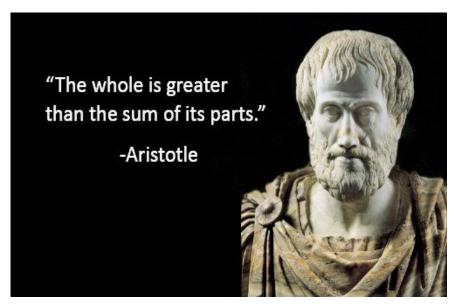




### Community-driven Models for Distributed Digital Preservation Using LOCKSS

Art Pasquinelli LOCKSS Partnerships Manager Stanford University Libraries

ILIDE Conference April 15-16, 2018



#### 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



"<u>Cologne Love Padlocks</u>" by <u>orkomedix</u> under <u>CC BY-NC-SA 2.0</u>



#### 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





CGI



The Alabama Digital Preservation Network

Council of Prairie and

DIGITALCOMMONS"

powered by bepress

Pacific University Libraries

SAFE PLN

SAFE Archiving FEderation

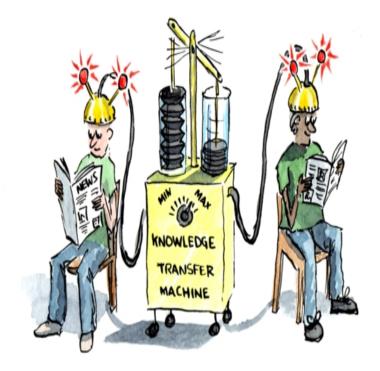






#### technical re-architecture

- 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



"New York Reflection" by <u>Reto Fetz</u> under <u>CC BY-NC-SA 2.0</u>



### immediate goals

- share innovation between LOCKSS Networks
- raise LOCKSS mindshare with global preservation and repository communities
- initiate global collaborations and integrations
- publicize LOCKSS' flexibility



30th November 2017





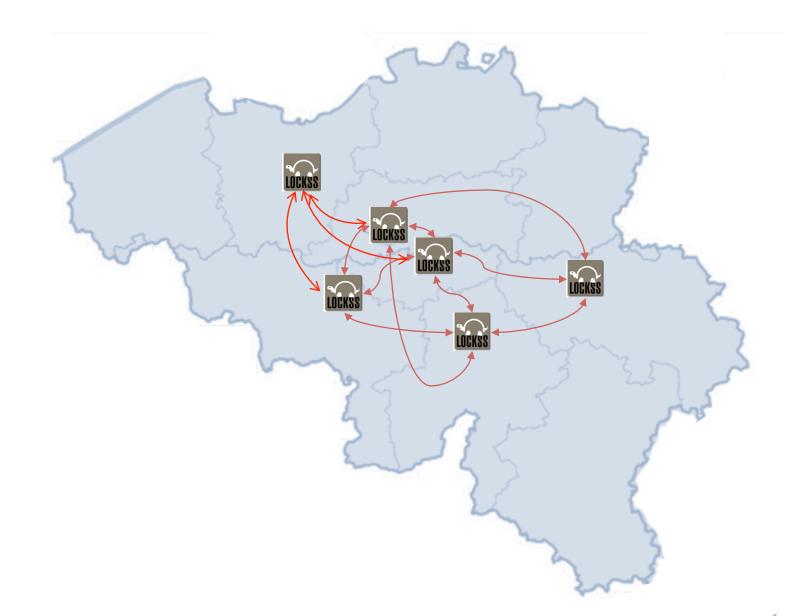


# SAFE CAFE Archiving FEderation

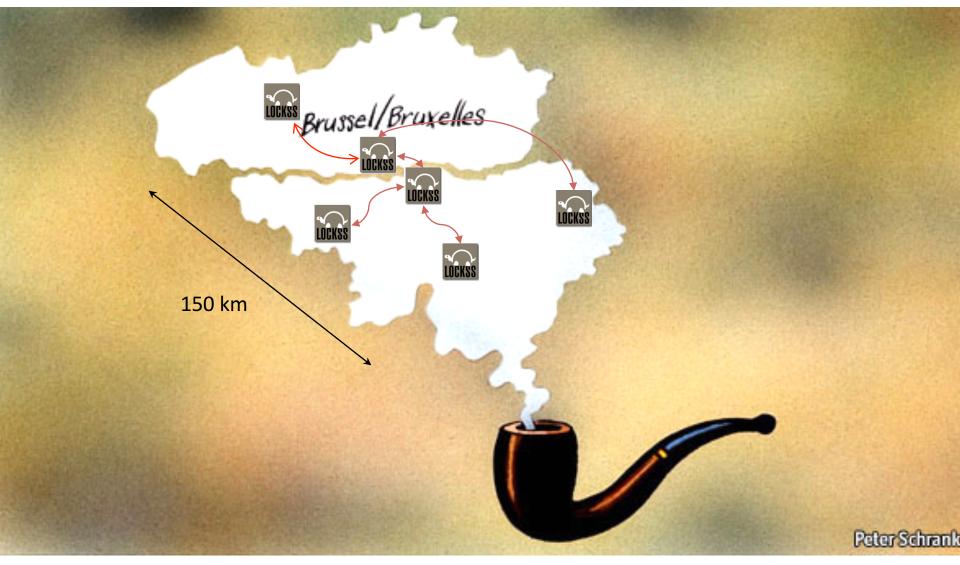
#### SAFE Archiving FEderation



## Our project started 6 years ago in Belgium...

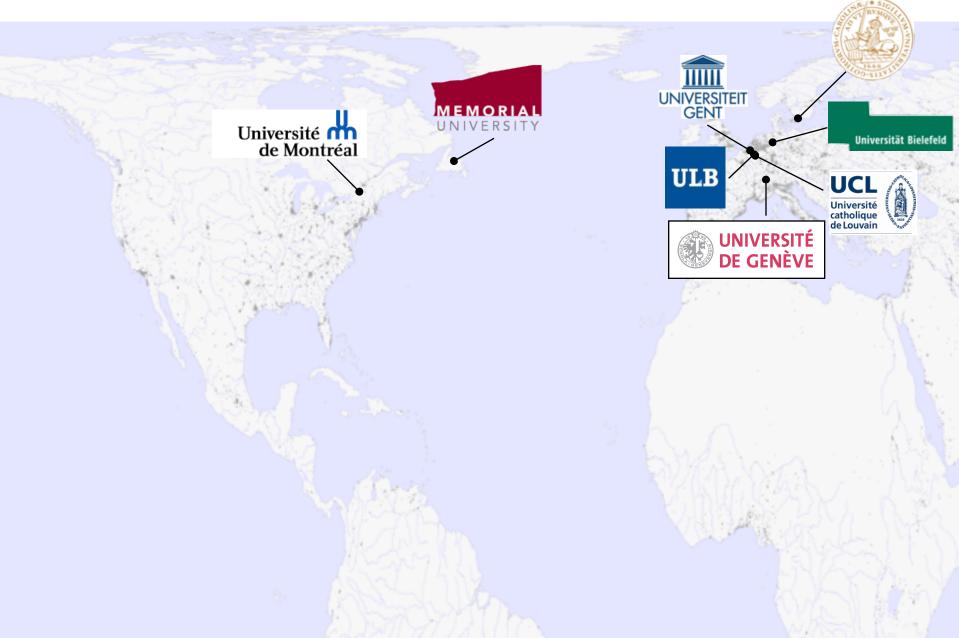






Oh, come on! Tell me you have a backup of Belgium!









Digitized books Maps Pictures



Theses and publications (IR)





Academic content Research data





#### "poll/repair" is the key component for us



share resources, not money, light organization



distributed technical administration