TACHYONIX

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Relationship and experience: The energy that impacts the largest natural gas-fired thermoelectric industrial complex in Latin America is the one that comes from people.

GNA
GÁS NATURAL AÇU

Background

GNA is a private energy generation operating company. With a port terminal and two power plants that, combined, represent 3 gigawatts of installed capacity at Porto do Açu (RJ) (enough to supply 14 million households), it is the largest natural gas-fired thermoelectric industrial complex in Latin America. GNA is a joint venture between Prumo Logística, BP, Siemens Energy, Siemens AG, and SPIC Brasil. The natural gas supply is delivered through a dedicated regasification terminal that receives liquefied natural gas (LNG), performs regasification, and ensures a continuous supply to GNA's thermoelectric plants. Power generation occurs in a combined-cycle system—a technology that integrates gas and steam turbines, increasing efficiency and strengthening the reliability of the Brazilian electrical system.

Challenge

In a complex, highly strategic operational environment such as GNA's, internal processes must be efficient to sustain decision-making agility and the pace of business. In this context, the company identified an opportunity to enhance the user experience of critical corporate systems, especially SAP, by aligning technology, mobility, and executive routines.

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The challenge, therefore, was to modernize the process and make it mobile-accessible without relying on traditional SAP development. The company sought an alternative that would simplify screens, make them more user-friendly, and bring the entire approval journey to mobile devices, ensuring agility, security, and ERP integration, whether decision-makers were on the move or at their workstations.

Solution

Tachyonix developed a customized platform for GNA that modernized the approval interface for purchase orders and contracts in SAP. The solution enabled migration of the original screens—which were not intuitive and were limited to desktop access—to a responsive environment accessible on smartphones and tablets. As a result, directors and managers could perform approvals anywhere, at any time, and on any device, ensuring fluency and agility in decision-making.

The new interface simplified the user experience. Processes that once required multiple lengthy steps and depended exclusively on physical access to the company became faster and more accessible. This adaptation for the end user brought not only convenience, but also a real change in system usability, transforming something bureaucratic into something natural in the corporate day-to-day.

Tachyonix's solution also maintained integration with the existing SAP environment without requiring changes to GNA's infrastructure. This preserved the company's previous investments while adding a layer of innovation and efficiency.

This context became evident at a critical point in the operation: the approval of purchase orders and contracts. The original SAP screens, the well-known SAP GUI, were not intuitive and required desktop-only access. This became an obstacle for directors who spent much of their time in meetings and traveling. The activity was perceived as bureaucratic, slow, and disconnected from the executive routine.

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Process

The beginning of the project required careful technical alignment. It was necessary to match SAP requirements with the specific characteristics of GNA's environment, including internal security rules, access controls, and technology governance. This initial phase was essential to ensure that the solution could be integrated without compromising the company's standards and practices.

Eduardo Gomes, IT Coordinator at GNA, describes the implementation process:
"From the outset, the agreement was to conduct a proof of concept. If it worked as expected, then there would be expansion to new functionalities. Accordingly, Tachyonix first focused on configuring connectivity, handling SAP deployment procedures, and validating access.

"With this foundation structured and approved, we moved on to the detailed design of the solution and then to development. Testing followed, a phase naturally marked by continuous adjustments. As the executive team's agenda is quite demanding, the validation cycles required discipline: testing, identifying points for correction, adjusting, deploying again, testing again. This continued until ideal performance was achieved.

"Throughout the entire process, Tachyonix's differentiator became clear: close collaboration. There was direct access to the technical team, including developers and even the CEO and CFO. Constantly available communication strengthened the partnership, maintained transparency, and helped overcome each challenge with alignment and trust.

"In the end, the partnership with Tachyonix achieved the result GNA expected: a mature, stable, responsive solution that was truly useful for those who needed it most."

Resultado

GNA considered the results to be very satisfactory. A particularly emblematic example was the change in the CFO's perception. Previously, whenever he had to access SAP approval screens, he noted usability and user experience issues. With the new solution, he became a leading sponsor and advocate for the change, underscoring the importance of modernizing internal processes.

With the new mobile solution implemented, the transformation was immediate: He could now perform approvals directly from his mobile phone with speed and fluidity. What had once been a source of frustration became simple and even enjoyable because it worked and delivered results. This improvement in user experience was seen internally as a key differentiator of the project.

> "The initial success paved the way for a new phase: GNA is already moving forward with the expansion of the contract to extend the use of the technology to other business demands. The understanding that remains is clear: with Tachyonix, the company is able to modernize, improve the day-to-day experience of those who use the system, and rely on a partner ready to make solutions viable, even when they are not well-known market standards."
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> Eduardo Gomes
> IT Coordinator at GNA

The story is still unfolding. Every change process involves challenges and a degree of discomfort, whether it's for those who develop the solution or those who must change long-established habits. But reaching the end of a cycle with a product that people want to use demonstrates the worthiness of the effort.