Data Analytics for the DSRIP Program at MSHS

Prime Dimensions offers capabilities and expertise to guide the development of MSHS's technology infrastructure for the DSRIP program. Our services are designed to accelerate deployment of analytics-based solutions that facilitate an integrated delivery system and achieves the goals of the DSRIP program:

- Transform the health care safety net at the system and state levels
- Reduce avoidable hospital use and improve other health and public health measures at both the system and state levels
- Ensure delivery system transformation continues beyond the waiver period by leveraging managed care payment reform
- Offer near-term financial support for vital safety net providers
- Create a more cost efficient Medicaid program with improved outcomes
- Assure access to quality care for Medicaid members and long-term delivery reform through managed care payment reform
- Provide actionable information and insights at point-of-care ensuring appropriate clinical interventions
- Improve, redesign and extend care delivery to promote financially sustainable healthcare systems
- Exceed future standards of care, patient satisfaction and provider expectations

For DSRIP to succeed, MSHS and all lead PPS organizations must embrace advanced analytics and predictive models focused on population health management, payment reform, care coordination, evidence-based medicine and clinical decision support, aimed at the DSRIP population. MSHS must also address fragmentation of care delivery and variations in quality, outcomes and cost across the 11 Suffolk County hospitals, to reduce 30-day readmissions and improve transitional care for the chronically ill, ensuring that patients get the right care at the right time, while avoiding unnecessary duplication of services and preventing medical errors.

As a pay-for-performance program, DSRIP is designed to award incentive payments to MSHS for meeting DSRIP performance targets and benchmarks based on project-specific and population-wide quality metrics. To be successful and competitive, stakeholders must share data to leverage analytics for: (1) risk stratification and identification of high cost/high risk patients using predictive models; (2) performance monitoring and evaluation of key quality measures; (3) development of longitudinal patient records; and (4) establishment of market-based models for bringing greater price transparency, measuring variation in cost and quality, and delivering predictable outcomes.

Value-added Results

Our services accelerate the path toward a unified analytics platform, virtualized data environment and application programming interfaces (APIs) to connect multiple internal and external IT systems for monitoring, reporting and analysis of key performance metrics. We offer the following expertise to streamline information exchange among DSRIP stakeholders:
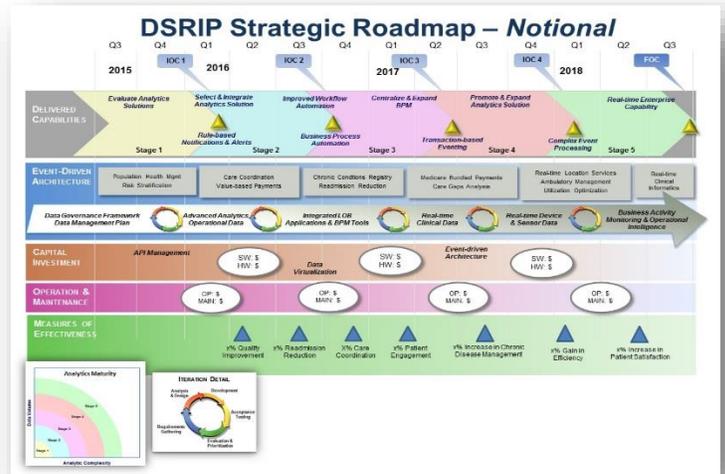
- Deploying innovative, cost-effective solutions to collect, integrate, and analyze data across disparate sources, including electronic health records (EHRs), billing/claims systems and others.
- Resolving the disjointed, fragmented data environment that creates high latency and other inefficiencies.
- Developing real-time point-of-care clinical applications, enabled by cloud computing, mobile devices and the emerging Fast Healthcare Interoperability Resources (FHIR) specification.
- Applying cross-boundary, cross-domain data governance to accelerate innovation and improved time-to-value of analytic applications.
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MSHS Strategic Roadmap for DSRIP

Our approach begins with performing an architecture assessment and developing a strategic roadmap that describes the steps that MSHS needs to take to achieve stated outcomes and goals. It clearly outlines links among activities and priorities the over near, medium and long term horizon. The roadmap is intended to support the development of enabling capabilities, including data integration, data access, data distribution services, application development platform and reporting/dashboards, moving toward an event-driven architecture (EDA) that effectively integrates relational, non-relational and streaming data.

Our process for MSHS will start with an assessment of the current state with regard to each of these functions, as well as workforce and organizational readiness. The roadmap will be developed in collaboration with MSHS executive team, who will identify performance targets, pathways, priorities and time frames for the assessment, demonstration, design, development, and deployment of solutions. We will conduct targeted interviews and facilitated sessions with key stakeholders to evaluate and prioritize high value use cases that serve as a basis for framing the solution, conveying value and quantifying return-on-investment. This effort will yield enhanced collaboration, understanding and agreement among stakeholders. The roadmap defines a specific pathway for achieving the desired future state in a specified timeframe, and it addresses potential risks, related to technology, stakeholder participation, budget or regulatory limitations, organizational constraints or other barriers to success.

DSRIP Strategic Roadmap – Notional

Summary

Prime Dimensions is prepared to assist MSHS in adopting advanced analytics capabilities for the DSRIP program and extending to other initiatives. Through this process, MSHS is embracing a new paradigm in which healthcare practitioners have the ability not only to measure outcomes but also to influence outcomes. Analytics-based solutions will usher in a new compute paradigm that improves patient outcomes by having better visibility into all dimensions of healthcare delivery, thereby exceeding the goals of the DSRIP program.

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