



# NRC's AI Journey

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# VISION

To responsibly leverage artificial intelligence in support of the NRC's mission, empowering staff to efficiently make risk-informed decisions, drive regulatory innovation, and protect public health, safety, and the environment.



# How AI supports the NRC Mission



**Enhancing Decision-Making**



**Increasing Efficiency**



**Strengthening Regulatory  
Oversight**



**Fostering Innovation**



**Supporting Public  
Confidence**

# Where can AI support NRC Processes



# NRC's AI Evolution

Launched discovery of potential AI use cases with broad staff engagement.

Began building technical and programmatic foundation to enable AI adoption.  
Curated data sets made publicly available.  
Delivered the first internal AI Tool, SimplifAI.  
New NRC AI Strategic Plan.

2023

2024

2025

2026

Developed a plan to put an enterprise-wide AI strategy framework in place.  
Established an initial governance structure.

Expand AI and data solutions to enhance acceptance reviews, licensing, inspections, and mission support.



# 2026 Activities

- Expanding **curated data sets** for internal and external use
- Updated **ADAMS Public Search** (APS) and **full-text API** to be released at the end of October
- **Adoption** of AI underway at NRC to
- Strengthening **cybersecurity** to protect AI Systems
- Implementation of the **Acceptance Review and Portal** Use Case
- Pilot **AI Agents**



# Looking Ahead

- Strengthening partnerships
- Collaborating with other federal agencies
- Visit NRC.gov/AI for the latest updates

