FuncX in NIH's Common Fund Data Ecosystem (CFDE) Portal

Lee Liming Director, Professional Services Globus @ University of Chicago lliming@uchicago.edu



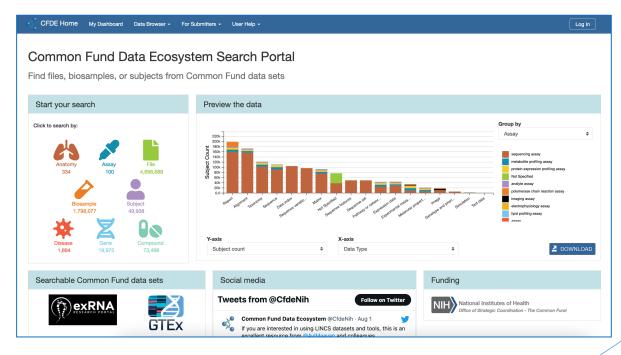


NIH Common Fund Data Ecosystem (CFDE)

- ► The Common Fund Data Ecosystem (CFDE) is an attempt to standardize, simplify, and enhance researchers' experience with NIH's Common Fund data, much like...
 - ► NASA EOS portal (Earth observational data)
 - USGS ScienceBase (geological data)
 - ► ACCESS (NSF supercomputing centers)
- ▶ NIH's Common Fund sponsors several dozen big programs (each with dozens of individual awards) that produce valuable medical data.
 - ► Each program has one (or more) **Data Coordinating Centers (DCCs)** that collect and manage the data from the all the projects in the program.
 - ► Each DCC is essentially a data silo.

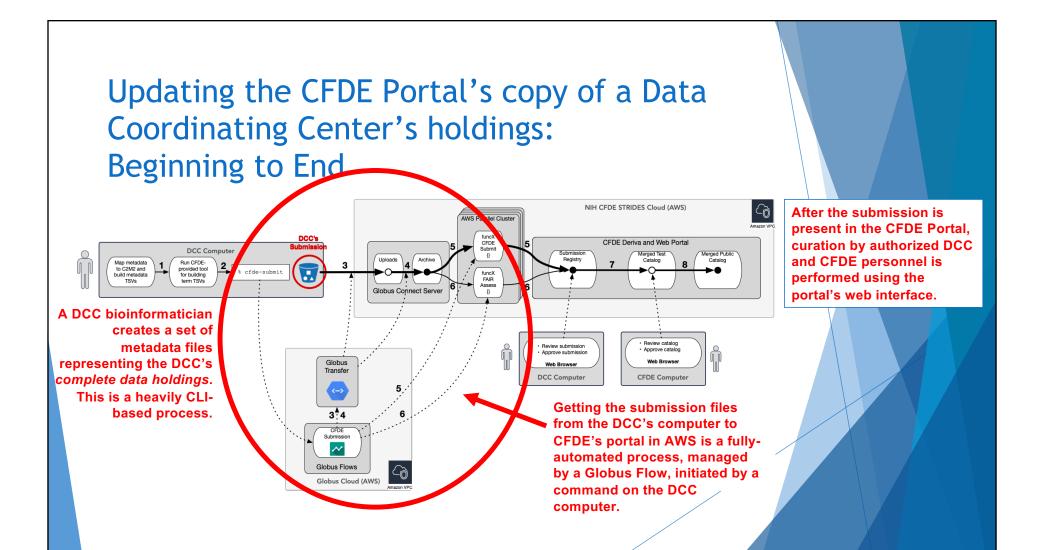


CFDE Portal - Discover data from the NIH Common Fund



...but how does CFDE know what each DCC has?

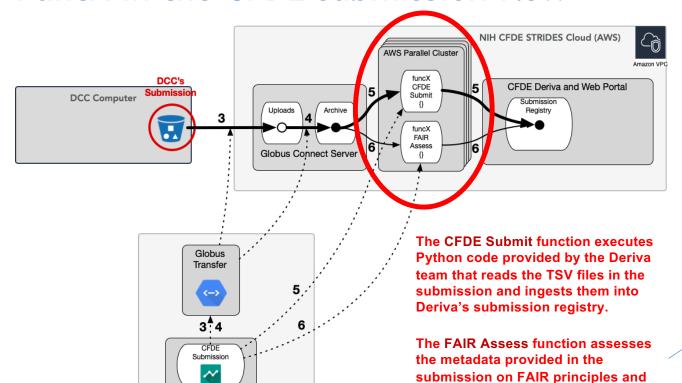
https://app.nih-cfde.org/



FuncX in the CFDE submission flow

Globus Flows

Globus Cloud (AWS)



adds the resulting metric scores to

by reviewers.

the submission in the registry for use

Both funcX functions are memory-intensive, and submission traffic is bursty around submission deadlines, so we use an AWS ParallelCluster to handle multiple submissions in parallel if needed and avoid paying for idle resources.