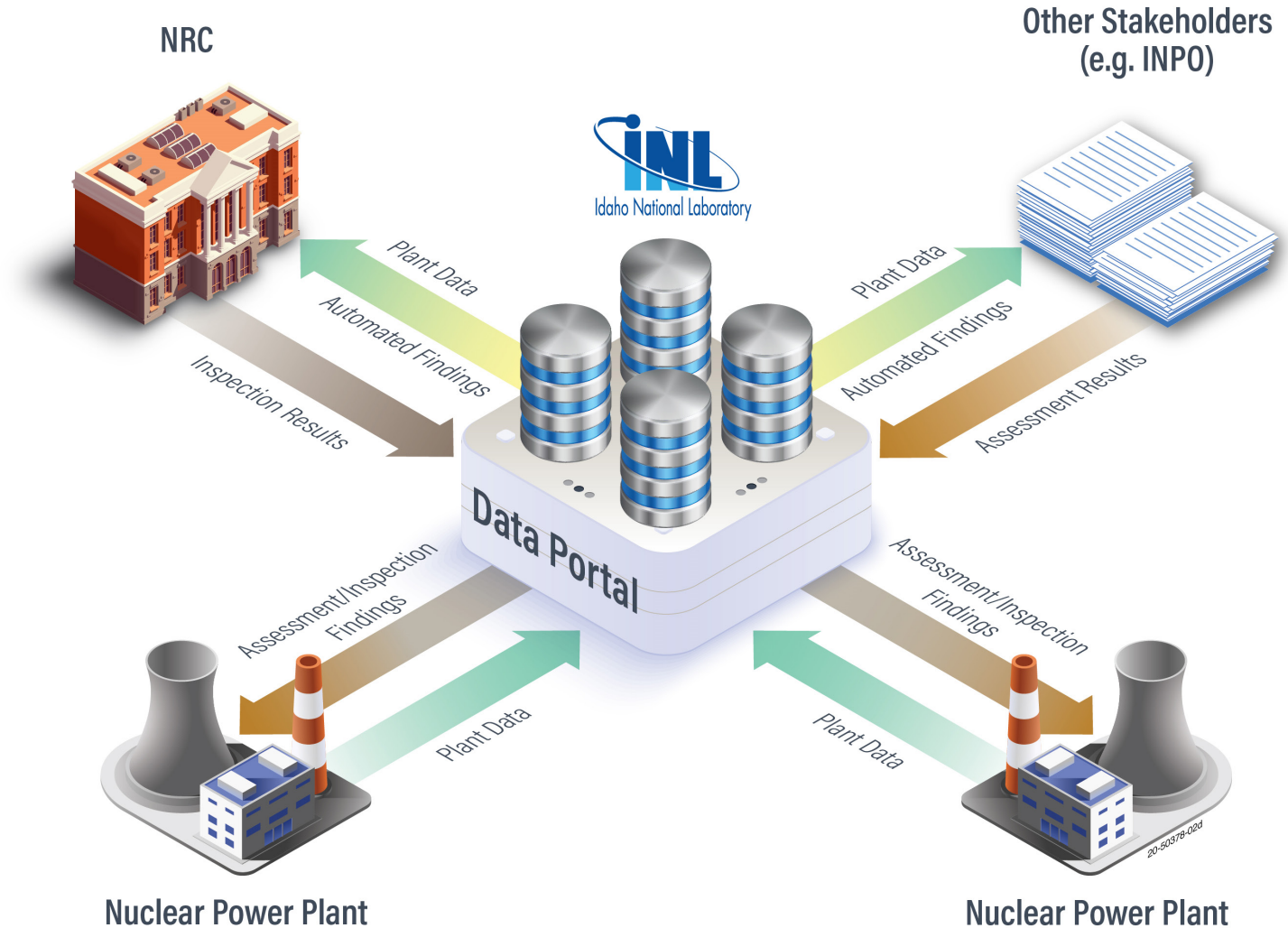**Xcel** *Energy* ®

PILOT DEMONSTRATION OF DATA PORTAL FOR NRC INSPECTION PREPARATION

Vision for Data Portal

- **Used in parallel with Focused Self Assessment for upcoming NRC Problem Identification and Resolution (PI&R) inspection at Monticello**

- **Information incorporated in the portal included Corrective Action Program documents, work requests and work orders**

Curtesy of INL; LWSR Report "Potential Findings from the Self-Assessment at the Monticello Nuclear Generating Plant

Benefits / Limitations Identified

1. Comprehensive Review through Portal

   - FSA traditionally utilized a representative sample approach; potential unidentified regulatory vulnerability

   - Portal can consume all CAP data and then allows FSA to focus on outliers through comprehensive review

		Machine Prediction	
		CAQ	NCAQ
Human Prediction	CAQ	1xxx	2xx
	NCAQ	xxx	45xx

2. 'Black Magic' of AI and Building Trust

   - Significant work will be required to validate the results provided by the portal to build end-user trust

3. Portal is not Direct FSA Replacement

   - Portions of inspection manual require interviews; review of closure notes, etc.

Next Steps / Future Vision

1. Expand *Use* of the Portal with Xcel Energy

   - Use for data validation through FSA review and upcoming NRC inspection

2. Evaluate FSA process for *Efficiencies*

   - 'Continuous' review versus a focused week with sequestered team

   - Ability to identify / correct issues when identified via the portal (i.e., CAQ / NCAQ)

   - CAP Generation Rate trends compared to industry

3. *Validation* of Portal AI Algorithms Based on Regulatory Vulnerability

   - Select target algorithms to review based on available resources to build confidence in portal results while preparing for inspection

QUESTIONS?

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