


PingThings

Performance Test and
Partnership
Announcement



PredictiveGrid™
Overview
September 2023

Vendor Talk Agenda

1. Company Overview
2. PredictiveGrid Platform
3. GPA Partnership
4. Benchmark Platform

PingThings Overview

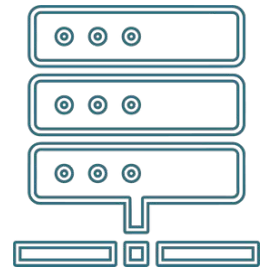
- Purpose built to tackle 21st century grid challenges and the energy transition
- Unifying sensors and operations and analytics
- Talent from across Silicon Valley
- Profitable
- Backed by a multi-billion dollar strategic
- Led by team that has built 7 companies



PredictiveGrid™ Time Series Platform

Enabling the Future of Energy

Data



Handle Time Series Data

Ingest, store, access, fuse and visualize time series data where others can't

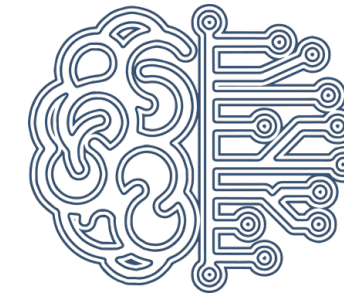
Analytics



Unlock Analytics at Scale

Realize previously-impossible engineering and industrial analytics at scale

AI



Train and Use AI

Leverage vast, untouched data to train machine learning models for next generation use cases

Applications



Build and Deploy Apps

Transform your data into business value by easily building applications with your data.

Ingest

Store

Query

Analyze and Process

Learn

Digitally Transform

PredictiveGrid™ Platform

Data Sources

- Data Concentrator(s)
- Historians
- IOT/Devices
- Sensors
 - PMU
 - AMI
 - SCADA
 - Power Quality
 - IEDs
 - DFR
 - Point on Wave
- Weather
- Environmental

Secure Firewall and VPN

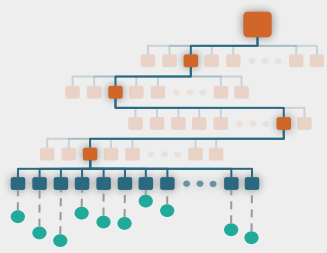
Streaming

- C37.118
- STTP
- IEC61850
- Mod Bus
- DMP3

ETL

- PQ DIFF
- Comtrade
- CSV
- Parquet

Ingest System



Time Series DB



Topology



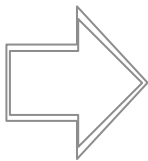
Metadata



Geospatial

System Context

Storage & Query



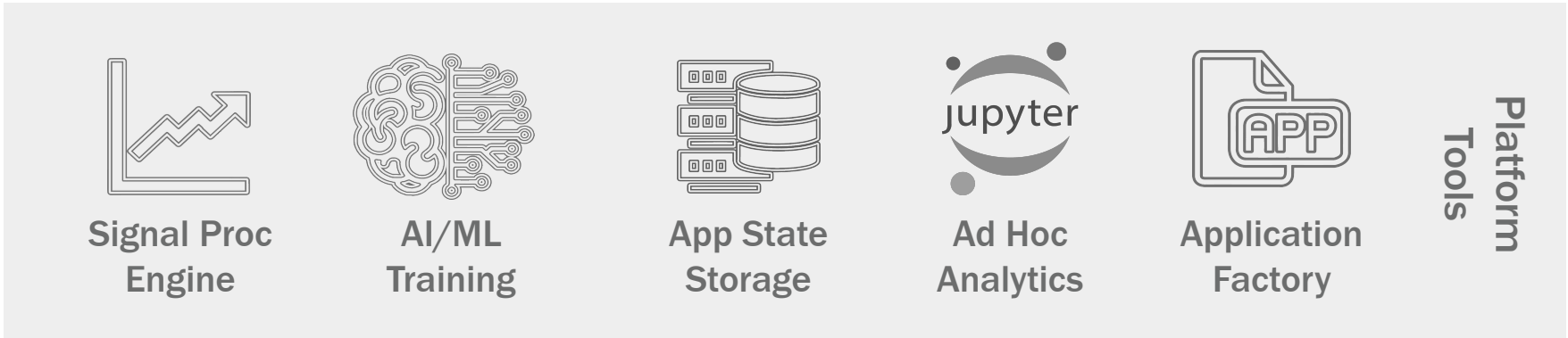
Real Time
API



All Time
API



Secure Application Enclave



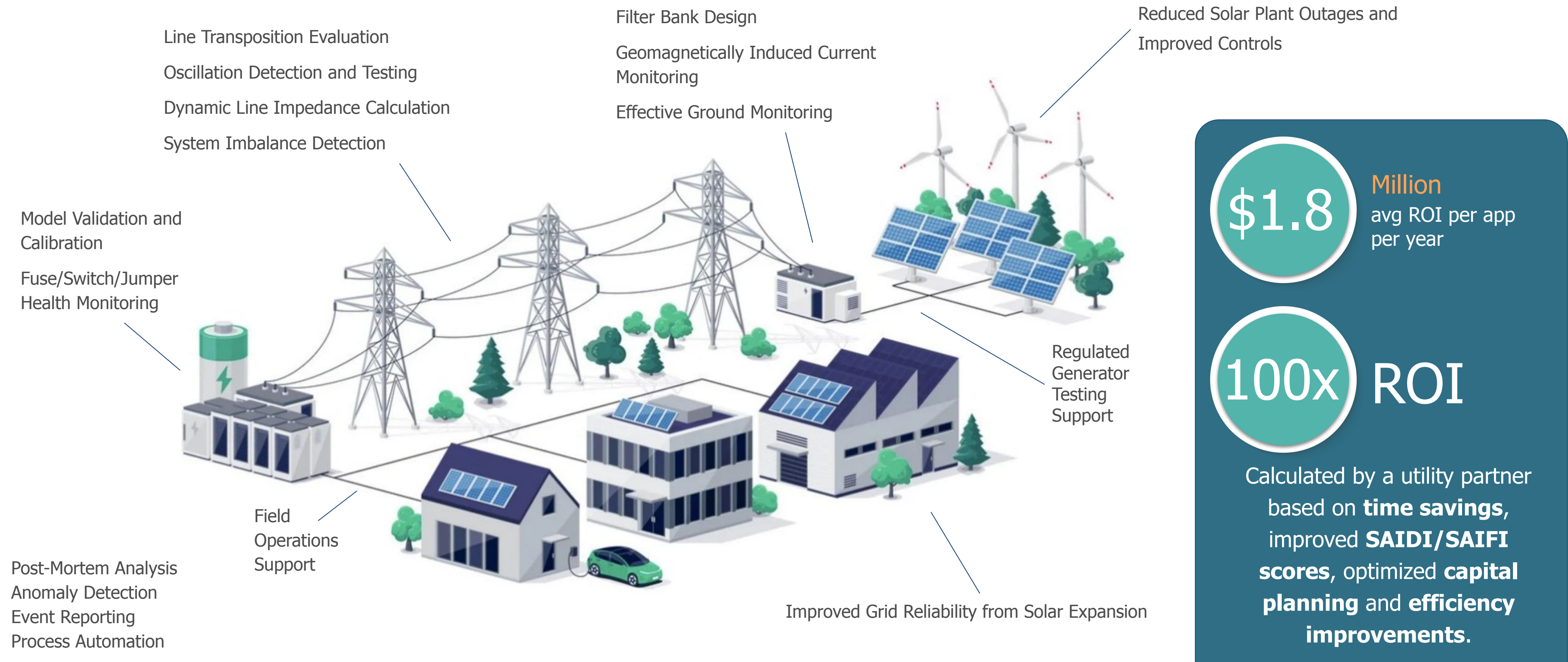
Applications, Analytics, and AI

Containerized, secure, scalable, and reliable - deployed on:



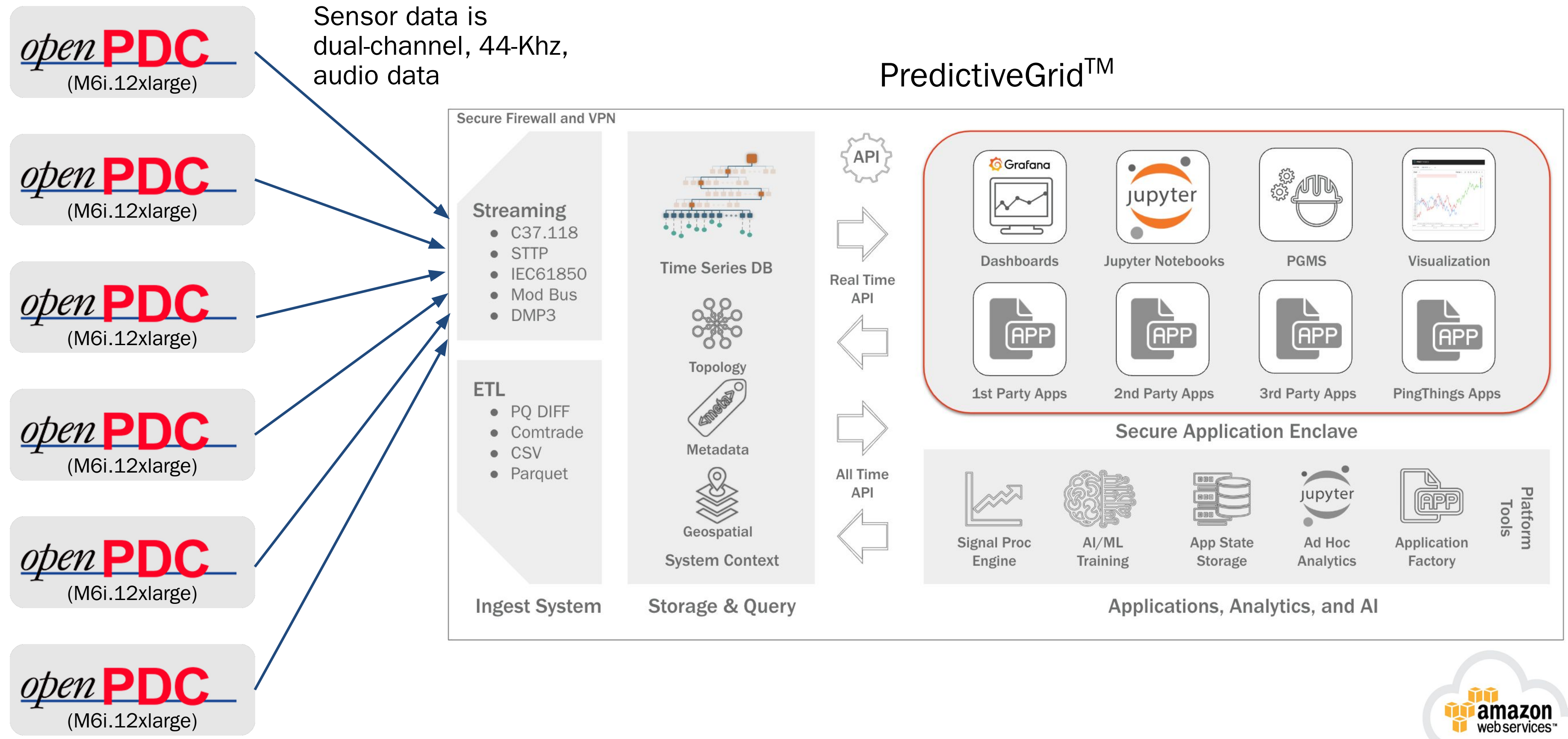
Transmission PMU Use Cases

Dozens of use cases, hundreds for your team to uncover



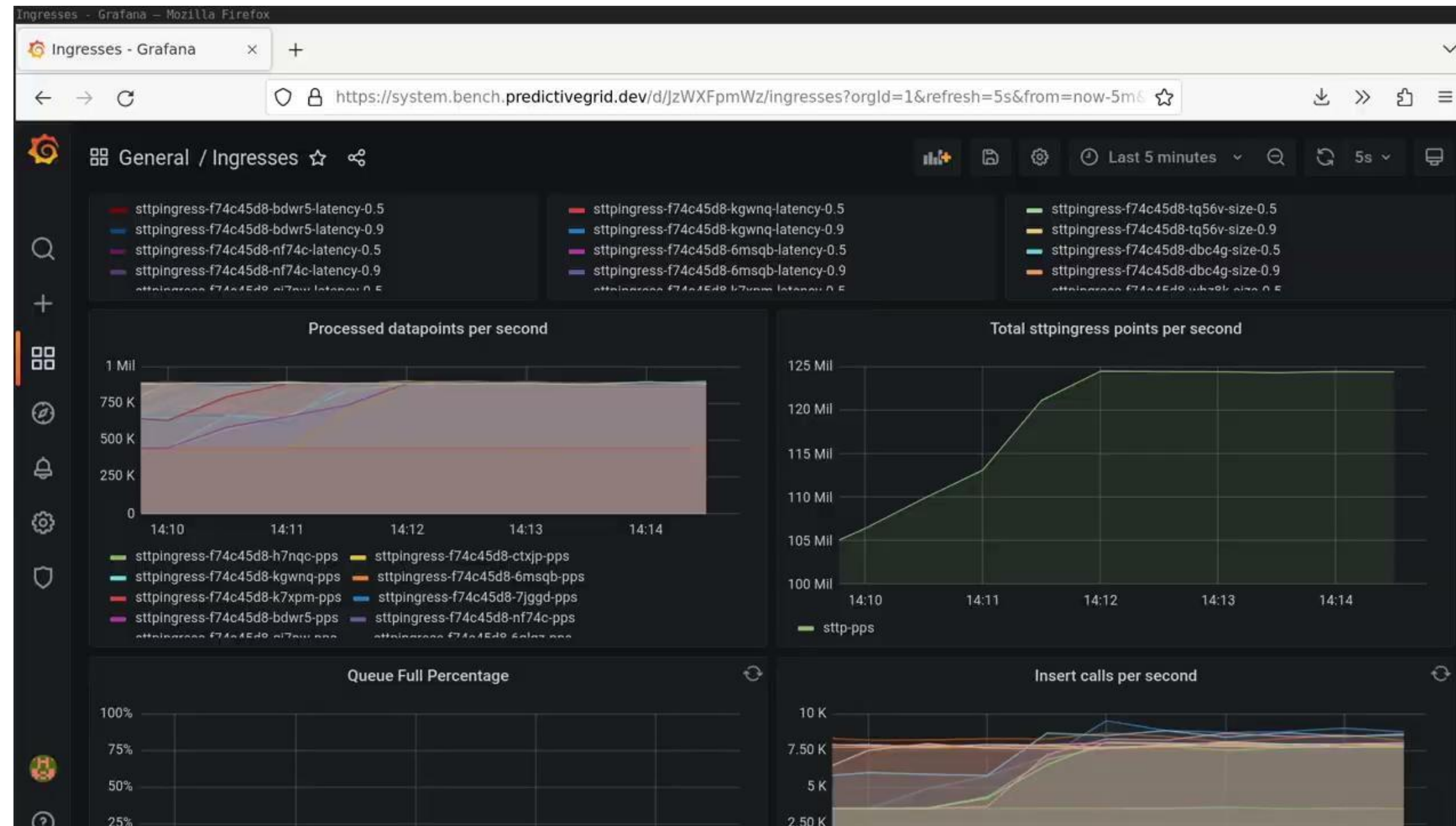
- Technology startup + respected, unbiased industry partner working together to advance electric utilities
- Silicon Valley tech know how combined with extensive grid and power systems expertise
- 20+ years helping utilities
- 5+ years of real-world collaborations for utilities
- STTP is a great example
- Stronger and larger together

Demo System System Diagram



120M+ PPS Sustained, No Data Loss

Equivalent to 200,000 PMUs @ 30Hz with 20 channels



PingThings NASPI Team

PingThings



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Technical Project Management
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