Building confidence with mainframe modernization: a fresh approach

AI-Accelerated Mainframe Modernization from Mechanical Orchard and Thoughtworks

AI-Accelerated Mainframe Modernization with Mechanical Orchard tackles the critical challenges of legacy system modernization: technical complexity, business disruption, and historically low success rates.

Traditional approaches prioritize code conversion over understanding system behavior, resulting in extended integration and testing cycles delivering a new codebase that is difficult to maintain and of questionable quality.

Thoughtworks, in partnership with Mechanical Orchard, offers an alternative solution. It's a behavior-driven, AI-accelerated modernization service that combines system comprehension, transformation, and incremental delivery.

Available through a flexible engagement model, this offering uses Thoughtworks' CodeConcise Legacy Assistant for rapid system understanding and Mechanical Orchard's platform to accelerate transformation with AI. The offering's focus on creating a functional replica in modern code minimizes disruption, and ensures deterministic, auditable outcomes.

Our holistic solution encompasses discovery, modernization, management of the new system, continuous enhancements, and the critical aspects of change management and organizational design necessary to ensure a smooth transition and long-term success.

Practical Modernization, Proven in Production

- **Business and human-centered modernization.** We treat modernization as both a technical and organizational challenge
- **Little to no disruption.** We rebuild systems in modern, idiomatic code using a patented process to generate code with AI that rewrites functionally equivalent, modern code. This approach preserves current behavior and minimizes disruption, without breaking what already works.
- **Incremental, low-risk delivery.** We use a thin-slice approach to modernize workloads in controlled phases, proving progress with every release. This incremental path keeps teams aligned and lets business value emerge early and often.

Cutting-Edge Innovation + Trusted Brands

Thoughtworks, well known for its engineering best practices, brings proven modernization frameworks and agile heritage to the challenge of mainframe modernization.

Combined with Mechanical Orchard's novel approach, which captures real-time data flows and rewrites an exact replica in modern, test-driven code at incredibly fast speeds, you can enjoy the reassurance of a global technology consultancy and the latest AI technologies.

An offer will be available soon in the Microsoft Azure Marketplace.