

Low cost, Long life, Localized

3L Water Level Gauge

Japanese government's leading project

Measuring water level
only during flood

3L Water Level Gauge was developed through the innovative river engineering project
promoted by MLIT* of Japan

*Now being installed in about 3,000 stations of MLIT-managed rivers
and 5,800 stations of medium to small rivers in Japan.*

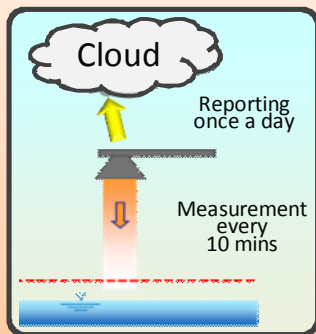
*Ministry of Land, Infrastructure, Transport and Tourism

- ✓ **Low cost:**
- Measure river level only during flood
→ Communication cost reduction
 - Technological development of batteries and telecom equipment
→ Installation cost: Less than 1 million yen per gauge

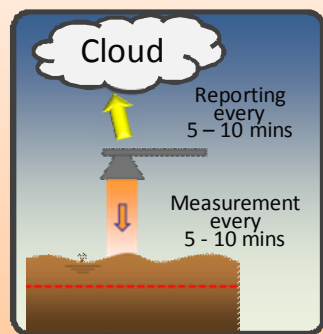
- ✓ **Long life:**
- Long time maintenance free
(More than 5 years operation without power supply)

- ✓ **Localized:** - Local river authorities are able to measure and monitor water level on their own

Power Saving by Mode Switching

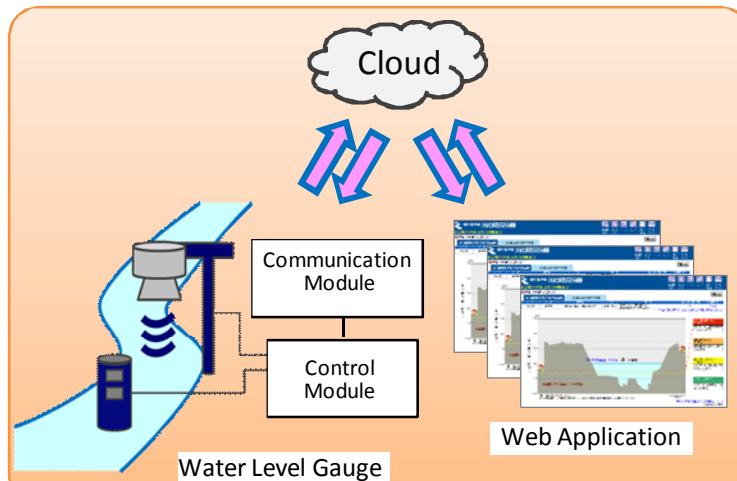


<Monitor Mode>
(power saving)



<Measurement Mode>
(In case of flooding)

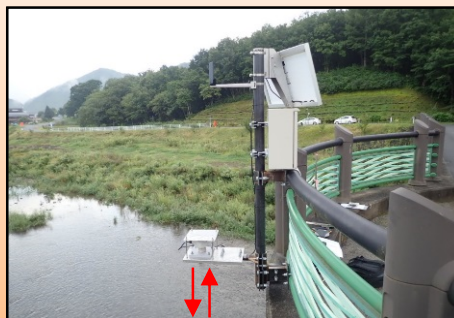
Data Management and Transmission



Installation on sites



Contact type

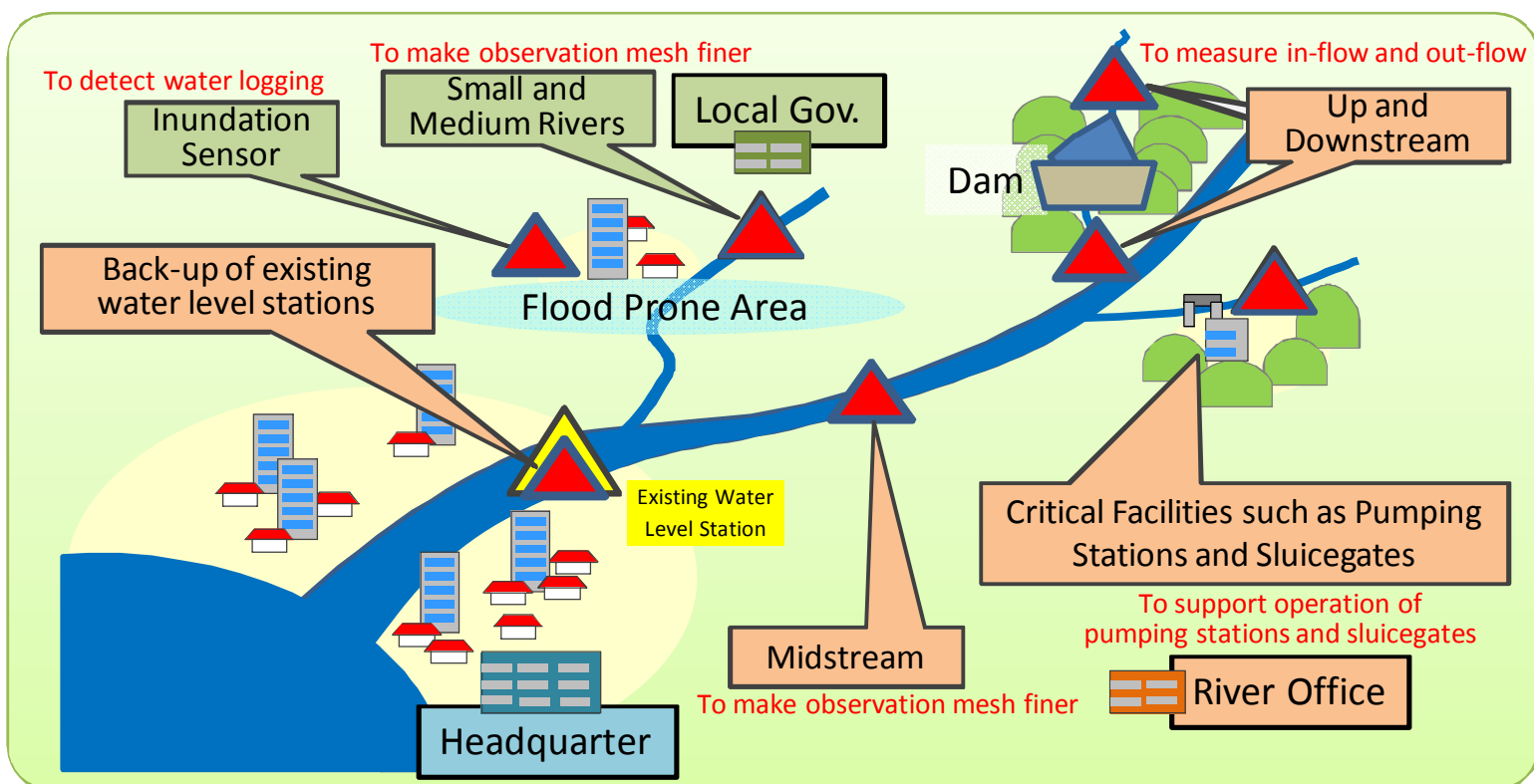


Non-contact type (attached to bridge)



Conventional river station
(more facilities needed)

Places and Objectives to Install

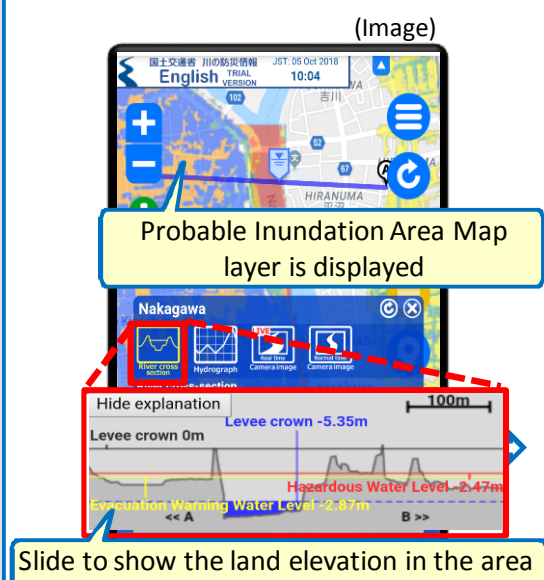


Information Provision (compatible for both PC and Smartphone)

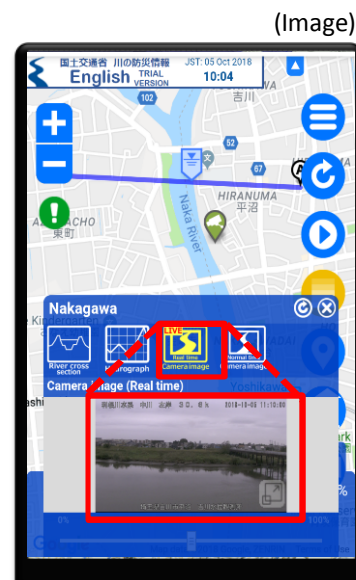
Current and past river levels, showing the trend of river level rise



Lateral profile of the current river level, showing the risk stage of flooding



Live image from CCTV camera, showing the condition of river and flood plain



Contact Information

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<https://www.river.go.jp/e/>