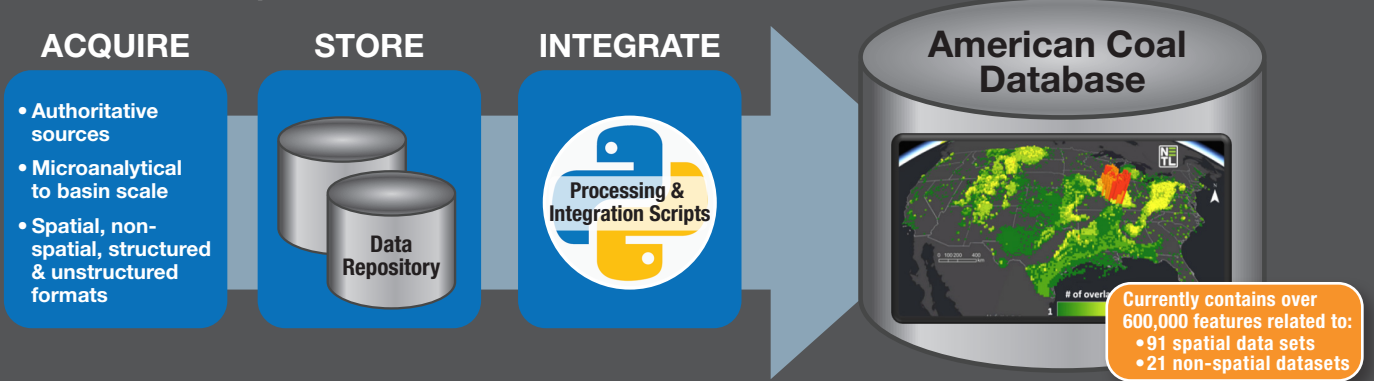




The American Coal Database (ACD) and Virtual Beneficiation Platform (COAL DATA) is designed to optimize coal sources with consumer needs and identify key coal properties for end products.

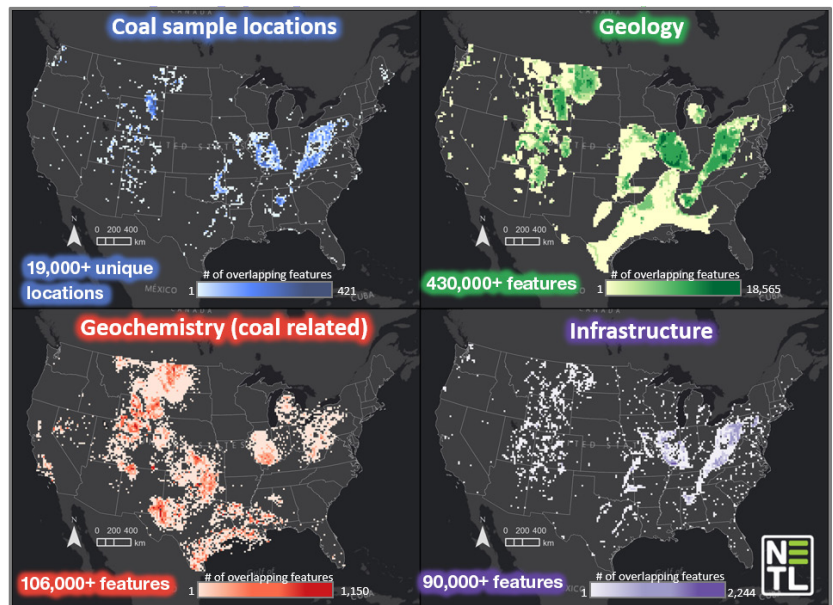


ADVANTAGES OF COAL DATA

- Provides coal property, geochemical, and infrastructure data to coal producers and consumers
- Virtual beneficiation platform architecture enables connection between ACD and NETL developed machine learning (ML) capabilities

R&D ACTIVITIES

NETL is working to fill in key data gaps, using ML to find and transform data from challenging sources and improve the ACD to meet the needs of coal consuming power generators, industries and researchers.



CHALLENGES

- ✓ Standardizing data
- ✓ Providing a secure platform to store and access data
- ✓ Identifying new value streams

RESULTS AND ACCOMPLISHMENTS

- The American Coal Database (ACD) is available for download on the EDX website
- The ACD is constantly evolving as new data and information are incorporated
- Machine learning methods improve ACD quality through data gap analysis and mitigation



THE VIRTUAL RESOURCES OF FOSSIL ENERGY
EDX is the Department of Energy (DOE)/Fossil Energy's (FE) virtual data collaboration and curation platform for data-driven technology development. Developed and maintained by the National Energy Technology Laboratory (NETL), EDX both publishes and curates research products to enable technology transfer while supporting secure, private, multi-institution collaboration for ongoing research projects.

Why Energy Data eXchange?

- To acquire and preserve energy data products, data, and tools
- To enable researchers from multiple organizations to share, build, and collaborate
- To disseminate data, information, and results from DOE's FE research portfolios
- To share and publish online submissions and data products

EDX SUPPORTS THE ENTIRE DATA LIFE CYCLE