



STANFORD UNIVERSITY LIBRARIES

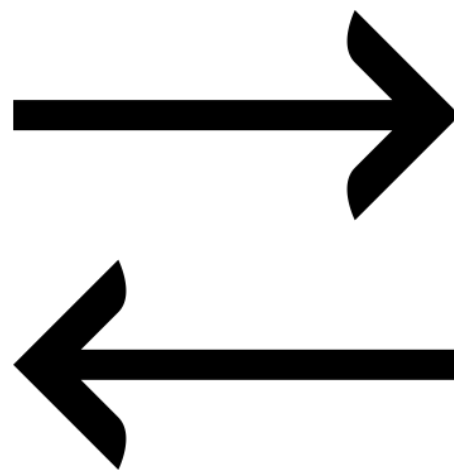
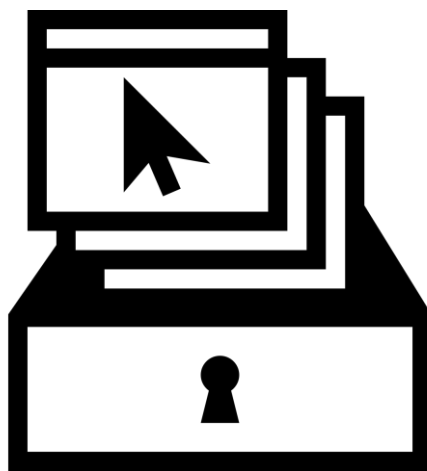
WASAPI Technical Working Group Update

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[IIPC General Assembly: Building API-Based Web Archiving Systems and Services](#)

April 12, 2016

WASAPI



Technical Working Group



Jefferson Bailey
Internet Archive / Archive-It



Abbie Grotke
Library of Congress



Kristine Hanna
Internet Archive / Archive-It

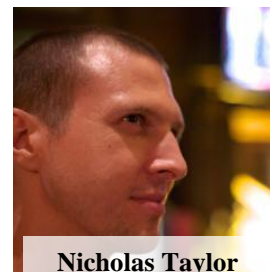


Cathy Hartman
University of North Texas



Edward McCain
University of Missouri

Christie Moffatt
National Library of Medicine

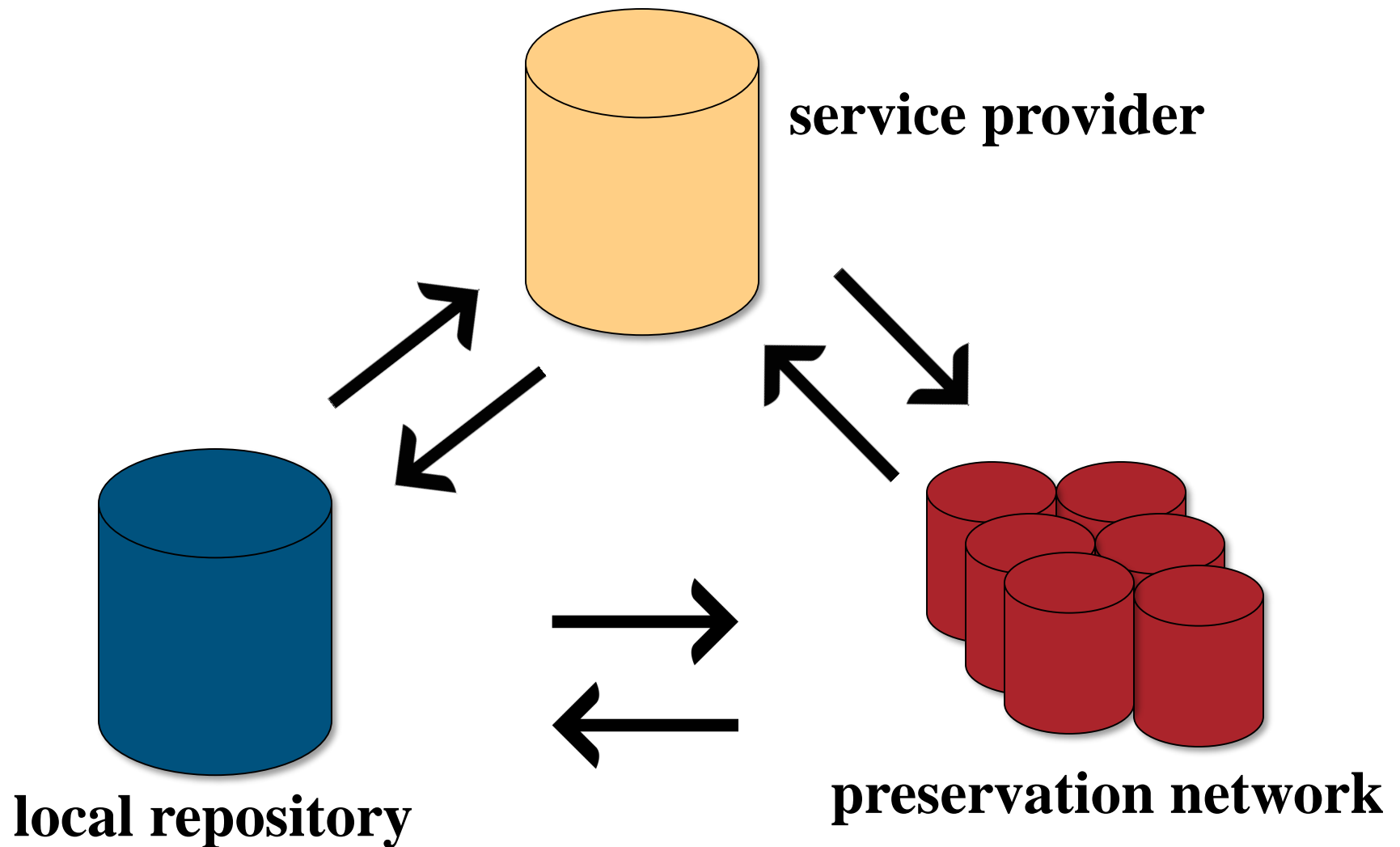


Nicholas Taylor
Stanford University

related API work

- **CDX Server API (IA, IIPC)**
- **derivative formats (Archive-It, BL)**
- **crawl logs/partner data (Archive-It)**
- **Wayback Machine APIs (IA)**
- **proliferating capture tools (GWU, IA, Rhizome)**
- **Cobweb (CDL, Harvard, UCLA)**

data flow



test cases

- **Archive-It** →
 - partner IR/local use
 - DPN
 - LOCKSS (PLN)
- **CDL** → **Archive-It**
(migration)
- **DLSS** → **IA**
(WebBase)
- **[EoT partners]** ← →
[EoT partners]
- **IA global Wayback** →
 - LOCKSS (OA content)
 - national libraries
- **LOCKSS (.gov)** → **IA**
- **[any web archive]** →
 - researcher
 - original publisher

questions

- **what's in extension vs. core?**
- **what abstracted elements sufficient for crafting request across archives?**
- **what co-bundled metadata?**

overview

- **Stanford Web Archiving**
- **CDL WAS Transitioning**
- **A more collaborative future**



“LAX on take off” by [Doug](#) under [CC BY-NC-ND 2.0](#)

A low-angle, upward-looking photograph of the Stanford Dish, a large parabolic radio telescope. The dish's surface is a complex, dense grid of metal struts and cross-braces, creating a spherical web-like pattern. The structure is painted a light blue or grey, with some visible rust on the upper sections. The background is a clear, bright blue sky. A semi-transparent yellow banner is overlaid across the middle of the image, containing the text "STANFORD WEB ARCHIVING" in bold black letters.

STANFORD WEB ARCHIVING

“Stanford Dish” by [Ed Bierman](#) under [CC BY 2.0](#)

web archiving activities

- **LOCKSS**

1999 – present

- **WebBase**

2001 – 2012

- **Archive-It**

2007 – present

- **CDL WAS**

2008 – 2015



Middle East Politics collection

- **duration:** 2008 – 2015
- **size:** ~10 TB
- **count:** 185 websites
- **contents:** blogs, political orgs, NGOs



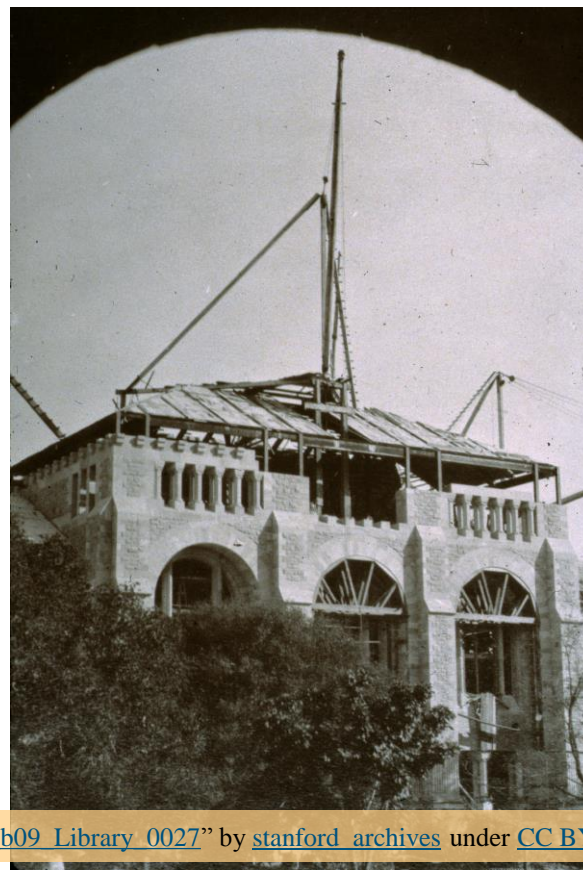
African Politics collection

- **duration:** 2008 – 2015
- **size:** ~15 TB
- **count:** 199 websites
- **contents:** campaigns, news, political parties



Digital Library Buildout 2

- identify needs
- secure funding
- programmatize
 - staffing
 - use cases
 - policy
 - collection development
 - service model
 - technical architecture



“PC0141_b09_Library_0027” by [stanford archives](#) under [CC BY-NC-SA 2.0](#)



CDL WAS TRANSITIONING


“[Transition](#)” by [RicardoRQ](#) under [CC BY-NC-SA 2.0](#)

challenges

quality assurance

- backlog
- purge soft 404s

data accessioning

- ingest congestion
- non-working workflows

data transfer

- data volume
- retrieved everything?
- checksums match?

description + discovery

- crosswalk metadata
- improve metadata

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description + discovery

- **crosswalk metadata**
- **improve metadata**



A MORE COLLABORATIVE FUTURE

“There's No Place Like The Death Star” by [JD Hancock](#) under [CC BY 2.0](#)

share collection content

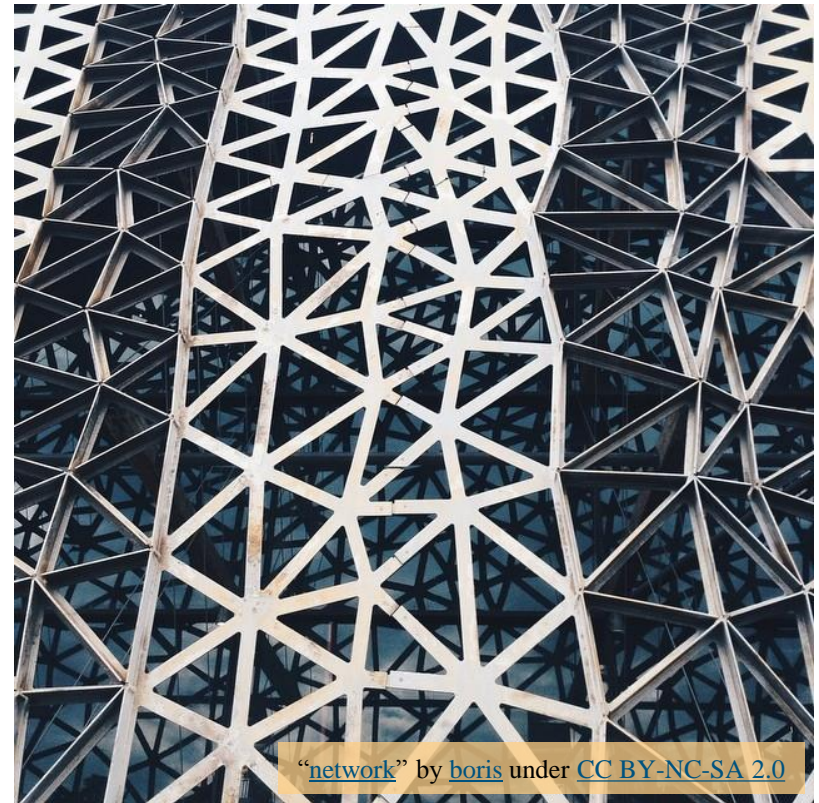
- **advantages**
 - larger, unified collection(s)
 - distributed preservation
- **challenges**
 - missing/mixed provenance
 - institutional ownership
 - ad hoc data transfer
 - redundant effort
- **opportunity**: data transfer APIs ([WASAPI](#))

collaborative collecting

- **advantages**
 - distribute curation costs
 - more comprehensive collection
- **challenges**
 - curatorial roles
 - cost sharing
 - institutional ownership
- **opportunity**: collaborative collecting interface (Cobweb)

distributed services

- **changing landscape**
 - CDL transition
 - Archive-It predominance
 - Harvard environmental scan
- community interest in **APIs**
- **SUL** (web archiving + LOCKSS) **needs**



let's combine forces



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