

Artificial Intelligence at NPPD



NPPD Board of Directors Meeting **STRATEGIC SESSION**April 2025



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Where are we?

- Artificial Intelligence (AI) Governance Committee
 - Executive Sponsorship
 - Al Process Sub-Committee
 - Al Education Sub-Committee

NPPD's Vision

- We are a premier energy provider bringing the best of public power to Nebraskans, powering everyday life and a brighter future.
 - Leveraging technology to tackle relevant problems.
 - Creating a safer work environment for our teammates.
 - Creating a more efficient organization for customers and teammates.
 - Utilizing technology to deliver timely and outstanding customer service.
 - Focusing implementation on the delivery of reliable, low cost, and sustainable energy.

Where will we see Al?

- Generative AI: Generates new content (text, images, videos)
 - ✓ Microsoft Copilot, Google Gemini, ChatGPT, etc.
- Embedded AI: Vendor-built AI to enhance new/ existing applications
- Build Your Own AI (BYOAI): Custom-built by NPPD

How do we stay safe?







- What data is being used?
- Who can access the data?
- Where is the data going?
- What happens to the data?
- What data is coming back out? Human Guardrails

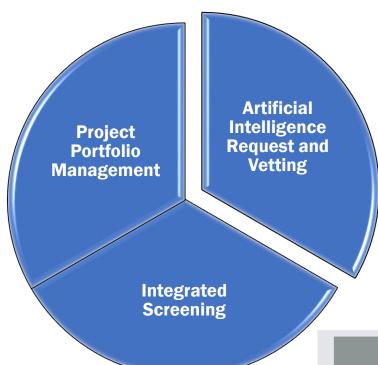
Data Classification

Data Security

Data Loss Prevention

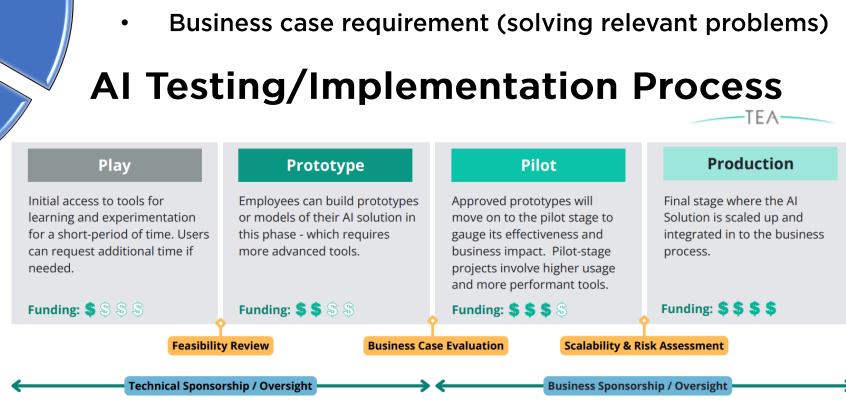
Contractual Guardrails

Process



Al Request Process

- Incorporate into current decision-making and prioritization frameworks
- Required training and education as a prerequisite



Education





"Adopters"

Sponsors of projects that include the adoption/enablement of an Al solution

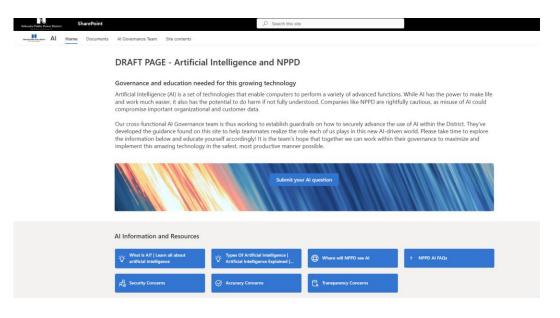


Tiered Approach

- Annual requirement incorporated with current training
- Depth of information aligned with responsibility

Internal Website

- Home of Al governance documents
- Articles, case studies, and additional educational resources



In-progress work



Al Governance Committee

Cross-functional NPPD from different business units tasked to help build strategy, approach, and guardrails for use of AI across the District.



Policy and Procedure Subcommittee

- Acceptable Use Policy
- Al request process
- Al vetting process
- Al implementation process



Training and Education Subcommittee

- District-wide training
- Leader training
- NPPD AI SharePoint.

Current Al Pilots and Projects

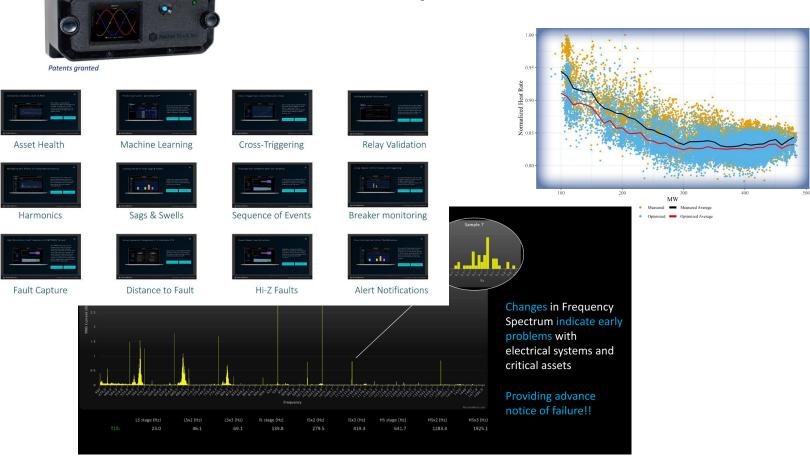
Drone Program

Line/Structure Inspections

Vegetation management models

Smart Sensors

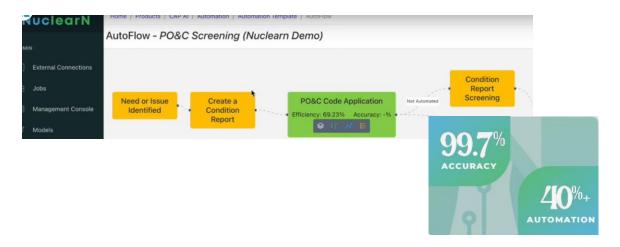
- Reliability and maintenance detection
- Emission Optimization



Current Al Pilots and Projects

NuclearN Corrective Action

- Trained models for automation of Corrective Action Screening process.
- Improves all facets of workflow efficiency from assignment of issue to resolution, trending, and regulatory impact screening.

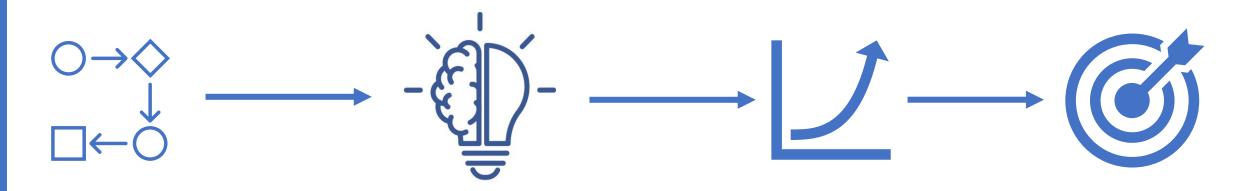


Cyber Security

- Al models trained on decades of cyber attack data.
- Enhanced threat detection.
 - ✓ Recognizes subtle patterns and anomalies.
- Faster response.
 - √ Organizes the priorities.
- See what human eyes cannot see.



What comes next?

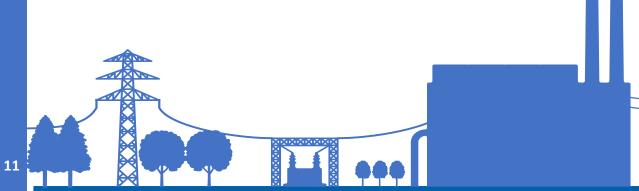


Development of a framework for the exploration and implementation of Al

Understand problems and goals

Deploy with a focus on productivity

Solve real problems







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Questions?

Stay connected with us.







