

# **STEWARDING THE INVISIBLE** Setting the stage for Institution-wide

# digital preservation at the Smithsonian Digital Preservation Assessment Final Report

al Preservation Assessment Final Report Executive Summary Presentation



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# **ASSESSMENT GOALS**

- Articulate risks to digital collections and research data across the Smithsonian Institution
- 2. Identify gaps in stewardship of digital assets
- 3. Situate digital preservation in strategic vision & initiatives
- 4. Establish common vocabulary & reference points
- 5. Provide recommendations to address gaps, risks, and reach SIwide goals



# Interviews

With 16 stakeholder groups representing collecting units, data repositories, and content creators



## Survey

On data totals and storage practices of researchers across the SI - 100 complete responses were submitted



# **Documentation Review**

Of pertinent strategy, policy, analysis, and other relevant SI documentation

# METHODOLOGY

**SUMMARY OF FINDINGS** There are significant digital stewardship gaps today that place assets at risk and use available resources inefficiently assets at risk and use available resources inefficiently



### **Existing policies put preservation** responsibility exclusively on resource creators

No central supporting roles are articulated by SD 610. There is no official policy for research data management. There is no central digital preservation oversight, infrastructure, guidelines or other resources.



### Content creators do not have the resources, expertise, and at times, incentives, to ensure that digital assets persist

Researchers and digitization project managers default to paths of least resistance-store research data on hard drives and put collections and institutional output in the DAMS. Metadata, essential to longevity, is often limited or not created.



#### The current project-centric approach to data management is inefficient and risk prone

Research data management plans and SI DAMPs require project-centric solutions. Without oversight to ensure alignment with SI interests, economies of scale and scope are lost, and resources often neglected after the project ends.



#### There is now ~2 PB of collections data, and ~6.7 PB of research data across the SI

While >75% of collections data is in a managed environment like the DAMS, >85% of research data is unmanaged and ~35% is not under SI control. Rapid digitization and data-driven research will increase these numbers >55 times by 2026.



The available infrastructure cannot support the volume of data across the SI that staff have identified as valuable. Repositories available today for research data can only accommodate ~1% of data that researchers want to keep indefinitely.



### Lack of a digital preservation mandate, undefined responsibilities, and unclear definitions exacerbate inaction

Excellent work is being done by many members of the Digital Preservation Working Group, but these are siloed efforts. Organizational alignment is required to maximize benefit at the enterprise level.

#### Make digital preservation an underlying, systematic function RECOMMENDATIONS of the Smithsonian Institution



Quantify the need and communicate it broadly

Identify champions at all IMPACT 7 levels, galvanize broad participation



Create a Digital Preservation Directorate and a Digital Preservation Advisory Board, and define cross-institutional roles and responsibilities down to the level of the individual researcher

IMPACT \* Defined responsibilities empower stakeholders to act

# **Create a vision** for digital preservation

Demonstrate the value and impact of digital preservation to achieving SI's Vision. Incorporate the role of digital preservation into the next strategic plan

**Digital preservation** 

of the organization

☆ becomes a shared objective



## **Create & update** policies

Update and formalize terminology. Create an SD for digital preservation, and another for research data management



# **Ensure alignment** & accountability

Conduct training and outreach, align formal terms to disciplinespecific verbiage, track metrics

**Consistent communication** MPACT ★ establishes feedback loops & engenders trust

### **Ensure availability** of technical infrastructure

Technical resources should reflect mandates and support functional needs of researchers and collecting units

Mandates and policies become achievable IMPACT ☆

# **Ensure** sustainability

IMPACT

Formalize programmatic funding streams that are supplemented by project and grant funds



### IMPACT ☆

**Resolve questions and** establish reference points



# Implement a phased approach

Systematize data management practices moving forward, tackle the backlog later

Forward progress is enabled IMPACT 3 by a focus on actionable steps and demonstrable wins

