The LOCKSS Program and Sustainability

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Long Term Survival Characteristics

• Cheap to maintain
  – Cheapest to maintain are things that were lost for example the dead sea scrolls

• Inexpensive infrastructure:
  – Made of worthless materials, for example the pyramids (mud bricks)

• Critical mass of replicas:
  – Nursery rhymes, ring around the rosy from 1300s

• Decentralized control to outlive funding and political cycles:
  – Hindu religion.
Budget Cuts Are Key Threat

• Costs shared widely
  – Total system is never a line item
  – Low management overhead
  – Low capital cost

• IP issues simplified
  – Straight forward blanket license terms
  – No “negotiated” access
  – Locally owned collections

• No single point of failure
Technology Engineered For Sustainability

- Distributed Repository Model Technology
  - Uses many “unreliable repositories” (PCs)
  - Robustness through redundancy
  - Inexpensive consumer hardware
  - Low sys admin overhead

- Leverages web technology
  - HTTP delivered and displayed content, all formats
  - No need to replicate publisher’s system
  - Automated content ingestion over time

- No single point of failure
Two Kinds Of LOCKSS Networks

- **Global** LOCKSS network
  - “General library collections”
- **Private** LOCKSS networks
  - “Special library collections”
Global LOCKSS Network
450+ Publishers

Publishers and Titles

Content Available for Collection and Preservation

The publishers listed below have selected LOCKSS as their digital preservation partner. LOCKSS Alliance members can collect and preserve all Open Access titles as well as those e-journals and e-books to which they subscribe. Please bookmark this page and check back often as new titles are added regularly.

The following is an alphabetical list of participating LOCKSS publishers. You can also refer to the all-in-one list of publishers and titles.
Background

• From 1998 – 2004
  – Grants from NSF, Mellon,
  – Research contributed from Sun, HP, Harvard Computer Science, Stanford Computer Science

• From 2004
  – Stanford University entrepreneurial unit
Where We Are Now

• Income
  – Since 2004
    • Have had enough money to pay expenses
    • Have had enough money to continue to innovate

• Expenses
  – Primarily salaries
Current Focus

• Ramping up staff to provide
  – Support for Private LOCKSS Networks
  – More content for Global LOCKSS Network
Discussion....

Thank you.