

Office of Electricity: Utility Digital Transformation Panel

Sandra Jenkins

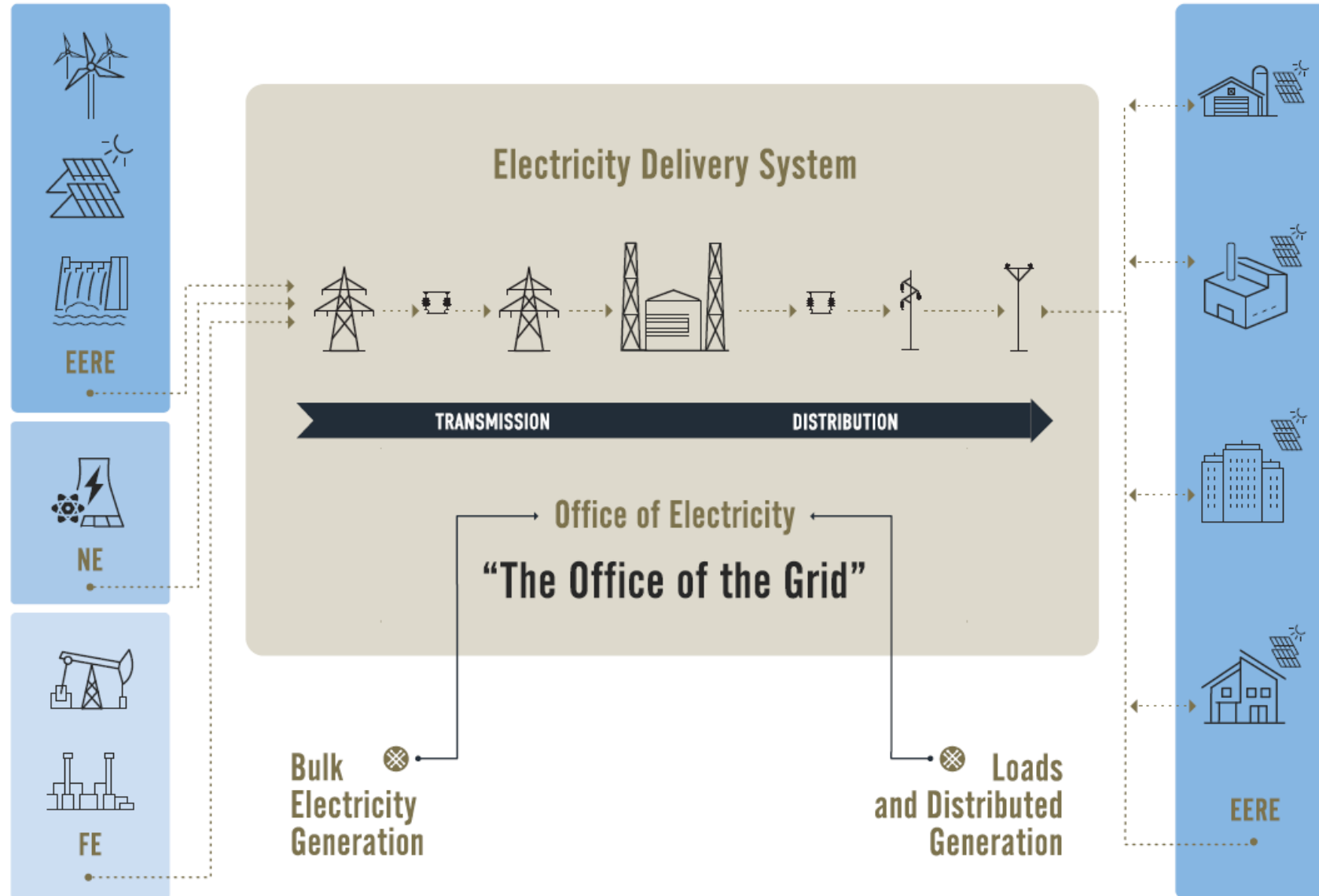
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U.S. DEPARTMENT OF
ENERGY

OFFICE OF
ELECTRICITY

The Office of Electricity



Transmission Reliability and Renewable Integration (TRRI)

Program Areas

Goal



Advanced Applications
Research and Development

Improve transmission system visibility and controllability to ensure reliability and resilience given new operational challenges.



Decision Support Systems
for Transmission Operations

Build sector capability to develop effective visualizations, and to provide more useful alarms and cues for grid operation, planning, and workforce development.



Reliability Metrics, Standards,
and Emerging Issues

Develop new ways of measuring and characterizing the power system to ensure high quality, accurate data for model and tool development.

Sensors and Data Analytics (SDA)

Program Areas

Goal



Enhanced Distribution System Resilience and Control

Utilizing sensors to improve distribution system visibility and controllability to address new operational challenges



Data Integration and Event Detection

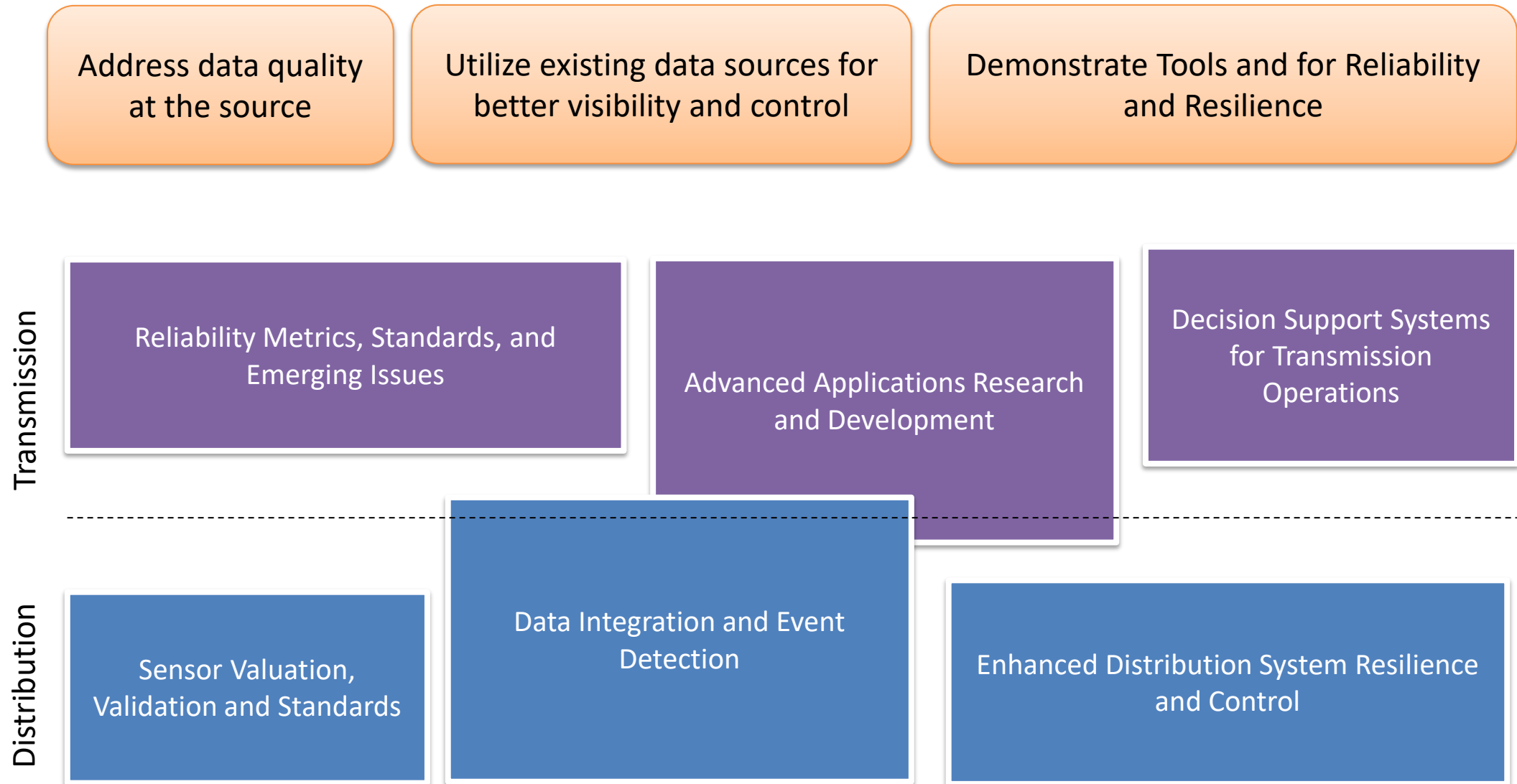
Data analytics for proactive resilience with high frequency data, ML/AI. Creating research data sets to develop applications.



Sensor Valuation, Validation and Standards

Improve system sensing through better sensor placement and improved data acquisition, consistency and validity

TRRI and SDA



Prize

U.S. DEPARTMENT OF ENERGY

Digitizing Utilities Prize

\$1.1 million in prizes

2 Phases:



3 Tracks:



Track 1 – Load Modeling
(Bonneville Power Administration)



Track 2 – Data Analysis
Automation
(Dominion Energy)



Track 3 – Competitor-
Identified Challenge

American Made Challenges



Digitizing Utilities Prize

Connecting utilities with teams of software developers and data experts to transform digital systems in the energy sector for utilities.

Enter by January 26, 2023

Learn More

<https://www.herox.com/digitizingutilities>

Register for the informational webinar

Nov. 15, 2022, 11 am PST: https://nrel.zoomgov.com/webinar/register/WN_TU18dn2kS72eoQwDcOW-_w



THANK YOU

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