

# PJM Resilience Update

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- Gauging Resilience Maturity
  - NATF model

2021 Resilience Activities



- "How resilient is PJM?"
  - This is a difficult question to answer, given there are many different ways to answer the question:
    - How resilient is PJM to a pandemic? Severe weather? Physical threats?
  - What aspect of PJM?
    - Operations, Markets, Planning, ITS?
- The entire industry has been wrestling what how to answer these questions

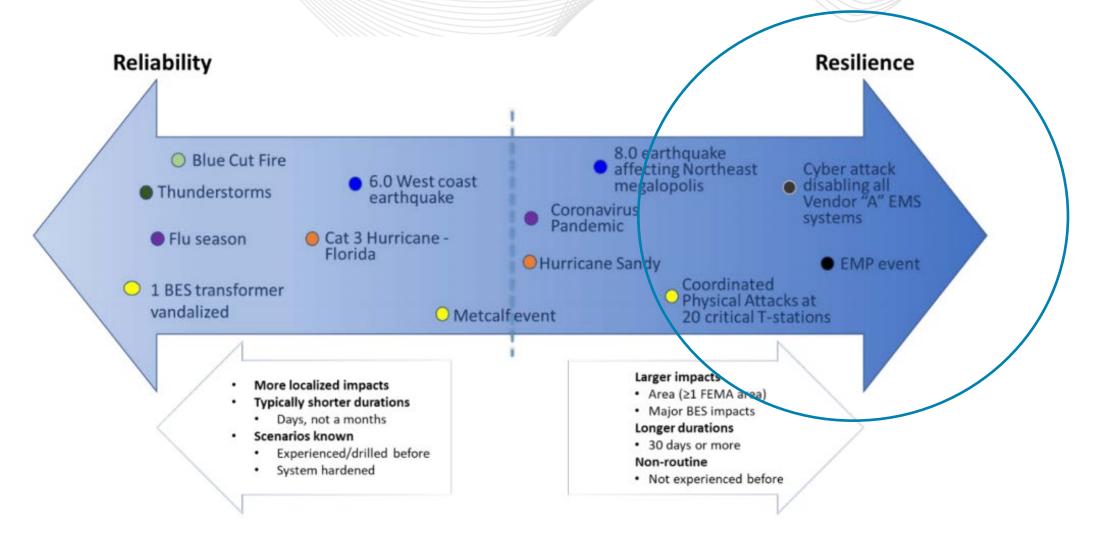


## Transmission Resilience Maturity Model (TRMM)

- October 2020, NATF released version 1.0 of the Transmission Resilience Maturity Model (TRMM):
  - Developed by a team of over 20 experts from NATF, DOE, PNNL,
     EPRI and the electric industry
  - Builds upon, and ties together, existing industry best practices
  - Utilizes a systematic approach of topical areas (Domains) and questions designed at various levels of maturity to assess an organization's current maturity



#### Focus of the TRMM – Resilience level events

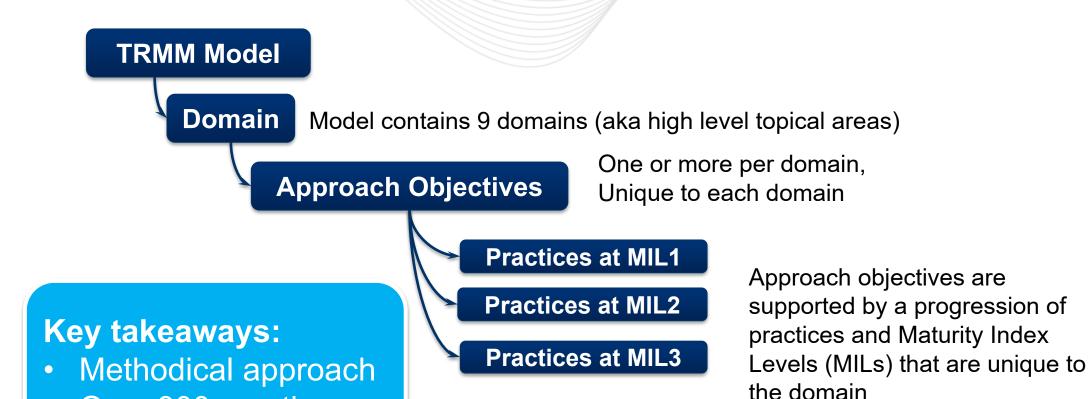


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Over 300 practices

### Organization of TRMM





- Benefits to using the TRMM and accompanying assessment:
  - The industry is moving in this direction
  - Standardized approach
  - Complementary to existing PJM Business Continuity programs

PJM is intending to undertake the TRMM assessment



## 2021 Resilience Activities

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Winter follow-up items

Pandemic Lessons Learned

- Industry engagement
  - NERC: Grid Security Emergency (GSE) communications
  - NERC GridEx VI
  - DOD, DOE, EIS activities

### Key takeaway:

 Tactical resilience activities and industry engagement continue