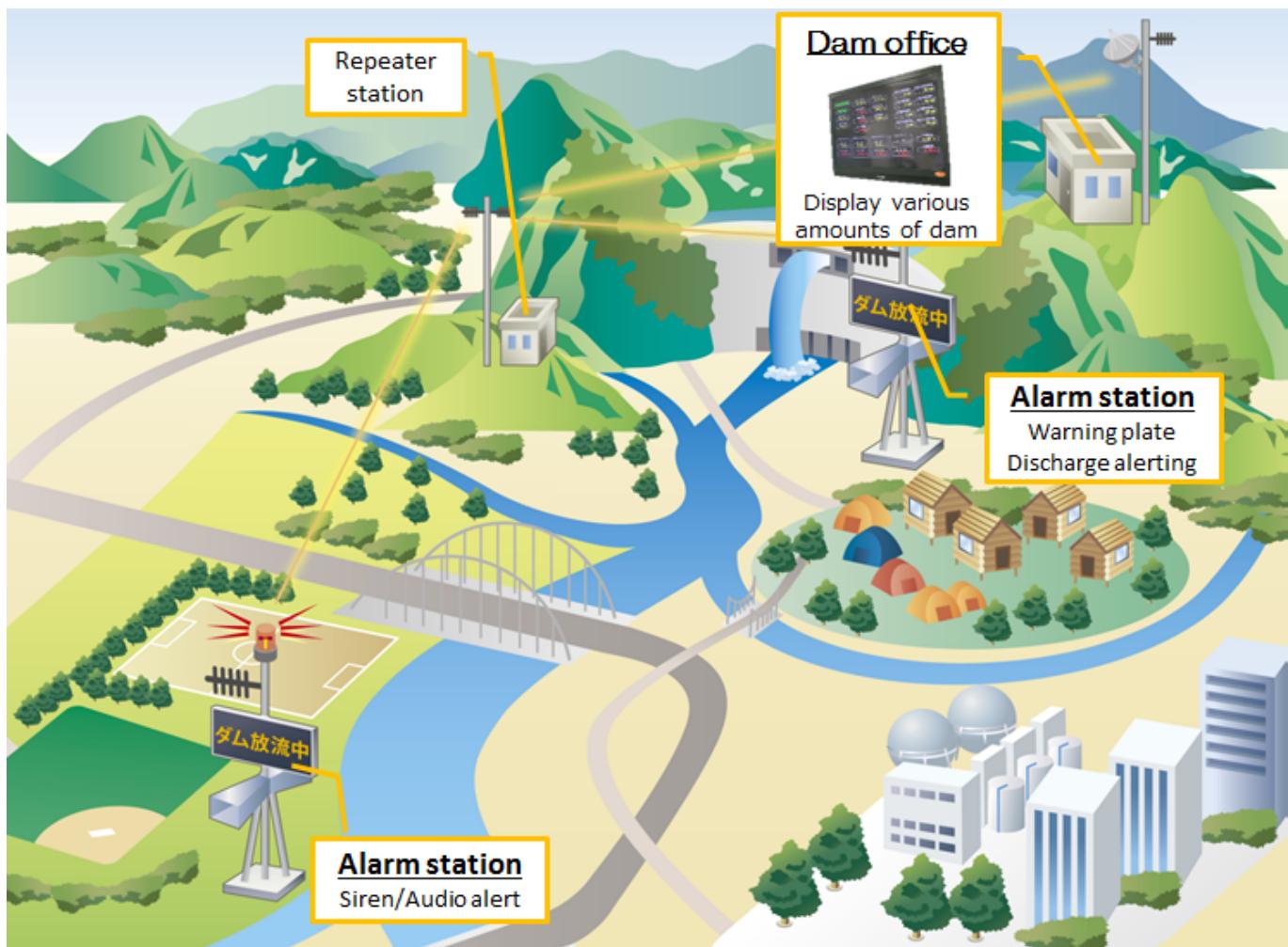


Dam Control Management System

Achieve a consistent system that covers the information collection/prosesser from the observation equipment, the discharge alerting.



Hazard

Cyclone Flood Drought

Solution Purpose

Prevention & Mitigation Preparedness

Solution Theme

Risk Assessment Infrastructure Technology Information & Communication Technology Evaluation

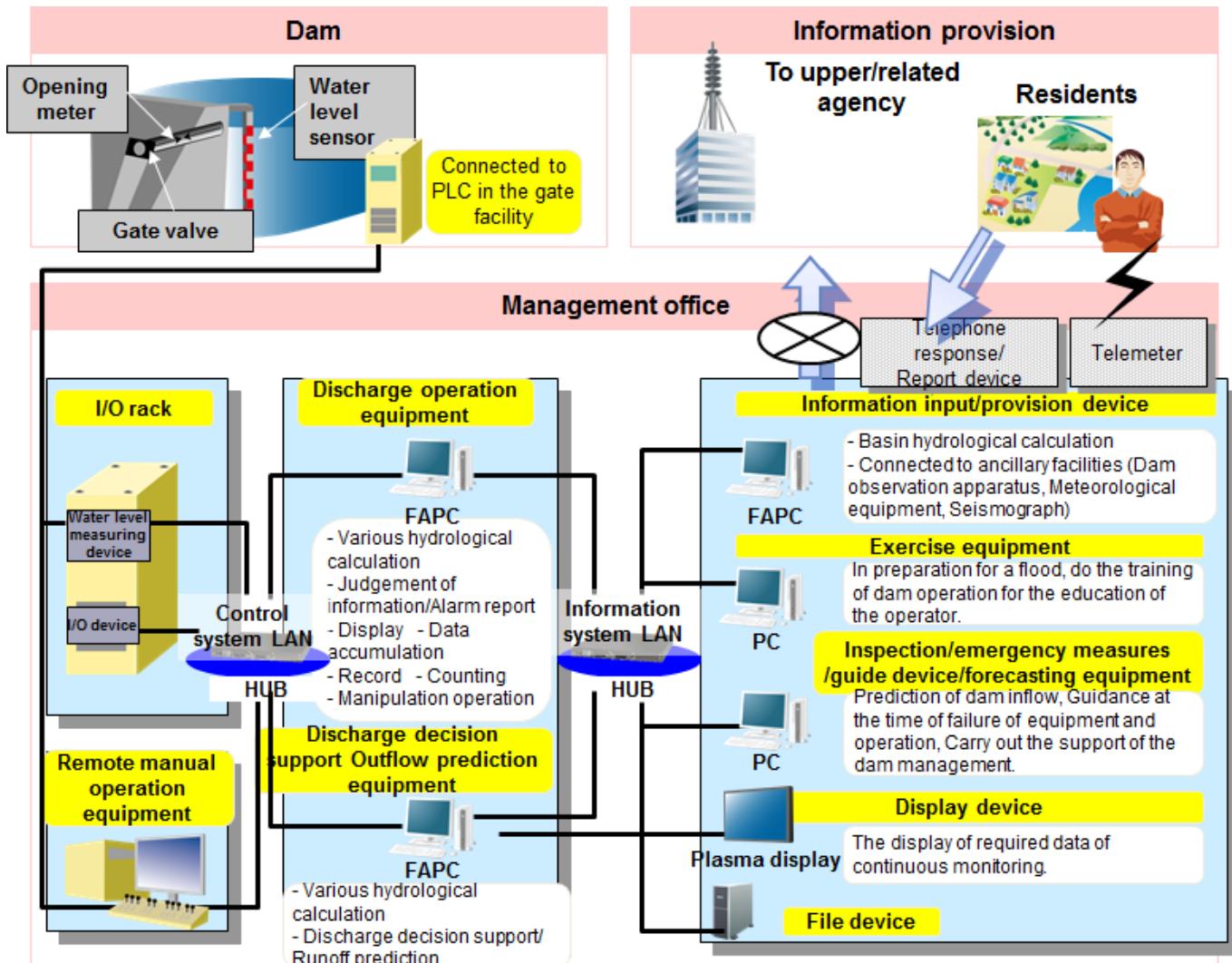
Technology Subject

Hazard Identification Hazard Simulation Risk Monitoring Impact & Damage Simulation River & Basin
 Dam & Reservoir Information Gathering Information Analysis & Judgement Information Communication
 Information Platform Post Disaster Evaluation Post Training Evaluation

Advantages

In order to achieve a safety, assured and rational Dam control, the Dam Control Management System executes observation and discharge control for 24 hours a day, every day in accordance with the standard specification issued by the Ministry of Land, Infrastructure, Transport and Tourism. Fujitsu has been involved a consistent system that covers the observation facilities, processing and discharge warning.

Solution Illustrated



Background

Due to the natural environmental changes in recent years, it has become important to take measures to natural disasters such as frequent occurrence of abnormally heavy rain. The dam management is to properly manage and control the water situation of the dam lake, make effective use of disaster management and water resources. It is necessary to develop a safe and secure social infrastructure by the dam management.

Exposition of the Solution

[Objective]

When it rains by a typhoon approaching or the rainy season, there is a risk of disaster such as flooding in

the rivers. The dam management system perceives a rainfall state, the water volume flowing into the dam, the water storage levels, and prevents a flooding disaster from occurring by properly discharged from the gate.

[Function]

The Dam Control Management System is composed by the measured data remote collection unit, PC and so on. It collects the observation information such as water-levels, rainfall, then carry out the processing and analysis to support the flow rate prediction, and run the appropriate discharge by opening and closing operation of the gate. Additionally it can be issue the discharge warning to the downstream region.

Achievements of Examples

Ministry of Land, Infrastructure, Transport and Tourism Municipalities, Water Resources Development Public Corporation, An electric power company

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