

Los Alamos National Laboratory Advances Scientific Data Discovery with Progress Federal Solutions

AT A GLANCE



Challenge

At Los Alamos National Laboratory, decades of decentralized scientific data creation resulted in inconsistent or missing metadata across systems. Researchers struggled to discover and reuse critical technical information, limiting collaboration and slowing research due to the absence of standardized metadata practices. To address these issues, the organization began searching for an enterprise solution capable of standardizing metadata across diverse systems while supporting secure, large-scale scientific data discovery.

“Historical data needs a place, and the NSDS (National Security Data Solution) is that place thanks to our partnership with Progress.”

Michael Ham,
Director of Mission Data Stewardship Alliance
Los Alamos National Laboratory



INDUSTRY

Public Sector/
Federal

PRODUCT

Progress® Data Platform,
Progress® MarkLogic

COUNTRY

USA

SUMMARY

Los Alamos National Laboratory, a U.S. Department of Energy laboratory supporting national security research, needed to improve access to scientific and technical data stored across siloed repositories. Using the Progress MarkLogic solution to harmonize and standardize metadata, the laboratory established a scalable foundation for discoverability, governance and enterprise-wide data reuse.

Solution



Leveraged the MarkLogic solution, a core part of the Progress Data Platform, to centralize and harmonize metadata



Enabled flexible metadata models supporting standards, controlled vocabularies and evolving research requirements



Delivered enterprise governance with consistent metadata management across systems, teams and repositories

Results



Accelerated data discovery and retrieval through centralized metadata, increasing research throughput and reducing redundant analysis



Expanded utilization of historical datasets via ongoing ingestion, OCR and enrichment, maximizing the value of existing data assets



Standardized metadata across systems, reducing integration complexity and lowering operational overhead for data management and governance



Modernize and govern mission critical data with Progress Federal Solutions.