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MiProData Modernization Project

Enterprise adoption across all state procurement areas

Award:	National Association of State Chief Information Officers (NASCIO) State IT Recognition Awards
Category:	Operational Efficiency
State:	Michigan
Project Start:	May 2019
Project End:	June 2026
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EXECUTIVE SUMMARY

MiProData is a modern, multi-agency procurement platform that replaced Michigan’s outdated Access database and now supports all state procurement areas with automation, data visibility, and machine learning. In Michigan, many systems begin with Mi, here it is pronounced ‘my-pro-data’. Built on configurable architecture, it adapts to each agency’s unique workflows while operating on shared infrastructure, making it suitable not only for Michigan but also for other states. The platform automates key processes, including the State Administrative Board workflow, contract monitoring across more than 1,200 contracts, and signature collection, while providing robust analytics through 15+ Power BI dashboards. A machine learning model trained on over 10,000 historical projects now predicts project durations with up to 93% accuracy for amendments.

MiProData’s statewide rollout began in 2025 following successful deployment within the Michigan Department of Technology, Management & Budget (DTMB) Central Procurement Services (CPS). Supported by strong change management, multi-agency collaboration, and integration with four enterprise systems, the system continues to expand with new modules for vendor performance and award protests.

The impact has been substantial. More than \$336,000 in annual administrative savings, over 18,600 automated compliance communications driving an 83% monitoring rate, reduced approval cycle times, and improved customer satisfaction based on nearly 4,000 survey responses. Today, MiProData serves 143 users across nine agencies, manages over 2,500 contracts, and provides the scalable foundation for continued enterprise growth and potential adoption by other states.

IDEA

What problems or opportunities does the project address?

In May 2023, a new system called MiProData replaced an aging Microsoft Access database with a modern, secure, multi-tenant platform built on .NET/C#, Angular, and SQL Server. MiProData is now being deployed to all state procurement areas. It automates Michigan’s unique State Administrative Board approval process, generates contract documents with 75% less manual effort, monitors vendor compliance across 1,230 contracts through 18,600+ automated Contract Monitoring Report (CMR) communications, manages \$14.5 million in cooperative purchasing revenue, and uses a machine learning algorithm trained on over 10,000 historical projects to predict project durations with 93% accuracy on contract amendments.



MiProData

Department of Technology, Management, and Budget



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Why does it matter?

MiProData was designed from day one to serve multiple departments across state government, each with different procurement processes, approval workflows, and reporting needs. This multi-department design required a configurable architecture where features can be toggled on or off per tenant, adapting to each agency's unique requirements rather than imposing a one-size-fits-all approach. The resulting flexibility is what also makes the platform viable for other states: Michigan-specific features like Administrative Board automation can be switched off while universal CLM capabilities remain active.

Describe what makes the project innovative or distinct from similar initiatives.

In October 2024, CPS developed a machine learning algorithm to predict project durations, replacing the previous method of manual estimation based on buyer experience and intuition. The model was trained on over 10,000 historical projects spanning 2017 to 2025 and achieves 85% overall accuracy, rising to 93% accuracy for contract amendments, which constitute approximately 90% of all CPS projects. After initial validation as an external report, the algorithm was integrated directly into MiProData and deployed as a live field visible to buyers on April 1, 2026.

The State Administrative Board approval process is a legal requirement unique to Michigan, involving four levels of approval from procurement through the Board itself. MiProData fully automates this workflow. Similarly, the Joint Evaluation Committee Code of Conduct process, which previously required approximately one hour of buyer time per project to manually collect signatures, is now fully automated through MiProData.

Because the platform aggregates procurement data from disparate sources into a single structured repository, CPS has built more than 15 Power BI dashboards that capture operational details. These dashboards provide executive-level views of state procurement activity and workload, operational views of project pipelines and compliance rates for managers, and granular detail views for individual contract performance and project timelines.

What makes it universal?

In order to expand the benefits of the former database to other agencies, MiProData required a multi-tenant architecture, configurable feature toggles, and a standard technology stack (.NET/C#, Angular, SQL Server). The resulting flexibility has made the platform viable well beyond its original scope. Its \$8 million development investment has produced a licensable system, and several states have informally expressed interest because MiProData complements rather than replaces existing systems. It sits alongside a state's ERP, e-procurement, and IT governance tools, providing a procurement data visibility and workflow automation layer that most states currently lack.

The configurability is practical, not theoretical. When the Michigan Department of Transportation (MDOT) joined MiProData, their procurement processes differed from CPS in several areas. Rather than requiring MDOT to change how they work, the system's feature toggles allowed CPS to configure the platform to match MDOT's workflows while keeping them on the same shared infrastructure. This same approach has been repeated across all nine agency deployments, each with its own configuration, and is the same mechanism that would allow another state to adopt the platform with Michigan-specific features (like Ad Board automation) simply switched off.

The problem MiProData solves is universal: procurement data scattered across spreadsheets, word documents, shared drives, and email threads, with no enterprise-wide visibility into compliance, workload, or performance. Michigan's journey offers a practical progression that any state can follow regardless of the tools they choose.

- Phase 1: Centralize your data: Get all procurement data into one place.
- Phase 2: Understand your data: Once centralized, start measuring what you could not measure before.
- Phase 3: Automate the low-value work: Identify the processes where staff spend the most time on administrative tasks with the least strategic value.
- Phase 4: Scale across the enterprise: Extend standardized processes and data visibility to other agencies or departments, adapting to their specific workflows while maintaining a shared data foundation.

- Phase 5: Leverage your data for insights: Clean, centralized, historical data opens doors that scattered records never could.

IMPLEMENTATION

What was the roadmap and how does this project fit into an enterprise view?

CPS and Agency Services built a strong team and a great working relationship during the initial implementation of MiProData. The plan was to develop the system, deploy to CPS, make any initial updates and enhancements to ensure the system worked well, and then in May 2025 the rollout to agency procurement areas began. Initially, each agency was deployed to one at a time, with full user acceptance testing. The last single agency deployment is ongoing as of early May 2026. The remaining agencies will be onboarded together, without additional user acceptance testing.

While deployment was beginning, DTMB started working simultaneously on a new module from the system to deal with vendor performance issues and award protests. This functionality is expected to be added to MiProData in late May 2026.

During software deployment, the human factor is often overlooked. Michigan began with a focus on organizational readiness rather than technical specifications. Key requirements were management commitment to data-driven procurement at both the central and agency levels, a dedicated change management team willing to work with each agency through onboarding and adoption, willingness to standardize core processes while allowing configurability for agency-specific workflows, and defined integration points with existing ERP and financial systems.

Structurally, MiProData itself connects to four enterprise systems through its DataMart integration: SIGMA (Michigan's ERP, providing contract data, spend data, commodity codes, and contract releases), Keylight (IT security approvals), Clarity (IT project management), and the state's payment processing system for MiDEAL.

CPS and Agency Services are currently working to gather requirements and scope, and plan for the next several expansions of MiProData over the next three years.

Who was involved?

Michigan's platform was built by an 11-person Agency Services Development Team. This included 7 developers, 1 technical lead, 1 business analyst, 1 project manager, plus business owners and subject matter experts. Additionally, CPS has a dedicated group that works with the development team.

How did you do it?

MiProData was built using widely available technologies (.NET/C#, Angular, SQL Server) hosted in the State of Michigan's cloud environment. This deliberate choice of standard technologies ensures the platform is maintainable, scalable, and replicable without proprietary dependencies.

IMPACT

What did the project make better?

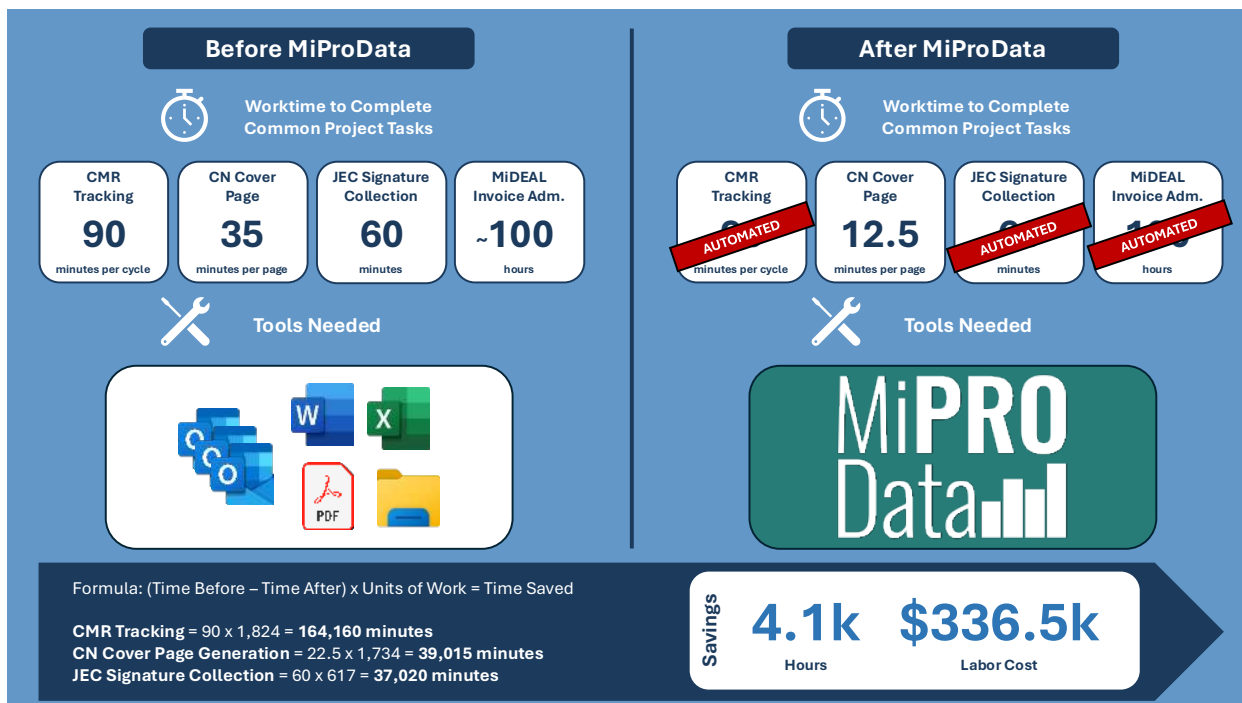
With machine learning predicting project timelines, a vendor scorecard integrating performance data from multiple systems, more than 15 Power BI dashboards providing micro-to-macro visibility, and a protest management and issue resolution portal in active development, MiProData is not a static tool. It is an evolving platform that grows with Michigan's procurement needs. Its multi-tenant, configurable architecture and standard technology stack make it ready for adoption by other states today, and Michigan's phased implementation framework and change management approach provide the roadmap to get there.

MiProData has generated administrative savings through process automation, calculated using the average cost of a CPS employee for FY26 (\$81.97/hour, inclusive of base pay and benefits) and documented before/after

measurements. The following figures reflect actual measured activity across CPS and agency procurement teams currently using the system.

Total measured savings: 4,105 hours x \$81.97 = \$336,490 per year (CPS: \$224,925 + Agency: \$111,565). This is a conservative baseline: several agencies have been active for less than a full year, and 15 additional agencies are scheduled to join by August 2026.

Automated post-project surveys (3,893 sent since launch, 49% response rate) show improving satisfaction. Contrary to some long-held assumptions, analysis of survey data revealed that communication frequency, not project duration, is the primary driver of satisfaction, a finding the CPO used to mandate improved customer communication practices.



How do you know?

Before MiProData, contract monitoring compliance was unmeasurable at the enterprise level. CMR records existed with no centralized tracking system. Buyers spent an estimated 3 to 5 hours per week manually identifying program managers, emailing them word documents, following up on submissions, and filing completed reports. The system monitors 1,230 contracts (840 CPS and 390 agency), automatically sending notifications at required intervals based on risk level. Since launch, it has sent over 18,600 automated CMR communications, achieving an 83% compliance rate where none was previously measurable.

Additional savings include the Administrative Board automation, which has processed 708 forms through four levels of digital approval since launch, reducing the average cycle time from 21.4 workdays in 2024 to 15.5 in early 2026.



MiProData demonstrates what is possible when a procurement organization builds exactly the system it needs, deploys it across an enterprise, and continuously improves it with the people who use it every day. In two years, Michigan has gone from a single-office Access database to an enterprise platform serving 143 users across 9 agencies, managing 2,531 contracts, and saving over \$336,000 annually in documented administrative effort, with those numbers growing as additional agencies come online.

What now?

The next steps for MiProData focus on completing the remaining agency onboardings, finalizing and deploying the new vendor performance and award protest modules, and continuing to refine system configurations to support each agency's unique workflows. CPS and Agency Services will also gather requirements for the next phase of enhancements planned over the coming three years, strengthen integrations with enterprise systems, and expand change-management support to ensure smooth adoption. As additional agencies come online, the team will monitor performance, measure impact, and prepare the platform for potential interstate partnerships.