ANDPAD Inc.

Demonstration project to develop and introduce construction project management system to improve operational efficiency in the construction industry in Vietnam

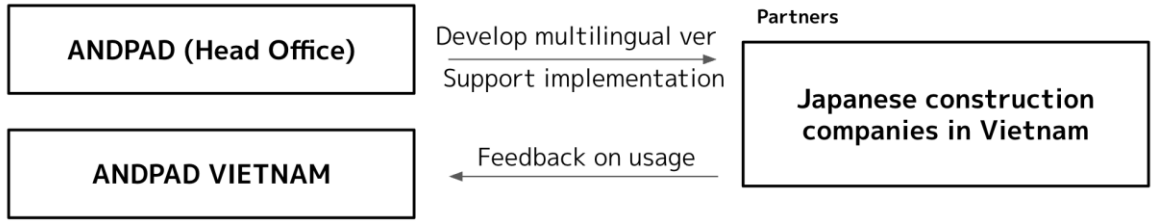
Objective of the project

The objective of this project is to address inefficiencies and reliance on individual in construction site operations in Vietnam by introducing a cloud-based construction management service. In the country, paper-based workflows and ad-hoc communication remain common. By introducing an intuitive and easy-to-use tool, we aim to streamline operations and improve quality. Key focuses includes localizing the product to fit local workflows, building a support structure for implementation, and verifying the effectiveness of the solution through real-world trials while exploring future business potential.

Cooperation with local companies/governments

Local partners:
PENTA-OCEAN CONSTRUCTION VIETNAM and other Japanese-affiliated construction companies

Details of collaboration:
Conducted field trials of the localized version of ANDPAD in Vietnam to evaluate suitability and usability for the local construction environment.



Targeted economic/social issues

Construction is a core industry driving economic growth in Vietnam, supported by ongoing urbanization and infrastructure demand. However, site management practices remain largely paper-based, with fragmented handling of drawings, photos, and reports, resulting in poor traceability and inefficiencies. High labor turnover and reliance on short-term workers often lead to inconsistent task execution and communication gaps. The multi-tiered subcontracting structure also complicates centralized control of quality, progress, and safety. Moreover, there is insufficient institutional support for adopting digital tools such as cloud-based platforms and e-forms, with wide variations in IT literacy and inadequate internal readiness across organizations. Against this backdrop, there is a strong demand for a user-friendly platform that enables integrated management of drawings, photos, and reporting, thereby driving efficiency, transparency, and standardization across the industry.

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Demonstration period

February 2024 – May 2025

Details of demonstration

The project involved localizing and piloting a cloud-based construction management service at selected construction sites in Vietnam, aiming to improve site productivity and quality control. Key functions tested included digital inspection workflows using drawings, photo capture with on-screen annotations, automated form generation, and report creation. These functions aimed to replace conventional paper-based operations. Trials were conducted in partnership with multiple construction companies and involved progressive refinement of UI, language settings, and document formats based on feedback from real users. A feedback loop was established to feed site input directly into product updates, improving local adaptability. Simultaneously, a local support structure was initiated through the recruitment and training of on-site support staff, laying the foundation for a sustainable customer success model.

Project outcome/ future plans

The pilot confirmed that digitalizing construction site operations improved productivity. Centralized management of drawings, photos, and forms, combined with faster sharing, led to a 30–50% reduction in on-site admin tasks. The photo and annotation (digital blackboard) function replaced handwritten paper records, and the form generation feature eliminated manual spreadsheet work. Improvements to language, UI, and layout further enhanced local usability. A structured feedback system was created to support ongoing product enhancements. Additionally, local team members were trained to support implementation, enabling partially self-sufficient operations. Moving forward, the company plans to expand deployment in major northern and southern cities, explore similar market opportunities in neighboring countries, and apply insights from this project to improve the product for use in Japan—establishing a cyclical and interactive growth model.

Efficiently organize on-site photos and documents

Paperless sharing of drawings and reducing efforts to carry physical documents