



Current Issues Artificial Intelligence Panel

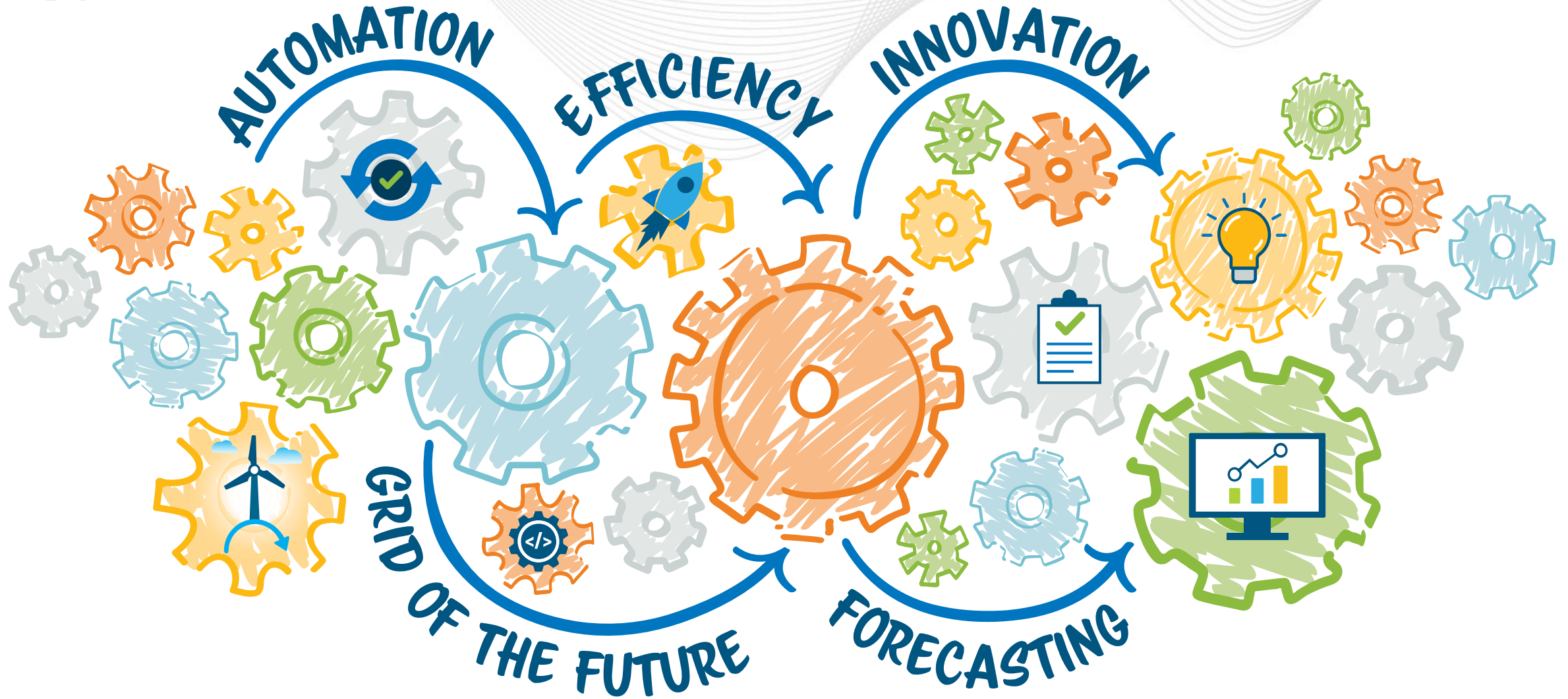
April 16, 2024

Santa Fe, New Mexico

Thomas F. O'Brien

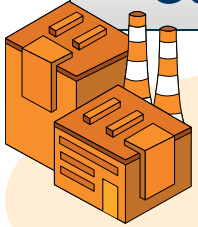
Sr. Vice President and CIO

PJM Interconnection

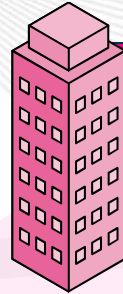


Reimagining Operational Tools – Use Cases

Generation



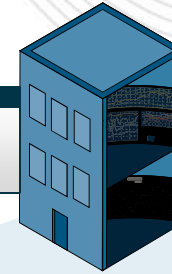
Price forecasting and optimization
Renewable energy forecasting



Energy Trading

Hedge optimization
Scenario analysis
Sensitivity analysis

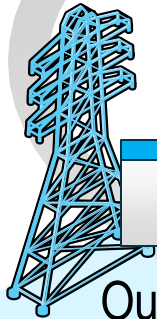
RTO



Renewable integration
Optimization engines

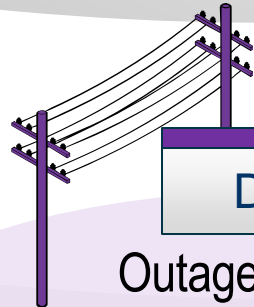
Dispatch operations
Market surveillance
Extreme weather
Phasor measurement unit (PMU) data
Load forecasting
Data and analytics

Artificial Intelligence will impact us all
beyond traditional back-office efficiencies.



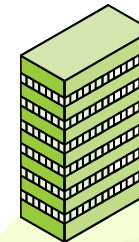
Transmission

Outage management
Constraint management
Predictive maintenance



Distribution

Outage management
Workforce planning and optimization
Smart grid



Retail

Customer engagement
Sustainability and environmental monitoring

Key Success Factors

Quality data

Controls and governance

Experimentation

Strategic priorities

Skills development

Strong partnerships

Human engagement

THREATS



Malicious use of AI



Algorithms gone wrong

General Risks

Liability

Explainability

Trust

Regulatory risk

Workforce impacts

Legal copyright challenges

Bias

Confidential data