Community-driven Models for Distributed Digital Preservation Using LOCKSS

Art Pasquinelli
LOCKSS Partnerships Manager
Stanford University Libraries

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“The whole is greater than the sum of its parts.”
-Aristotle
what is LOCKSS?

- a proven and widely accepted **principle** for distributed digital preservation
- peer-to-peer **software**; infrastructure agnostic
- an international **community** of institutions and networks
- a **program** of Stanford Libraries

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community-centric

• preservation is an active community effort
• enable preservation of the content your community cares about
• you set the levels of preservation you want
• you own your community’s governance
• lots of communities keep stuff safe
more than lots of copies

• lots of copies is **necessary but not sufficient**
• central points of failure **can undermine all copies at once**
• don’t underestimate:
  • people making **mistakes**
  • data and media **migrations**
  • **attacks** on information
  • organizational **failure**
• LOCKSS provides a framework of mutually-distrusting, independent peers
lots of LOCKSS networks

• growing number of networks
• hundreds of institutions
• all types of content
• national network discussions
• preservation via diversity of:
  • technologies
  • institutions
  • networks
  • use cases
technical re-architecture

• conserve + extend existing functionality
• re-architect major components as documented web services
• incorporate LOCKSS community innovations
  • monitoring dashboard
  • LOCKSS-O-Matic
• enhance sharing and integrations to other groups

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immediate goals

• **share** innovation between LOCKSS Networks
• raise LOCKSS **mindshare** with global preservation and repository communities
• initiate global **collaborations** and integrations
• publicize LOCKSS’ **flexibility**
Our project started 6 years ago in Belgium...
Ceci n’est pas un PLN !
Oh, come on! Tell me you have a backup of Belgium!
SAFE currently has 8 members
SAFE: WHAT?

- Digitized books
- Maps
- Pictures

- Theses and publications (IR)

- Academic content
- Research data

OPEN ACCESS
Key LOCKSS aspects for our network

“poll/repair” is the key component for us

share resources, not money, light organization

distributed technical administration