



LIBRARY OF CONGRESS

LC Storage Environment (FY'14- UPDATE)

Library of Congress
ITS/OPSESE
Data Engineering





Activities Affecting Storage Environments

- Migration of online content to near-line
- Content consolidation efforts
- Increased Scanning Projects
- Increased Content Ingests
- Digital submission



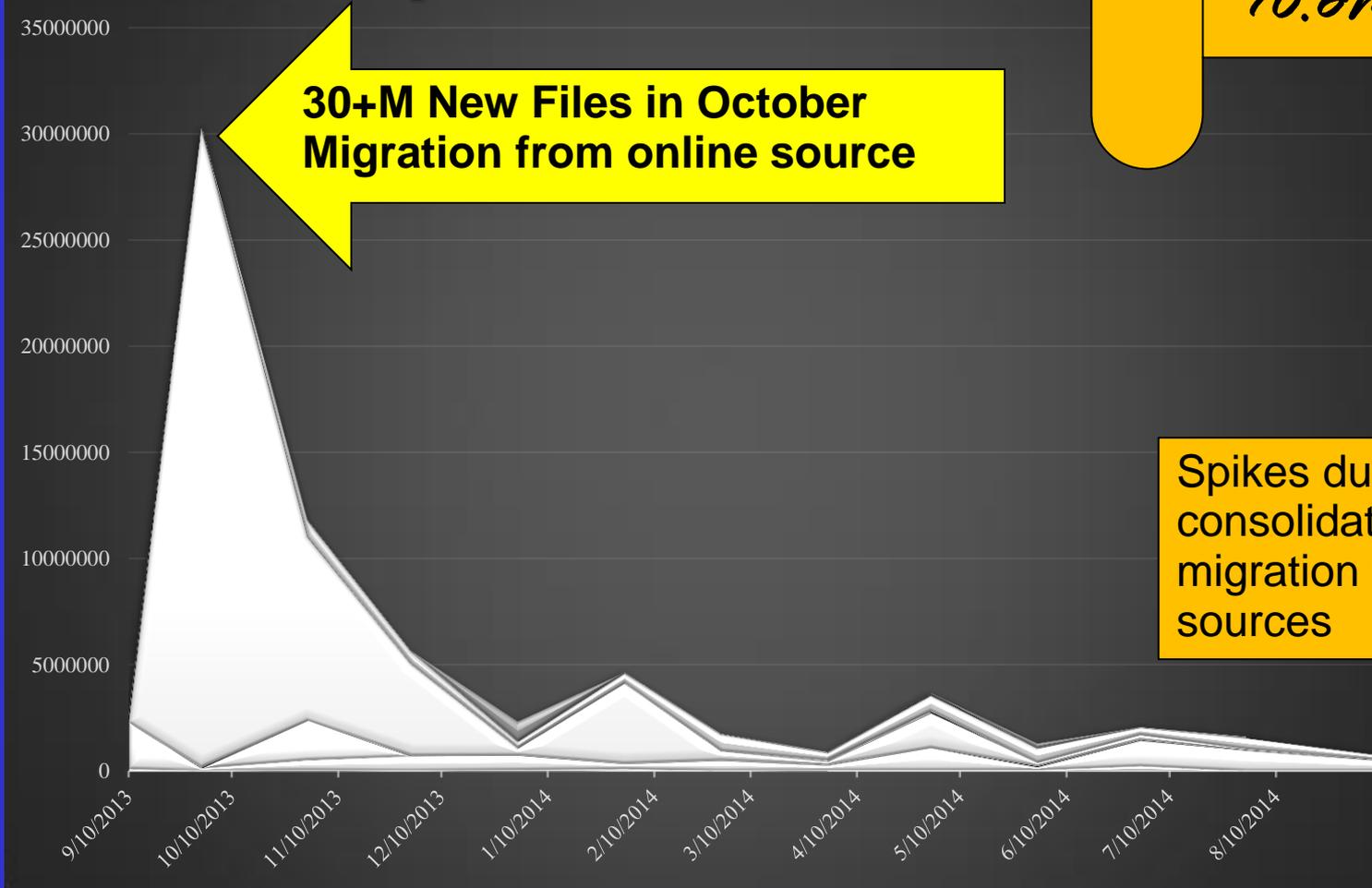


2014 Growth in near-line

200% Annual increase

2014 Total
70.6M New Files

Ingest from 9/10/2013 thru 9/9/2014



30+M New Files in October Migration from online source

Spikes due to content consolidation and migration from online sources



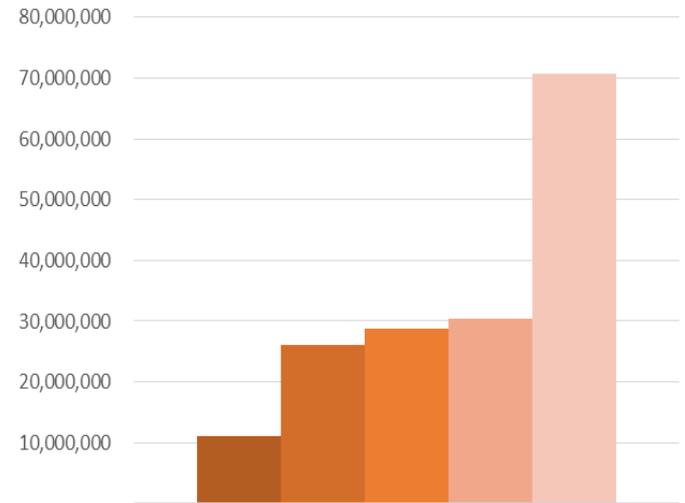
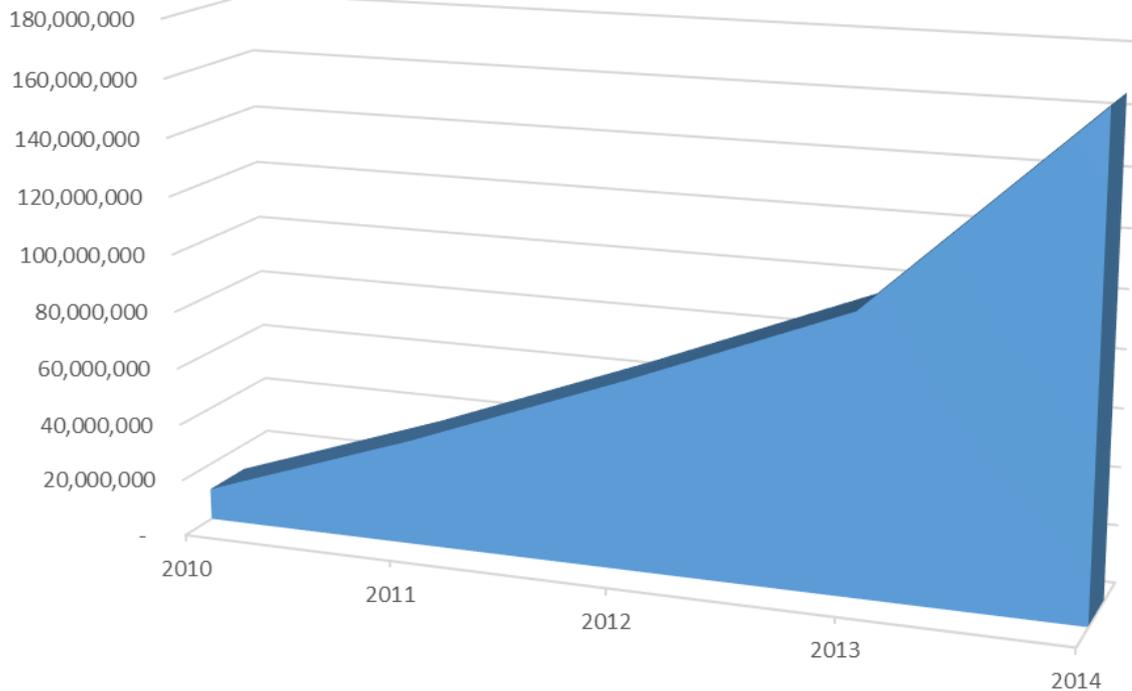


Past 5 Years Growth

Library of Congress Byte Preservation

Note: Does not include NAVCC Culpeper

5 Years of Growth



File Count by Year





Long-term Storage Statics

- System One (SAM-FS)
 - 70+ Million files added
 - Increased by 545 TB
 - 7.1+ Million files recalled for access
- System Two (HPSS)
 - 52+ Million files added
 - Increased by 485 TB
 - 10,000+ files recalled for access



Data Migration

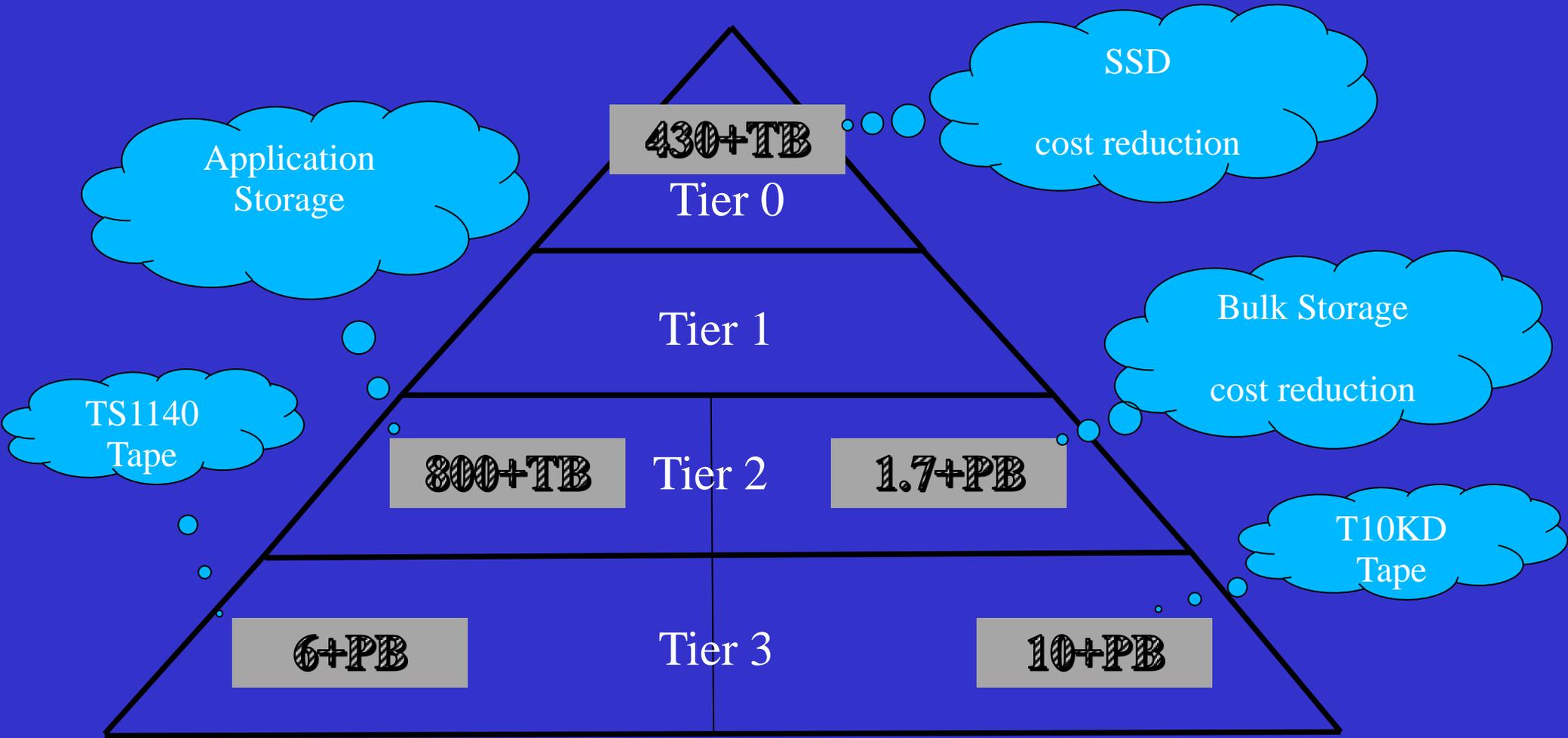
Consolidation of Static Content



607 TB
95+ M Files



Storage Changes for FY'15



Migration Initiatives for FY'15

- Migrating from Oracle T10K-B to T10K-D tape
 - Tape will be reduced – 8 old for 1 new
- Migration from HPSS to LTFS EE
- Migrate from LTO3 and 4 tapes to TS1140
 - Tapes will be reduced – 15 old to 1 new and 7.5 old to 1 new
- Continue migration of static data from online legacy servers





Questions

eMail
cwat at loc dot gov

