

Resilience Update

Operating Committee September 8, 2022

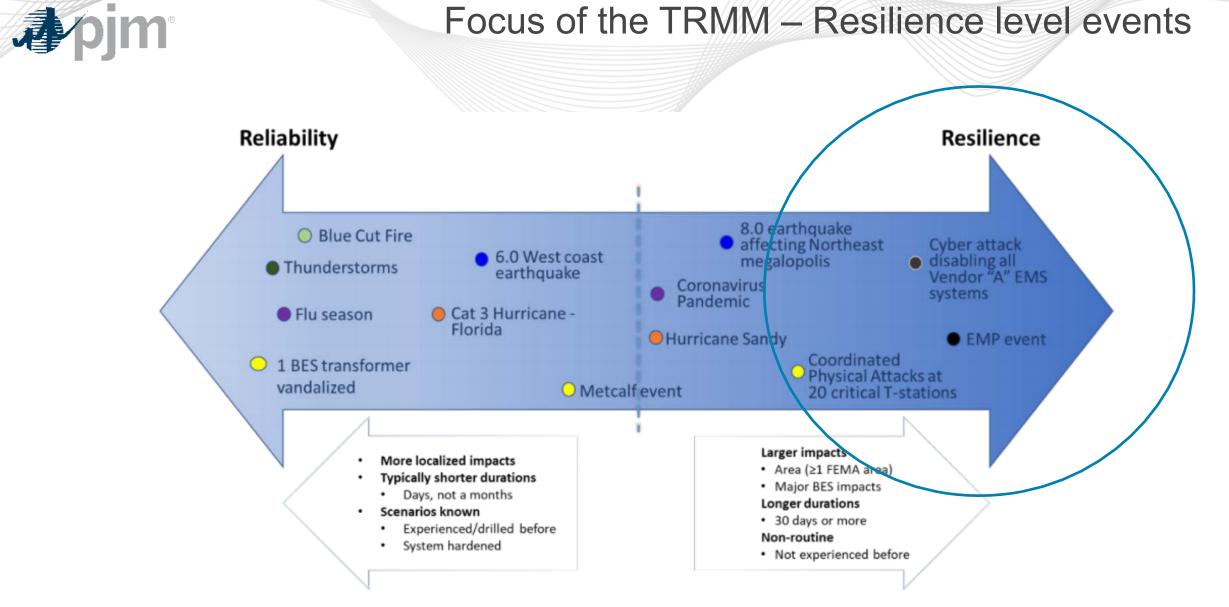
Chris Pilong Sr. Director, Operations Planning

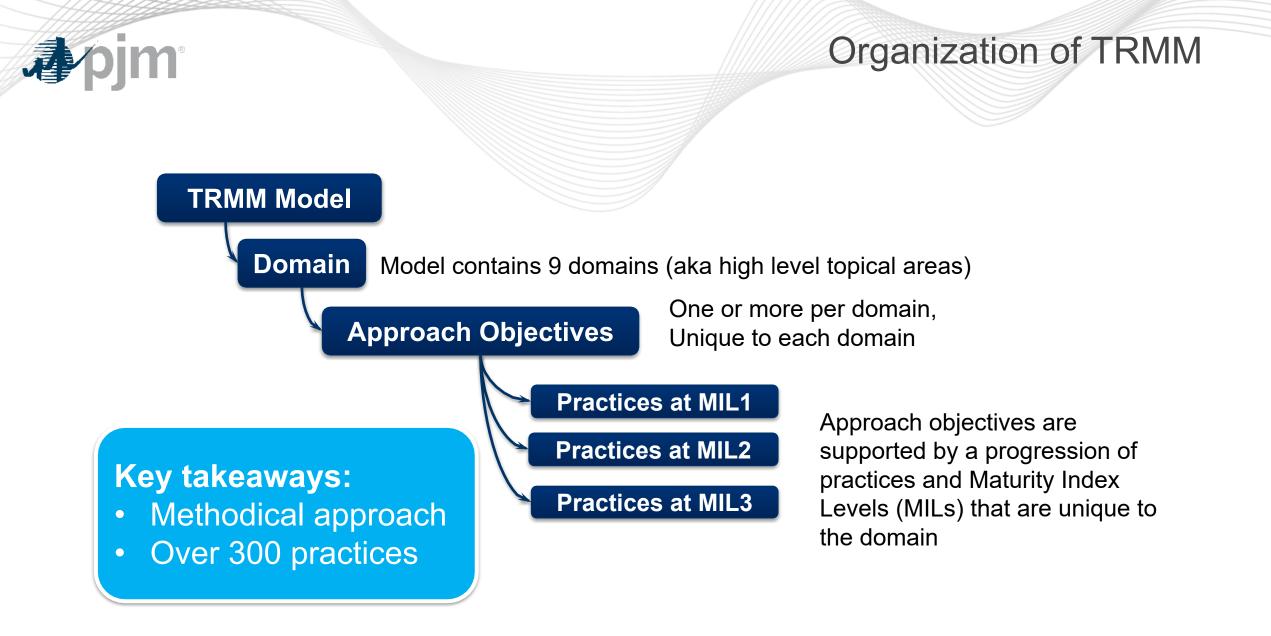
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- October 2020, NATF released version 1.0 of the Transmission Resilience Maturity Model (TRMM):
 - Developed by a team of over 20 experts from NATF, DOE, PNNL, EPRI and the electric industry
 - Builds upon, and ties together, existing industry best 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







TRMM's 9 Domains

- 1) Resiliency Program Management
- 2) Risk Identification, Assessment, and Management
- 3) Situational Awareness
- 4) Event Response & Recovery
- 5) Resiliency Asset Management
- 6) Information Sharing and Communications
- 7) Supply Chain and Critical Entities Management
- 8) Transportation Management
- 9) Workforce Management



NATF Resilience Update

NATF Resilience Assessment		March 7–11, 2022
Utilized the Transmission Resilience Maturity Model (TRMM)		
PEERS FROM:		
 Hydro Quebec 	• MISO	• TVA
 Arizona Public Service Company 	 Bonneville Power Administration 	 Lower Colorado River Authority

High-Level Results



Strengths

- Well-prepared and honest engagement by PJM
- Leader RE: ISO/RTO use of TRMM
- Uniquely positioned to positively influence industry resilience activities
- Strong management support for resilience
- Robust documentation management and control process
- Business continuity and Incident Response Team (IRT)
- Culture of learning
 - HPOE/RCA process
 - Events/drills

Opportunities

- Resilience culture
 - Mindset shift from reliability-based to also include resilience
 - Intentional focus on resilience & explicit use of "resilience" term
 - Common understanding of and focus on resilience
- Think holistically (comprehensive vs. siloed)
- Proactive and sufficient allocation of resources
- · Be proactive vs. reactive
- Develop a suite of design basis resilience events (DBRE)
 - Scenario, impacts, duration
- Formalize resilience activity feedback to risk process



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Industry	 Continue to be a leader and advocate for resilience criteria with NERC and FERC Cold Weather Standards NOPR – Planning Performance Requirements for Extreme Weather
	 Coordinate with the NATF Resilience Steering Committee as industrywide Resilience metrics are being developed
Resilience Program Oversight	Evaluate how to remove/reduce siloes of resilience and better coordinate
Resilience and Risk Management	Build on the recent Enterprise Risk Management progress and include Resilience





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Resilience Update

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