

Elevating Nuclear Weapon Quality

Data Curation Strategies for Unstructured Data

Jason Ehrich, Data Analyst for NNSA Weapon Quality Division



Agenda

- Unstructured Data
 - NNSA Weapon Quality Division
 - Nonconforming Material Reports
 - Data Lifecycle Planning
 - The Updated Data Lifecycle
 - Advancements and Lessons Learned





Unstructured Data

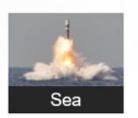


NNSA Weapon Quality Division (WQD)

The three legs of the U.S. nuclear triad serve as the backbone of America's national security. The triad, along with assigned forces, provide 24/7 deterrence.







NNSA Defense Programs

Office of Stockpile Management (NA-12) directs and oversees all stockpile design, development and production activities

Office of Stockpile Management

The Weapon Quality Division (NA-121.3) establishes policies, requirements and plans, to ensure the effective implementation of quality assurance requirements for weapons and weapon-related products.



Weapon Quality Division





Track
"Nonconforming
Materials"

Analyze Trends

Improve Business Processes



Nonconforming Material Reports Previous Methodology

WQD Mailbox

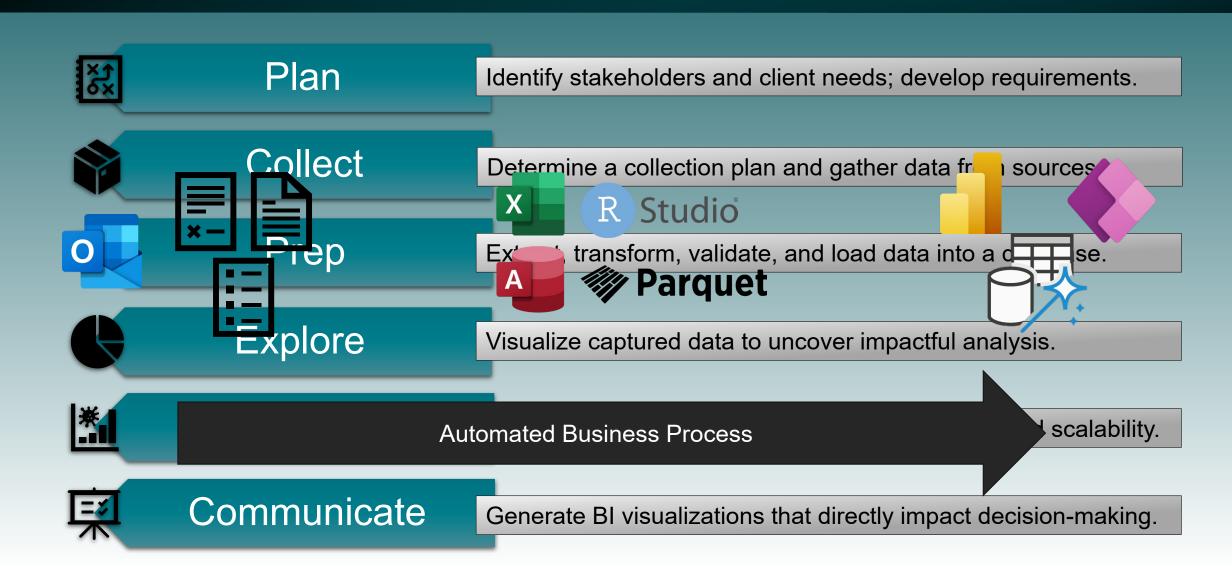


Different PDF Formats

Slides serving as Data Storage



Data Upstaded Datarhisegycle



Advancements and Improvements

Keyword Search

Relational Database

Part Nomenclature Documentation

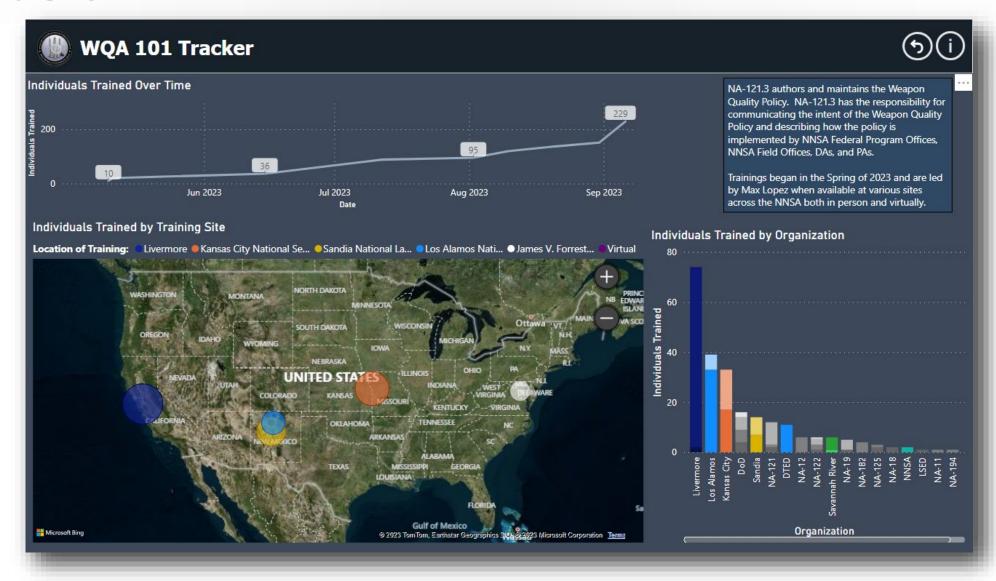
Visualize Flow of Parts

Ease of Use

Accessibility

Traceability

Conclusion







Thank you.