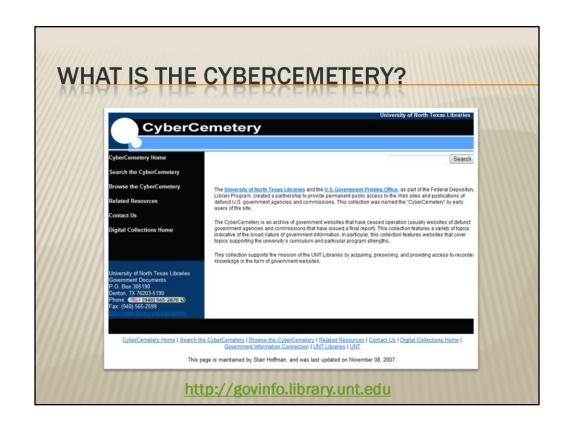
# PRESERVING ACCESS TO GOVERNMENT WEBSITES

Development and Practice in the CyberCemetery

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# PRESENTATION CONTENTS

- Intro: What is the CyberCemetery?
- × Purpose: Why create a CyberCemetery?
- × Development
- × Archiving Process
- Technical Details
- Users by Country
- **x** Conclusion





### WHAT IS THE CYBERCEMETERY?

- online archive of websites from U.S. government agencies or commissions that are no longer operating
- maintained by the University of North Texas Libraries
- \* freely accessible world-wide



http://govinfo.library.unt.edu

### WHY CREATE THE CYBERCEMETERY?

- \* At-Risk Information:
  - + 1990's: U.S. government information moved online
  - + much of it born-digital
  - + often edited or removed without warning
- ★ Federal Depository Library Program (FDLP)



- x administered by the U.S. Government Printing Office (GPO)
- x mission: to provide free, permanent public access to government information
- x online information complicates this mission
- University of North Texas is a federal depository library

### **DEVELOPMENT**

#### × 1995

+ Government Printing Office (GPO) publishes report stating need to preserve electronic government publications





#### × 1997

- + University of North Texas (UNT) talks to GPO about forming a partnership
- + UNT archives website of the <u>Advisory Commission on Intergovernmental Relations</u>

### **DEVELOPMENT**

#### × 1999

- + UNT/GPO partnership is expanded
  - × permanent public access
  - × multiple government websites
  - government agency or commission which is no longer operating (and/or has issued a final report)
- + the collection is named "CyberCemetery"
  - \* due to its collection of websites from "dead" government agencies and commissions



# **DEVELOPMENT**

#### × 2006

- + UNT/GPO partnership is expanded
  - Now includes the U.S. National Archives and Records Administration (NARA)







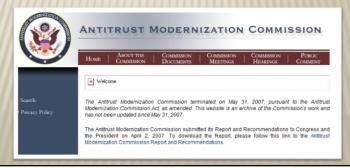




- Identify at-risk government agencies and commissions
  - + read/listen to the news
  - read government-related websites and blogs
  - + get referrals from other librarians
  - + contacted by GPO
  - + contacted directly by the agency/commission

#### 2. Evaluate the website

- + must be an official government website
- + The agency or commission must:
  - × Be closing
  - × Have issued a final report
  - Other indication that the website is at-risk



- Evaluate the website (continued)
  - + Questions for website administrator:
    - + What operating system was used to host this website?
    - + What webserver software was used for the hosting of this website?
    - Are server side includes (ssi) used in this website?
    - + Was this website static html or a dynamic site?
      - + If dynamic, what scripting languages were used for this website (php, perl, python)?
      - + Was a database used for this website?
        - + If so, what database was used for this website?
        - + What methods were used to connect to the database?
    - + Is there streaming media associated with this website?
    - + Are there proprietary content types used in this website?
    - + Are there any comments you would like to add?

- 3. Harvest the website
  - + Past method: HTTrack
    - × http://www.httrack.com/
  - + Future method: Heritrix
    - <u>http://crawler.archive.org/</u>
    - × ARC files
    - website in a single file: 100 600MB

- 3. Harvesting alternative: Donated content
  - + directly receive files from agency or commission
    - × Why donated content?
      - \* If content cannot be accessed by harvesting
      - \* flash video, large amounts of media
    - Why not donated content?
      - \* Content could be altered
      - Harvesting = exact copy of online published content

### 4. Link Checking

- + Automated:
  - × Xenu Link Checker
  - http://home.snafu.de/tilman/xenulink.html
  - compare reports of original and archived sites
- + Manual:
  - manually navigate original and archived sites

### 5. Archive Preparation

- + add text "Archive"
  - × 8 point, Times New Roman font
  - × added to top/center of each page
- + manually disable contact links
  - "mail to" links
  - × submit-able forms
- (Heritrix will make these preparations unnecessary)



# TECHNICAL DETAILS

- **×** Equipment
  - + Four servers (three as backup)
  - + Four node fail-over clustered configuration
  - + SAN volume
  - + 27.2GB of content on 40GB server
- **x** Environment
  - + Library basement
  - + 38° Fahrenheit (3° Celsius)
  - + 50% humidity



# TECHNICAL DETAILS

- \* Backup
  - + full backups to magnetic tape
  - + performed each weekend
  - + shipped to offsite storage company
    - × Iron Mountain
    - × http://www.ironmountain.com

### TYPES OF CONTENT

- web files (HTML, XML)
- text documents (.txt, .pdf, .doc)
- spreadsheets & statistical information (.xls)
- presentations (.ppt)
- \* media files:
  - + images & photographs (.jpg, .gif, .png, tiff)
  - + audio (.mp3)
  - + video (.wm, .mov, .rp)

IMPACT OF U.S.-CHINA TRADE RELATIONS ON WORKERS, WAGES, AND EMPLOYMENT

PILOT STUDY REPORT

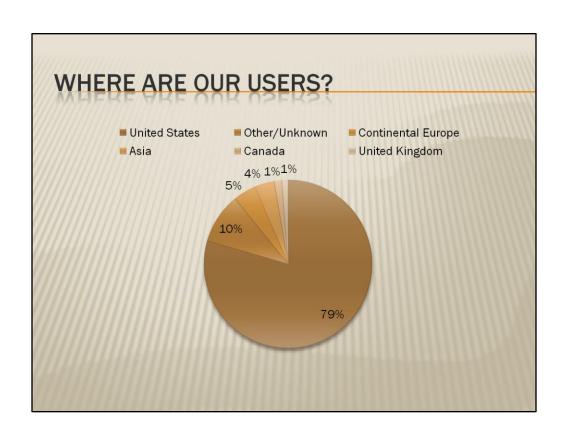


Submitted to the amission/U.S. Trade Deficit Review Commission y Project Director

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June 30, 2001





# CONCLUSION

- provides permanent public access
- archive of government information
- \* freely, globally available
- × 45 websites and growing
- **x** partnership between:
  - + University of North Texas Libraries
  - + U.S. Government Printing Office
  - + National Archives and Records Administration

#### FOR FURTHER INFORMATION:

- \* http://govinfo.library.unt.edu
- \* <a href="http://www.library.unt.edu/govinfo/digital-collections">http://www.library.unt.edu/govinfo/digital-collections</a>
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