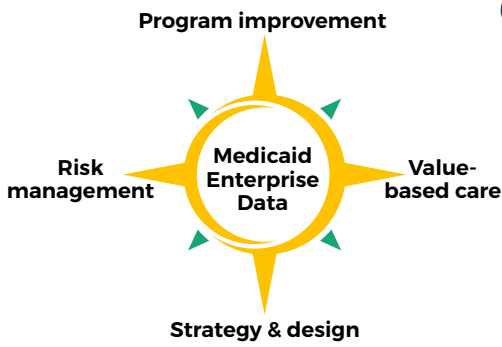


## Navigating Your Medicaid Enterprise Data Journey in the New Modular World



Traversing the new world of the modular Medicaid Enterprise Systems (MES) can be like journeying into unexplored lands. The opportunity to leverage new best-of-breed technologies to deliver truly innovative solutions is fraught with risk and complexity for state Medicaid agencies (SMAs). SMAs must chart their own Medicaid Enterprise Data (MED) course, sifting through a multitude of nontraditional state Medicaid vendors, each offering discrete modules, built in isolation, without an understanding or knowledge of how they should piece together with other modules. Add to this dynamic an ever-increasing number of data sources and larger data volumes, and blazing a trail through the wilderness of modular Medicaid data becomes, well, treacherous. In short, states need a data guide.

### Mathematica can help

Mathematica serves as your guide to navigate the modular enterprise data journey—we provide the map, the compass, and the knowledge of the landscape to successfully make the high quality data-related decisions before, during, and after the MES module system implementation. With decades of experience, we can help you chart a course to your destination, so that when you arrive, the data and information your systems generate serve as a true asset to your program operations and improvement initiatives.

### Data governance

Given the unknowns, risks, and difficulties, planning is key before setting out on any journey. Similarly, building trust and confidence in modular MES begins with creating an MED plan. But, how to plan? And who gets to make which decisions regarding the plan?

These are the questions Mathematica's data governance planning successfully helps SMAs address. We put the SMA's goals, processes, and data users at the center of the plan's focus, with topics ranging from organizational data responsibility to data meaning to data management. And, beyond the plan document, we help SMAs adopt and adapt the plan's execution over time with ongoing meeting and moderator support, including state-guided engagement and collaboration with all relevant stakeholders.

## Data quality

Taking a journey into the unknown with no map or a poorly rendered one is perilous. The same is true with basing decisions on poor quality data. Too often, we have seen staff at all levels of SMA administrations struggle with data that is unreliable, outdated, inaccurate, or incomplete when what they need is high quality MED. And yet, the complex world of modular MES makes the path to quality MED even harder to realize.

Mathematica provides a comprehensive data quality offering to help SMAs navigate this complexity. Our data quality staff have deep expertise in Medicaid, innovative methods (such as inferential validation against federal data), and applied technologies (including developing thousands of data quality measures and interactive applications for assessing the measures) to support you with targeted solutions that address your current problems and head off future issues. We help you find your way with offerings that include the following:

- Data quality planning
- Continuous monitoring with proven approaches
- Validation and reporting via dashboards built using human-centered design principles
- Data quality remediation and maintenance action plans

## Analytics

Ask any traveler, and they'll tell you the journey is often just as important as the destination. In the same way, modularity is not just about technology for technology's sake. Rather, it is about creating a foundation for the MED that is essential to the health care learning system, a system designed to drive continuous operational, program, and policy improvement and innovation. When done properly, modularity seamlessly embeds best practices in the delivery process and captures new knowledge as an integral by-product of the delivery experience (Institute of Medicine, 2015). This demands that the MED be well governed, transformed into action-oriented and analytical information in a timely manner, and bolstered with visualizations for improved stakeholder communication.

Mathematica's seasoned guides are fully equipped to help states select and use a superior set of tools and techniques to better compile, inspect, analyze, and report their data to improve decision making. Mathematica can help you envision, plan, prepare, deploy, and operate your own analytics programs, which may be internally operated or outsourced to Mathematica.

### Other services offered under this area include the following:

- Natural language processing
- Data cleaning and harmonization
- Bayesian methods
- Microsimulation and modeling
- Machine learning
- Network analysis
- Geospatial statistics
- High impact visualizations

No matter where you are in your Medicaid Enterprise journey, Mathematica is here to help you with establishing and maintaining your MED with our proven offerings that cover governance, quality, and analytics services and solutions.

**Let's Progress Together.** Contact John Stern at 202-538-9651 or [jstern@mathematica-mpr.com](mailto:jstern@mathematica-mpr.com)

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