CORE CONCEPT TECHNOLOGIES INC.

News Release

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Core Concept Technologies Inc.
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"TERNO," Yachiyo Engineering's AI-Powered Drawing Management System for Designers, Born from a Desire to "Make Things Easier for My Team"

CCT Publishes Case Study and Interview Detailing the Development Journey with Yachiyo Engineering

Core Concept Technologies Inc. (headquartered in Toshima-ku, Tokyo; Representative Director, President and CEO: Takeshi Kaneko; hereinafter "CCT"), which provides DX Support with a focus on the manufacturing and construction industries, today published a case study highlighting its partnership with Yachiyo Engineering Co., Ltd. (headquartered in Taito-ku, Tokyo; President: Tsutomu Takahashi; hereinafter "Yachiyo Engineering") in developing "TERNO," an AI-powered drawing management system for designers. CCT has also published an interview article introducing the development journey on its owned media platform, "Koto Online." The use of TERNO in design operations that had previously relied on manual work has been shown to improve efficiency by approximately 30% compared with conventional working time. CCT continues to serve as the maintenance provider and sales agency for TERNO and will also support future functional enhancements.

From left: Masashi Abe, Deputy General Manager (Professional Engineer), Structural and Bridge Engineering Department, Domestic Operations Division, Yachiyo Engineering Co., Ltd.; Yohei Miura, Deputy General Manager, Systems Development Department, Enterprise SI Business Division, Core Concept Technologies Inc.
*Titles are current as of August 2026.

■Background

Yachiyo Engineering is one of Japan's leading comprehensive construction consultants, providing consulting for social infrastructure development, including roads, bridges, and tunnels, for over 60 years.
In infrastructure design, an indispensable process known as "checking," in which a third party scrutinizes drawings for errors and inconsistencies, is required. This checking process has mainly relied on manual cross-checking such as redlining on paper drawings, creating a heavy workload for designers. In addition, the involvement of multiple staff members led to a proliferation of drawing files, making management of the latest versions a challenge.
As existing drawing management tools were unable to handle the volume of information and complexity specific to civil engineering drawings, Yachiyo Engineering decided to lead the development itself, and CCT, with a track record of DX Support for the construction industry, joined as a development partner.

■CCT's Support and Its Effects

Leveraging the expertise it has cultivated through DX Support for the construction industry and its proprietary DX development platform "Orizuru," CCT began by conducting in-depth interviews on Yachiyo Engineering's design workflow to jointly articulate the essence of the challenges, before supporting the development of TERNO.

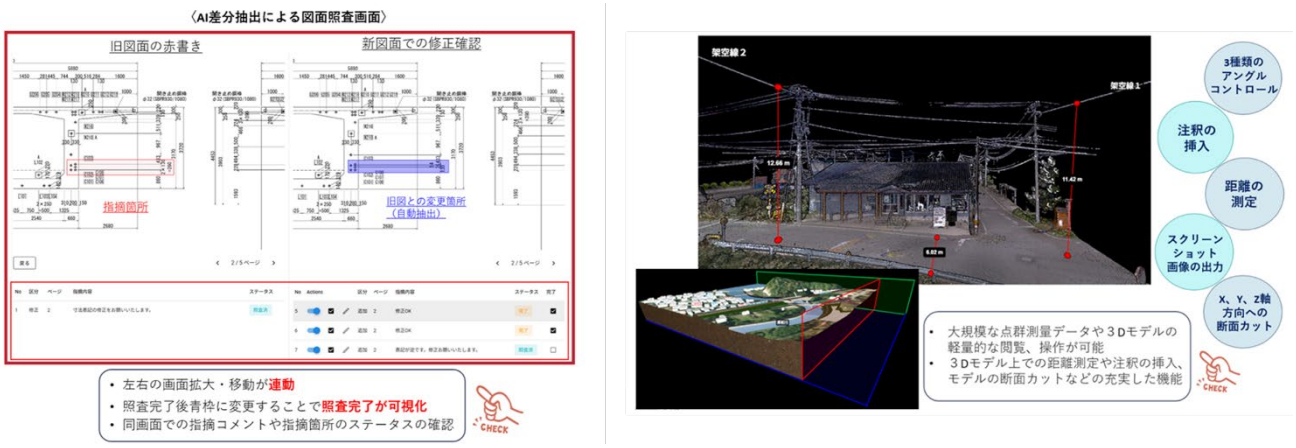
Key Support Provided

- Participated from the stage of organizing challenges in the design workflow, promoting agile development that incorporated on-site feedback, to build a system that fits smoothly into the workflow
- Digitized paper-based redlining and manual cross-checking through the development of the AI Discrepancy Detection function
- Implemented a version management dashboard to eliminate the proliferation of files during the checking process and centrally manage the latest versions
- Achieved high-speed display of large-capacity data at low cost and in a short timeframe using the lightweight 3D Viewer built on CCT's Orizuru DX development platform

Results

- Greatly improved the efficiency of confirming and cross-checking revisions, creating an environment where designers can focus on their core tasks
- Eliminated the effort required to search for the latest versions, resolving the management costs of checking work

- TERNO reduced overall design work hours by approximately 30% compared with previous manual processes (based on Yachiyo Engineering's own research on working time for 20 drawings)



Key features developed with CCT's support: AI Discrepancy Detection function (left); Lightweight 3D Viewer (right)

■Customer Testimonial
Yachiyo Engineering Co., Ltd.
Masashi Abe, Deputy General Manager (Professional Engineer), Structural and Bridge Engineering Department, Domestic Operations Division

"CCT began the project by carefully listening to our business workflow and challenges in detail. Rather than simply carrying out what was requested, they understood our operations as a whole, grasped the underlying issues, and proposed solutions where necessary, which created an environment where it was easier to proceed with joint development.
For development, we adopted an agile approach in which a minimal set of functions was first created and presented, and then we expanded functions incrementally based on on-site feedback. We were able to build consensus internally by presenting deliverables at key points in the plan, resulting in minimal rework and a smooth process through to completion. I feel that we were able to achieve a highly usable system that closely fits the realities of on-site work."

■Future Outlook
Through continuous functional improvements to TERNO, Yachiyo Engineering aims to create an environment where designers can focus on their creative work, and to spread its use across the entire industry involved in design.
Going forward, CCT will continue to support the TERNO business as its maintenance provider and sales agency, while contributing to the medium- to long-term growth of the construction industry and other sectors and to the creation of social value through hands-on DX Support that stays close to clients' businesses and on-site operations.

▼For case study details, please see here:
https://www.cct-inc.co.jp/solution/case/9634/

▼For the interview on our owned media "Koto Online," please see here:
"'I Want to Make Things Easier for My Team' Is the Driving Force Behind DX: The Untold Story of How TERNO Reduced Design Work Time by 30%"
https://www.cct-inc.co.jp/koto-online/archives/825

▼For details on TERNO (Yachiyo Engineering website), please see here:
https://www.yachiyo-eng.co.jp/terno/

■About Yachiyo Engineering Co., Ltd.
As one of Japan's leading general construction consulting firms, Yachiyo Engineering has undertaken public projects commissioned by the Ministry of Land, Infrastructure, Transport and Tourism and other government agencies, providing technical consulting services related to social infrastructure and environmental conservation

for more than 60 years since its founding. In recent years, the company has also expanded its business into the private sector, offering the technical know-how it has cultivated over the years to private companies.

Location: CS Tower, 5-20-8 Asakusabashi, Taito-ku, Tokyo
Representative: Tsutomu Takahashi, President
Date of Foundation: January 29, 1963
URL: https://www.yachiyo-eng.co.jp/

For inquiries about this release

Core Concept Technologies Inc. PR and IR

E-mail: ir@cct-inc.co.jp