

PBM Marketplace Modernization and Dual-Run Migration

Truveris | Stabilize legacy, rebuild the platform, and automate RFP-to-contract workflows

Who it was for: Truveris, employers, and pharmacy benefit managers (PBMs)

Nucleus's role: Technical assessment, CTO leadership, platform modernization, and phased migration

Overview

Nucleus supported Truveris in modernizing its PBM marketplace while maintaining continuity across existing operations. The engagement combined a current-state audit, target architecture, and phased delivery plan with CTO leadership to stabilize the legacy environment and guide development of a new platform.

The work addressed both the technology foundation and the workflows used to move requests for proposals (RFPs) through scoring and contracting. A dual-run migration approach allowed legacy and new capabilities to operate alongside one another, with an SSO bridge supporting access across both environments as features were progressively transitioned.

The Challenge

Truveris faced a combination of legacy technology constraints and manual processes that limited scale and slowed RFP cycles. Technical debt contributed to reliability issues and reduced delivery velocity, making it harder to improve the platform while supporting ongoing business needs.

The business also required continuity throughout a 24-month modernization roadmap. Rebuilding the platform therefore required more than selecting a new technology stack. The delivery approach had to address immediate operational stability while providing a practical path toward a more maintainable platform and more automated marketplace workflows.

For employers and PBMs using the marketplace, the transition needed to preserve access to the capabilities they relied on. This made phased migration an important part of the modernization strategy, allowing new functionality to be introduced iteratively rather than requiring a single platform-wide switch.

What Nucleus Delivered

Nucleus began with a current-state audit to assess the existing environment, then developed a target architecture and phased delivery plan. These activities established a direction for the rebuild while connecting modernization priorities to the operational needs of the business.

CTO leadership supported the parallel responsibilities of stabilizing current operations and rebuilding the platform. This brought technical direction to the turnaround and provided oversight for the transition from legacy capabilities to the new environment.

The rebuilt platform used React and Python on AWS. A new workflow engine connected RFP processing, scoring, and contracting, addressing manual handoffs across the marketplace process. A supporting data platform incorporated historical contract information to provide additional context for decision support.

Nucleus also implemented a dual-run migration approach with an SSO bridge. This supported a consistent user experience across legacy and new modules and allowed features to move to the rebuilt platform through iterative cutover.

How the Workflow Operated

Platform foundation. React and Python on AWS formed the foundation of the new platform. The rebuild was coordinated with ongoing stabilization of the existing environment so that modernization could progress alongside operational needs.

Workflow automation. The workflow engine connected RFP activity with scoring and contracting. Bringing these stages into a more structured process reduced reliance on manual coordination and supported a clearer progression through marketplace activities.

Historical data. The data platform incorporated historical contract data to support decision-making. This added context to the marketplace workflow and helped make existing information more useful during evaluation and matching activities.

Phased transition. The legacy and new platforms ran in parallel while an SSO bridge supported access across their modules. Iterative feature cutover enabled the transition to proceed in stages within the broader modernization roadmap.

Reported Impact

The supplied project account reports reduced analyst effort, faster matching cycles, and greater confidence and transparency. These outcomes reflect the combined contribution of workflow automation, improved access to historical contract information, and a structured approach to platform modernization.

The impact is described qualitatively; no numerical performance measures or quantified time savings were provided. The 24-month period describes the modernization roadmap rather than a verified completion date for the full program.

Capabilities Demonstrated

The engagement demonstrates Nucleus's ability to combine technology turnaround, platform modernization, and workflow automation while supporting business continuity. CTO leadership, a phased delivery plan, and SSO-based cutover connected architectural change with the practical requirements of an operating marketplace.

For Truveris, the approach provided a path to rebuild the platform while improving the RFP-to-contract process and maintaining access across legacy and new capabilities during the transition.