# Digital Strategy and Innovation at the Library of Congress

## We learned that...

Increasingly, digital is a mindset that shapes every type of engagement and experience.

## which is important because...

Digital and its impact are everywhere, so digital must also be a thread we pull through all Library-level strategic thinking.

# Digital is "Baked In" to the FY24-28 Strategic Plan

## A Library for All

FY2024-2028

## STRATEGIC GOALS

**Expand Access** | **Enhance Services** | **Strengthen Capacity** | **Foster Innovation**

**USER-CENTRIC**
**THE ENDS**

**#1**
**EXPAND ACCESS**
Make our unique collections, experts, and services available when, where, and how our users need them.

**#2**
**ENHANCE SERVICES**
Create valuable experiences for every user to forge lifelong connections to the Library.

**ORGANIZATION-CENTRIC**
**THE MEANS**

**#3**
**STRENGTHEN CAPACITY**
Support our staff and strengthen our operations.

**#4**
**FOSTER INNOVATION**
Explore new approaches and emerging technologies to address challenges and spark creativity.

# Fostering Innovation

**Explore new approaches and emerging technologies to address challenges and spark creativity.**

**Objectives:**

✓ Invite curiosity and experimentation to meet evolving challenges.

✓ Innovate with imaginative approaches and emerging technologies.

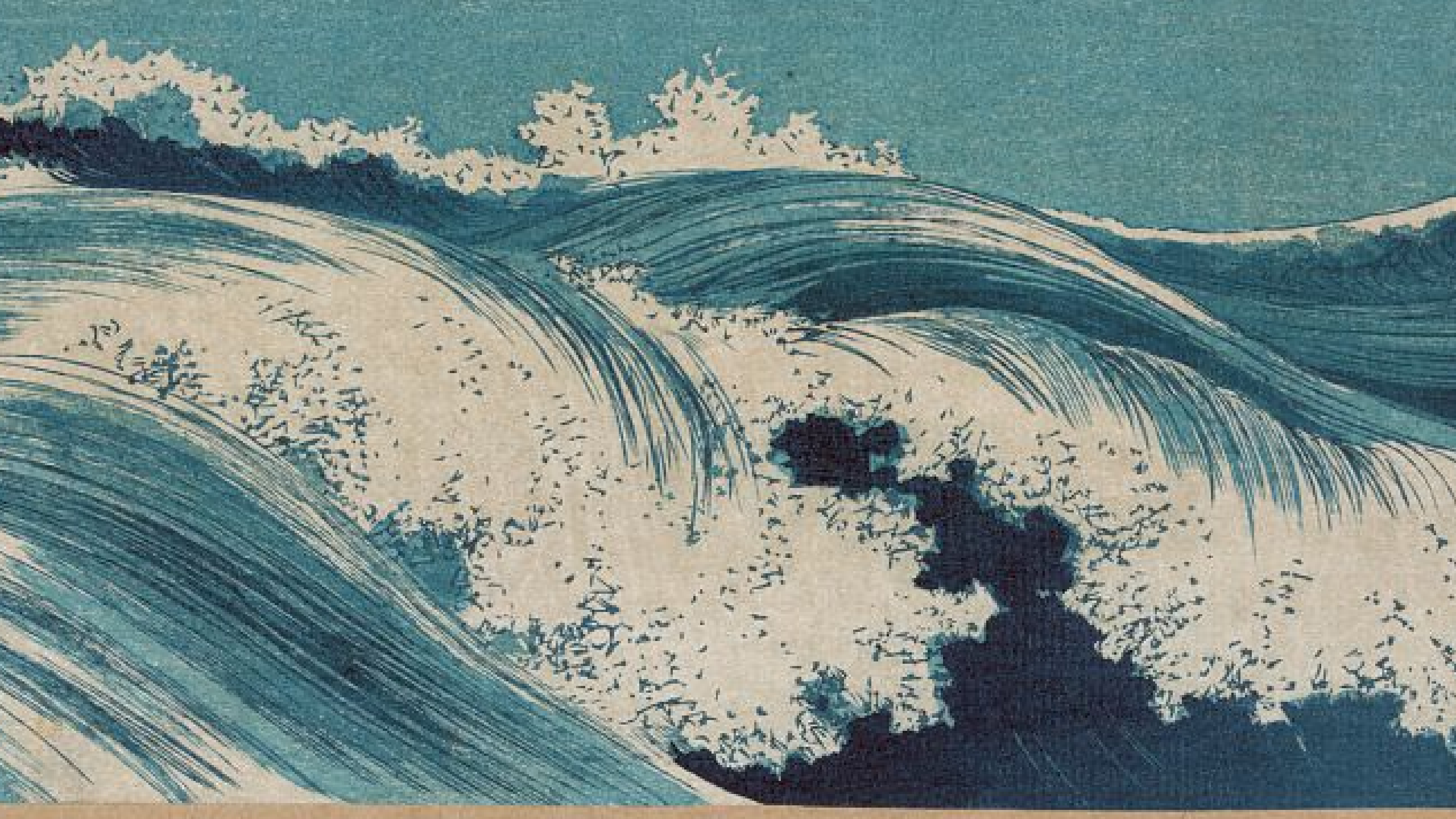✓ Leverage data to discover new paths and opportunities.

# Innovation at the Library

Release and refine processes to support innovation.

How do we keep pace in a fast-changing world? Not only innovation but also strengthening capacity

Digital concepts including strengthening digital accessibility, delivering digital content, cultivating digital skills, and improving digital operations.

# Some Current Experiments

**Exploring Computational Description**

Testing machine learning models to generate full bibliographic records from the textual and/or visual elements from 1 data set of 10,000+ ebooks.

**Generative Data and Text for congress.gov using Machine Learning**

Testing machine learning models to examine bill texts, and the U.S. Code or public law text that the bill text may impact and create relationships between the bill texts and terms from the Geographic Entity and Organization Name vocabularies used by Congress.gov.

**Experimenting with ML for Copyright Historic Record Books**

Experiment with machine generating structured data from historic record books that document copyright registration activities during parts of the 20th century.

# Important Considerations for AI

- Governance is key and many stakeholders have a role in ensuring ethical approaches. Collaboration, partnerships, and communication

- Quality standards are essential, with baseline and on-going development

- Experiment before implementing – iterate, iterate, iterate

- Data is the foundation

- Ethical AI considerations start from the beginning and with any AI system. Even with ambient AI, human review or intervention needed – Humans in the Loop

- Bias can be imbedded in almost every part of an AI system. The application, the training data, the algorithms, the data sets, the language

- Traceability and continuous improvement is key for correcting all parts of the AI system, especially historical data and sources

# Trust and Authenticity

# Collaboration is Key

# Thank You

**Natalie Buda Smith**
Director of Digital Strategy
Office of the Chief Information Officer

Library of Congress

linkedin.com/in/nataliebuda/

**nsmith@loc.gov**