

Cost-Effective Process Optimization

for reducing manual labor and improving inventory management

NEC's consultancy service



Challenge

Pioneer Manufacturing (Thailand) Co., Ltd. (PTM), a major manufacturing site within the Pioneer Group, faced a dilemma. Their core legacy system, implemented in 1994, was aging and inefficient, requiring manual processes for tasks like receiving deliveries and checking invoices. Upgrading it was deemed too costly, leaving them with the challenge of modernizing operations without breaking the bank.



Solution

Instead of a costly core system overhaul, NEC's consultants, familiar with PTM's specific needs and budget constraints, proposed a two-pronged solution:

- **Low-Code Development:** Leverage the power of low-code development tools to build peripheral systems that could address inefficiencies without touching the core system. This allowed PTM to achieve significant improvements without the hefty price tag of a full-scale upgrade.
- **Agile Consulting and Skills Transfer:** NEC's consultants didn't just provide technology – they offered their expertise in process optimization, change management, and user training. This ensured smooth implementation and user buy-in, maximizing the benefits of the new systems.
- **The key initiatives were:**
 - Automated Receiving System** to eliminate manual checking, reduce processing time, and optimize warehouse space management.
- **AI-powered Invoice Verification System** to reduce manual efforts and error while speeding up the invoicing process.



Benefits

- **Optimized Talent Allocation and Increased Efficiency:** The workforce dedicated to receiving was halved, while the invoice verification system reduced processing time from 500 hours per month to 100 hours – a significant increase in efficiency and productivity.
- **Improved Inventory Management:** Real-time inventory updates minimized stock discrepancies and optimized warehouse space, eliminating the need for outsourced storage.
- **Empowered In-house Team:** The team was able to manage and maintain the new systems independently, ensuring long-term success and self-sufficiency.

Quote

“*NEC's proactive updates on emerging technologies have been instrumental in keeping us ahead of the curve. We look forward to NEC's continued engagement, including proactive suggestions and tailored recommendations as we keep evolving our company.*”

Eitaro Endo
General Manager
Administration & Accounting division
Pioneer Manufacturing (Thailand) Co., Ltd.

More info

https://th.nec.com/en_TH/solution/business/index.html



A drive towards greater sustainability

01

Man-automation collaboration

Improved efficiency through automation frees up human resources for higher-value tasks and reduces reliance on outsourced storage, leading to a more sustainable use of resources.

02

Less waste, more green

Both the automated receiving and invoice verification systems eliminated manual paperwork, significantly decreasing paper consumption and contributing to a greener operation.