

Introduction of Disaster Prevention System

Oct. 2019

FUJITSU LIMITED

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Human Centric Innovation

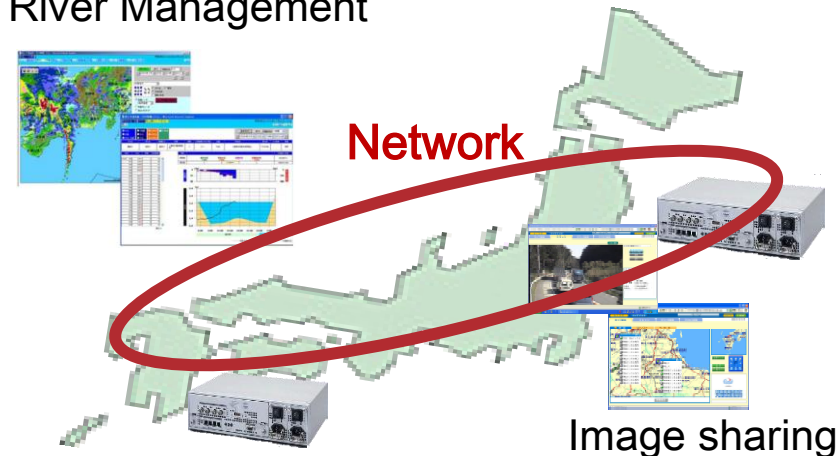
Driving a Trusted Future

Corporate Profile

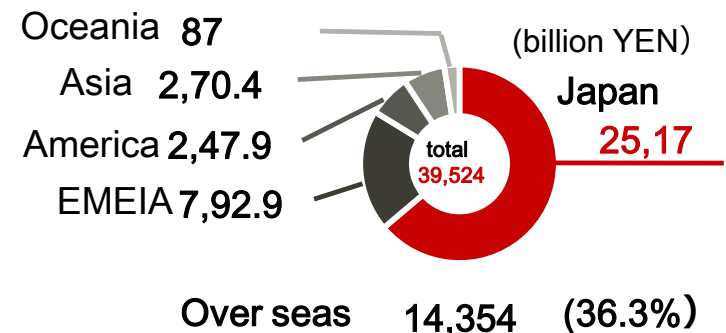
Since the 1960s, we have provided solutions for the river and disaster prevention fields.

President	Takahito Tokita
Established	1935
Business Area	Technology Solutions Ubiquitous Solutions Device solution
Employees	132,138 (More than 100 countries around the world)
Revenue	3,952.4 billion yen
Disaster prevention Solutions	Solutions: Disaster prevention network River information Dam discharge control Disaster management system etc. Delivered to: Ministry of Land, Infrastructure, Transport and Tourism, Prefectures, Municipalities

River Management

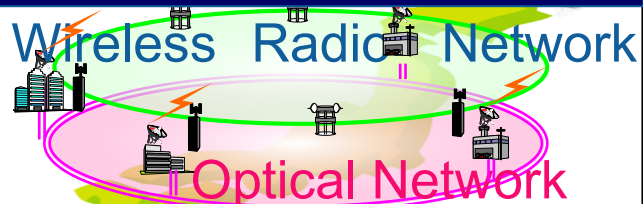


Fiscal 2018 Sales by Region

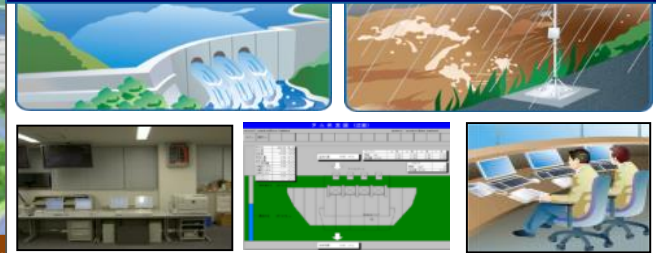


Fujitsu's approach to Disaster Prevention

Network System



River and Dam Management system



Disaster Information Management system



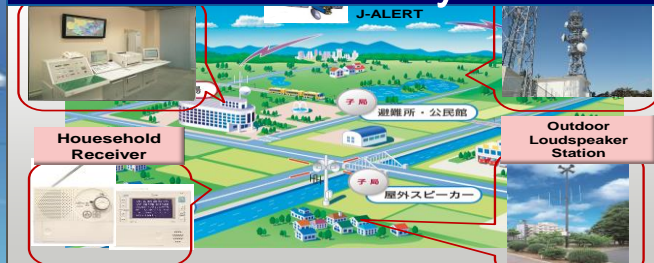
Water Gate remote control system



Fire Prevention System



Local Wireless Disaster Administration System




Centralized management of the disaster situation and support rapid response

Before

- ✓ Disruptive reporting of disaster information (Phone, fax, WhatsApp)
- ✓ The overall damage situation is unknown.

Problem

- ✓ Delay and Confuse due to message game
 - ✓ It takes time to grasp the whole situation.
 - ✓ No one can understand the disaster situation in other areas
- 

After the system is installed

- ✓ Quickly tabulate and centrally manage data input into the system
- ✓ Situation sharing from anywhere by disaster prevention center or PC

River Management System

- ◆ Water level and rainfall information is collected
- ◆ Grasp the status of rivers
- ◆ Water level prediction is carried out.

Before

- ✓ The water level of the whole river is unknown.
- ✓ Changes in water level are not known over time.

Problem

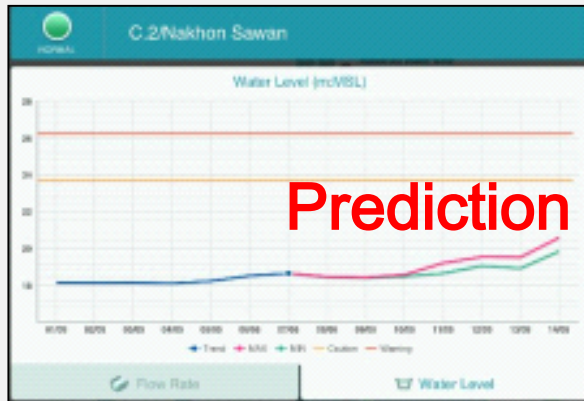
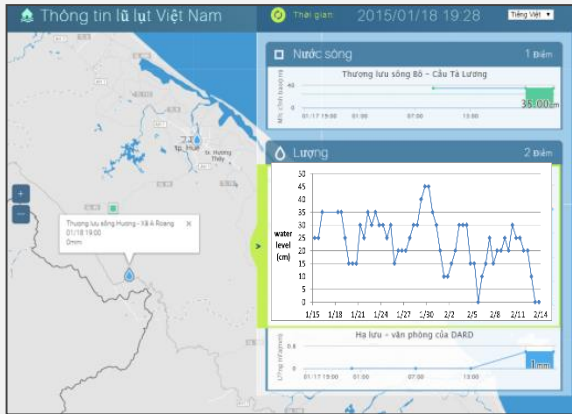
- ✓ Don't know where the danger of flood is approaching.
- ✓ Inability to provide appropriate evacuation information in a timely

After the system is installed

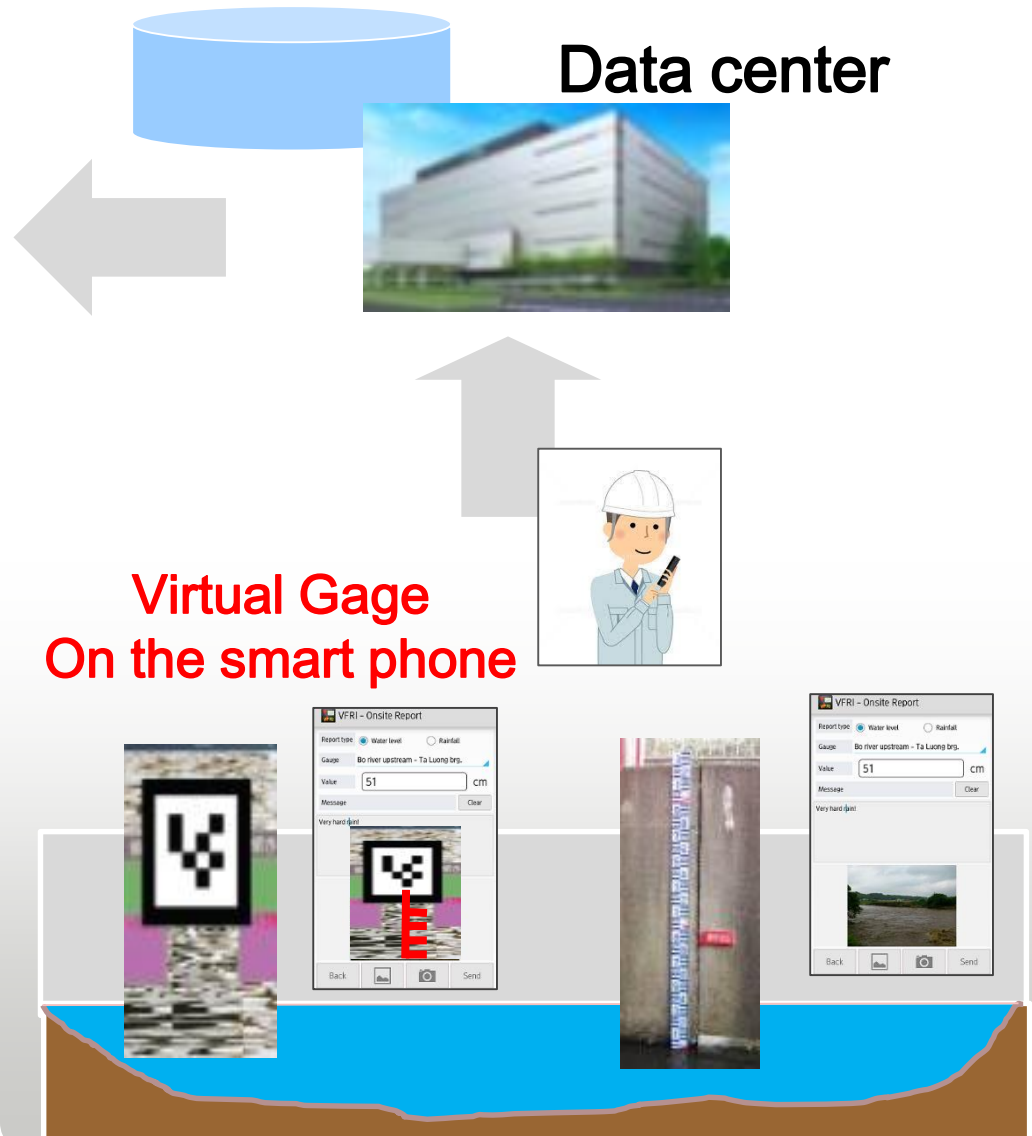
Enhance the water level observation system quickly at low cost. Simple water level prediction is possible.

River Management System

Management Display

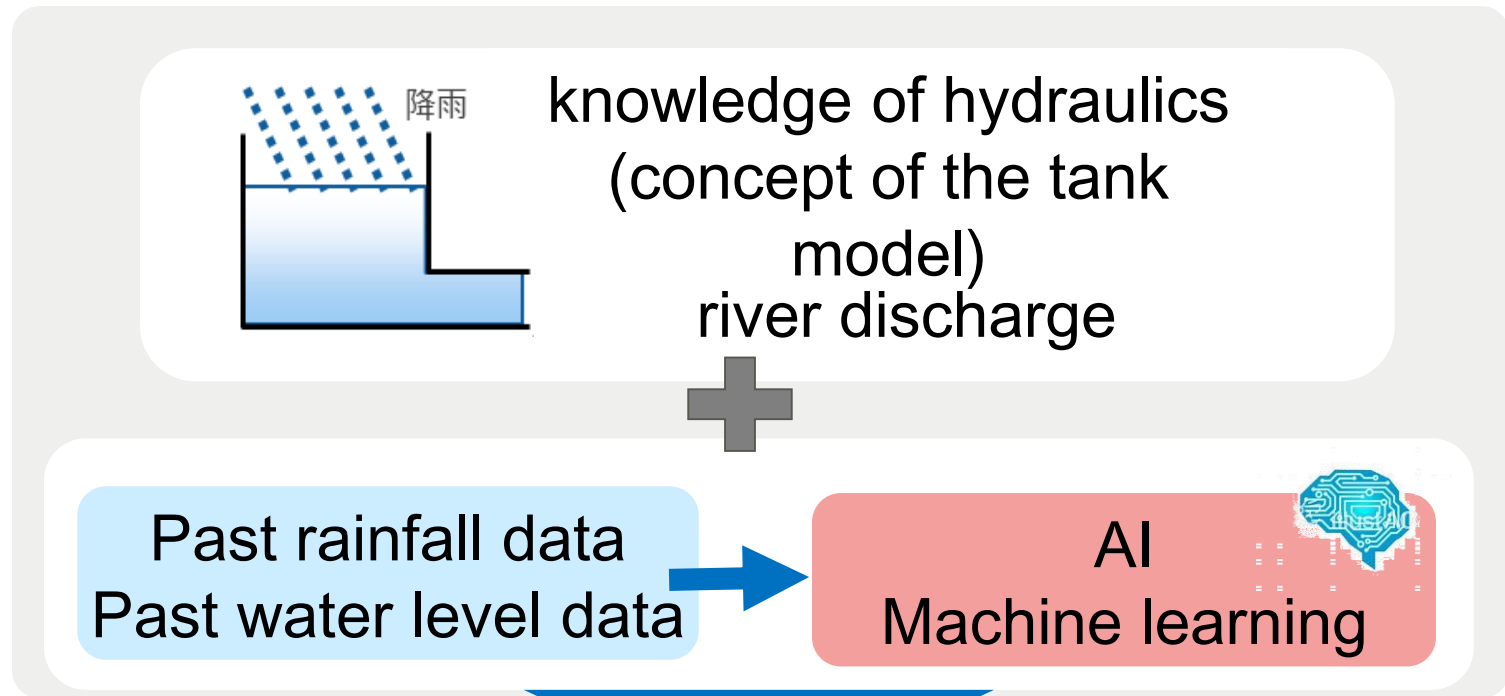


Prediction



Virtual Gage
On the smart phone

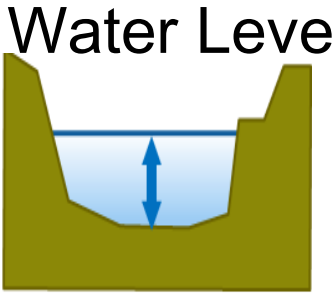
Water Level prediction by using AI



3 days ago~current
rainfall, water level data

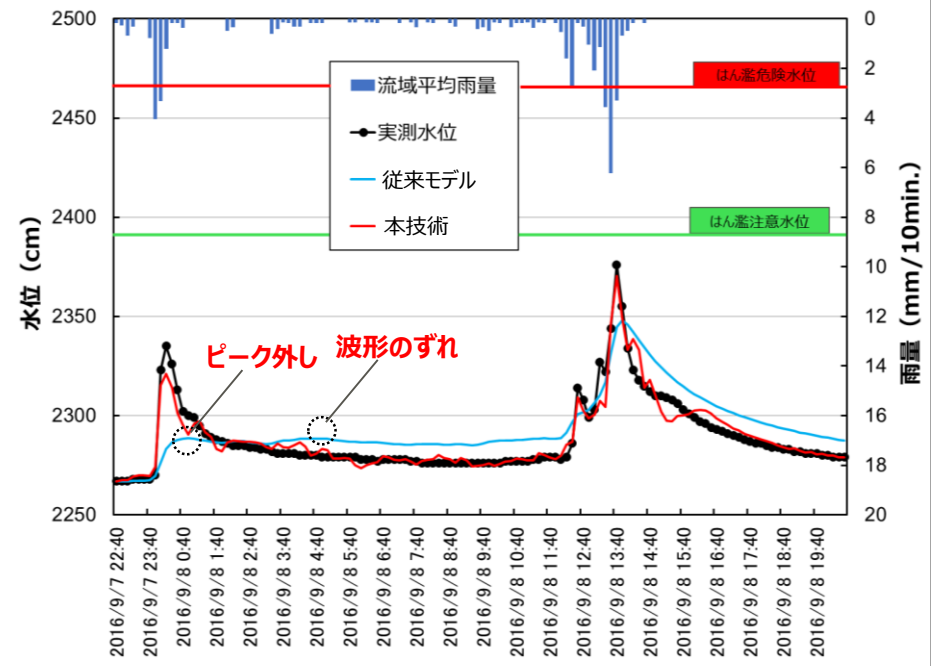
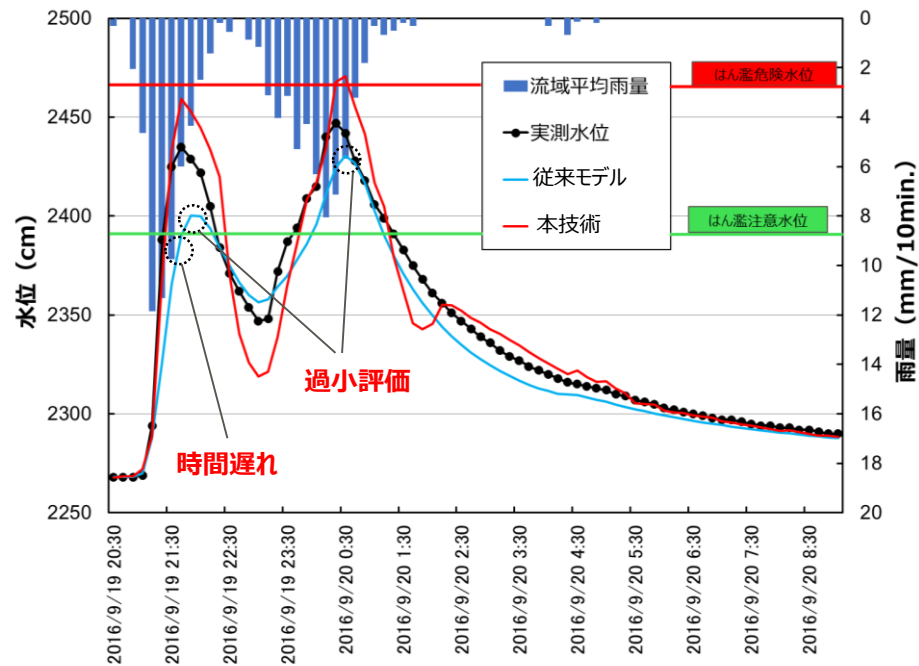
Meteorological data
(Rainfall prediction)

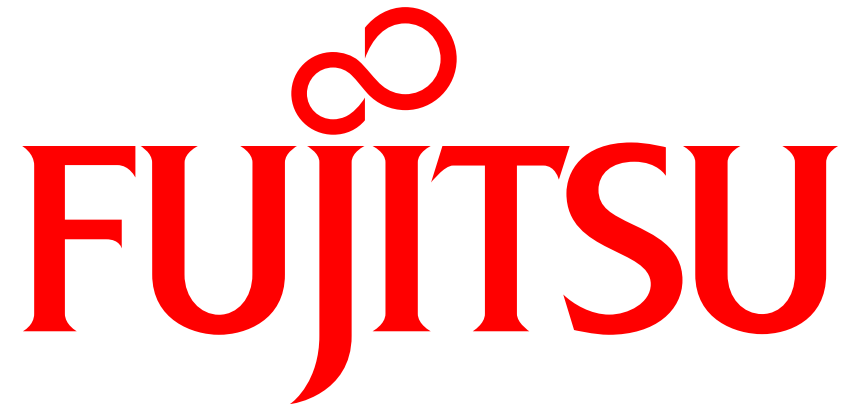
Mathematical model
of water level prediction



Water Level prediction by using AI

Comparison with the prior art





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