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Digital Strategy and Innovation at the Library of Congress

648. General view—Boston Public Gardens.

Digital is “Baked In” to the FY24-28 Strategic Plan

A Library for All

FY2024-2028

STRATEGIC GOALS



**Expand
Access**



**Enhance
Services**

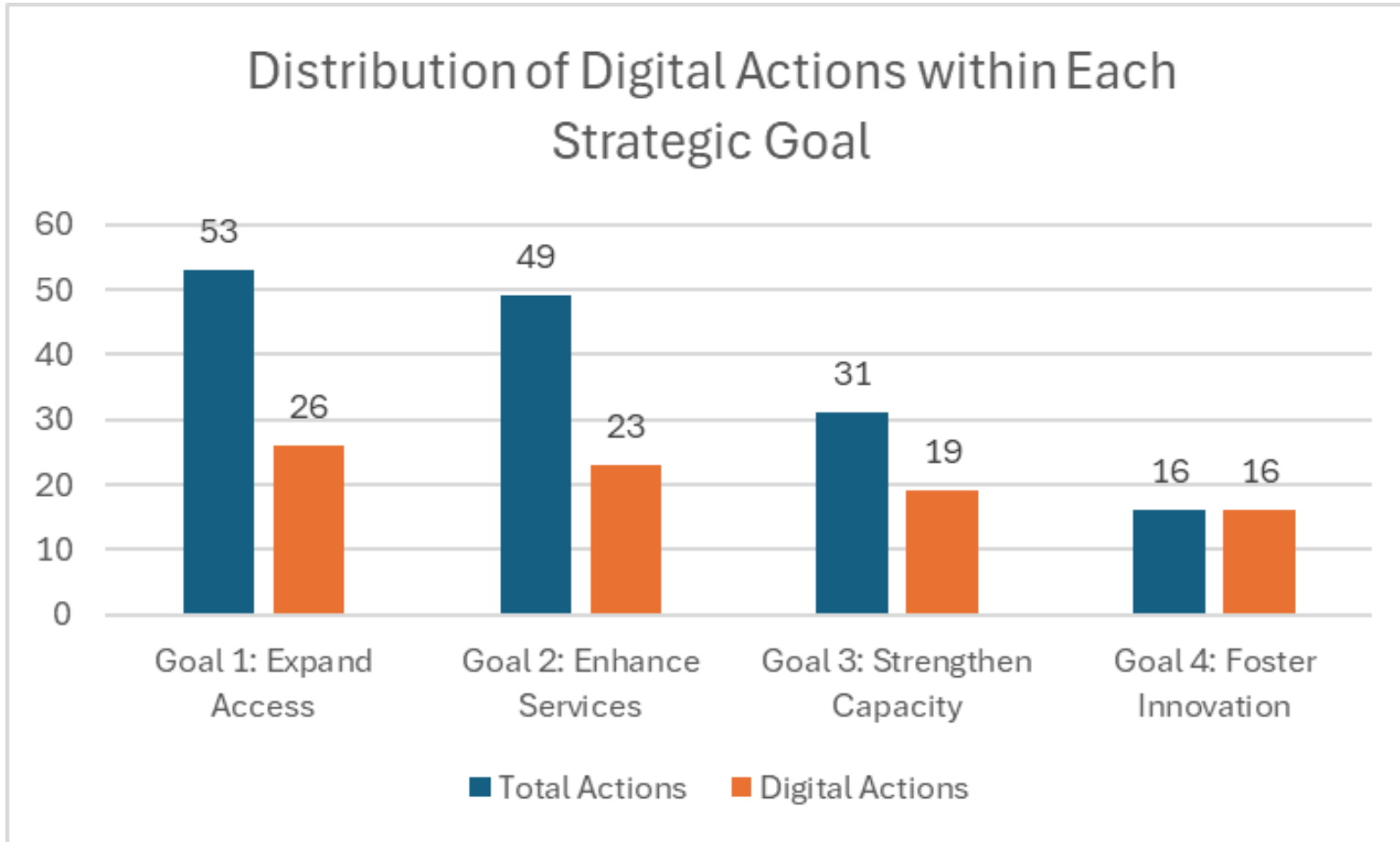


**Strengthen
Capacity**



**Foster
Innovation**

Our Digital Transformation Continues



Expand Access

6% Increase

Enhance Services

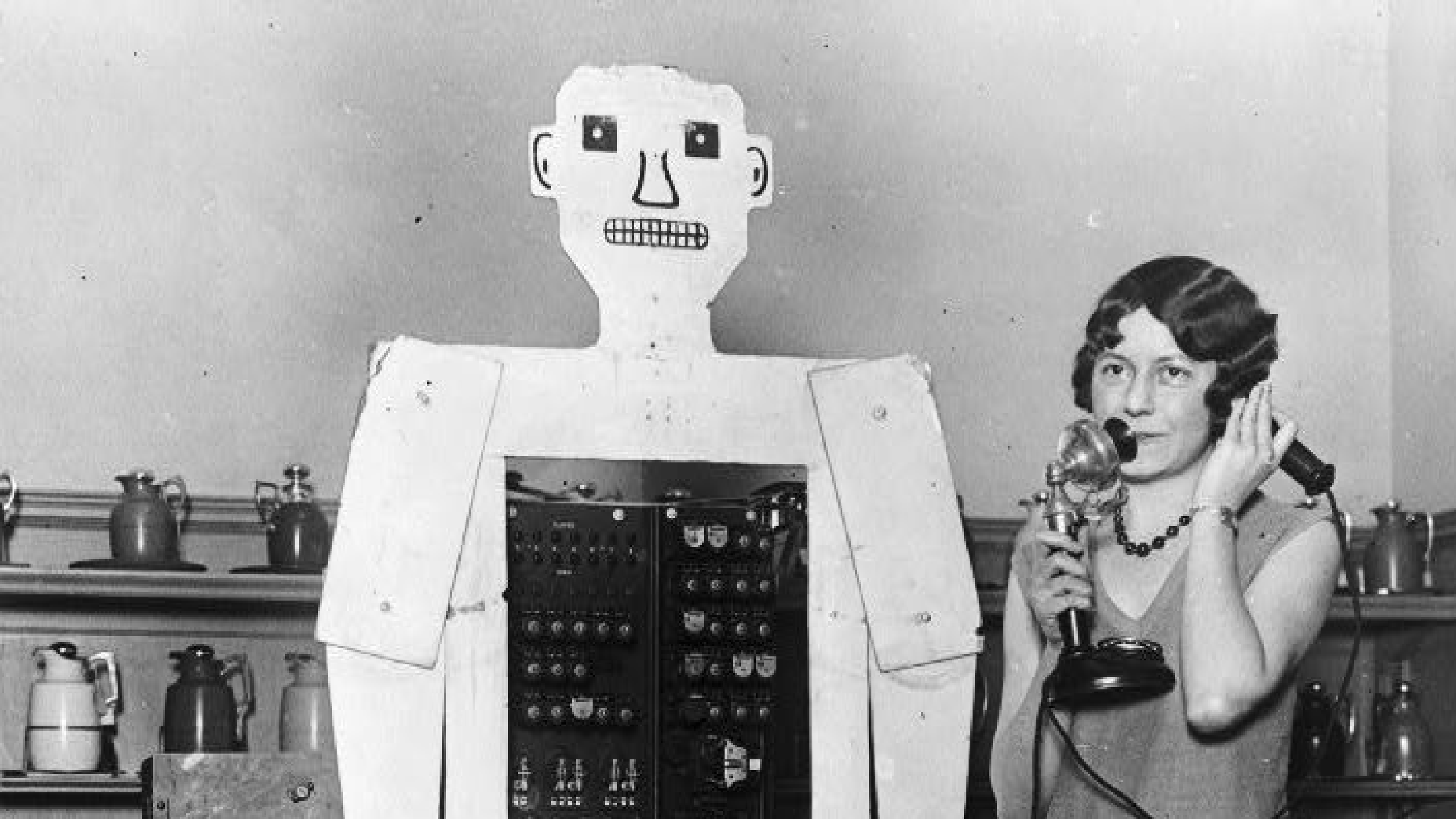
No change

Strengthen Capacity

26% Increase

Foster Innovation

46% Increase



Our AI Strategy and Governance Matures

- Governance is key and all of us have a role in ensuring responsible approaches, to build on established trust. **Every outcome is to be trustworthy, authoritative, and authentic.**
- **Exploration before implementation.** Continuous effort is key for managing AI systems, models change quickly, and benchmarks are needed.
- AI technologies are improving rapidly but the **Library's approach builds on a strong foundation of governance and IT security.**
- There is no one-size fits all AI. There are many services that can be used in many domains. **Our approaches will ensure well-scoped, authoritative approaches rooted in decades of technological innovation.**
- The current best application of AI is in improving workflow – and the best to make these decisions are the staff in that workflow. Responsible AI considerations start from the beginning as bias and inaccuracy occur. **Our staff and their expertise are a necessity to balances human judgment with machine capabilities.**

DNA Data Storage Initiative



▪ **Origins:** As part of the Library's strategic goal to foster innovation, Public Law 118-47 tasks the Library to explore innovative data storage and migration techniques. The Library chose to begin this initiative with a pilot project to explore the feasibility of utilizing synthetic DNA data storage as a method to store our digitized preservation collection.

▪ **Intended Outcomes:** The Library aims to demonstrate the feasibility of DNA as a high-density, scalable, and durable medium for storing the Library's digital collections. This work will contribute to the growing field of DNA-based data storage while pushing the boundaries of data preservation.

▪ **Current Status:**

- The Library issued a contract to the University of Washington's Molecular Information Systems Lab (MISL) in September 2025.
- MISL has successfully synthesized, stored, and validated ~1.0GB of the total 1.5GB of data provided.
- The Library and MISL are engaging with the DNA Data Storage Alliance to hopefully use this project to positively influence the greater DNA data storage community.
- The Library and MISL are continually collaborating to ensure successful participation in the A250 celebrations.



Collaboration is Key





Thank You

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