

Nihon Suido Consultants Co., Ltd.

CORPORATE PROFILE



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Message from President



Nihon Suido Consultants’ vision is to become a “Water Impact Company.”

Since our founding, we have led the industry as a “water consultant” with water supply and sewerage systems as our primary area of business.

Our mission is to solve various social issues related to water through our business activities. We believe that by achieving sustainable growth through these solutions, we can provide significant value to society.

To achieve this, we will connect our high level of technological expertise in water infrastructure with market needs and create new business opportunities by putting in place management bases to effectively utilize our management capital.

Going forward, we will continue to aspire to be a “Water Impact Company” that grows by solving social issues related to water. We also hope to be trusted and preferred by customers, local communities and more stakeholders.

We sincerely appreciate your support and cooperation.

Nihon Suido Consultants Co., Ltd.
NAKANISHI Shinji, Representative Director and President



Head Office

Company Policy

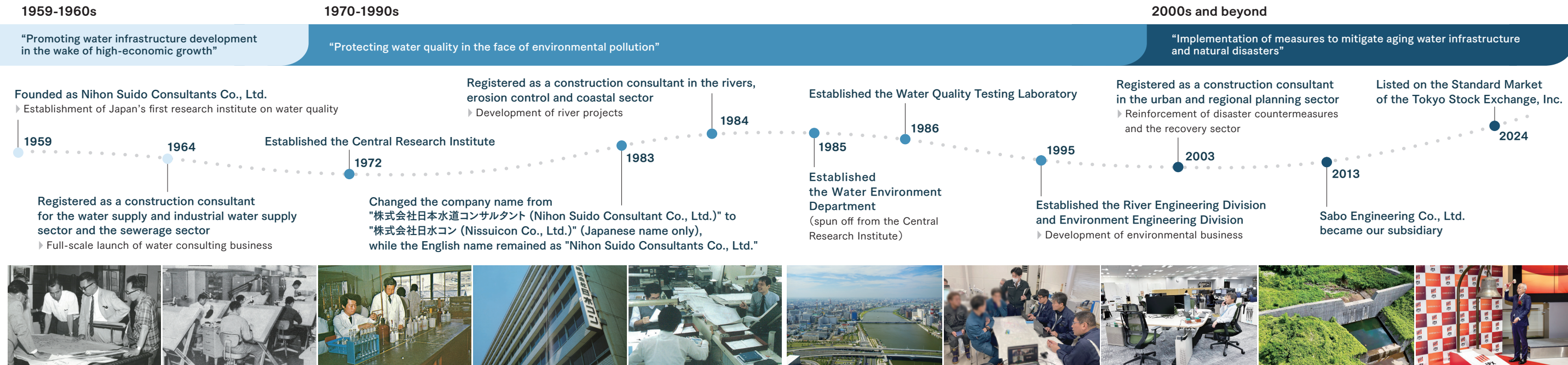
Provide advanced technology to serve the society and the public.

Achieve results by acting with dignity and forming harmonious unions.

Management Philosophy Framework

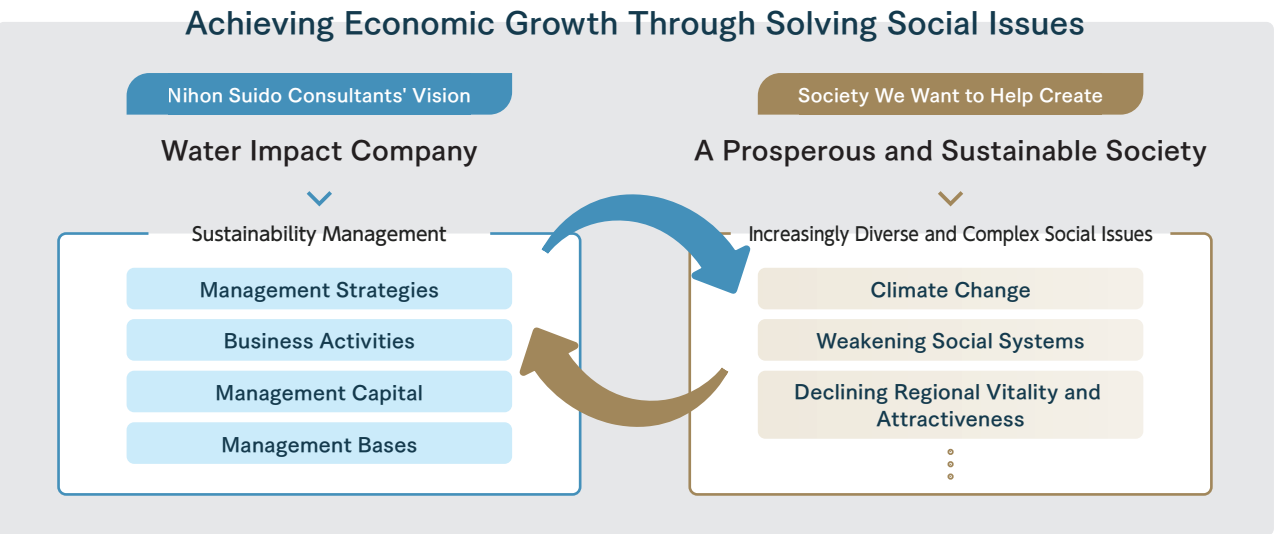


Nihon Suido Consultants’ Journey



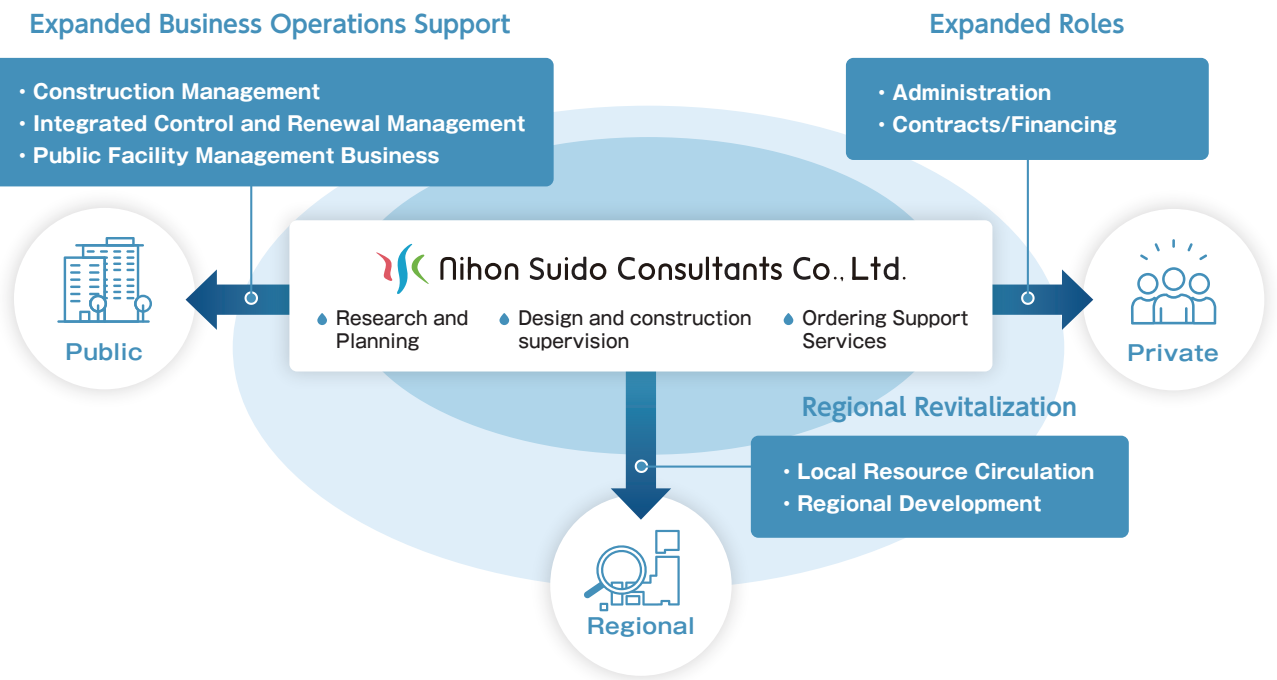
Value Creation

Of the many water-related social issues, we have identified three as material issues (materiality) that must be addressed now: climate change, weakening social systems, and declining regional vitality and attractiveness. Through solving these social issues, we will help to build a prosperous and sustainable society. Furthermore, by promoting sustainability management, we aim to achieve economic growth and create social value as a “Water Impact Company.”



Direction of Business Structure

Water infrastructure projects in Japan are currently facing many challenges. National and local government finances are becoming more and more stretched against the backdrop of the declining birthrate, aging population, and increasingly severe disasters. In addition, the infrastructure facilities developed in each region during the country's high-economic growth period are aging and require substantial investment to update them. Furthermore, the aging of local government employees and a shortage of personnel are becoming increasingly critical, and this is also impeding the transfer of skills. In order to solve such issues surrounding water infrastructure projects, we will actively offer solutions to the “Public,” “Private,” and “Regional” sectors, while deepening our involvement in the water infrastructure business itself and supporting it from a comprehensive and holistic viewpoint.



Towards Solving Social Issues

We are working to solve social issues by providing optimal solutions for each region, based on the high level of technical expertise we have cultivated over many years.



Challenge Decarbonizing Society
Preparing for Super-Typhoons and Torrential Rains

Carbon Neutrality
We conduct feasibility studies concerning energy saving, creation, and re-energization in the fields of water and sewage, and formulate water supply and sewerage system plans that address global warming.

Flood and Inundation Measures
From a perspective of river basin flood control, we formulate inundation measures that cover both river water and rainfall inundation over a wide area. In addition, we make a rated assessment of disaster risk to identify damage-prone catchment areas, and formulate a sediment and flood inundation countermeasure plan.

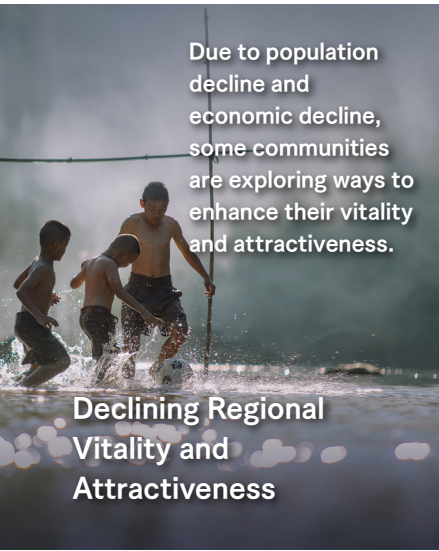


Challenge Capacity for Rapid Recovery in the Event of a Disaster
Adequate Maintenance and Management of Water Infrastructure Facilities

Measures to Bolster the Disaster Resistance and Support the Recovery of Facilities
We develop comprehensive earthquake resistance plans that combine “disaster prevention” to protect important facilities from earthquakes and “disaster mitigation” to reduce damage in the event of a disaster. In addition, we support BCP training based on the experiences gained during recovery efforts in previous large-scale disasters.

Measures to Address Aging and Maintenance of Facilities
We propose efficient aging and maintenance management measures by effectively managing the vast stock of facilities through AI-based facility deterioration prediction, the use of cloud-based ledger management systems, and other tools.

PPP/PFI (Public-Private Partnership)
We build business models from both perspectives: support operations as a client and business operations as an operator.



Challenge Redressing Economic Disparities
Creation of New Value in Regional Development

Water Basin and Small-Scale Water Infrastructure Management
Based on an analysis of the current status and future projections of a project, we propose measures to promote various broad-based partnerships transcending municipal boundaries. We also build small-scale, decentralized service models for the maintenance of water infrastructure in depopulated areas.

Utilization of Water Resources
We propose the development and utilization of resource and energy conversion technologies, such as hydropower generation in water supply facilities, rivers, erosion control, and streams, and the conversion of sewage sludge into fertilizer.

Town-Planning
We help to drive regional revitalization through the establishment, maintenance and operation of disaster prevention centers that utilize unused water energy, and also by creating waterside recreational spaces.

Our Business

We are engaged in a wide range of water-related business that spans the entirety of the water system, focusing in particular on the water supply, sewerage and rivers.

We handle everything from planning and design to project operation through public-private partnerships (PPP/PFI), helping to ensure not only the safety and comfort of people's daily lives but also facilitating a variety of social activities within local communities, the economy, the environment, and industry.

Water Supply

Supporting a safe and stable water supply

We provide support for the supply of water by offering proposals for, and assistance with, the streamlining of business operations, facility development, and maintenance in response to regional challenges, such as water leakage accidents resulting from aging facilities, damage to facilities and water outages due to natural disasters, declines in water demand and water fee revenue due to population decline, and risks to water quality.

Water supply planning, design, construction supervision, maintenance and management; aging facility amelioration measures and earthquake-proofing measures; measures against trace chemical substances; etc.

Rivers

Protecting cities from flooding and connecting people with rivers

We prevent flood damage through the concept of "river basin disaster resilience," which considers rivers and regions as a whole, and we also promote effective water resource-focused water utilization and environmental improvements to protect the natural environment, landscapes, ecosystems, etc.

River development and flood control measures; design and maintenance of erosion control facilities; measures to prevent landslides and floods; dam management and operational support; river environment improvement; etc.

Sewerage

Preserving living environments and protecting cities from flooding

In addition to proper sewage treatment and rapid stormwater drainage, we support the stable operation of sewerage systems by developing facilities that are resistant to earthquakes and other disasters, proposing management improvements, and creating maintenance and management systems.

Sewerage planning, design, construction supervision, maintenance and management; stormwater management and flood prevention; aging facility amelioration measures and earthquake-proofing measures; disaster recovery support; etc.

Environment

Analyzing, evaluating, and improving processes and phenomena

We maintain a healthy water environment through the investigation, analysis and evaluation of water treatment processes for water supply and sewerage systems, the renewal of human waste treatment facilities, the investigation and analysis of water quality in rivers, lakes marshes, and other bodies of water, and waste treatment and recycling.

Examination of water treatment processes; water quality risk assessment; basic waste treatment planning; examination of the reorganization and integration of human waste treatment facilities; etc.

Agricultural

Fostering rural sustainability with ICT

By utilizing digital technologies, such as ICT and IoT, we are working to streamline and improve the management of agricultural irrigation facilities, as well as to prevent and mitigate disasters in rural areas and make effective use of water resources.

Utilization of smart agriculture-related technologies; remote management of agricultural irrigation facilities; etc.

Plant Machinery and Electrical

Proposing water infrastructure system optimization

We propose systems tailored to customers' needs that provide optimal solutions for the plant machinery and electrical equipment upon which water infrastructure facility functionality depends.

Facility investigation, diagnosis, planning, design, and construction management; energy conservation, creation, and renewable energy measures; decarbonization plans; etc.

Structural Design

Designing disaster-resistant, long-lasting structures

We conduct structural analysis, seismic diagnosis, and reinforcement design for water infrastructure facilities as part of working to improve safety and durability in preparation for earthquakes and facility aging.

Structural analysis of aqueducts and elevated water tanks; dynamic nonlinear analysis using soil-structure interaction models; etc.

Overseas

Bring a prosperous and brighter future to the world through water infrastructure

Leveraging the technical expertise and project management capabilities we have cultivated in the water supply and sewerage sector, we seek to improve the safe water supply and sanitation environment in developing countries, as well as to support the construction of sustainable water infrastructure that takes into consideration local social issues and systems.

Completed construction of water infrastructure facilities in Cambodia, Laos, and Vietnam; provided technical cooperation in Ethiopia, Rwanda, Kenya, Pakistan, Vietnam, and Cambodia; etc.

DX Innovation

Implementing DX-driven water infrastructure design

We develop and provide business support systems that meet the needs of each region by combining GIS-based information visualization, cloud-based real-time information sharing, and AI-based prediction and analysis.

Ledger management systems; facility management systems; real-time flood forecasting; dam management support systems; etc.

Architecture

Pursuing harmony between functionality and landscape

By undertaking total coordination of water infrastructure facilities, which includes both their interior and exterior aspects, and by seeking harmony between structure, equipment, and design, we seek to create public facilities that can be used safely long-term.

New construction and renovation design; earthquake-resistant and earthquake-resistant reinforcement design; water-resistance diagnosis; BIM/CIM; ZEB readiness; etc.

Renewable Energy

Creating new value that starts from water

We promote the use of renewable energy by utilizing the untapped potential of water in regions, converting it into valuable energy.

Micro hydroelectric power generation; solar heat, groundwater heat, sewage heat utilization systems; etc.

R&D

Improving the technical capabilities of Nihon Suido Consultants Co., Ltd.

In addition to basic research, we also conduct technological development that combines specialized technologies across fields in an effort to enhance our technological capabilities and create innovation. The results of our research are also put to practical use in our projects.

AI nozzle camera survey technology; water environment health index app; inundation hazard maps; etc.

Reservoirs/Lakes and Marshes

Soil Erosion Control Facilities

Water resource conservation
Lake and marsh water quality conservation measures against chemical substances

Aqueducts

Landslide
Facility risk assessment

Retarding Basins

Utilization of water resources
Micro hydroelectric power generation

Water Purification Plants

Riverfront development
Creating relaxing waterfront spaces

Agricultural Irrigation Facilities

Improving regional attractiveness
Small-scale water infrastructure management

Rapid disaster recovery
Facility disaster resilience strengthening and recovery support measures

River Management Facilities

Flooding
River channel, levee, and floodgate management

Stormwater Pumping Stations

Aging facilities and earthquake-proofing
AI-based surveys
earthquake-resistant design
and structural analysis

Localized flooding due to torrential downpour
Real-time flood forecasting

Stormwater Management Facilities

Realization of a decarbonized society
Operations optimization
ZEB readiness
and turning sewage resources into fertilizer

Sewage Treatment Plants