

## How the Industry Needs to Conform the Control Room Operations

Dr. Renuka Chatterjee Grid Forum 2022 August 30, 2022

## Reliability Imperative is work that defines how we enable the resource portfolio transition





#### Strategic priority objectives help us plan, organize and execute the critical work necessary to meet our stakeholders' needs

### Operations Preparedness

Improved simulation tools and training

#### Situational Awareness

Integrated toolset that leverages advanced technologies and enhanced data to help turn data into actions

#### Critical Communications

**Operations of the Future Initiatives** 

Enhanced capabilities that enable quicker and more efficient communications

## Operations Planning

Better aligned operations and planning models and improved outage coordination analysis processing capabilities

### Operational Continuity

Improved tools and updated processes to ensure reliable operations, mitigate risks, and recover quickly

#### **Market Redefinition Initiatives**

#### Uncertainty & Variability

Seasonal resource adequacy construct, accreditation reforms, and scarcity pricing enhancements that better align system needs and capabilities

### Resource Models & Capabilities

Enhance existing models and design and implement new market participation models

#### Location

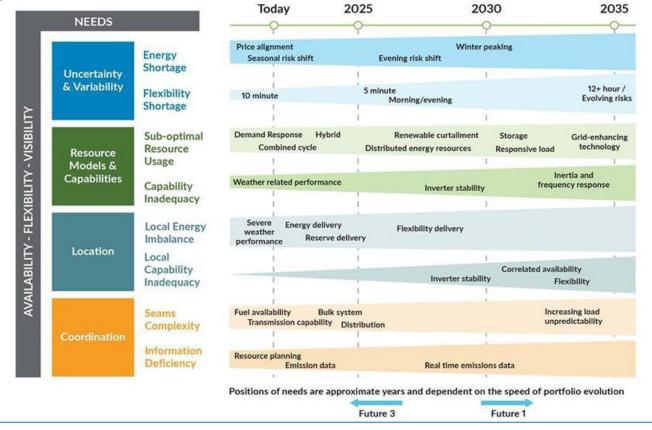
Enabling reserve zone adjustments, enhanced sub-regional resource adequacy assessments, and steps toward inverter-based resource optimization

#### Coordination

Streamline
coordination efforts
and processes for
collecting and sharing
data, as well as refining
the modeling
objectives



## The needs of the MISO region evolve over time, and new needs emerge as the fleet transitions





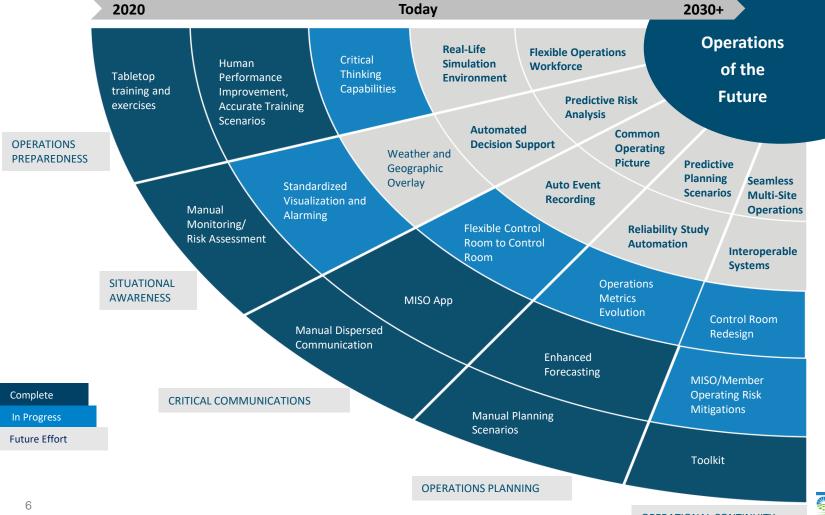
Forward-looking work is underway to ensure that MISO has the people skills, processes and technology to anticipate and respond to operational opportunities and challenges

#### **5** Electra How can I help Adaptable you today? Shift synergies Less fragmented **Process** • Inquiry-driven Automated Seamless IT/Ops integration **Technology** Integrated • Reliable Enabling



**People** 

Timely





To achieve this work, MISO will need to scale throughput with additional resources and investments while working through post-COVID talent shortages



INVEST IN PROCESS & TECHNOLOGY



RECRUIT & TRAIN
TALENT



RETAIN & MANAGE
TALENT

- Work identified to date in the Reliability and Market portfolios requires an investment of approximately \$80-150 million dollars over the next 3-5 years
- A hybrid approach to talent management is necessary given the shortages in experienced talent and the unique skillsets that are needed
  - Rely on external talent with vendors and strategic business partners
  - Train and retain workforce through internships and college hires



## Electra Video

https://cdn.misoenergy.org/20191212%20Board%20of%20Directors%20Electra408760.mp4





# Questions?