

When sources disagree, what can you rely on?

A data feed stops updating. Another conflicts with the rest. The person making the decision needs to know what is still usable—and why.

PTEM Labs builds software that shows the evidence behind an assessment. Users can trace information to its source and replay past results. The aim is to help people know when to trust a result—and when to question it.

DIFFERENTIATORS

An answer you can check—not just a combined display.

PTEM keeps the original data separate from the assessment and displayed result. Missing or conflicting information stays visible. New methods are tested against simpler alternatives before adoption.

CORE COMPETENCIES

Data pipelines. Ingest historical and newly arriving records, retaining source identity and when each record became available.

Containerized software. Develop Docker-based processing workers and repeatable build configurations.

Cloud infrastructure. Use AWS and Terraform to define compute, storage and scheduled processing workflows.

Reproducible analytics. Retain input and software versions so results can be replayed and checked.

Review applications. Build browser interfaces and APIs for inspecting data and assessments.

Automated verification. Use schema, regression and integration tests to check inputs, software changes and releases.

RELEVANT INTERNAL R&D

Hurricane data capture. Built versioned historical datasets and supervised capture of new hurricane records, preserving raw snapshots and availability times.

Cloud processing and run controls. Developed Docker-based batch workers, AWS/Terraform configurations and pre-run checks for cost estimates and permitted work.

Observatory replay applications. Built browser interfaces and APIs for exploring historical hurricanes and reviewing descriptive results.

Navigation decision support. Built an assured positioning, navigation and timing (APNT) prototype with three simulated source families, assessment tests and an operator display. Recommendations are demo examples.

DEVELOPMENT & DELIVERY STATUS

These examples are internal R&D, not government contract performance. The navigation prototype has not been validated for operational use or measured operator benefit. Customer-specific integration, deployment and cybersecurity readiness require separate qualification.

COMPANY DATA

PTEM Labs LLC | Small business
Florida LLC | Established 2026
Nathan Howell | Founder & Architect
SAM.gov: All Awards | Expires 10 Sep 2027
Certifications / vehicles: None claimed

PERTINENT CODES & STATUS

UEI: VMU3F9BTAF59 | CAGE: 257N7
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