



PMGSY Executive Dashboard

Pradhan Mantri Gram Sadak Yojana - Comprehensive Performance Analysis

Strategic Report | Generated: July 27, 2025



Executive Summary

185,420

TOTAL PROJECTS

73.2%

COMPLETION RATE

₹1,287.5

INVESTMENT (₹CR)

45,678.3

ROADS BUILT (KM)



Key Performance Insights

The PMGSY initiative demonstrates significant infrastructure development across rural India, with strategic investments spanning multiple phases. Our analysis reveals performance variations across states and schemes, highlighting opportunities for optimization and best practice implementation.



Data Quality & Overview

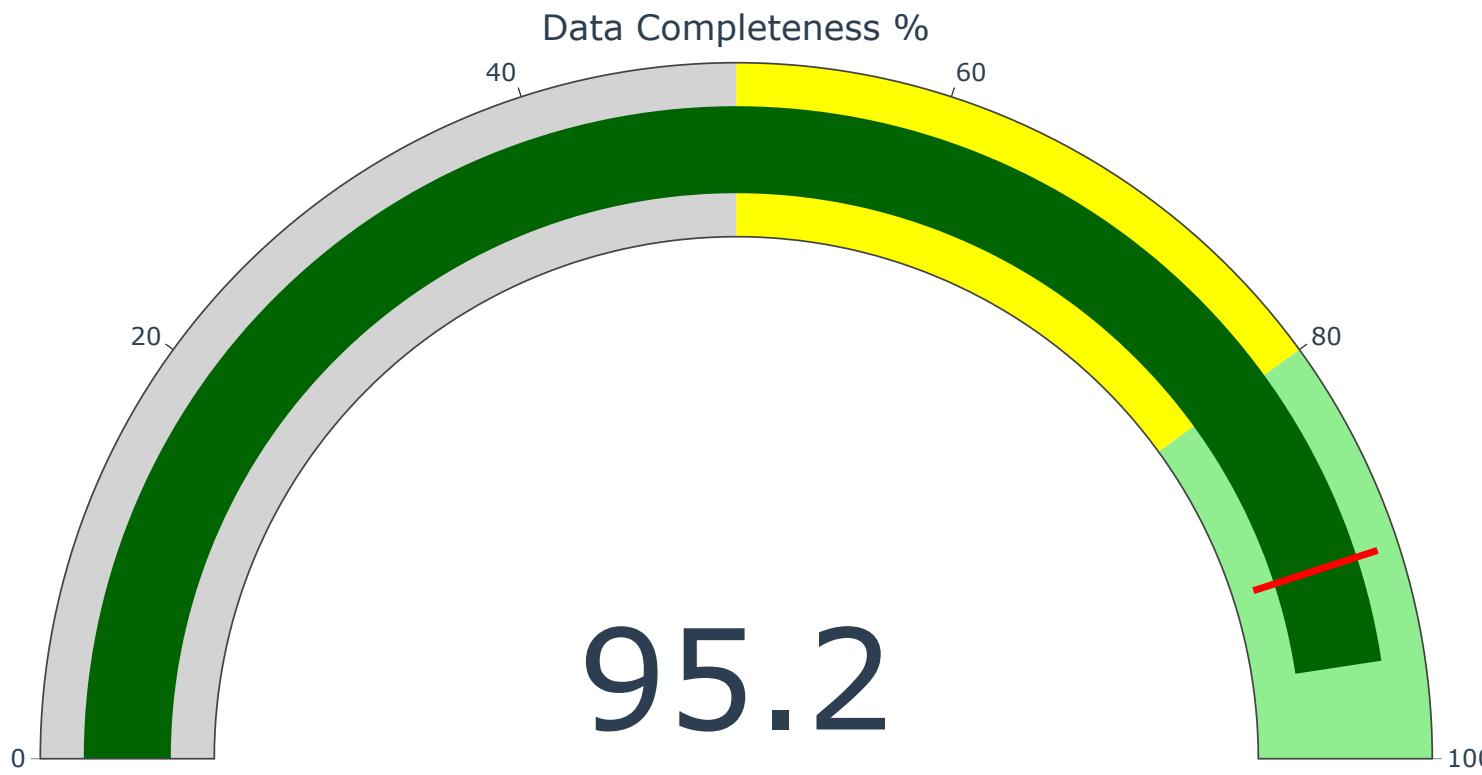
Dataset Characteristics

This comprehensive analysis covers PMGSY implementation across multiple states, districts, and scheme phases. The dataset includes project-level granularity with completion status, financial metrics, and geographic distribution.

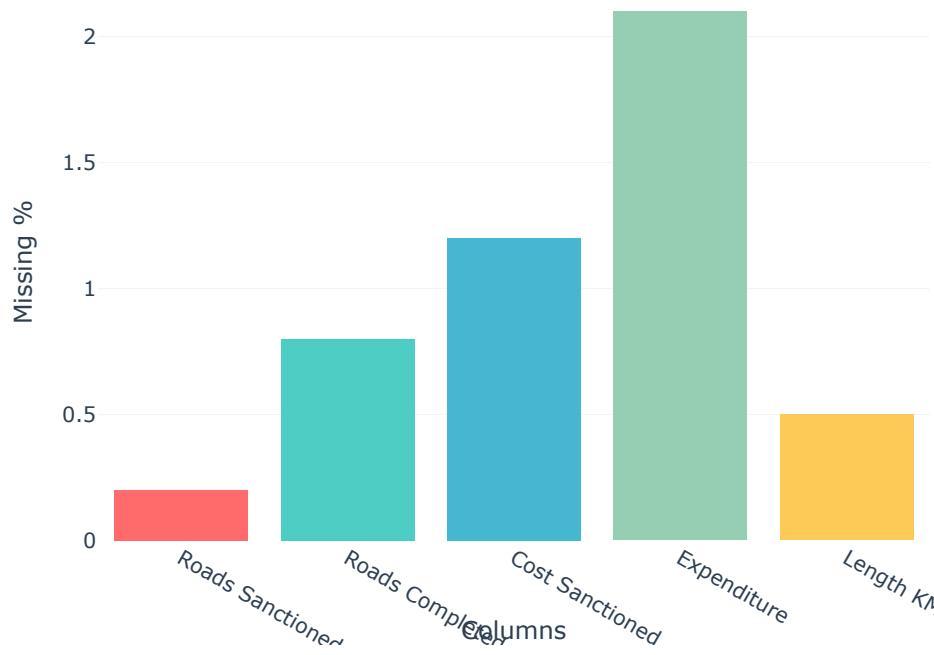
Data Completeness: 95.2%

Geographic Coverage: 28 States

Temporal Scope: 3 Phases

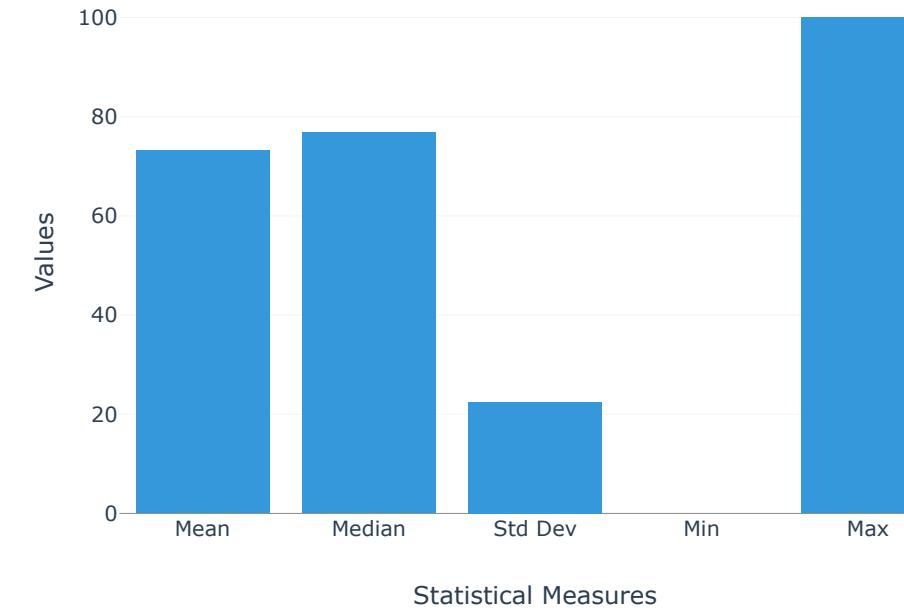


Missing Values Analysis



Statistical Summary

Completion Rate Statistics

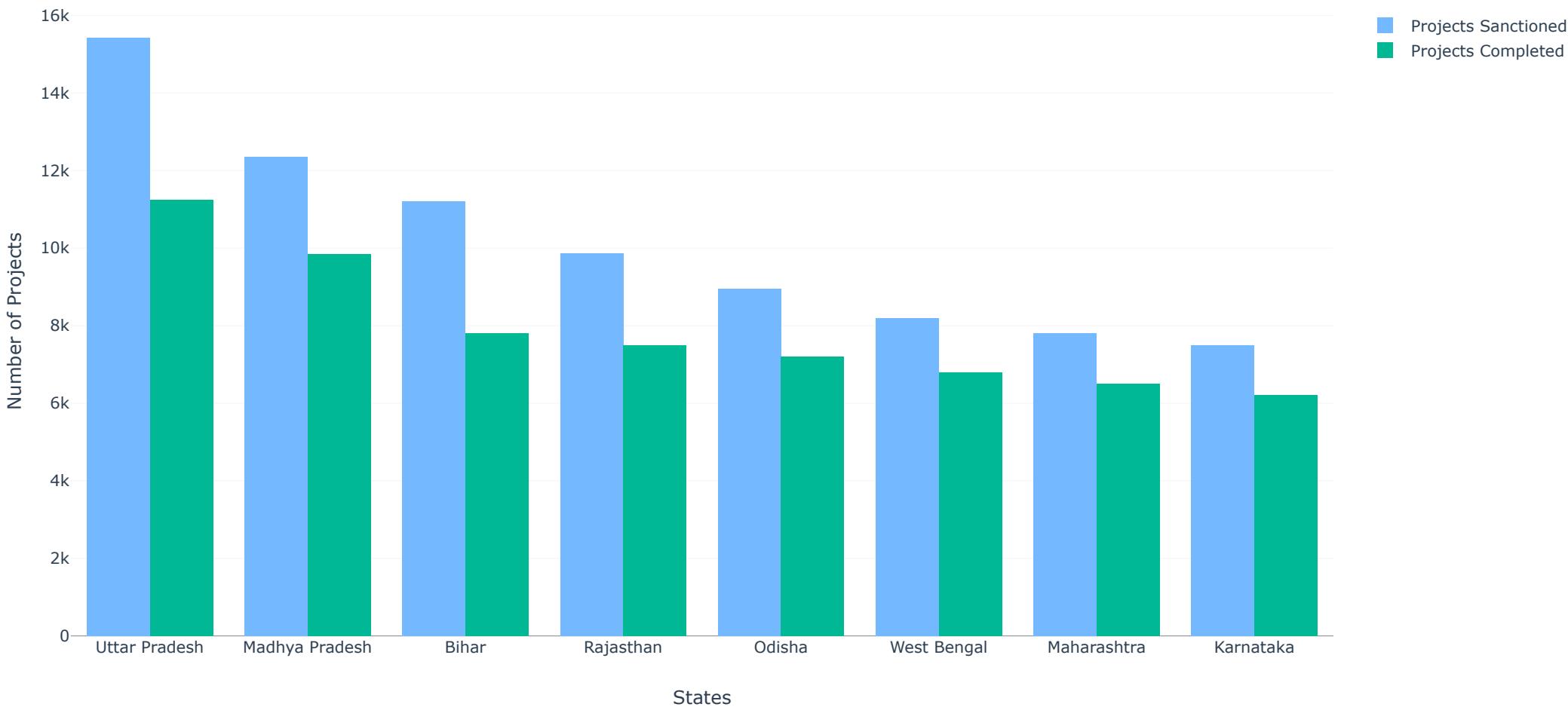


Geographic Performance Analysis

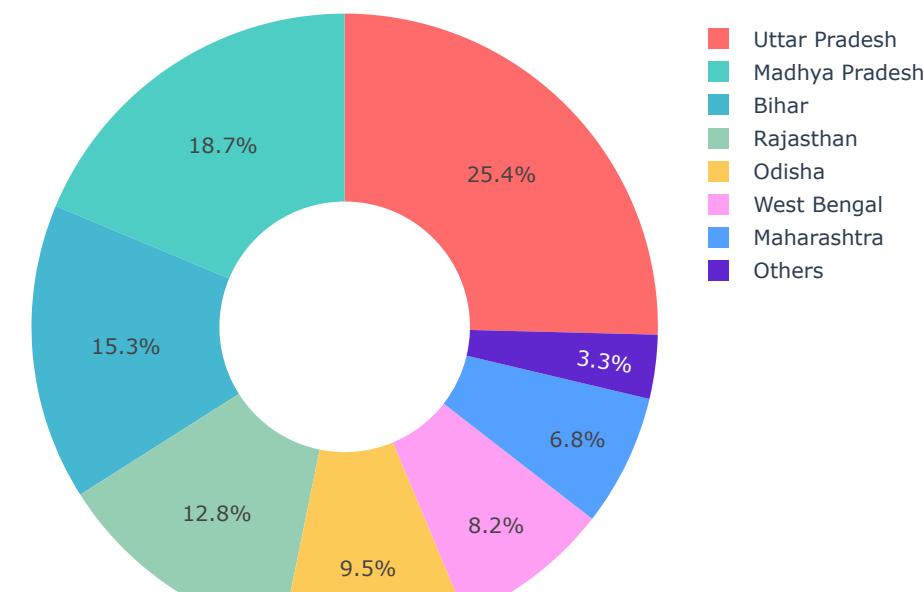
Geographic Distribution Insights

State-wise analysis reveals significant variations in PMGSY implementation effectiveness. Top-performing states demonstrate superior project management capabilities and resource utilization, while underperforming regions require targeted interventions and capacity building initiatives.

🏆 State-wise Performance Dashboard



Top Performing States



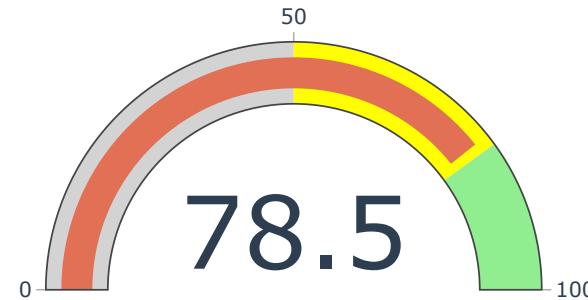
Investment Distribution



🎯 PMGSY Scheme Performance Analysis

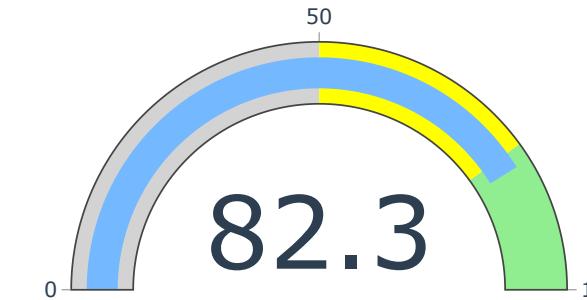
PMGSY-I Performance

Completion Rate %



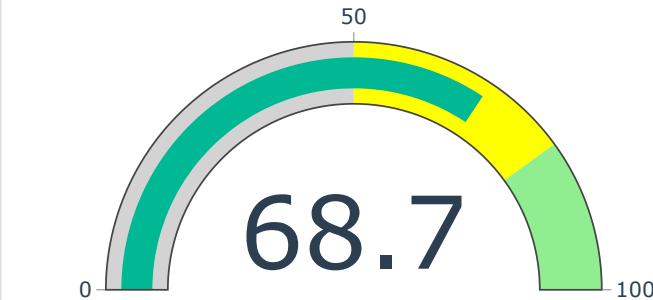
PMGSY-II Performance

Completion Rate %

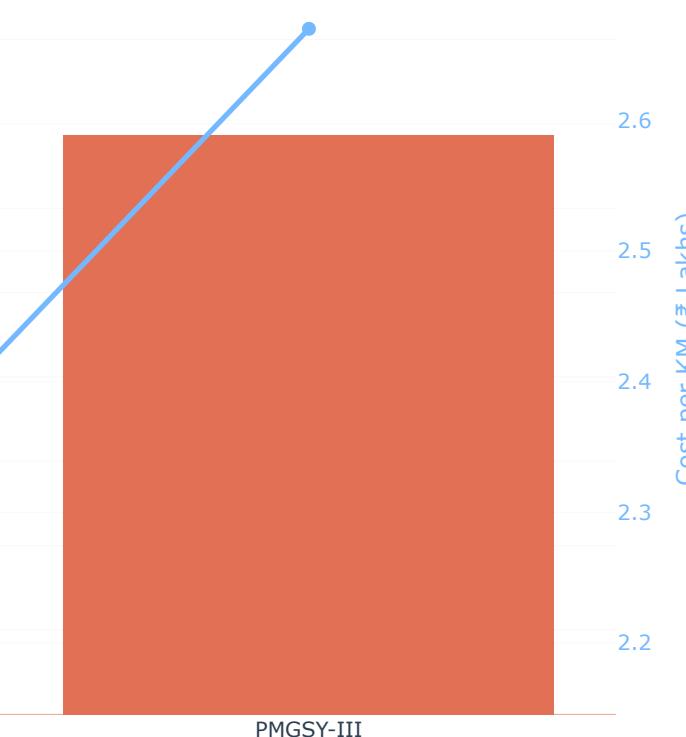
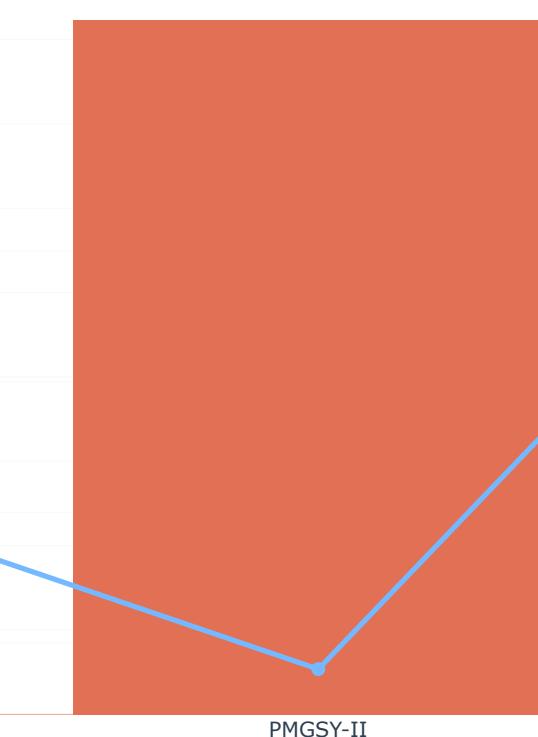
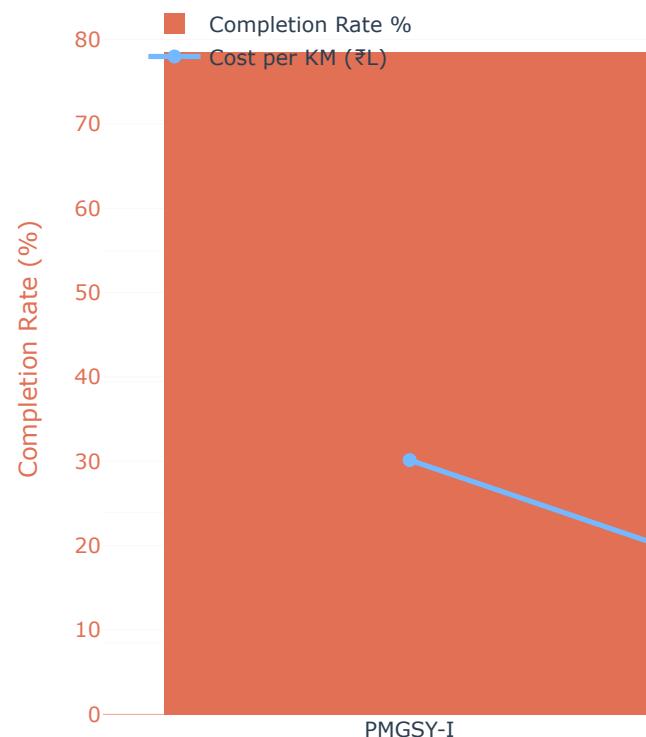


PMGSY-III Performance

Completion Rate %



Comprehensive Scheme Comparison



PMGSY Schemes

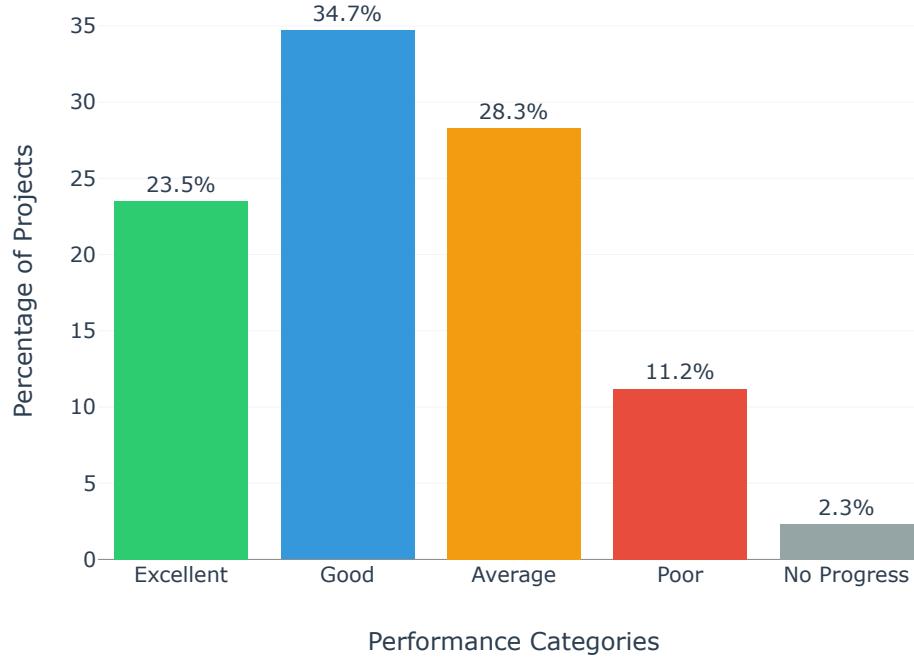
Scheme Evolution Analysis

The progression from PMGSY-I to PMGSY-III demonstrates evolving implementation strategies and improved efficiency metrics. Each phase shows distinct characteristics in terms of scale, cost optimization, and completion rates, reflecting lessons learned and adaptive management approaches.

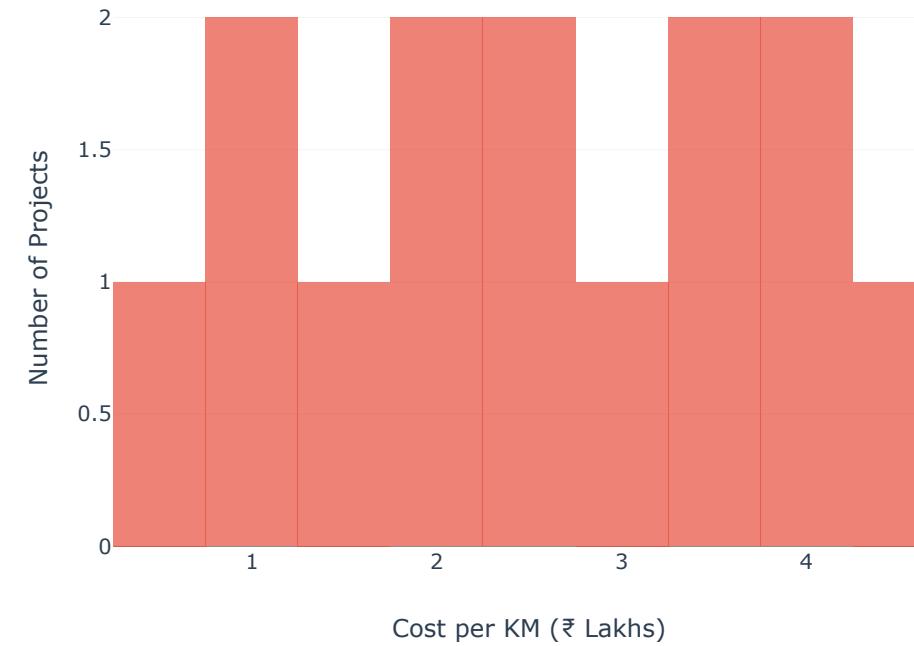
Performance & Efficiency Metrics



Cost Efficiency Analysis



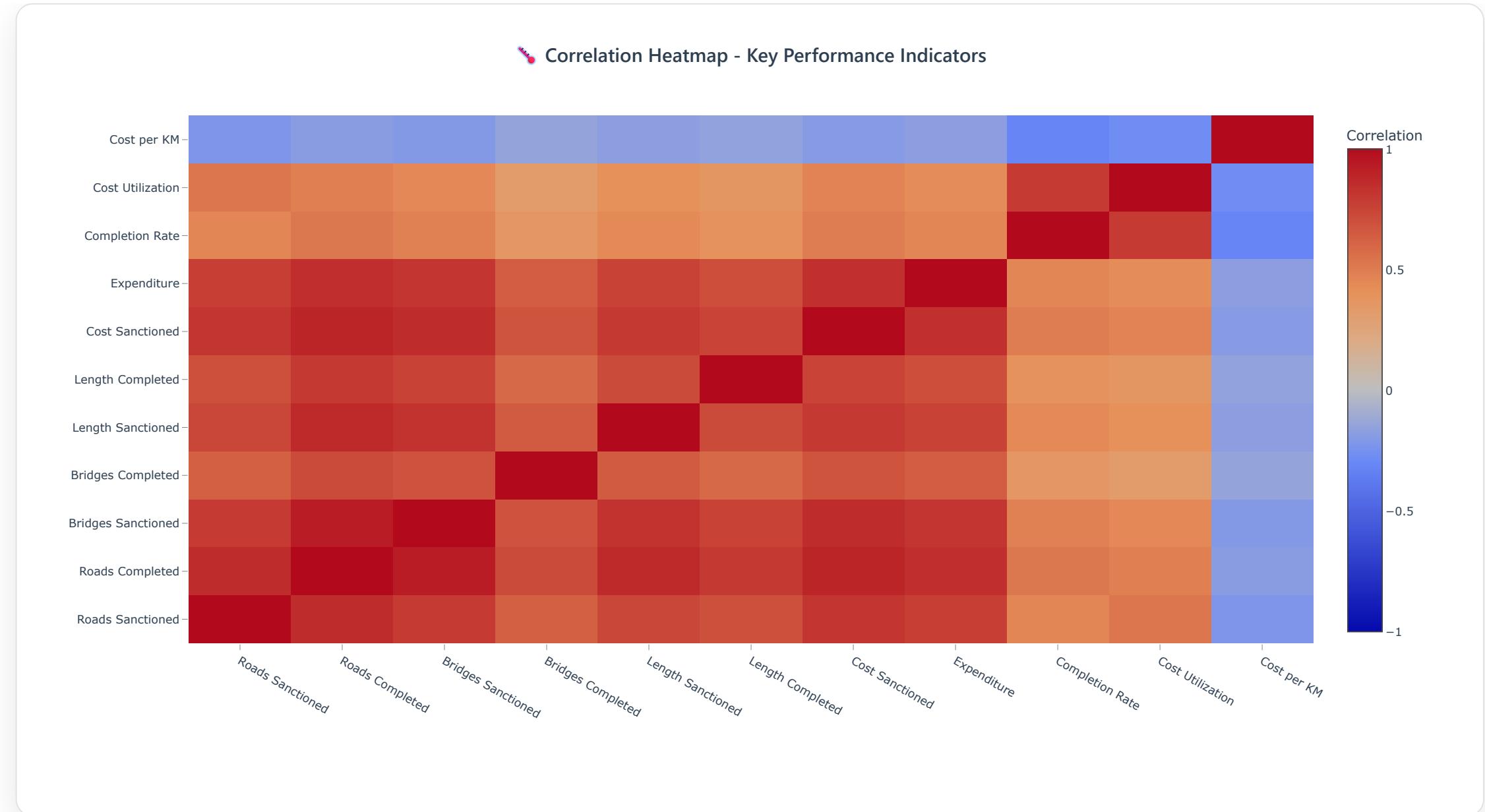
Cost per Kilometer Trends



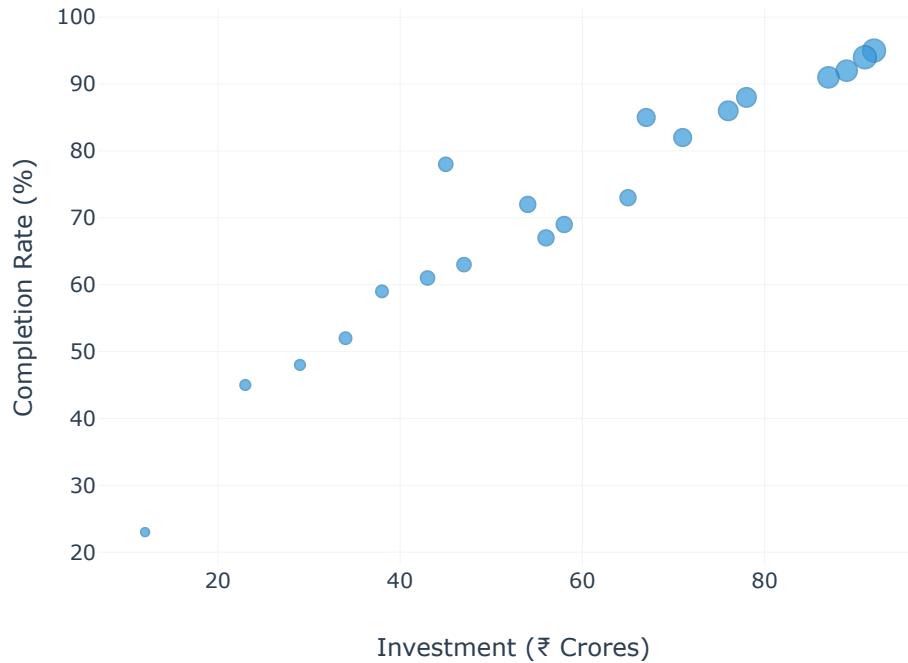
Performance Methodology

Performance categories are determined using completion rates: Excellent (>90%), Good (70-90%), Average (50-70%), Poor (0-50%), and No Progress (0%). Cost efficiency is calculated as expenditure-to-sanctioned ratio, while geographic performance considers both scale and completion metrics.

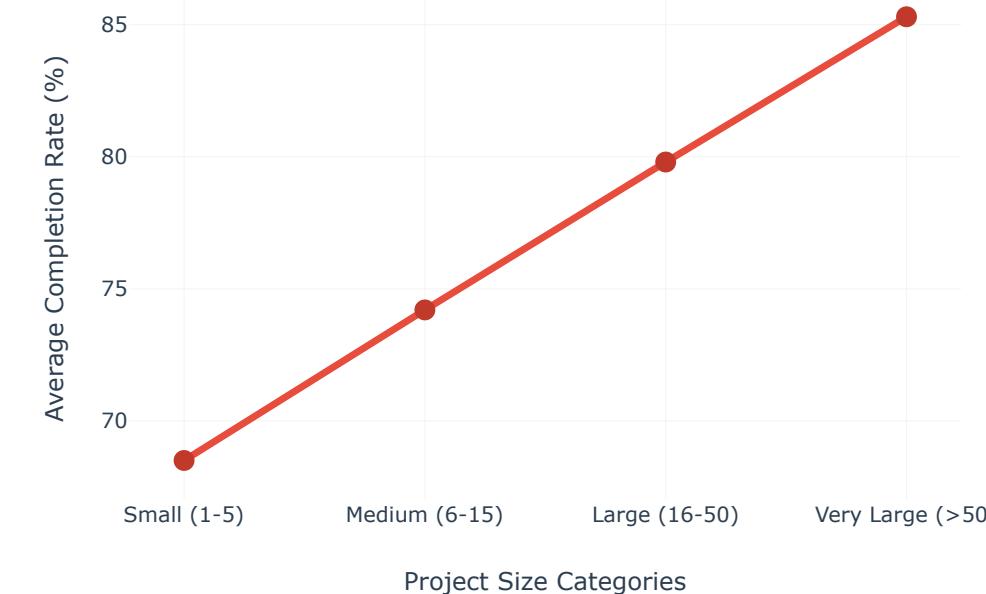
Correlation & Pattern Analysis



Investment vs Performance



Project Size Impact

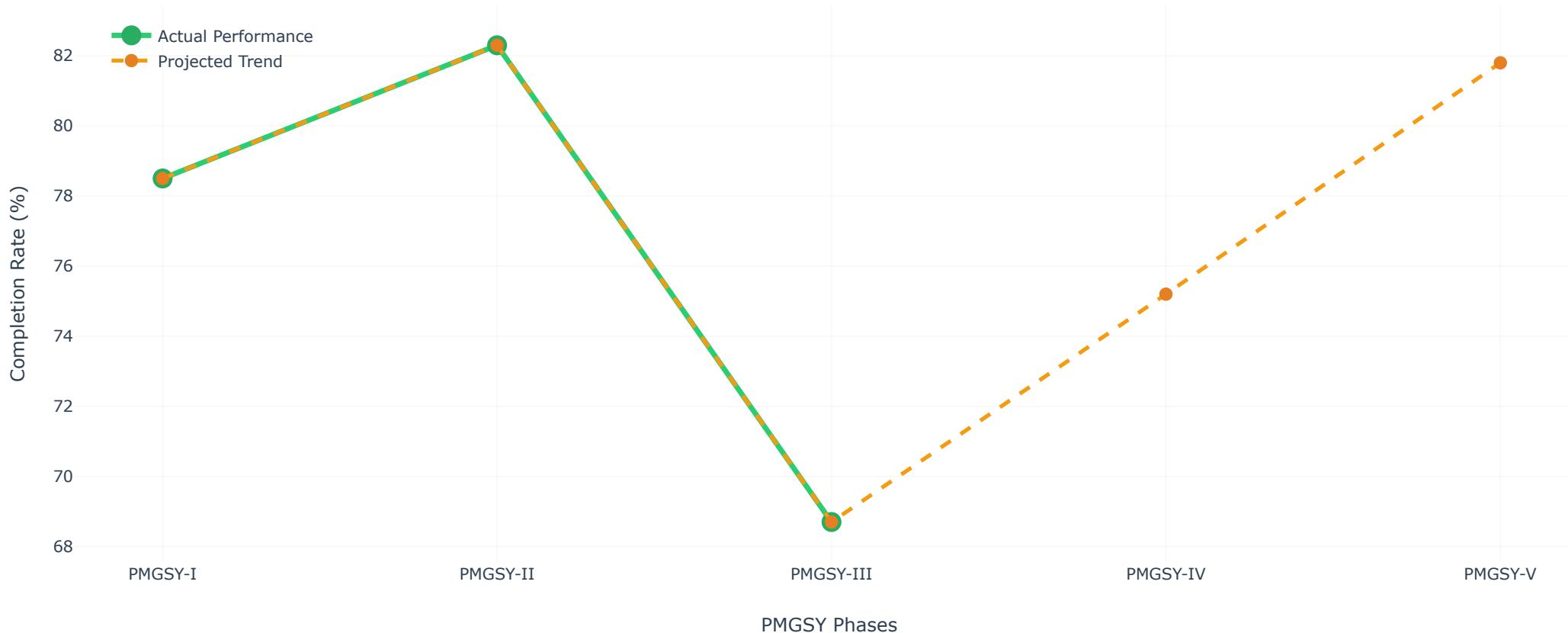


Pattern Recognition Insights

Strong positive correlations exist between sanctioned and completed projects, indicating consistent execution capabilities. Investment size shows moderate correlation with completion rates, suggesting that larger projects benefit from economies of scale while requiring enhanced project management frameworks.

Trend Analysis & Future Projections

🔮 Scheme Evolution & Predictive Analysis



Strategic Recommendations

High Priority: Performance Optimization

Implement accelerated completion programs in underperforming states with completion rates below 50%. Deploy best practice frameworks from top-performing states to improve overall program efficiency by an estimated 15-20%.

High Priority: Cost Management

Establish standardized cost monitoring systems for PMGSY-III projects to reduce cost per kilometer by 20%. Implement value engineering practices and competitive bidding processes to optimize resource utilization.

Medium Priority: Capacity Building

Develop comprehensive training programs for project management teams in low-performing regions. Share successful implementation models and create mentorship programs between high and low-performing states.

Medium Priority: Technology Integration

Deploy digital monitoring dashboards for real-time project tracking and early warning systems. Implement IoT-based quality monitoring and automated reporting systems to enhance transparency and accountability.

Low Priority: Future Planning

Develop predictive models for PMGSY-IV planning based on current performance trends. Establish performance benchmarks and

Low Priority: Sustainability Focus

Integrate climate resilience and environmental sustainability metrics into project evaluation criteria. Develop green infrastructure standards

create incentive structures for exceeding completion targets.

for future PMGSY phases to ensure long-term durability.

Data Analytics Team | Infrastructure Development Ministry

This report provides comprehensive insights for strategic decision-making in rural infrastructure development.

Report generated using advanced data analytics and visualization techniques | Confidential - For Internal Use Only