



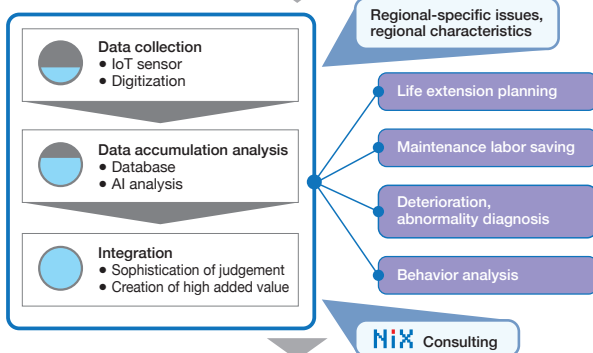
ICT

Local regional bodies are expected to conserve social infrastructure using new technology such as IoT, Big Data, AI, and 5G when faced with a large number of issues such as responding to the ultra-aging society, revitalizing the regional economy, and reestablishing social infrastructure. Our company is using its technical prowess in ICT to realize a digital transformation with local government bodies, residents, and private corporations, and contribute to realizing a regional society with a bright future.

Infrastructure Solution Services (NiCS)

By fusing our long-time sponsored consulting business with GIS, AI, and IoT technology, we are now providing a “NiCS” Cloud Service that specializes in services that meet the granular requirements of regional customers. These are solution services that can improve the efficiency of local-government employees’ performances and revolutionize the working style.

Field of adaptation	
Road • Correspondence of national resilience • Road maintenance	River Soil erosion • Correspondence of national resilience • Life extension planning
Conservation • Infrastructure management • Life extension planning	Agricultural civil engineering • Maintenance / facility renewal • Transparency of production process
Water supply and Sewage • Stock management • Flood analysis simulation	New energy • Introduction of renewable energy



We are realizing a digital transformation to create a prosperous regional society.

Database services (DBS)

We have made a database for social infrastructure ledger data, including roads, sewage, bridges, and disaster information, to provide one-stop management of maps using the Geographical Information System (GIS) and maintenance management through its “Database services (DBS)”.



Bridge maintenance system (Hashimori)

IoT Integration Service (IIS)

We are analyzing various social infrastructure data collected via IoT devices using AI technology and providing an “IoT Integration Service (IIS)” that supports early error detection and facility operation support.

AI Water-Level Fluctuation and Distribution Prediction System

Learning from past observation data (precipitation and water-level) to predict local numerical water-level changes

Distributes the predicted water-level in real-time (1-min cycles)

- Rainfall observation
- Water level observation

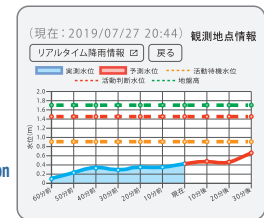
Learning

Predictive model construction

Machin learning



Prediction

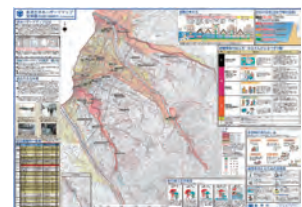


No need for sewage management network or precipitation prediction model

Usage scenarios : Inundation attack site monitoring, sluice gate operation support, and underpass flood protection

Hazard Map

This demonstrates the scope of the multiple natural disasters occurring in recent years, showing and indicating evacuation points to note on a map. By creating a map that considers regional characteristics, we are working to create a safe and stable region.



- Flooding, landslide disasters, and earthquake prevention.

Ledger System

This is a system for managing the social capital stock facilities. As the facility information is managed on a one-stop basis, the ledger system facilitates the efficient operation of social capital stock.



- Sewage facility management, road lights, and soil erosion facilities.