ICT, IoT, and Big DATA Application for Irrigation facilities management

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Irrigation & Drainage Facilities

Reservoir Management Tool

Korea Past & Now

Irrigation No Matter What Happen

Hydrological Operation Model for Water Resources System
Application of HOMWARS

- Determination of new reservoir size
- Evaluation of supply potential of existing reservoir
- Drought analysis by climate change scenarios
- Design of delivery canal
- Analysis of irrigation supply for new cropping pattern
- Analysis for potential environmental flow supply
- Analysis for potential of drinking water supply for rural area

Reservoir storage & Canal water level

Canal water Delivery Info System

- Water Distribution Info System
  - Optimum flow rate recommendation as of flow depth in canal
  - Providing current water level of station for optimum water supply

Hydraulic model development for Irrigation Canal – SWMM based

Irrigation Canal Delivery Simulation
Irrigation Supply prediction by ANN

Big Data Analysis for Drought

Thank you for listening