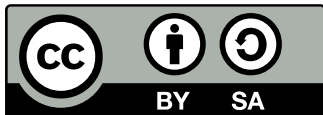


# Preservation and discovery for GIS data

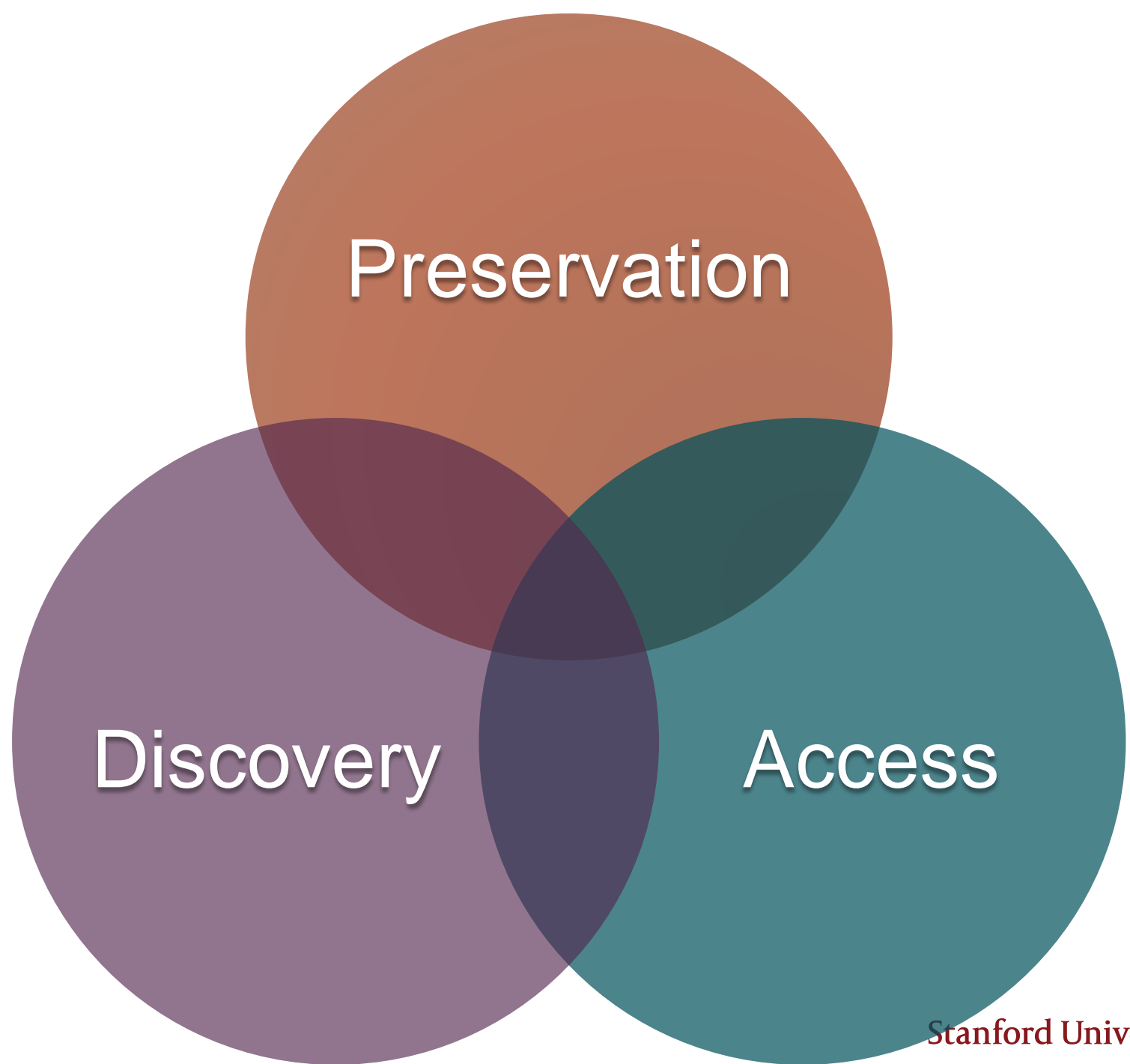
ESRI USER CONFERENCE 2015

Jack Reed | @mejackreed





Stanford Library Reading Room, 1940's  
© Stanford University



Preservation

Discovery

Access

## Preservation of GIS Data

Who has a preservation plan for their geospatial data?

## Preservation of GIS Data

Can your organization afford the loss of data or metadata?



We treat GIS data in an ephemeral manner [Stanford University](#)



## Preservation of GIS Data

Preservation goes beyond just “having backups” or even “having a disaster recovery plan”.



## Preservation of GIS Data

“...all of the actions required to maintain access to digital materials beyond the limits of media failure or technological change.”

- Digital Preservation Coalition

# Digital Preservation

Appraisal

Identification

Integrity

Sustainability

Metadata

Access

Fixity

Format  
Obsolescence

Renderability



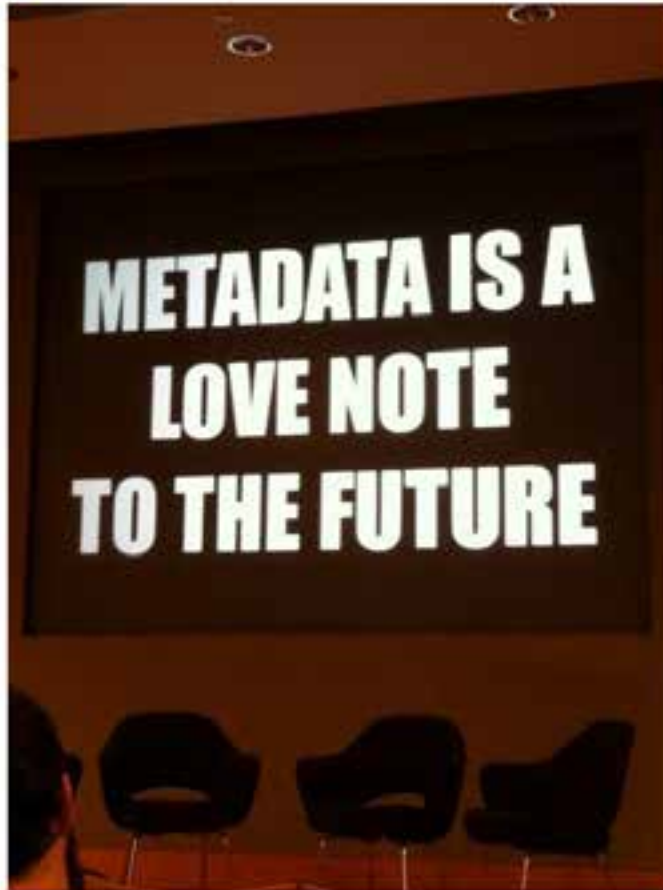
Erin Kissane  
@kissane

Follow

"Metadata is a love note to the future."  
[#nypl\\_labs](#) [twitpic.com/6ry6ar](#)



TwitPic



By Erin Kissane @kissane

[View on web](#)

RETWEETS  
81

FAVORITES  
43



9:55 AM - 28 Sep 2011

<https://twitter.com/kissane/status/11902764200804352>

@textfiles

## Preservation of GIS Data

ArcGIS Desktop 10.x software supports:

§ +31 data formats

§ +84 raster formats

How can +115 formats be supported for future use?

## Discovery of GIS Data

Discovery has traditionally meant  
“geoportals”

## Discovery of GIS Data

But lately ... open data portals have taken over this space



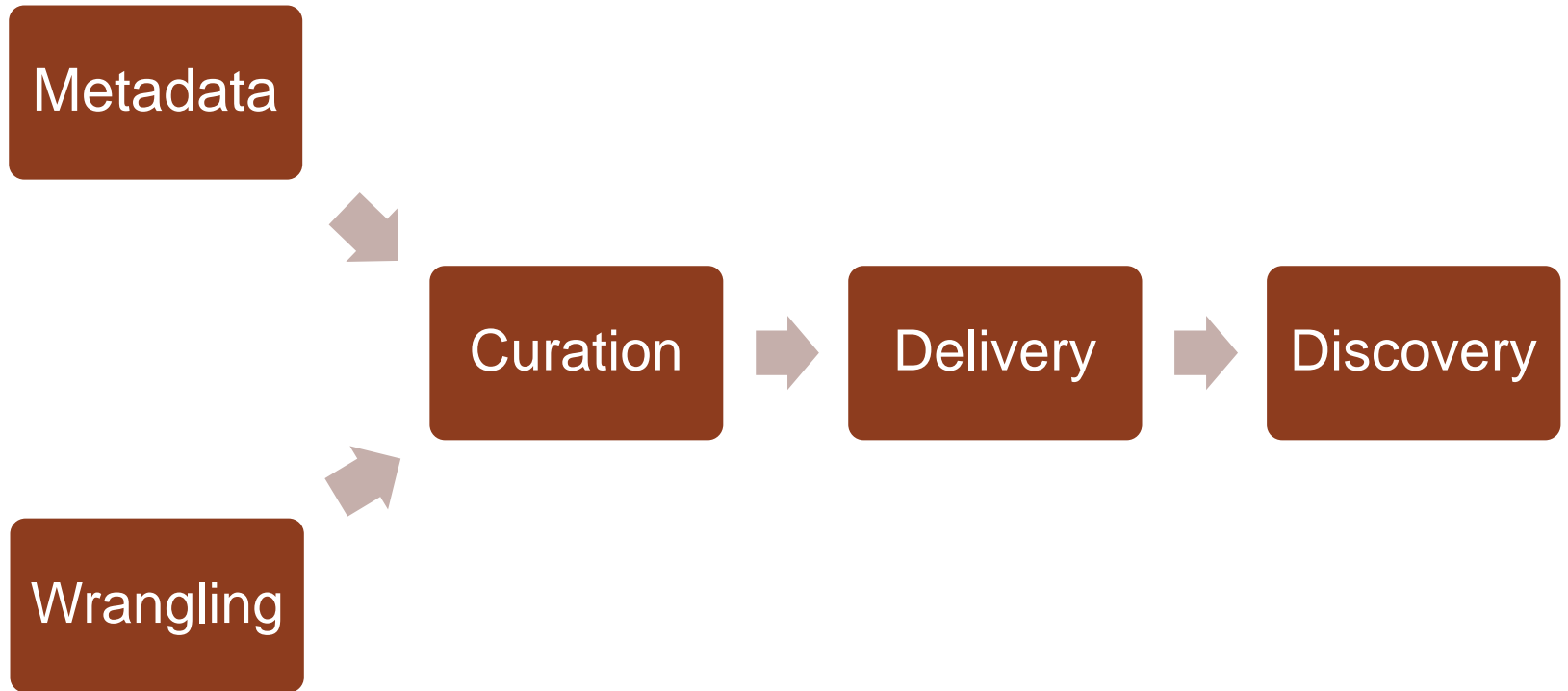
## Discovery of GIS Data – emergence of GeoBlacklight

- Do one thing really well
- Align technology stacks
- We found others with the same needs as us
- Build on the foundation of an existing ecosystem
- Combine preservation with the power of discovery
- Support variety web services (WMS, WFS, IIIF, MapService, FeatureService)





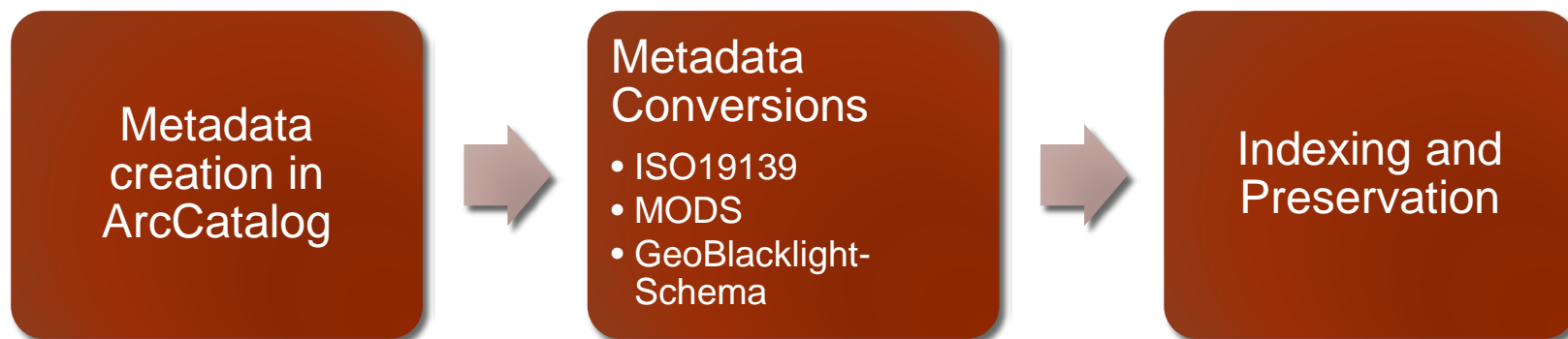
## Bringing it all together



## Bringing it all together



## Bringing it all together



Stanford Spatial Data Infrastructure

Data is available and accessible to  
the public at:

<https://earthworks.stanford.edu>

# Thanks!

For more information about GeoBlacklight:

<http://geoblacklight.org>

To collaborate on some of these problems together join us on the Hydra Geospatial Interest Group:

<https://wiki.duraspace.org/display/hydra/Hydra+Geospatial+Interest+Group>