

# Paying for Long-Term Data Storage

Robin Dean

[robin@coalliance.org](mailto:robin@coalliance.org)

Digital Repository Director  
Colorado Alliance of Research Libraries

How do researchers want to pay for data storage?

Bill them once

The grant pays for it

You keep their data . . .

**FOREVER!**

How does this work?

# DataSpace @ Princeton

Pay Once, Store Forever

Write Once, Read Forever

\$6 / GB

- Includes only the cost of storage
- Assumes storage cost decreases 20% every year

[DataSpace Funding and Operational Model](#)

[DataSpace Policies and Guidelines](#)

# tDAR: the Digital Archaeological Record

"a modest one-time fee"

"permanent shared access"

"preserve files in perpetuity"

\$2,500 / GB = 100 [10 MB] files

<http://www.tdar.org/about/pricing/>

Our reality . . .

We pay for infrastructure\* every year

\*primary storage and backup on networked hard drives that are always available

Also...

Costs do not decrease significantly  
on a year-to-year basis

[David Rosenthal's blog on cloud storage costs](#)



# Therefore...

## We charge for infrastructure every year

\$25 / GB

- 1 primary copy (hosted hardware)
- 2 backup copies (hardware managed by us)
- 1 copy in DuraCloud (Amazon)

# Who do we charge?

## Libraries!

- Organizational home of digital repositories
- Have recurring funding (unlike researchers?)

Another model . . .

figshare

1 GB = free

10 GB = \$80/yr

Recurring cost paid by researchers

# Charge once . . .

- If you have additional funding from federal grants, foundations, or companies
- If each researcher's files are small enough that they can afford a realistic one-time charge for 100+ years of storage
- If you can count on a significant decrease in storage costs every year

# Charge annually . . .

- If your business model requires you to cover the recurring costs for staff and facilities to manage storage and files
- If the researcher's files are large enough that a one-time cost would be prohibitive (> 1 GB?)
- If you store data on networked disks in a frequently accessed system (as opposed to tapes/offline storage)
- If you are paying someone else annually for infrastructure as a service!

# Paying for Long-Term Data Storage

Robin Dean

[robin@coalliance.org](mailto:robin@coalliance.org)

Digital Repository Director  
Colorado Alliance of Research Libraries