



globus online



# Product Roadmap

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# Towards “research IT as a service”

## Research Data Management-as-a-Service



Globus Transfer

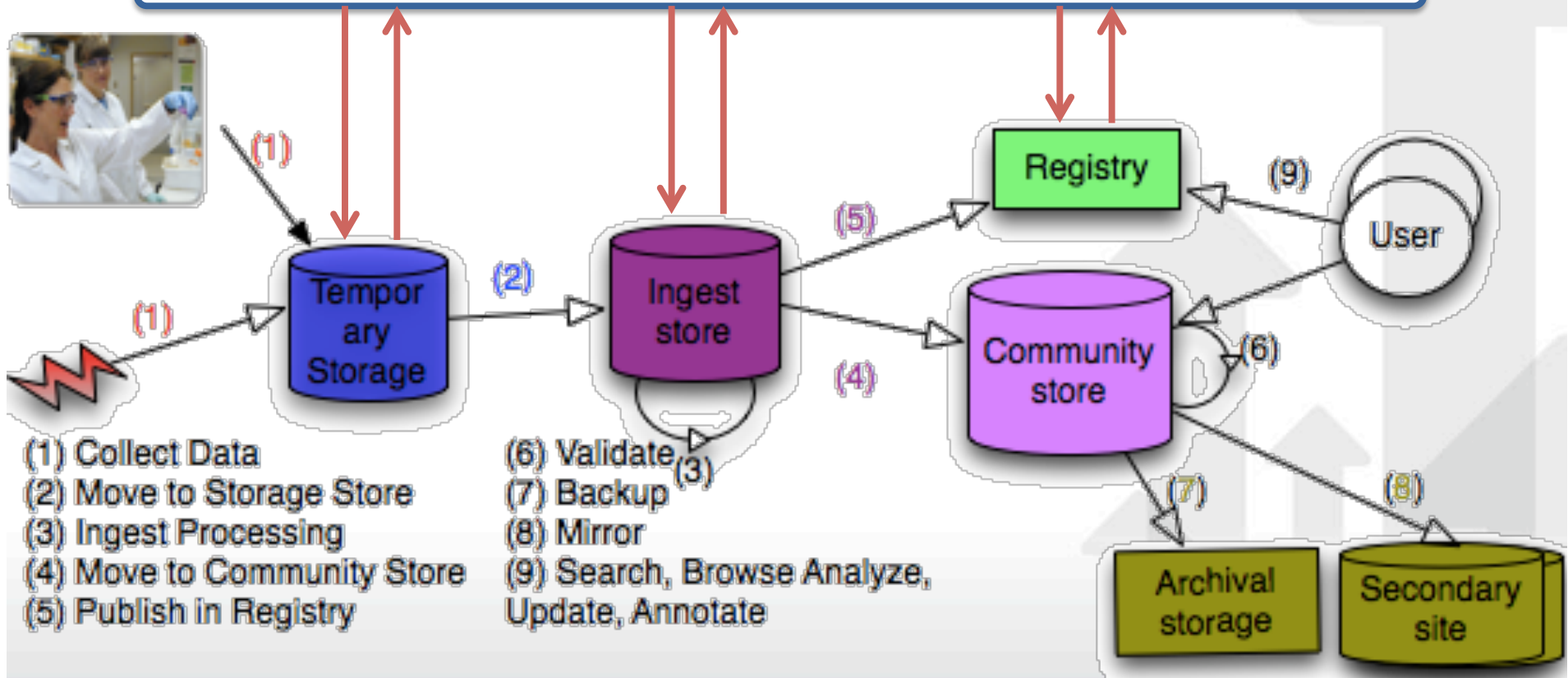
Globus Storage

Globus Collaborate

...SaaS

Globus Integrate

...PaaS





# Delivery plans

## Globus Transfer

- Generally available
- Service and Web UI enhancements continue

## Globus Storage

- Early release
- Generally available in Fall 2012

## Globus Collaborate

- Initial projects at UChicago
- Early release sometime before year-end 2012

## Globus Integrate

- Transfer API available
- APIs for Storage, Collaborate planned after app release

**Globus Toolkit (GA V5.2)**

**Globus Connect Multi User (GA)**

**Globus Connect (GA)**

**Globus Nexus (Alpha)**



## Sustainability

- **Most federal grant money for software is for research and revolutionary development**
- **Not for:**
  - Operations (resources and people)
  - User support
  - Evolutionary development
  - Communications and outreach
- **But these become the dominant costs as software matures and is widely adopted**
  - Production users want evolutionary, not revolutionary
- **How to sustain Globus services for 15+ years?**



# What (usually) does NOT work

- **Traditional grants**
  - Not well suited to research grants
  - Most infrastructure grants for hardware, not software
  - Science projects need >15 year assurance of support
- **Open source**
  - Most software requires deep expertise, continuity.
  - Forking can sometimes hurt sustainability
- **Tech transfer**
  - Commercial or consumer markets mean loss of focus on research market
- **Research market is small, specialized**



## New model (for research community)

- **Software as a Service with subscription pricing**
  - Low cost of adoption: no licenses, admins, or servers
  - Pay for what you use
  - “Freemium”: Some services free, some premium for-fee
- **Non-profit service provider (U.Chicago)**
  - Goal is sustainability, not return on investment
  - Focus on research market
  - Handles billing, payment, contracts, etc.
- **Spread nominal costs across broad base**
  - E.g., End users, research projects, campus IT, etc.
  - Use SaaS model to drive down overall cost



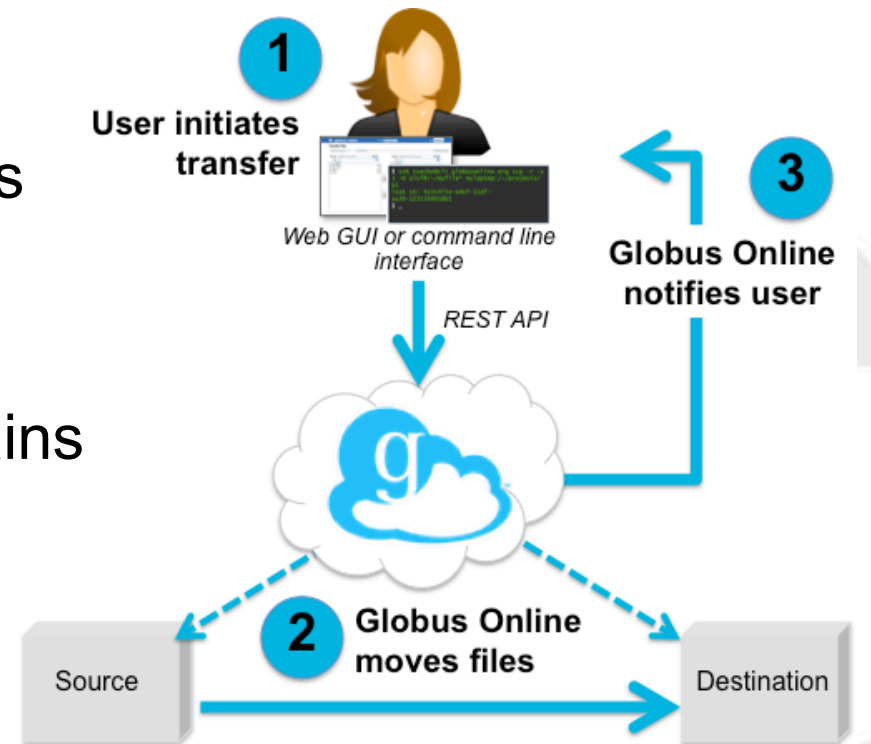
# Globus Transfer

- **Reliable file transfer.**

- Easy “fire-and-forget” transfers
- Automatic fault recovery
- High performance
- Across multiple security domains

- **No IT required.**

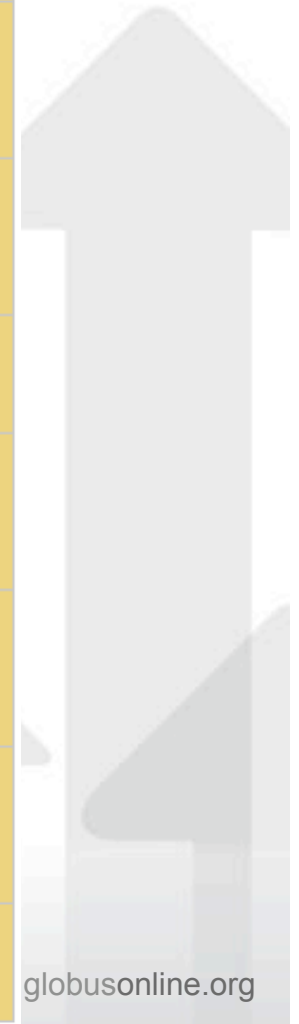
- Software as a Service (SaaS)
  - No client software installation
  - New features automatically available
- Consolidated support & troubleshooting
- Works with existing GridFTP servers
- Globus Connect solves “last mile problem”





# Globus Transfer Premium Plans

	<b>Standard</b>	<b>Silver</b> Sign up now	<b>Gold</b> Sign up now
<b>Support service level</b>	Monday-Friday 8am-5pm Central	Monday-Friday 8am-5pm Central 4-hour response	24hrs x 7 days/week 2-hour response
<b>Globus Connect Multi-User (GCMU)</b> What's this?	Yes	Yes	Yes
<b>Concurrent transfers</b> What's this?	2 per user	Unlimited to/from your endpoints	Unlimited to/from your endpoints
<b>Flight Control endpoint operations console</b> What's this?	—	Yes	Yes
<b>Branded interface with your own DNS name</b> What's this?	—	Yes	Yes
<b>Single Sign-On with default identity provider</b> What's this?	—	Yes	Yes
<b>Pricing</b>	Free	\$1,000/month or \$10,000/year	\$7,500/month or \$75,000/year

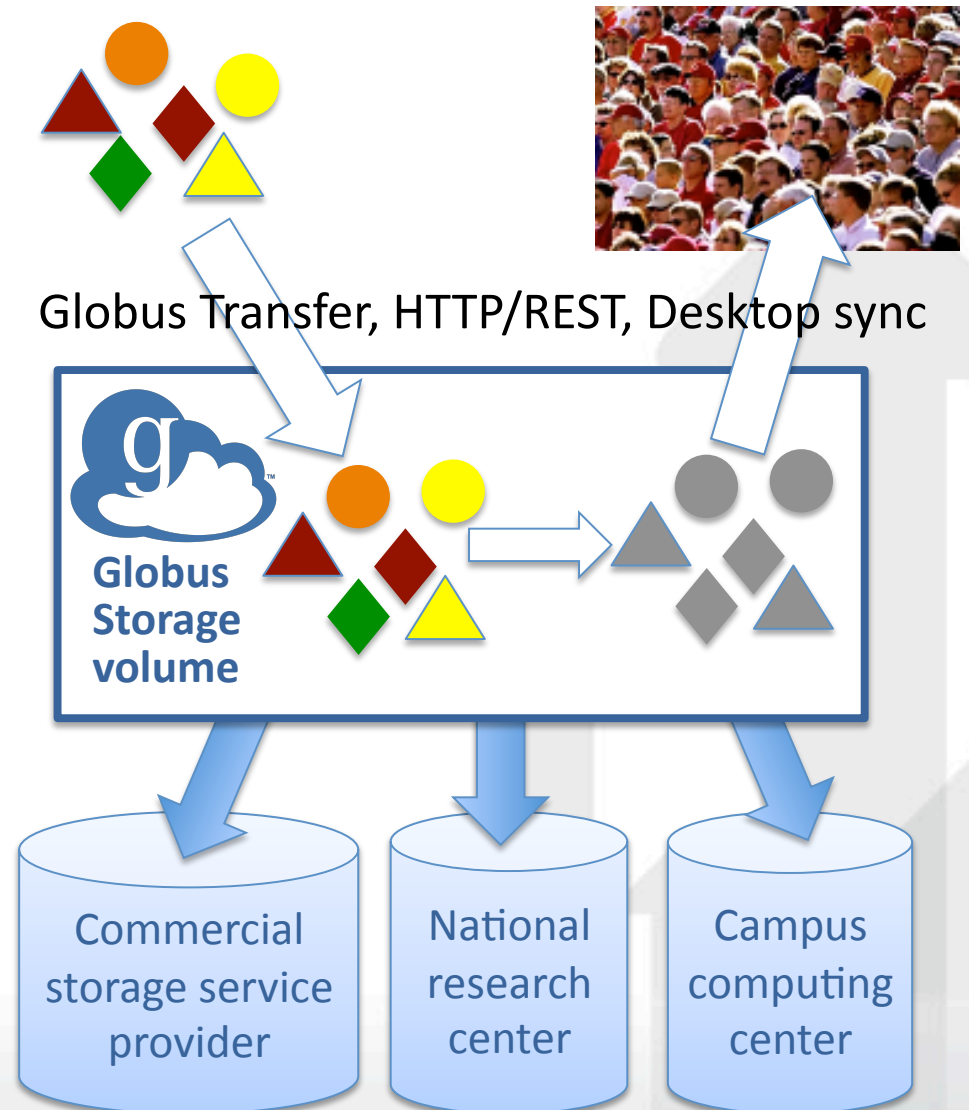






## Globus Storage: For when you want to ...

- **Place** your data where you want
- **Access** it from anywhere via different protocols
- **Update** it, **version** it, and take **snapshots**
- **Share** versions with who you want
- **Synchronize** among locations





# Globus Storage Premium Plans

- **User-oriented offerings**
  - Free trials: Small amount? Larger for limited time?
  - Purchase storage: Pricing varies by location, QoS, ...
  - Groups: One user purchases space, and sets policy on who can allocate volumes against that space.
- **Institution-oriented offerings**
  - Purchase storage for large groups
    - Tools: Usage policies, accounting, charge-back pricing
  - Bring your own storage: You set policies, user pricing
    - E.g. Group members get 1TB/year free, \$x/TB/year for more



# Globus Collaborate: For when you want to

Join with a few or many people to:

- **Share documents**
- **Track tasks**
- **Send email**
- **Share data**
- **Do whatever**

With:

- **Common groups**
- **Delegated management**

**CENTER for MULTISCALE THEORY and SIMULATION**  
NSF CENTER for CHEMICAL INNOVATION

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*Providing transformative theoretical and computational methods relating the molecular scale to cellular processes*

**Research Sponsors**  
NSF National Science Foundation  
THE UNIVERSITY OF CHICAGO

This NSF Center for Chemical Innovation (CCI) project is focused on developing a novel, systematic, and transformative scientific capability for the scientific community. The project will combine conceptual advances in statistical mechanics and condensed phase dynamics with computer simulation methodology and cyberinfrastructure.

**Scientific Goals and Impacts**

- o Develop a rigorous theoretical and computational methodology to describe biomolecular systems at

**Broader Impacts**

- o Innovations in computational software will be disseminated publicly and

**A CMTS Case Study**

*Actin, a cytoskeletal protein, is an ideal example*



# Globus Collaborate Premium Plans

- **Anyone can create basic sites for free**
- **Premium features?**
  - Branding
  - Support level