

## Performance and Standards Task Team

- **Task Team Leader:** Vahid Madani/PG&E
- **Task Team Co-Leader:** Damir Novosel/Quanta Technology
- **Task Team Support:** Henry Huang/PNNL
- This task team comprises > 140 members (>40 Active)

## Highlights

- The scope of the Performance and Standards Task Team includes coordinating and acting as liaison to standards efforts and determining consistent and satisfactory performance of synchronized measurement devices and systems by creating guidelines and reports in accordance with best practices.
- PSTT (formerly PRTT) has been active in developing guidelines and requirements documents to serve NASPI needs. The scope of the documents covers a wide spectrum from PMU testing to phasor network deployment to phasor applications.

# Review of PSTT Activities Related to NIST

## Items for Special Focus:

- On critical path
- Require focused resources to speed up and reach the target
- Coordination and Industry Involvement: IEEE, IEC, CIGRE
  - PSTT membership is involved in the above

3	Define certification of PMUs	Develop white paper	November '10	High	Jerry Stenbakken
4	Integration of IEC 61850 and C37-118	Documents developed; Incorporated in the Standard	March '11	High	Alex Apostolov Christoph Brunner
5	Phasor Data Concentrator Requirements	Develop specification or use existing one	December '10	High	Tony Weekes
6	PMU-PDC/PDC-PDC Communication Methods	Develop a guide to be used by and coordinated with <b>IEEE and IEC</b>	March '11	High	Henry Huang
7	Phasor Data Concentrator Testing and Verification Standard	Develop a guide to be used by and coordinated with <b>IEEE and IEC</b> to develop a standard	March '11	High	Mladen Kezunovic

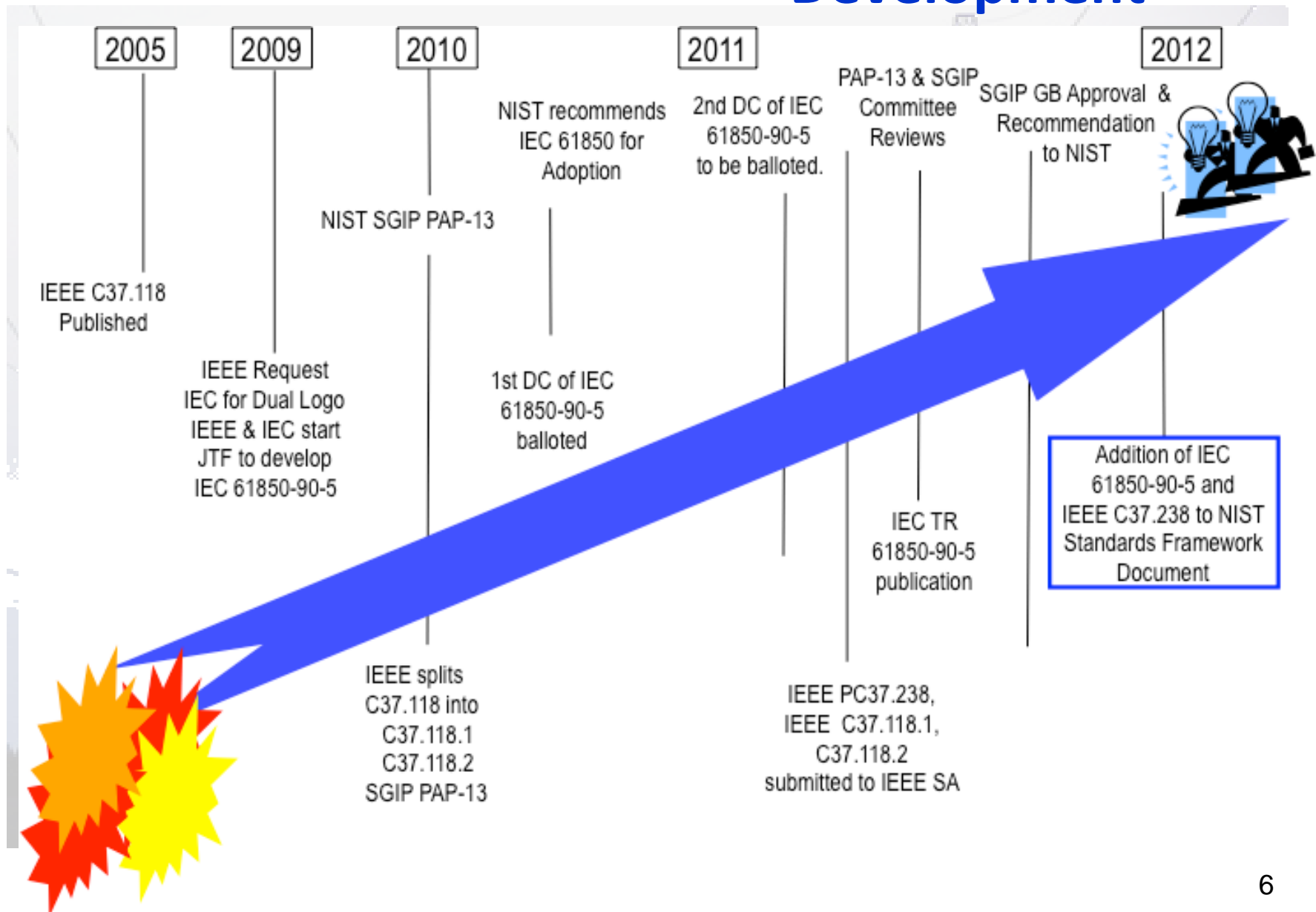
## NIST Activities Related to the Support of PSTT

- NIST Support of PAP 13 and NASPI – extension of NIST Synchro-metrology lab
- Two contracts awarded by NIST to support PAP13, PMU, PDC work:
  1. ESTA and Quanta Technology
    - Extension of PMU testing facility, and developing recommendations
  2. IPKeys and Quanta Technology
    - Support NASPI PSTT and NIST to develop extended PMU-PDC and PDC-PDC communication methods and protocols
    - Additional support for requirements, testing and certification approaches, and calibration and test guideline for PMUs and PDCs
- Discussion of other topics NIST can help PSTT; e.g:
  - Overall engineering process
  - Development of PDC standard(s)

## Accomplishments Since Last Meeting

- PDC Requirements and Specifications
  - PDC Functional Requirements: draft completed and reviewed
  - PMU/PDC Communication Guide: draft completed and reviewed
  - PDC Testing Guide: outline completed and development ongoing
- Initiated an IEEE process to bring PDC documents to standards
- IEEE 37.242: Synchronization, Calibration, Testing, and Installation of PMUs (PSRC WG C5)
  - Based on three previous NASPI documents
- Support C37.118-2 and IEC 61850-90-5

# Timeline for Standards Development



# Summary of PSTT Activities and 2010 Goals

