

Campus Research Data Services

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“I need a good place to store / backup / archive my (big) research data, at a reasonable price.”



Campus Store



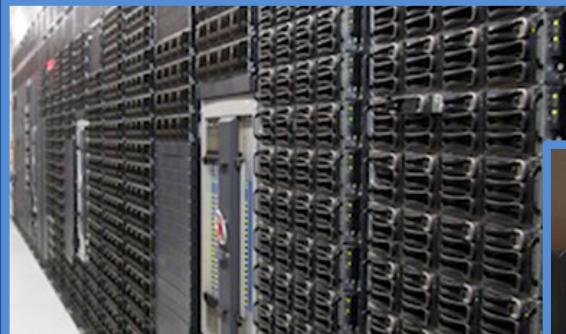
Mass Store



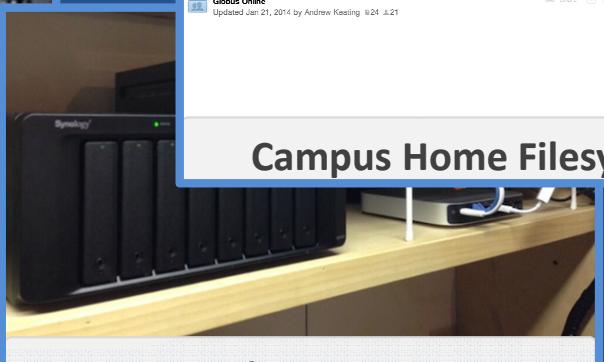
Public Cloud Archive



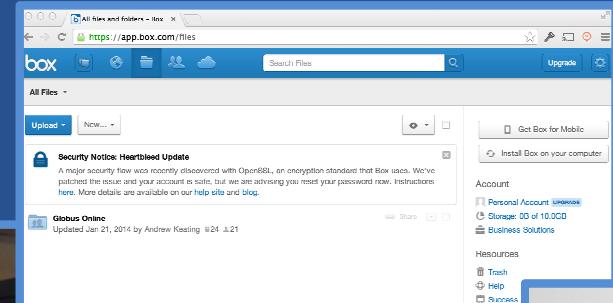
“I need to easily, quickly, & reliably move or mirror portions of my data to other places.”



Research Computing HPC Cluster



Lab Server



Campus Home Filesystem



Personal Laptop



Desktop Workstation



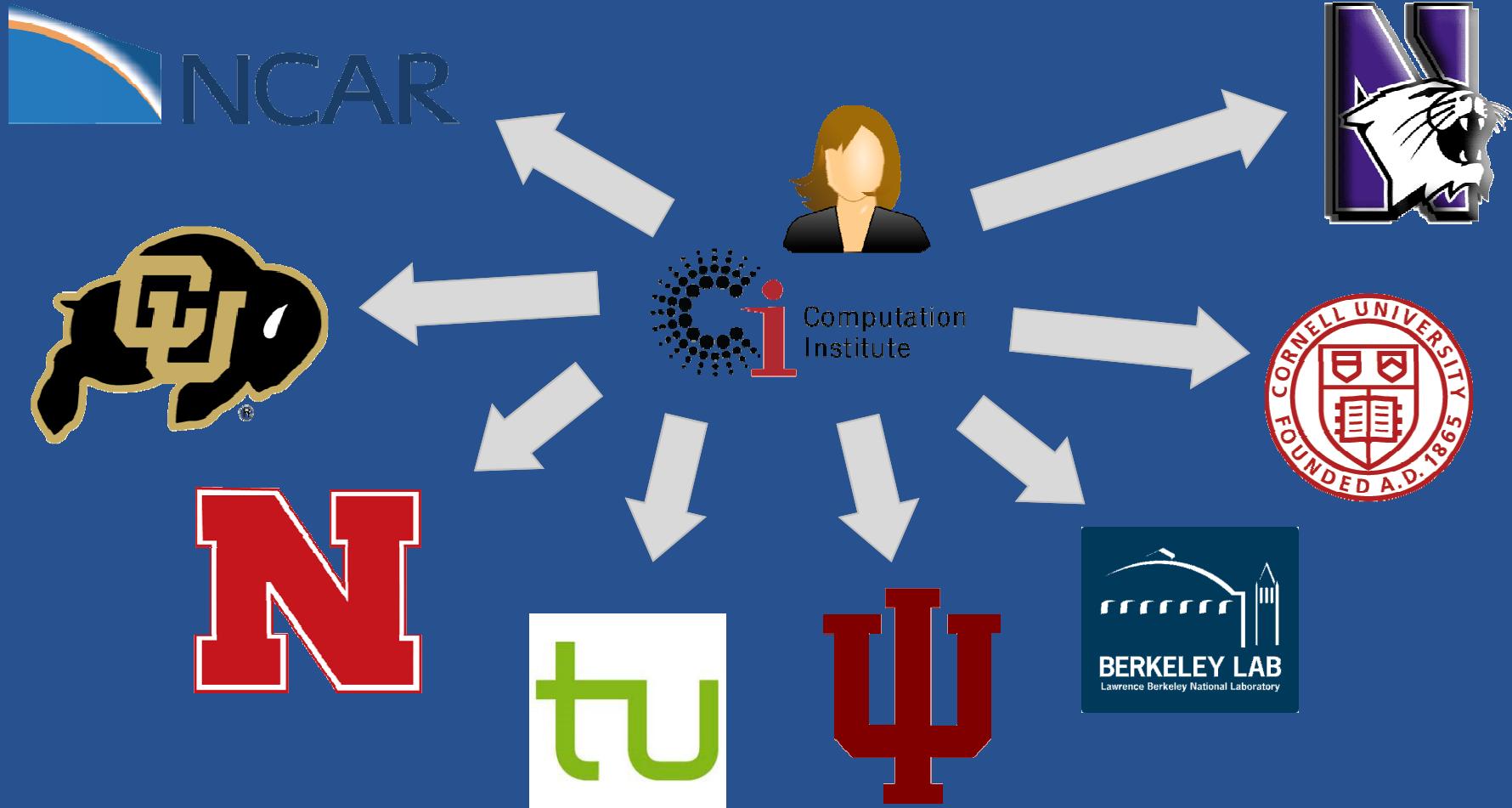
XSEDE Resource



Public Cloud



“I need to easily and securely share my data with my colleagues at other institutions.”



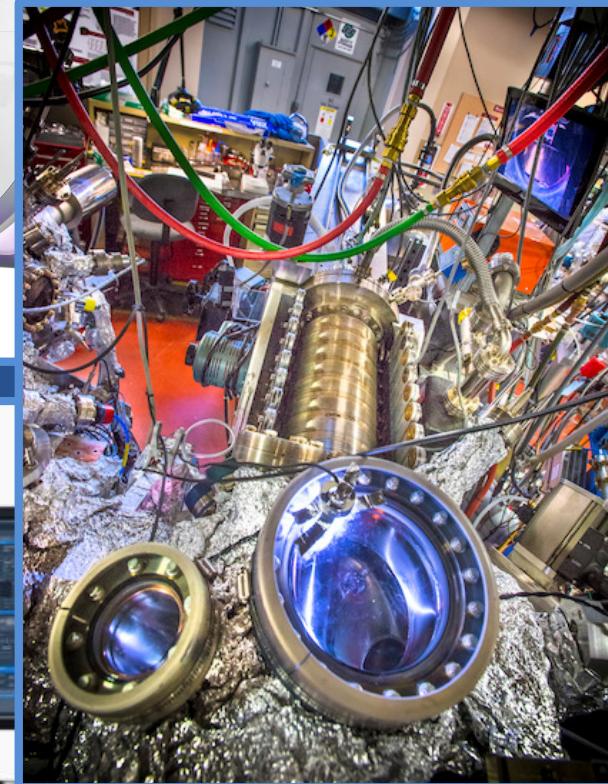


“I need to get data from a scientific instrument to my analysis server.”

MRI



Advanced Light Source



Next Gen Sequencer



Light Sheet Microscope



“I need to *publish* and *discover* data”

Identified

Searchable

Described

Browsable

Curated

Accessible

Verifiable

Protected

Preserved



Challenge: Manage research data as easily as...



...our e-mail



...home entertainment



What is Globus?

Big data transfer, sharing,
publication, and discovery

... directly from your own storage
systems

... delivered via SaaS



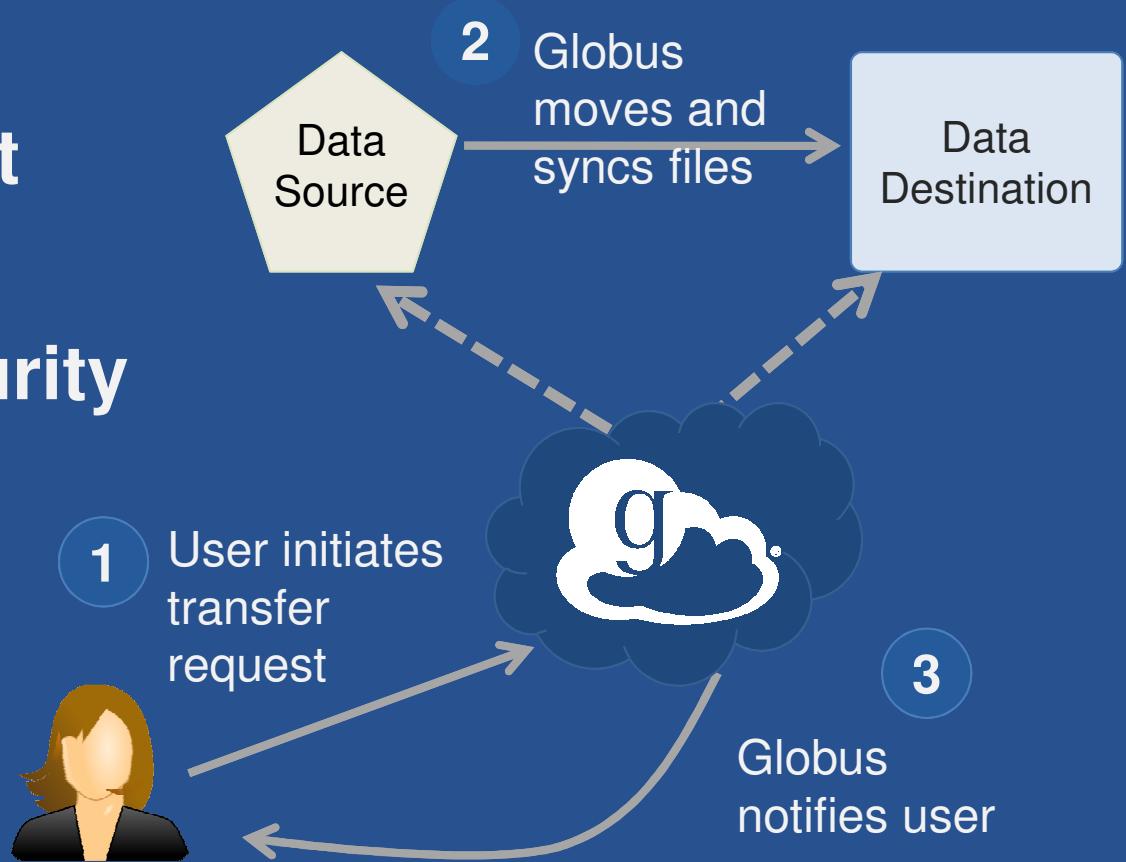
Globus is SaaS

- Web, command line, and REST interfaces
- Reduced IT operational costs
- New features automatically available
- Consolidated support & troubleshooting
- Easy to add your laptop, server, cluster, supercomputer, etc. with Globus Connect



Reliable, secure, high-performance *file transfer & synchronization*

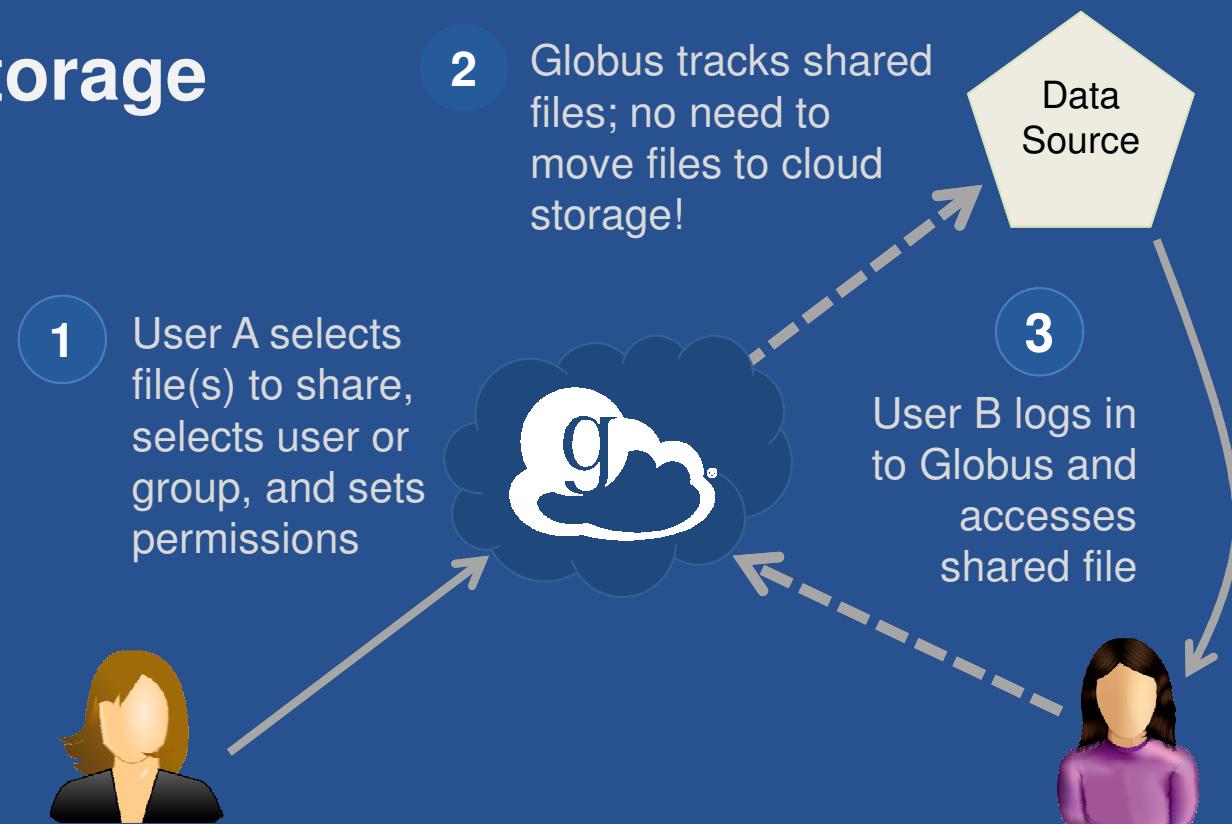
- “Fire-and-forget” transfers
- Automatic fault recovery
- Seamless security integration
- Powerful GUI and APIs





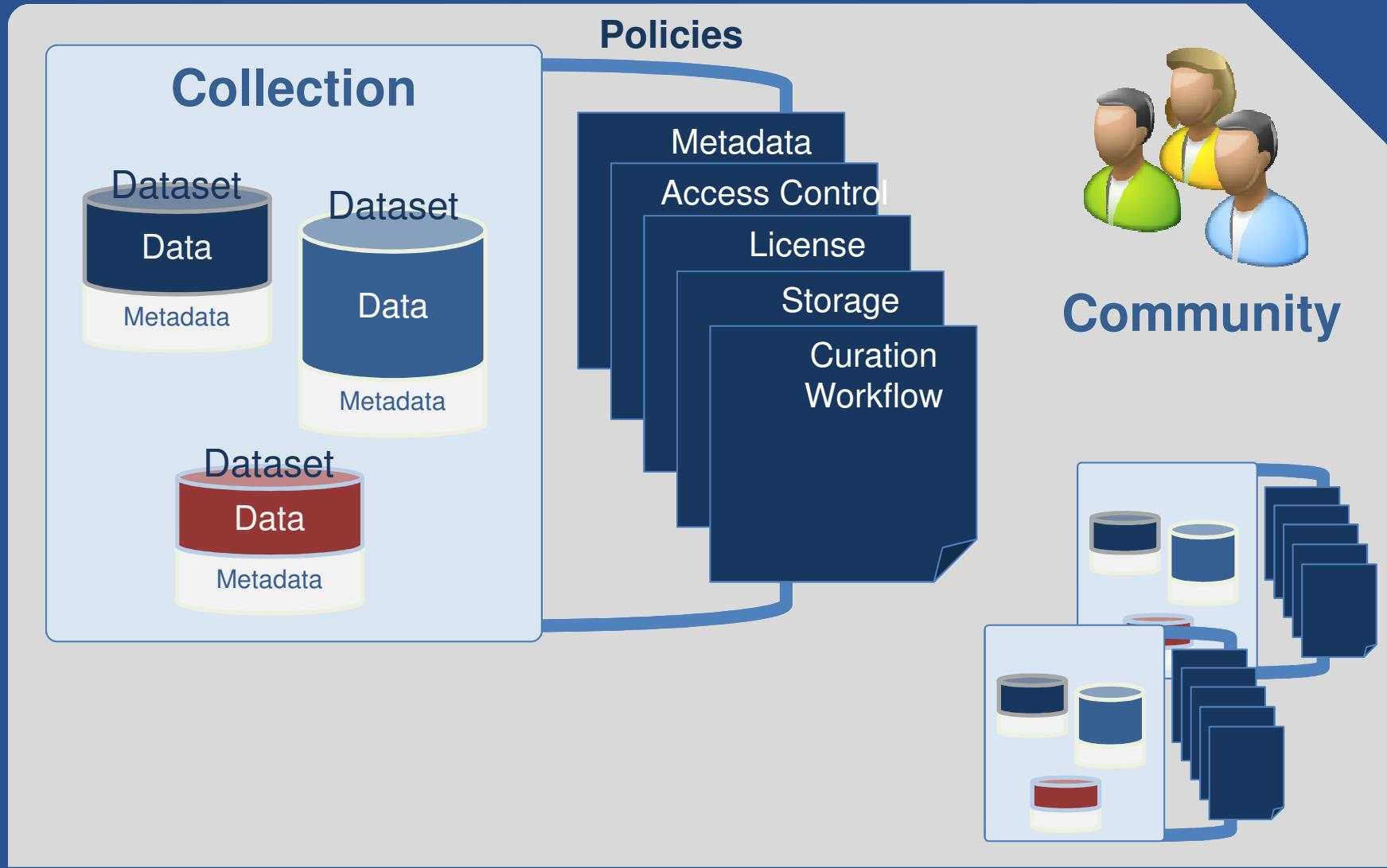
Simple, secure *sharing* off existing storage systems

- Easily share large data with any user or group
- No cloud storage required





Globus' view of data *publishing*



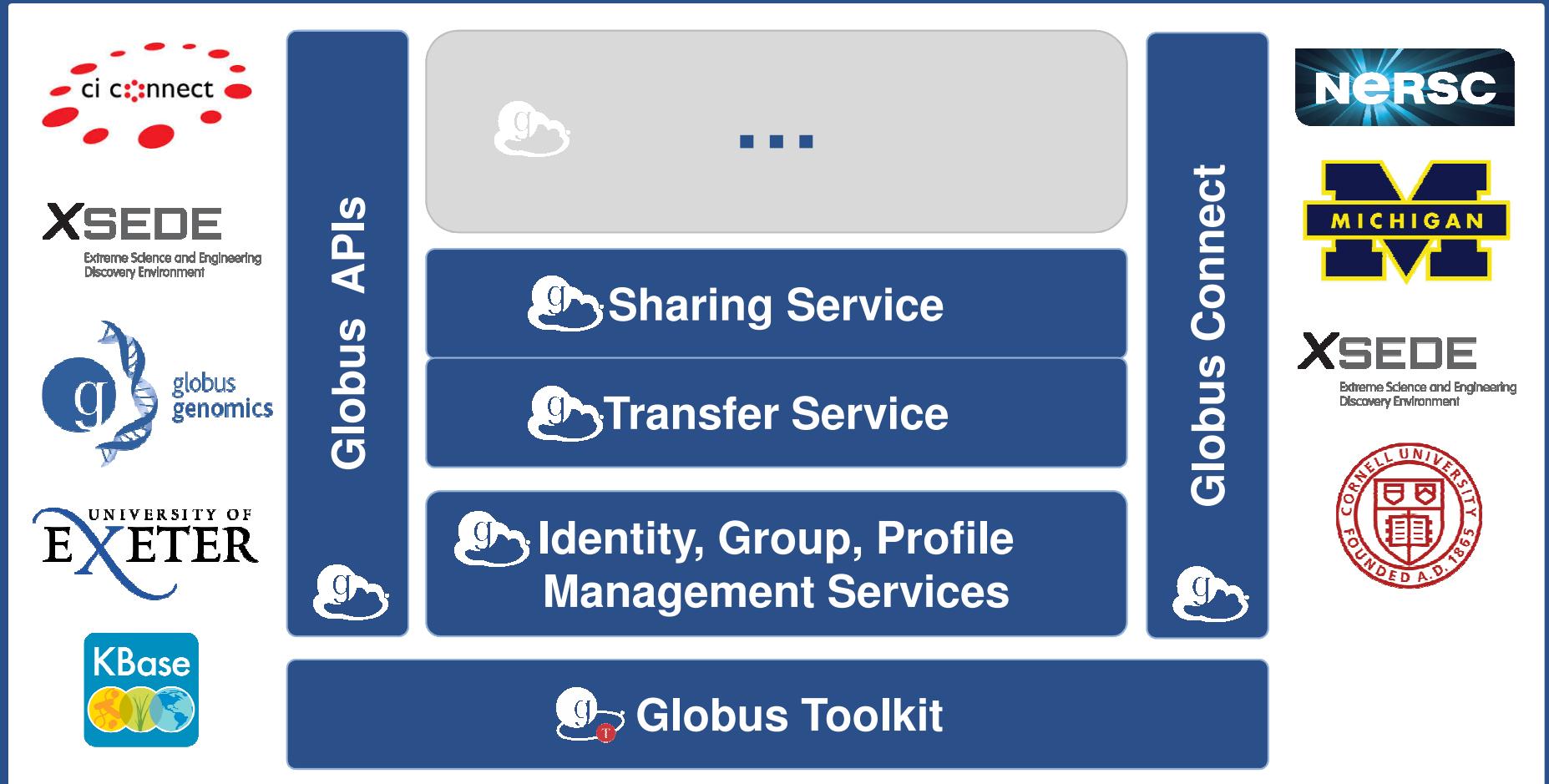


Data publication example





Globus Platform-as-a-Service





globus
genomics

**Flexible, scalable,
affordable
genomics analysis
for all biologists**



Next-gen sequence
analysis SaaS



+

Data management
PaaS



+

Scalable IaaS





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