Digital Preservation
Principles and Practice
Community Context

Digital content program development

- **1960s**: National archives, data archives
- **1970s**: increasing interest and concern
- **1980s**: digitization developments
- **1990s**: library, museum, Web collections
- **2000s**: digital art, geospatial, e-science...
- **2010s**: research data, analog archives...

variations by nation, domain, size, complexity...
Preserving Digital Information

Report of the Task Force on Archiving of Digital Information

commissioned by
The Commission on Preservation and Access
and
The Research Libraries Group

May 1, 1996
digital preservation

technology
organization

resources
Ten Digital Curation and Preservation principles

DEVELOPED FOR THE
DIGITAL PRESERVATION OUTREACH
AND EDUCATION PROGRAM (DPOE)
THAT IS HOSTED BY THE
LIBRARY OF CONGRESS
1. Identify the digital content within your scope of responsibility

http://libraries.mit.edu/preserve/about/digital/
2. Specify the digital content you intend to preserve

ESTABLISH AND APPLY CRITERIA TO DETERMINE THE CONTENT YOU NEED OR WANT TO PRESERVE
3. Establish requirements for storing files in preservation formats

Determine the formats you will accept and the formats you will preserve

Sustainability of Digital Formats
http://www.digitalpreservation.gov/formats/
4. Determine (and review) your best option(s) for storing your digital content

SPECIFY STORAGE REQUIREMENTS THAT ARE APPROPRIATE TO YOUR CONTENT, FEASIBLE, AND AFFORDABLE FOR YOU

National Digital Stewardship Alliance (NDSA) Storage Survey
http://blogs.loc.gov/digitalpreservation/2013/06/ndsa-members-report-on-digital-storage-systems/
5. Verify that our digital content is secure during day-to-day activities.
6. Ensure that our digital content is prepared for an emergency
7. Develop (and review) plans for managing your digital content over time

ENGAGE IN ONGOING PLANNING TO MOVE DIGITAL CONTENT ACROSS GENERATIONS OF TECHNOLOGY

Digital Preservation Management Workshop Online Tutorial
http://www.dpworkshop.org/
8. Define a standards-based framework to develop and manage your program

SPECIFY THE SCOPE, PURPOSE, OBJECTIVES, AND APPROACH OF YOUR TO GUIDE PROGRAM DEVELOPMENT

Model document for developing a framework document
9. Demonstrate that long-term access is the purpose of your program

RAISE AWARENESS ABOUT THE BENEFITS AND CHALLENGES OF PROVIDING CONTENT IN 10, 20, 50 YEARS ...
10. Ensure that the means to deliver digital content to users remains current.

Digital preservation relies upon proven technologies.
Access relies upon current technologies.
Digital preservation ensures access to current and future users.

LONG-TERM ACCESS NEEDS TO LEVERAGE CONTEMPORANEOUS TECHNOLOGIES
Digital Preservation is a Shared Responsibility

COLLABORATION IS NOT ONLY BENEFICIAL, IT IS ESSENTIAL FOR ACHIEVING COMMON GOALS ACROSS INSTITUTIONS AND INTERNATIONALLY
Collaboration to Clarify the Costs of Curation

4C

Assessment
- Assess cost models & strategies
- Examine good practice
- Analyse requirements
- Integrate components
- Produce guidance & briefing materials
- Setup costs exchange

Engagement
- Tasks
  - Engage stakeholders
  - Raise awareness
  - Organise meetings
  - Promote Research & Innovation
  - Build community network

Networking & Coordination
- Events, Workshops, Meetings & Reports

Affiliate Partners & Stakeholders

Outputs
- Reports for General Dissemination
- Curation Costs Exchange

Enhancement
- Tasks
  - Examine and refine related concepts
  - Value
  - Risk
  - Benefits
  - Sustainability
  - Economic Reference Model

Project Coordination
- Tasks
  - Project meetings
  - Project reporting
  - EC liaison
  - Budget oversight
  - Outputs QA

JISC

Collaboration to Clarify the Costs of Curation
Questions?