



# Data and Analytics Strategy Update

Technology Committee  
of the Board of Directors

September 6, 2023

# Executive Summary

- Advancing MISO's data strategy, management and analytics capabilities is critical to support its mission, priorities and operational functions
- MISO is making progress in enhancing its data capabilities to access and analyze data
- MISO is working with its partners to help accelerate our data strategy, refine processes and establish a new environment while also building a new customer data exchange to improve the stakeholder experience

# MISO is significantly improving how it uses, accesses and analyzes data to manage the grid of the future in support of its mission, priorities and operational functions

Modernizing tools, platforms, technologies and processes is essential as MISO moves forward

## CORPORATE STRATEGY



Operate Reliably & Efficiently

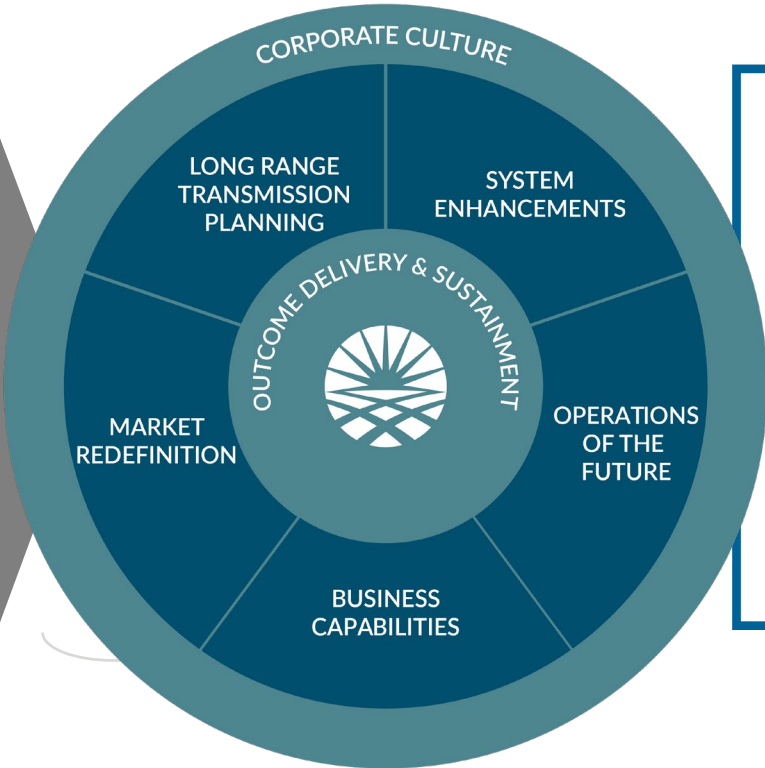


Envision the Grid of the Future

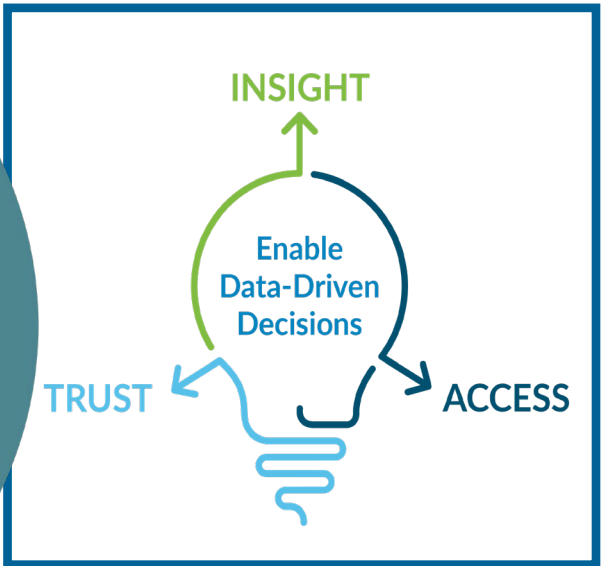


Serve & Grow Membership

People | Process | Technology



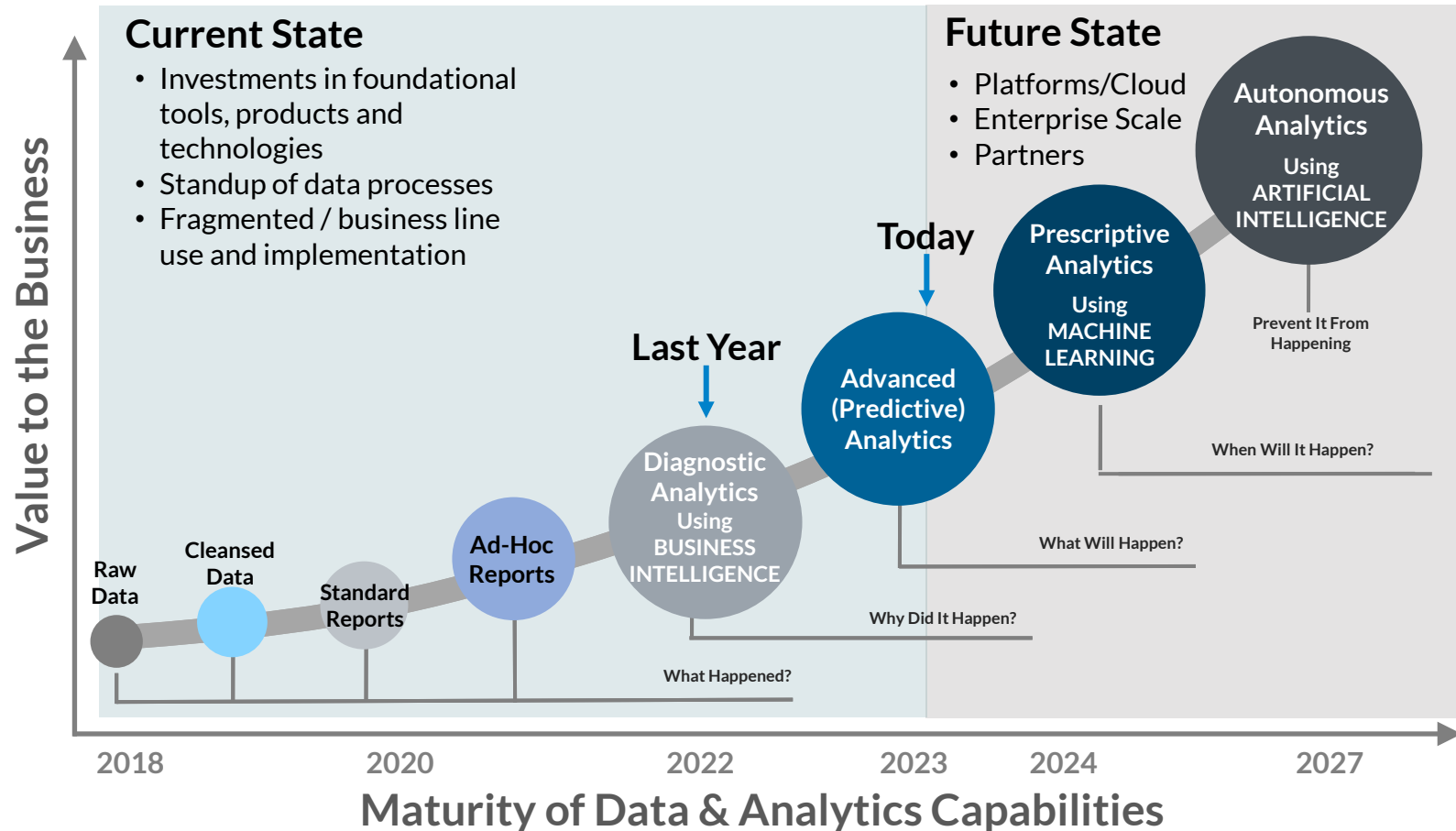
## DATA STRATEGY



# MISO is making progress in enhancing its data capabilities

## MISO's future state will require:

- ❖ New competencies
- ❖ New capabilities
- ❖ Investment
- ❖ Work or changes to policies
- ❖ Re-platforming



# MISO's new data environment is strengthening its data capabilities which are essential to enabling and responding to stakeholder needs

## Key Objectives

*Refine MISO's data strategy using vendor's data transformation framework*

*Establish future data environment and deploy use cases*

*Create future operating model for evolving and sustaining data capabilities*

**Our data enhancements are part of MISO's digital technology strategy and will improve our stakeholder experience**

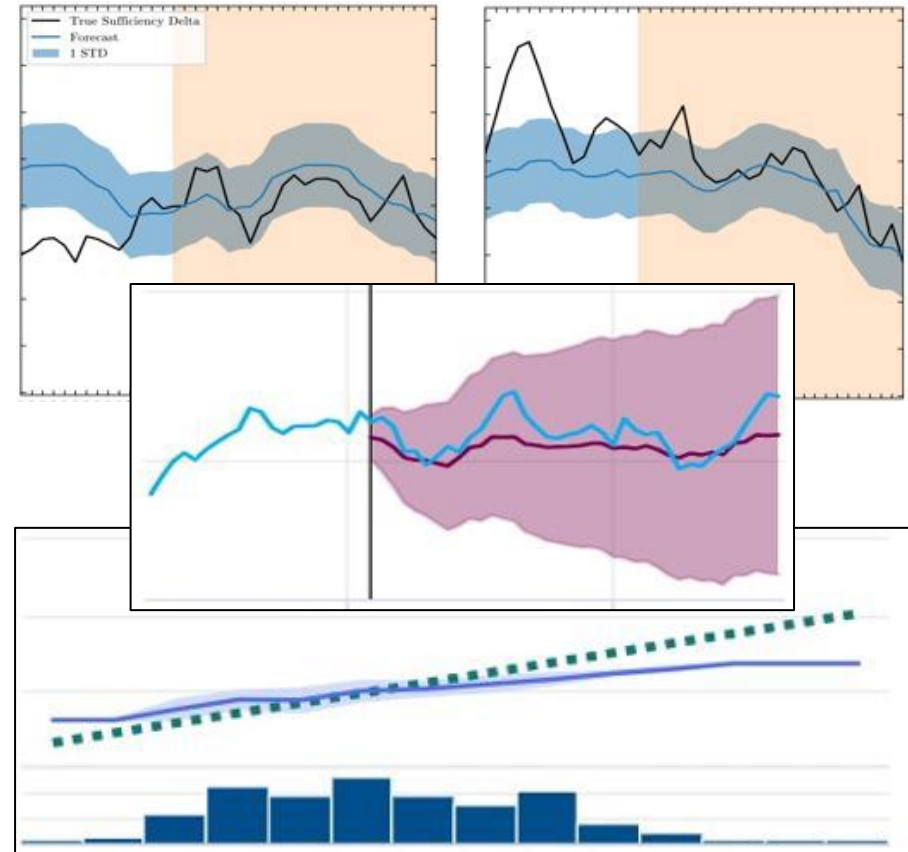
## Benefits of our new Customer Data Exchange

- Matures MISO's public data delivery services solution
- Enables customer self-service
- Fulfills customer desire for mature data exchange practices
- Pilot is on target for fourth quarter 2023

# This new curated environment is expanding MISO's capability to advance analytics empowering it to build, test and deploy analytical models with confidence

## This platform is the future home of MISO data analytics and it:

- Provides a curated environment that enables intuitive data exploration and utilization
- Delivers a process framework to advance analytical capabilities and trusted decision making
- Improves the trust users can have in our enterprise data



Modern machine-learning algorithms are being applied to initial questions around Uncertainty Management

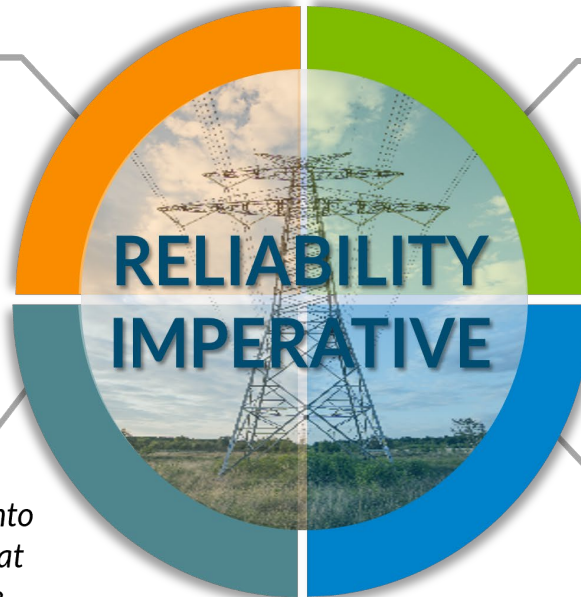
# Moving forward, our data efforts will support business initiatives that will help us achieve our Enterprise Strategic Priorities

## MARKET REDEFINITION

*Aims to ensure generation resources with the capabilities and attributes the system demands will be available all hours of the year.*

## SYSTEM ENHANCEMENTS

*Transforms MISO's legacy system platform into a flexible, upgradeable, and secure system that will evolve with the industry and focus on the integration of advanced technologies to process increasingly complex information.*



## TRANSMISSION EVOLUTION

*Assesses the region's future transmission needs holistically, in concert with utility and state plans, supporting the lifecycle of generation resources and considering the allocation of related costs.*

## OPERATIONS OF THE FUTURE

*Focuses on the skills, processes and technologies needed to ensure MISO Operations can effectively manage the grid into the future under increased complexity.*

**Outcome Delivery and Sustainment will be key as we transform how MISO uses data**