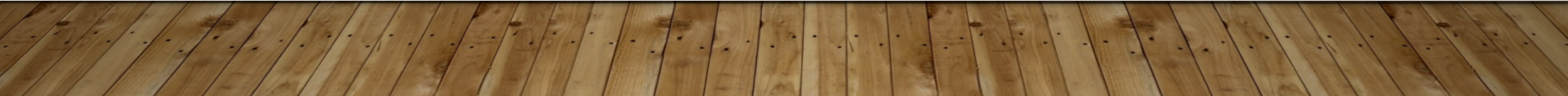


# Storage strategy to keep pace with high-volume digitization

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EMILY MORTON-OWENS, UNIVERSITY OF PENNSYLVANIA (PENN) LIBRARIES  
PHILADELPHIA, PA, USA



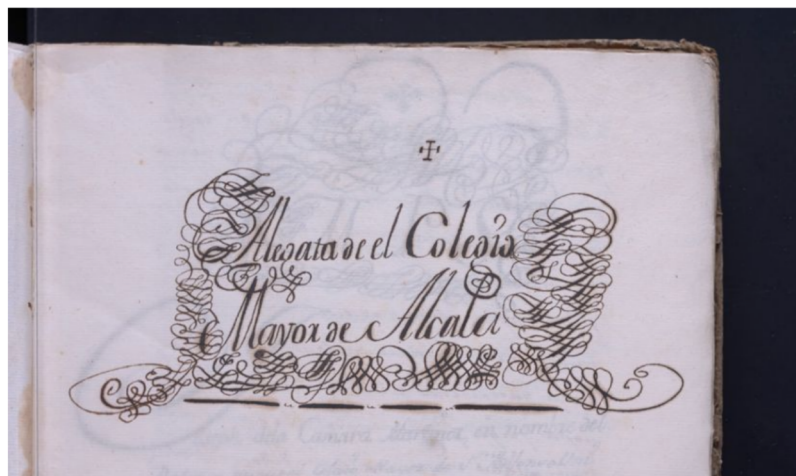
# STARTING POINT: 35 TB WAITING

- Backlog + new material
- 35 TB digitized for access reasons
- No repository in 2015
- Half in a dark archive

# COLEND

## Alegata de el Colegio Mayor de Alcala; [manuscript].

- Title: Alegata de el Colegio Mayor de Alcala [manuscript].
- Abstract: Signature of "Dr. Dn. Antonio Villanueva Pacheco." (Zacour-Hirsch reads it as "Dr. Dr. ...", probably incorrectly) (f. 164r)
- Format: 167 leaves : paper; 300 x 212 (266 x 140) mm. bound to 308 x 220 mm.
- Identifier: (OCoLC)ocn155962729; (OCoLC)155962729; (CStRLIN)PAUR94-A306; (PU)1580575-pennnb-Voyager
- Language: Spanish.
- Provenance: Formerly owned by Porter Libros, Barcelona (bookplate, inside lower cover).; Acquired, 1963.
- Publisher: Alcalá [between 1775 and 1799]
- Subject: [Education, Higher -- Spain -- 18th century.](#); [Universities and colleges -- Spain -- 18th century.](#); [Codices.](#); [Autographs.](#); [Manuscripts, Spanish; 18th century.](#); [Manuscripts, European.](#)
- Type: Manuscript
- Personal Name: Camara Martinez, Joseph de la.; Villanueva Pacheco, Antonio.
- Corporate Name: Universidad de Alcalá de Henares.
- Call Number: Oversize Ms. Codex 165
- Collection: Penn in Hand: Selected Manuscripts



# CEPH CHARACTERISTICS

- Replication
- Flexible about type of storage device
- Content-addressable

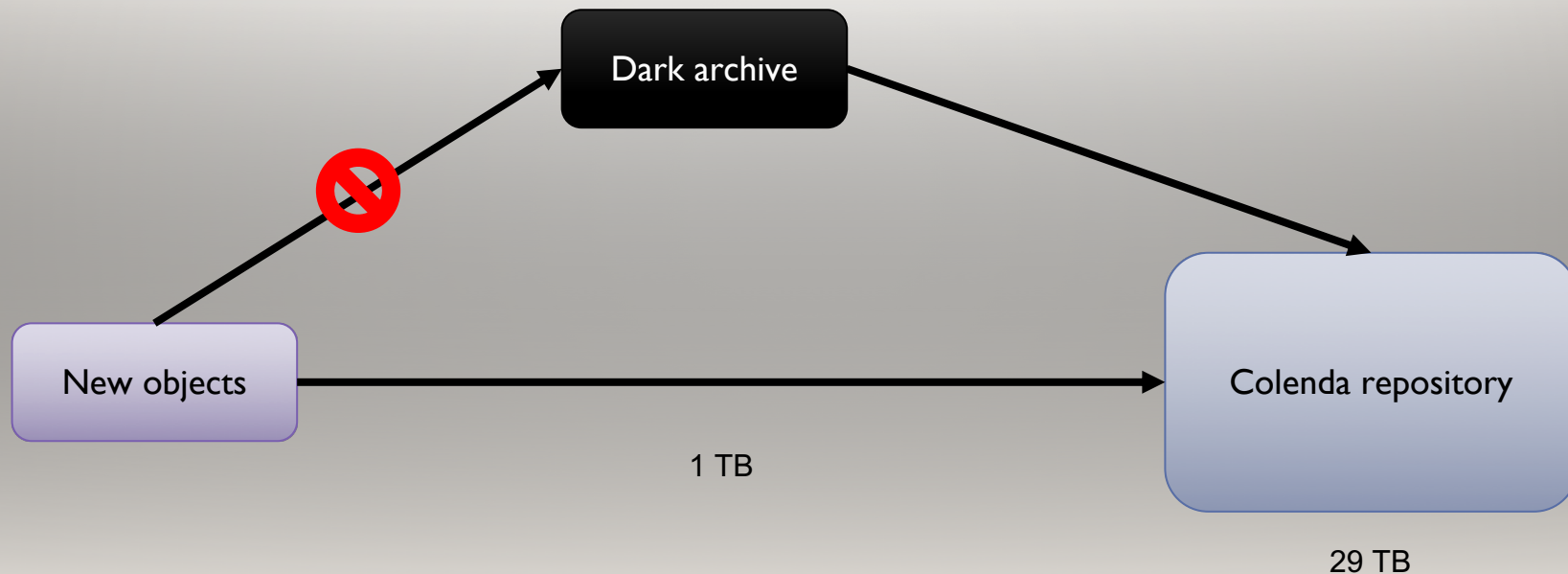
# CEPH BENEFITS

- Don't need to predict future needs as precisely
- Lower cost
- More transparent capacity management

# CHALLENGE I: DATA MOVEMENT

- 29 TB in Colenda/Ceph
- Some backlog, some new
- Estimated backlog completion: end of Spring 2019

## CHALLENGE 2: WORKFLOW “REPLUMBING”



# CHALLENGE 3: DATA SAFETY

- Glacier
- Eastern Oregon
- Can abandon for better solution

# RESULTS

- New data, most backlog data
  - Two copies managed by Ceph
  - Third copy in Glacier
- Remaining backlog data in dark archive
  - Awaiting ingest soon
- Other backlog data not in dark archive
  - Awaiting remediation, possible reshoots

# THANK YOU

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