North American SynchroPhasor Initiative

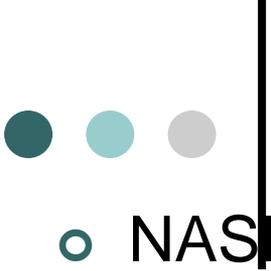# Data & Network Management Task Team Report Out

Co-Chairs:

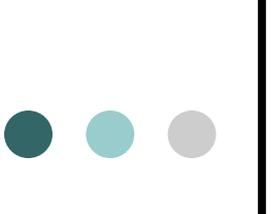Dan Brancaccio, BRIDGE Energy Group

James McNierney, NYISO

March 23, 2017

Gaithersburg, MD

D&NMTT Breakout Agenda

- NASPInet 2.0 -- Jeff Taft (PNNL)
- Update on DOE Grant Russell Robertson (GPA)
  - Tony Johnson – Tie in with IEEE standards body
- PMU-based Distributed Power System Stability Enhancement Framework -- Pavel Kovalenko & Alexey Danilin (GRT Corp.)
- PMU Registry for Automated Metadata Administration – Ryan Nice (PJM)
- Finalize Synchrophasor Archive Questionnaire – D&NMTT discussion
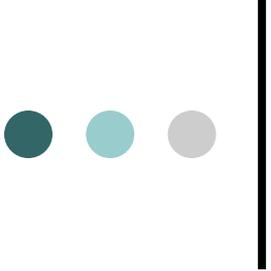- Future state of NASPI --- DNMTT as a task team

D&NMTT Breakout Agenda

- **NASPInet 2.0 Synchrophasor signal registry**
- Learn from implementation experiences
- Assess possible need for specification revision
  - what was useful; what was not
  - Specific lessons learned / challenges
- Consider:
  - emerging technologies
  - emerging use cases
  - new/revised systemic issues and priorities
- Guidance, not binding specification
- Ask for involvement / Review from DNMTT – "Yes!"
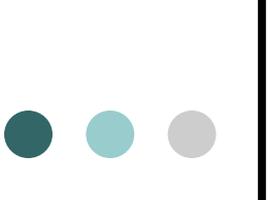
D&NMTT Breakout Agenda

- **Update on DOE Grant - Russell Robertson (GPA)**
  - To document and implement a phasor data communication protocol that improves upon the IEEE C37.118 protocol
  - Stand-alone API-style code that can be integrated into any development platform/project
  - Looking to share with DNMTT for input review
    - Initial specification requirements / API Design – October 2017
    - Protocol Spec Draft / Alpha version / API Tool Kit – 2018
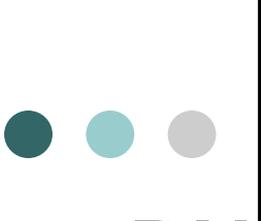 - Of course we said "yes."

D&NMTT Breakout Agenda

- **PMU-based Distributed Power System Stability Enhancement Framework -- Pavel Kovalenko & Alexey Danilin (GRT Corp.)**
  - Talk covered a cloud based solution including a distributed platform "PowerLink" that is focused on IoT and Distribution utilities
  - Provides data processing automation, analytics, process monitoring and control.
  - Cloud based characteristics of the architecture and application GUI makes the offering very scalable and flexible

D&NMTT Breakout Agenda

- **PMU Registry for Automated Metadata Administration – Ryan Nice (PJM)**
  - No one in the organization has a full time job to support the administrative updates within the Phasor applications. -- PJM built a registry and GUI
  - One place to do the updates and all applications would be getting the most current information from this authoritative source.
  - All external data being received would be batch loaded into the registry
- Makes possible auto-administration of metadata across:
  - many platforms and mapping methodologies
  - constantly changing field (PDC) status and configuration
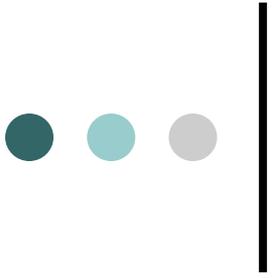
D&NMTT Breakout Agenda

○ **DNMTT Business**

- Storage / Archival Survey
  - What is in place today?
  - Any specific challenges that were overcome?
  - Any specific challenges that remain?

- Future of NASPI / Formation & Structure of the Task Team
  - Group still voted on two WG meetings per year
  - Much of what this group is involved in will always be evolving
  - Investigate collaboration tools / Augment monthly calls

Thank you for participating!