



# Synchrophasors Update

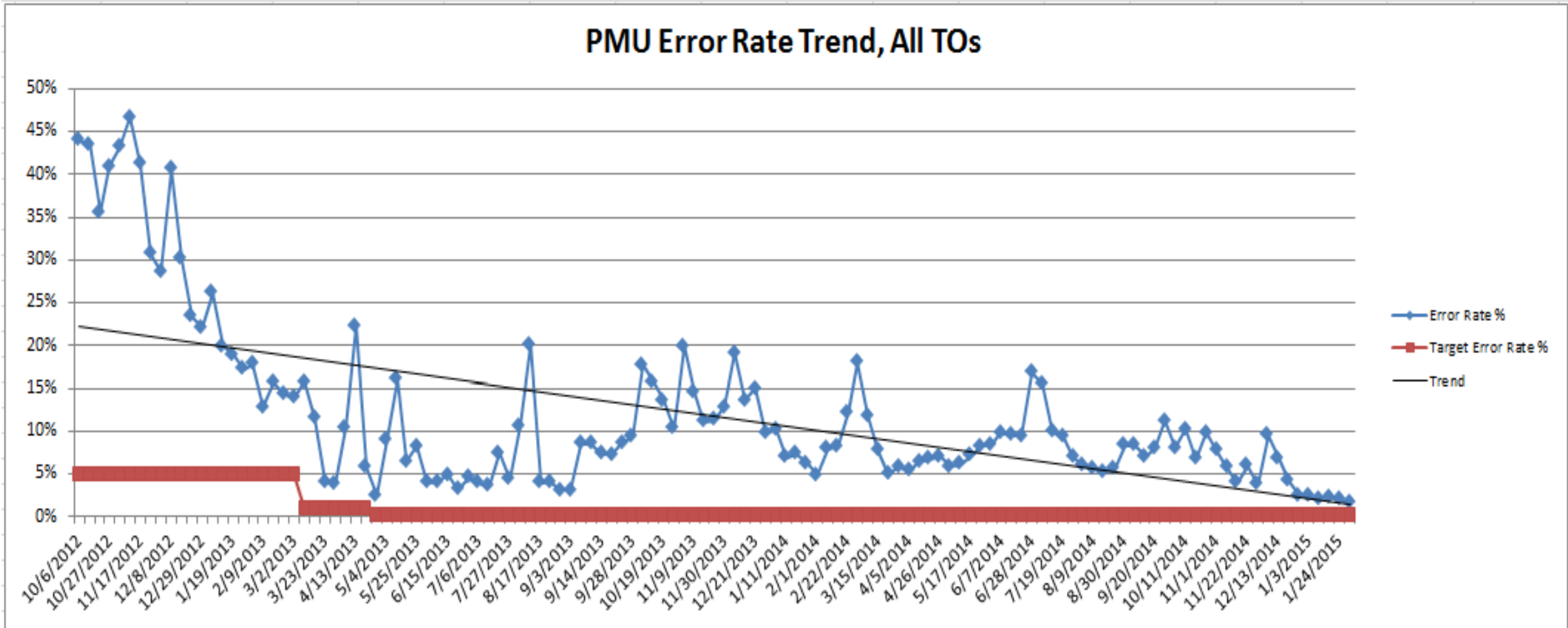
TOA-AC: February 3, 2015

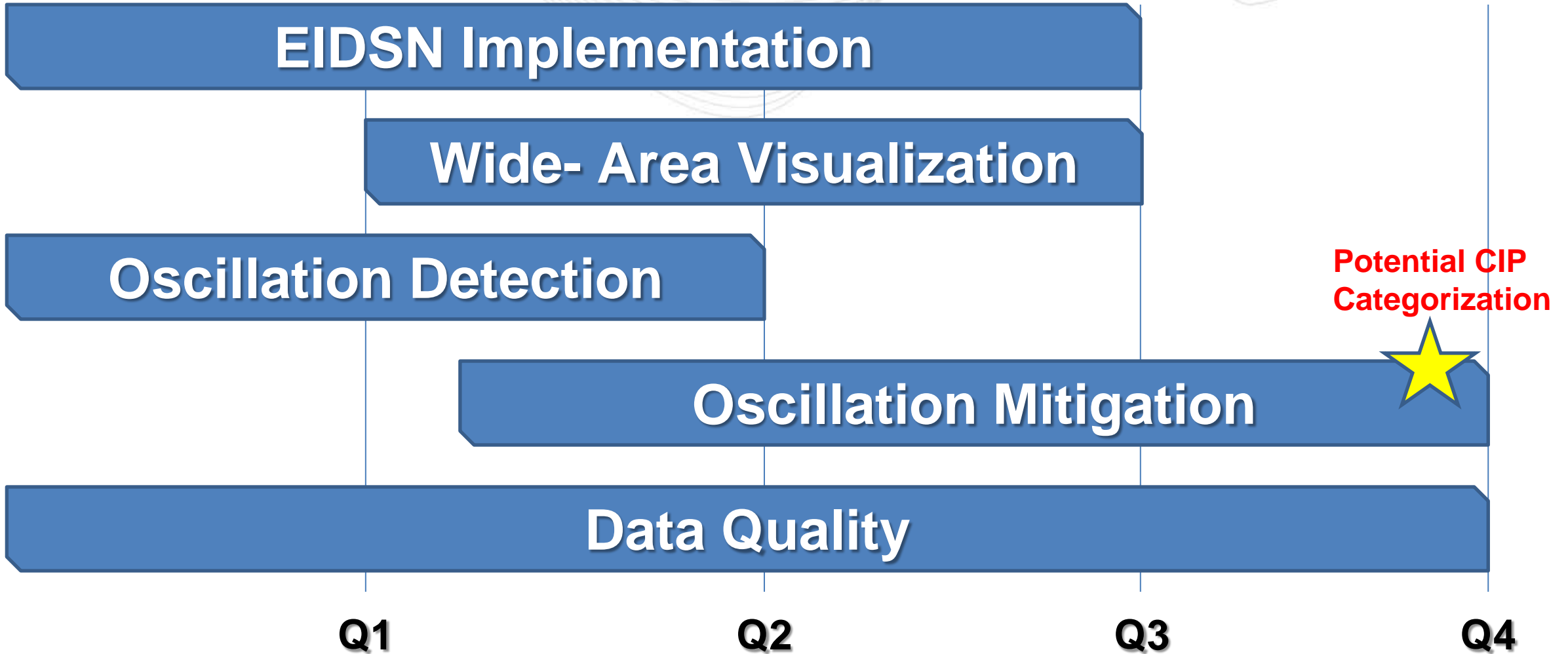
Chantal Hendrzak

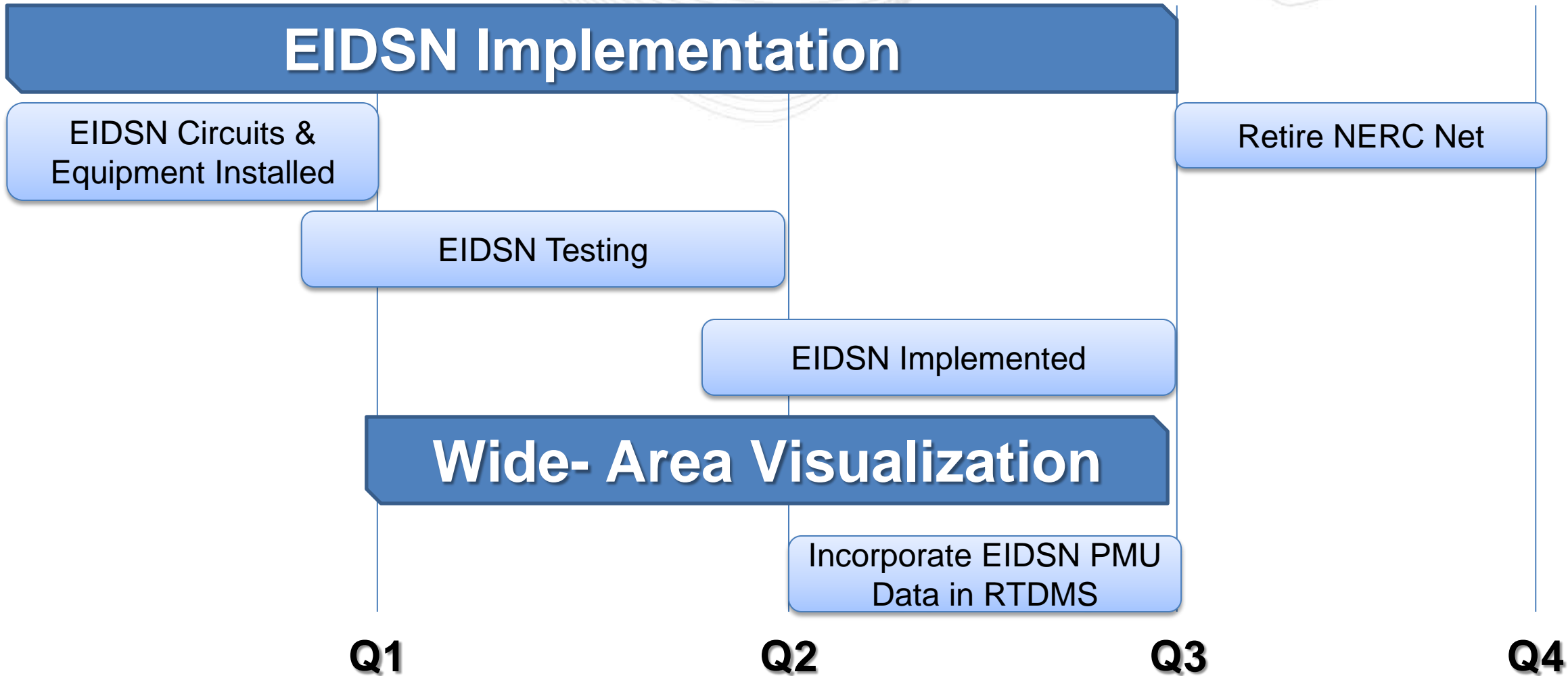
Executive Director, Operations Support

PJM Interconnection, LLC

## PMU Error Rate Trend, All TOs







## Oscillation Detection

Implement & Test Algorithms within RTDMS Test Environment

Implement within RTDMS Production

## Oscillation Mitigation

Develop Procedures & Training

Conduct Operations Training Sessions

Potential CIP Categorization

Procedures in Effect

Q1

Q2

Q3

Q4

# Data Quality

Expand Data Quality tool & methods to condition real-time phasor output.

Linear State Estimation (LSE) Implementation & Results Evaluation

Seek TO Approval (via PDQTF) for use of LSE in Reporting

Incorporate LSE Results into PMU Data Quality

Q1

Q2

Q3

Q4

## Utilizing NERC BES Cyber System Categorization



Impact on BES Reliability Operating Services



Categorization



Connectivity