

## 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



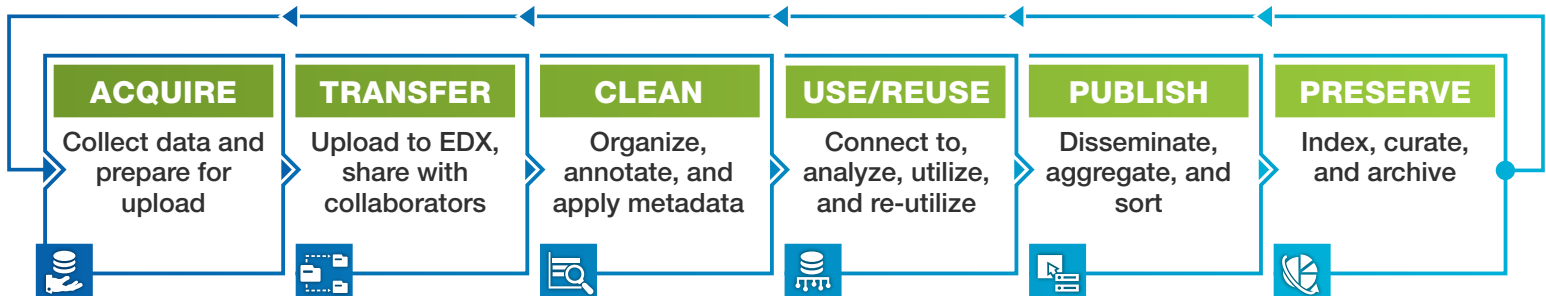
To disseminate data, information, and results from DOE's FE research portfolios



To share and publish online submissions and data products

## EDX SUPPORTS THE ENTIRE DATA LIFE CYCLE

Find, Connect, Curate, Use & Re-Use Data to Advance Fossil Energy, Environmental, & Innovative R&D



### EDX BENEFITS

- Preserves over \$20 billion in research products
- Enhanced capabilities to support researchers and research teams
- Improving research efficiency by rapidly connecting teams with relevant resources to drive technological breakthroughs

### Enduring Access to FE R&D Products

- Adherence to DOE Cyber Security Policies
- Ensures enduring access to federally funded research products
- Providing research authors with registered citation for each R&D product
- Improving discoverability of research products to accelerate future reuse

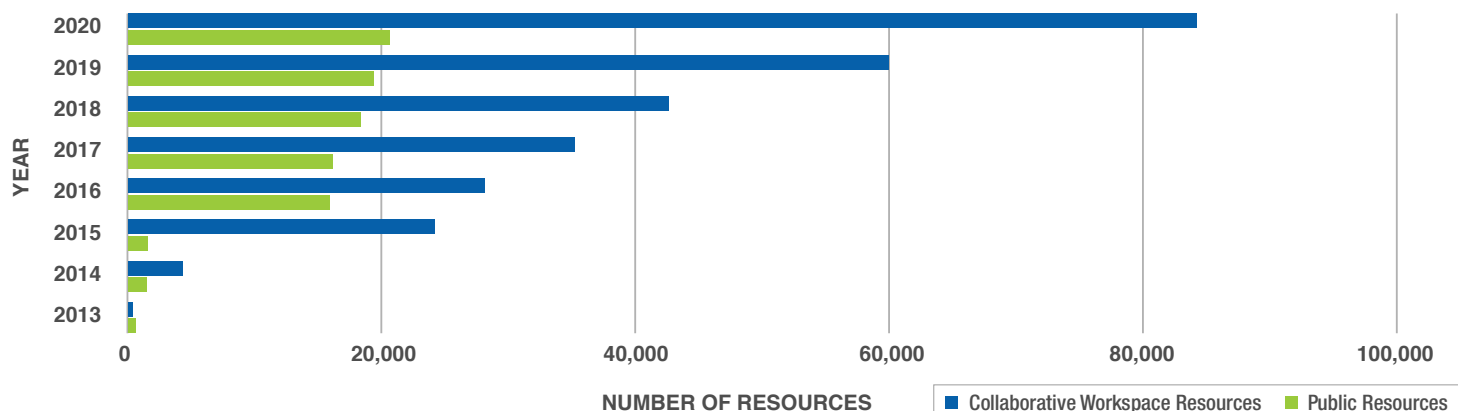
### Supports & Virtualizes Ongoing R&D

- EDX supports the life cycle of R&D
- Private sector aligns with DOE policies and protocols
- Virtualizes multi-entity team workspaces to support scientific data-driven needs

# DATA CURATION

## TOTAL PUBLIC RESOURCES

Over 20k resources and 800 collaborative workspaces



1

Over 2.1M downloads since 2013

2

Follows the standards of DataCite, FAIR Data Principles, and CODATA

3

EDX offers products with a full Datacite.org formatted citation, including DOI number, and ensures long-term preservation of the data

## EDX RESOURCES

Connected with:

**OSTI.gov**  
Primary search tool for DOE

**Re3data.org**  
Registry of Research Data Repositories

**DataCite.org**  
Leading global provider of DOIs for research data

**OpenEI.org**  
Open energy information, data, and resources

**Data.gov**  
The US Government's open data

### EDX Hosted FE Resource Examples:

**eXtremeMAT**

Materials for Extreme Environments



Offshore Risk Modeling Tools & Data



Web Mapping Application for FE Spatial Data Collections



Subsurface Geologic and Wellbore Information



Simulation Tools for Phase I Testing by CCS Research and Industrial Communities

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