



Scientific Tools for Advanced Synchrophasor Data Analysis

SCISYNC

analytics



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Challenges with Stored Data

- Lots of real time application for Synchrophasors
- Lots of discussion on storage solutions
- What Then?
 - Data is stored for years
 - Some known events are used over and over
 - Most data is never retrieved



Unrealized Potential:

Test new analytics
Configure alarm thresholds
Validate models

Evaluate protection

Analyze stability

Review frequency

response

Develop operator training

scenarios

Monitor asset health

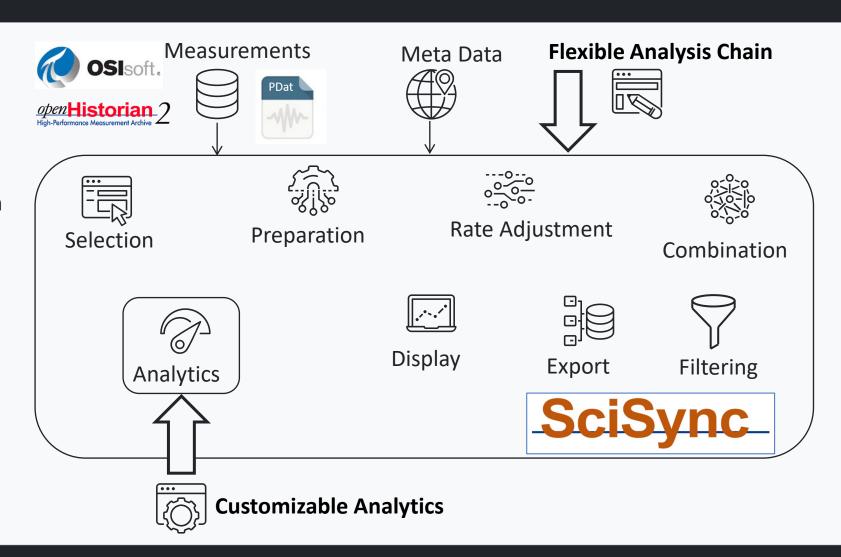
Train machine learning

models



SciSync

- SciSync is open-source software for extracting value from archived data
- Support myriad applications
- Analysis chain is user configurable
- Users' analytics can be integrated with relative ease
- Leverages existing Synchrophasor archiving infrastructure
- Enables offline tasks:
 - Model validation (NERC MOD-026-1 and MOD-027-1)
 - Frequency response analysis (NERC BAL-003-1)
 - Stability analysis (NERC IRO-002-6)





Frequency Response Analysis





2023 Release

- We are still looking for Beta Testers
- Benefits for Beta Testing to utilities
 - GPA to provide no-cost support until 04/2023
 - OSISoft and GPA to closely work together for supporting customers with PI Systems
 - GPA and PNNL to provide targeted "value added" webinar
- General Release early 2023

