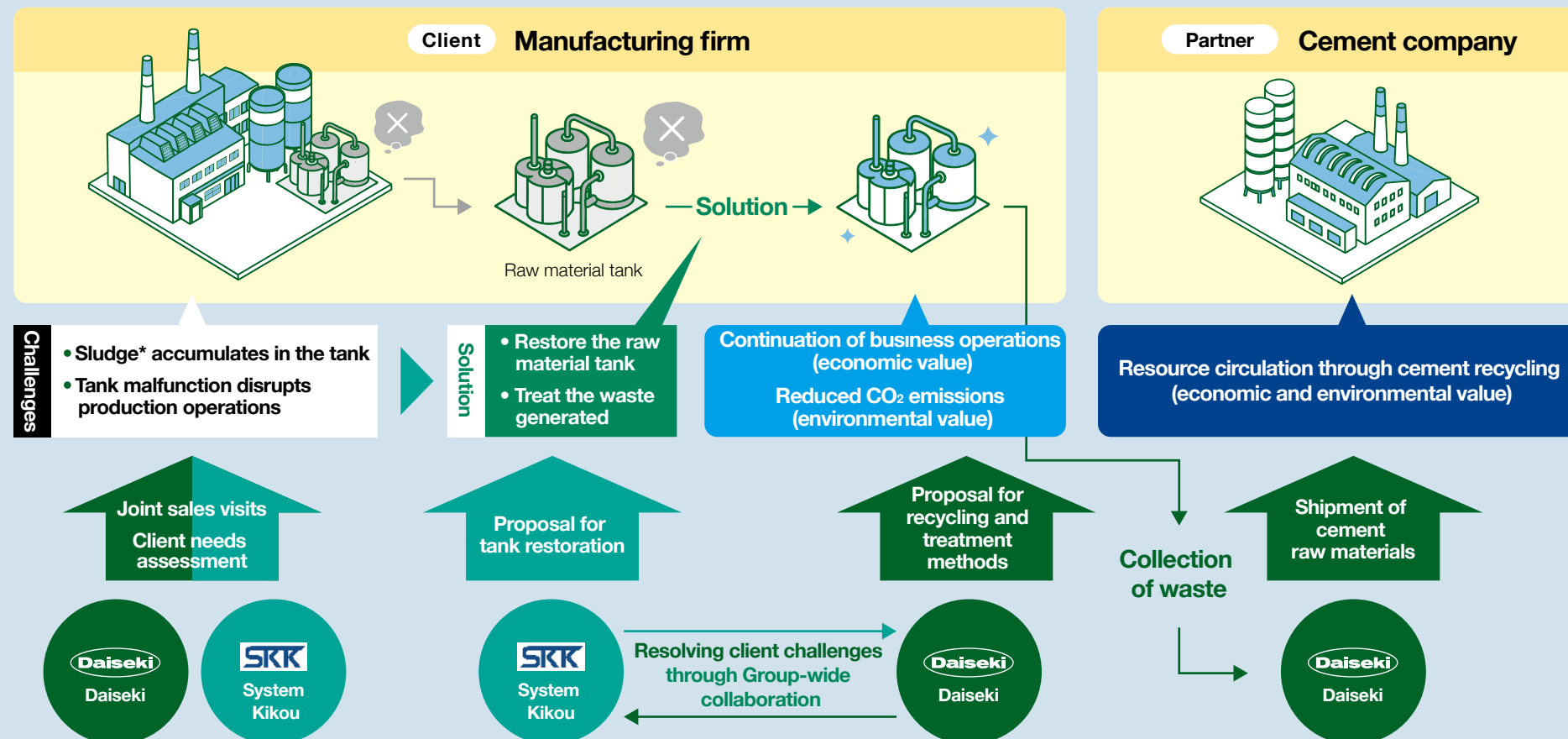
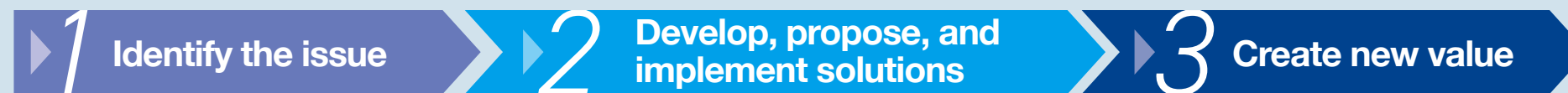


Special Feature

With its evolution into a solution-oriented company in mind, Daiseki is expanding the value it provides to clients by combining the strengths of its Group companies. This feature presents a case in which collaboration with System Kikou resolved a long-standing client challenge and led to the creation of new value.

Daiseki x System Kikou

From Solving Client Challenges to Anticipating Future Needs — Expanding Revenue Through Group-Wide Collaboration



* Sludge: Mud-like waste generated during factory wastewater treatment and various manufacturing processes.

Client Feedback

A long-standing challenge was resolved, ensuring stable plant operations

For several years, we had struggled with the removal of sludge accumulating in our chemical solution tank. Each time sludge built up, we asked cleaning contractors and other service providers to remove it. However, they were unable to keep pace with the accumulation, and the volume of sludge continued to increase. We lived with the constant concern that our manufacturing process might come to a halt at any time. Representatives from Daiseki and System Kikou proposed installing high-pressure jet nozzles at the top of the tank and using water pressure to break up and recover the sludge.

At first, the scale of the proposal was so ambitious that it was difficult to envision how it would work. However, based on a carefully prepared construction plan, they removed the accumulated sludge from the tank precisely according to schedule. We have now implemented measures to prevent further sludge accumulation, enabling us to maintain stable operations, for which we are extremely grateful. Naturally, it would be best for problems of this kind not to occur, but should we encounter another difficult challenge in the future, we would certainly like to consult Daiseki and System Kikou again.

Message from One of the Staff in Charge

Despite the enormous volume of waste recovered from the tank, the Production and Technology Departments established the treatment method and coordinated shipments to the cement company, while the Operations Department arranged collection vehicles, including those of partner companies. Close coordination among the departments enabled the waste to be collected smoothly.



Sales Representative,
Sales Department
Daiseki Kyushu Works

By making frequent fine adjustments to the nozzles of the jetting equipment installed inside the tank, we were able to direct the jets at the sludge effectively. When the cleaning work was completed and I saw how pleased the client was, I felt a tremendous sense of accomplishment.



Construction Representative,
Construction Group,
Business Division
System Kikou Co., Ltd.

1 Identify the issue

Daiseki and System Kikou jointly visited Client A, a manufacturing client, where they identified a problem: production operations were being disrupted by the malfunction of a tank caused by sludge accumulation. Believing that the client's issue could be resolved by combining System Kikou's tank cleaning technology with Daiseki's waste treatment technology, the two companies jointly proposed a solution.

2 Develop, propose, and implement solutions

With System Kikou responsible for recovering the sludge from the chemical solution tank and Daiseki responsible for recycling the recovered sludge, the two companies carried out extensive simulations. As a result, they proposed a solution in which System Kikou applied its COW Method (see the box on the opposite page) to break up and recover the sludge adhering to the inside of the tank using a high-pressure water jet, while Daiseki recycled the recovered waste. Following approximately one and a half years of cleaning work, the chemical solution tank was restored as planned, resolving a long-standing issue for Client A.

3 Create new value

At Client A, two-thirds of the tank had become unusable due to sludge accumulation. Through this cleaning project, however, all of the sludge was removed, allowing the entire tank to be used once again for production operations. Approximately 3,700 tons of waste were recovered. Although this waste would previously have had to be incinerated, Daiseki's treatment technology made it possible to recycle a portion of it as raw material for cement.

By leveraging their respective areas of expertise to address the client's challenge, Daiseki and System Kikou created new value that extends beyond waste treatment to supporting manufacturing. The maintenance of plant equipment is essential to the manufacturing industry, and demand for similar solutions is expected to continue growing. By harnessing the expertise of each Group company through close collaboration, the Daiseki Group will continue contributing to the resolution of client issues.

Achieving safety, shorter lead times, and resource reuse through System Kikou's proprietary advanced technology

The COW Method eliminates the need for personnel to enter the tank and uses air-powered machinery to clean large tanks safely and within a short period. In addition to reducing equipment downtime and improving worker safety, it also reduces environmental impact by enabling the recovered sludge to be reused as a resource.

[Illustration of internal tank cleaning]

