

## SUCCESS STORY

# MoMA – PMJVK Digital Governance Transformation

Transforming PMJVK into an Integrated Digital Governance Platform

Company Name  
**Ministry of Minority Affairs,  
Government of India (MoMA)**

Industry  
**Government / Public Sector**

Location  
**India**

Impact  
**From fragmented project and financial processes  
to connected, evidence-based governance**

Application  
**PMJVK Digital Governance Platform**

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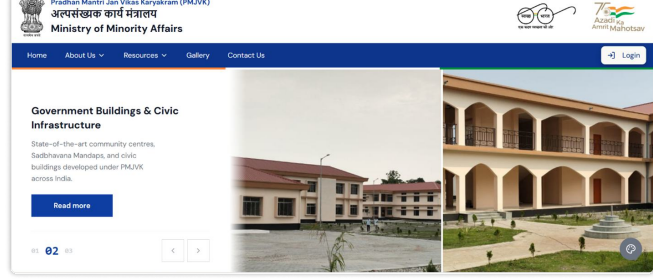
## A CASE STUDY

Turning public-sector programme data into transparent, evidence-based governance

### Background

The Pradhan Mantri Jan Vikas Karyakram (PMJVK), a Centrally Sponsored Scheme of the Ministry of Minority Affairs, Government of India, supports the development of community infrastructure across sectors including education, healthcare, skill development, sports, drinking water and sanitation.

With projects spanning multiple States, implementing agencies and administrative levels, the scheme required a more connected approach to project execution, financial management and ground-level monitoring. The existing PMJVK Portal primarily supported proposal creation and approval, while financial transactions subsequently moved through State IFMIS systems and PFMS.



### Problem Statement

PMJVK's existing operating model created a gap between project approval and financial oversight. States could execute multiple approved projects and raise multiple bills through their respective IFMIS environments, but these transactions were not sufficiently connected to the individual PMJVK projects.

This made it difficult for the Central Government to determine which project a bill related to, whether the claimed amount aligned with the sanctioned project value, and how cumulative expenditure compared with the approved project scope.

The requirement was therefore to establish a connected project-to-bill-to-payment lifecycle and strengthen visibility into project execution and financial oversight.

### Solutions

Cubastion designed and delivered an integrated digital governance platform that brought project, financial and field-level information together around a common project context.

#### Connected Project Governance

- Established a unified project lifecycle connecting proposals, projects, financial transactions, utilization, physical progress and field evidence.
- Reduced dependency on fragmented records and manual reconciliation.

#### Integrated Financial Governance

- Introduced Voucher & SPARSH capabilities to connect financial transactions with PMJVK projects.
- Enabled bill-to-project mapping, review and monitoring against Mother Sanction.
- Strengthened the financial lifecycle across sanction, release, voucher, utilization and reconciliation.

#### Evidence-Based Field Monitoring with Nigrani

- Extended governance to project sites through a geo-enabled mobile application.
- Enabled field officers to capture photographs, location, progress and observations.
- Supported location validation and geo-fencing for evidence-based reporting.

#### GIS-Powered Programme Intelligence

- Connected field information with a centralized GIS monitoring environment.
- Enabled drill-down from India → State → District → Project.
- Unified project, financial, progress and photographic information

#### Modernization Without Losing the Legacy Data Foundation

- Migrated the legacy SQL environment to PostgreSQL.
- Used a controlled conversion approach while retaining required historical information.

#### Scalable Engineering Foundation

- Implemented a microservices oriented architecture.
- Established supporting infrastructure, CI/CD, security, testing and deployment capabilities.
- Created a foundation for continued platform evolution.

## Challenges Faced

### Rebuilding Without a Reliable Baseline

Incomplete requirements & knowledge gaps made it difficult to establish the existing system baseline. Cubastion took end-to-end ownership, working closely with MoMA/PMU to validate workflows & shape the solution.

### Migrating a Complex Legacy Data Landscape

The transformation involved a large volume of legacy data, including historical information that needed to be retained. Cubastion established a controlled migration approach to preserve required data within the modernized platform.

### Integrating a Fragmented Financial Ecosystem

PMJVK needed to integrate with multiple State IFMIS environments and PFMS, creating significant integration complexity. Cubastion designed the architecture to connect project-level financial processing across this ecosystem.

### Making Ground-Level Progress Verifiable

Project progress needed to be validated against actual site conditions & supporting evidence, including in low-connectivity areas. Cubastion enabled field-based monitoring with geo-tagging, geo-fencing, photos & offline capture.

### Managing Evolving Requirements

Changing requirements led to rework & extended development beyond the initial timeline. Cubastion adapted through flexible prioritization & parallel workstreams to maintain delivery momentum.

### Delivering Despite Compounding Complexity

Multiple dependencies across business, technology, migration & infrastructure increased delivery risk. Cubastion coordinated these workstreams & consolidated the planned two releases into one integrated release.

## Key Areas of Expertise Demonstrated

### Government Digital Transformation

Digital transformation of large-scale government programme and governance processes

### Project and Financial Management Transformation

Integration of project, financial and fund-utilization processes.

### Enterprise Process and System Integration

Integration across PMJVK, State IFMIS, PFMS and external systems.

### GIS and Location Intelligence

GIS-based project visualization, geo-tagging and location-based monitoring.

### Mobile & Field Application Development

Mobile solutions for field-level project monitoring and data capture.

### Microservices and Digital Platform Architecture

Scalable, modular architecture for enterprise digital platforms.

### Legacy Data Migration & Modernization

Migration and modernization of legacy data environments while retaining historical information.

### RBAC, Security & Access Governance

Role-based access and multi-level governance across diverse user groups.

### Analytics & Programme Intelligence

Dashboards & analytics for consolidated programme and project visibility.

### End-to-End Application Engineering and Delivery

Application development, migration, testing, security, deployment and go-live.

## Business Outcomes

### Greater Transparency in Public Spending

**50%+** Improvement in visibility of project-level financial status, giving MoMA clearer oversight of expenditure and utilization.

### Accountability from Sanction to Ground Execution

**4** Governance levels - Ministry, State, District and Field strengthened accountability throughout the project lifecycle.

### Faster, More Informed Decisions

**35-45%** Reduced information-gathering and review effort, enabling faster access to programme information.

### Earlier Identification of At-Risk Projects

**100%** Increase in field-level project monitoring, with projects showing no update for three months identifiable for follow-up.

### Reduced Risk of Financial Misuse

**Stronger Controls** Stronger financial traceability supports better control over misallocation, unsupported expenditure & spending outside approved project objectives.

### Stronger Financial Control & Operational Efficiency

**40-50%** Reduced manual reconciliation effort, allowing PMU teams to spend more time on verification and programme oversight.

### Greater Confidence in Reported Progress

**95%+** Submitted progress updates are now location-verified, compared with self-reported progress previously.

### ABOUT CUBASTION

Cubastion helps global companies run their mission critical systems and operations while modernizing IT, optimizing data architectures, and ensuring security and scalability across platforms. Some of the world's largest companies and Indian Public Sector Undertakings trust Cubastion to deploy services to drive new levels of performance, competitiveness, and customer experience.

Over 18 years, Cubastion has built solutions that impact over 500+ million people around the globe working in different demographics across different cultures. Learn more about Cubastion at [www.cubastion.com](http://www.cubastion.com)

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