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# Digital Asset Management System Assessment: Use Cases for Digital Infrastructure Re-design

Steve Van Tuyl
*Oregon State University*

Hui Zhang
*Oregon State University*

Amanda L. Whitmire
*Oregon State University*

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Eventually everything connects - people, ideas, objects. The quality of the connections is the key to quality per se.

-Charles Eames

Steve Van Tuyl, Data & Digital Repository Librarian
Amanda L. Whitmire, Data Management Specialist
Hui Zhang, Digital Applications Librarian



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Minc, Leah D.



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# Host and Habitat Index for Phytophthora Species in Oregon: Supplemental Spreadsheet

**Hansen, Everett; Reeser, Paul; Sutton, Wendy; Sims, Laura**



**File Name:** View/Open
HansenEBotanyandPlantPathologyHostHabitatIndexPhytophthora.xlsx
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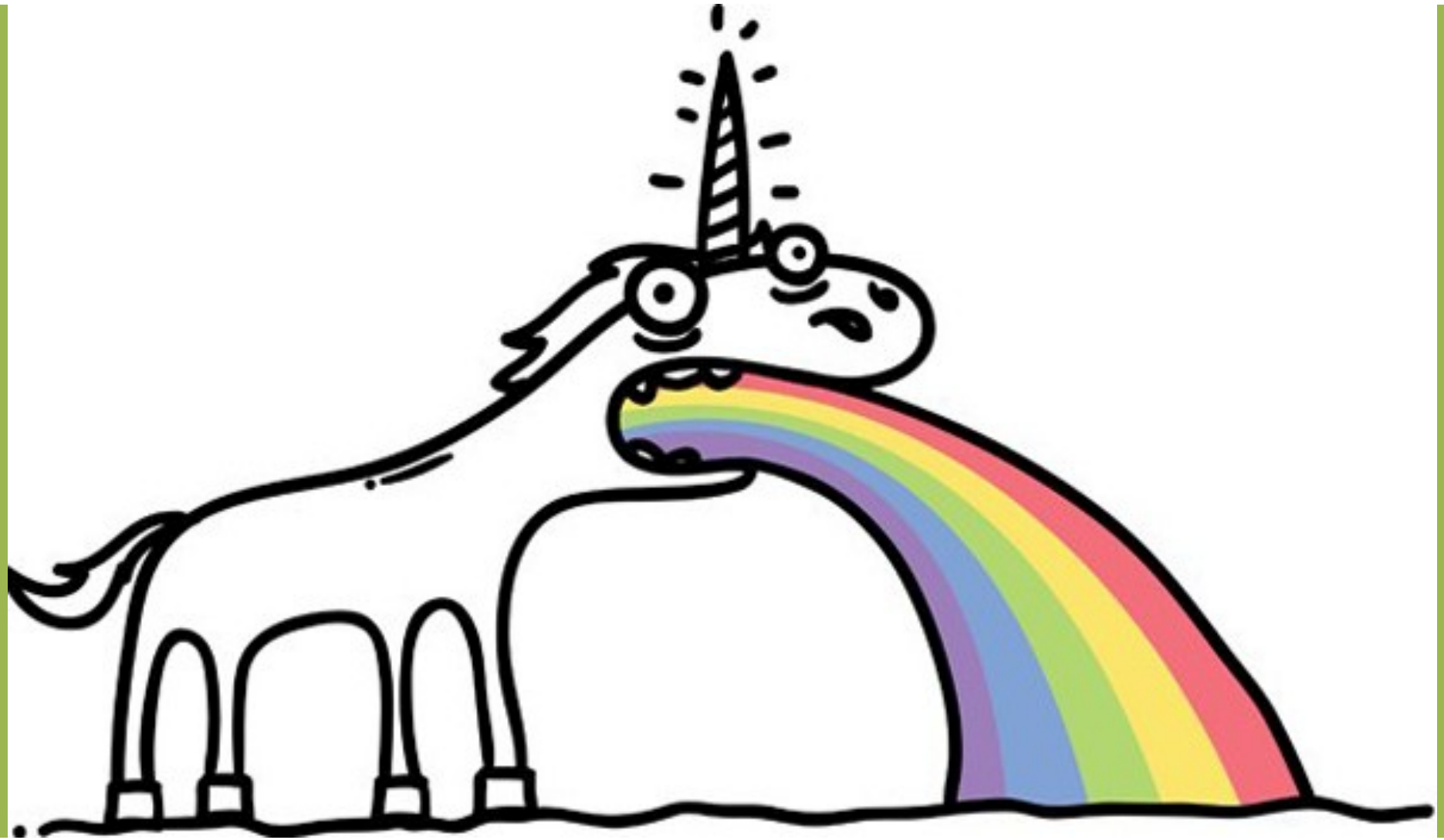
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## Description:

Suggested citation: "Hansen, Everett; Reeser, Paul; Sutton, Wendy; Sims, Laura (2014): Host and Habitat Index for Phytophthora Species in Oregon: Supplemental Spreadsheet. OSU Libraries. Dataset. http://dx.doi.org/10.7267/N99G5JR4"

See related paper: Hansen, E., Reeser, P., Sutton, W., and Sims, L. 2012. Host and habitat index for Phytophthora species in Oregon. Forest Phytophthoras 2(1). doi: 10.5399/osu/fp.2.1.3026

**Keyword:** Phytophthora
Oregon



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# How to proceed?

"What do you need in an IR?"



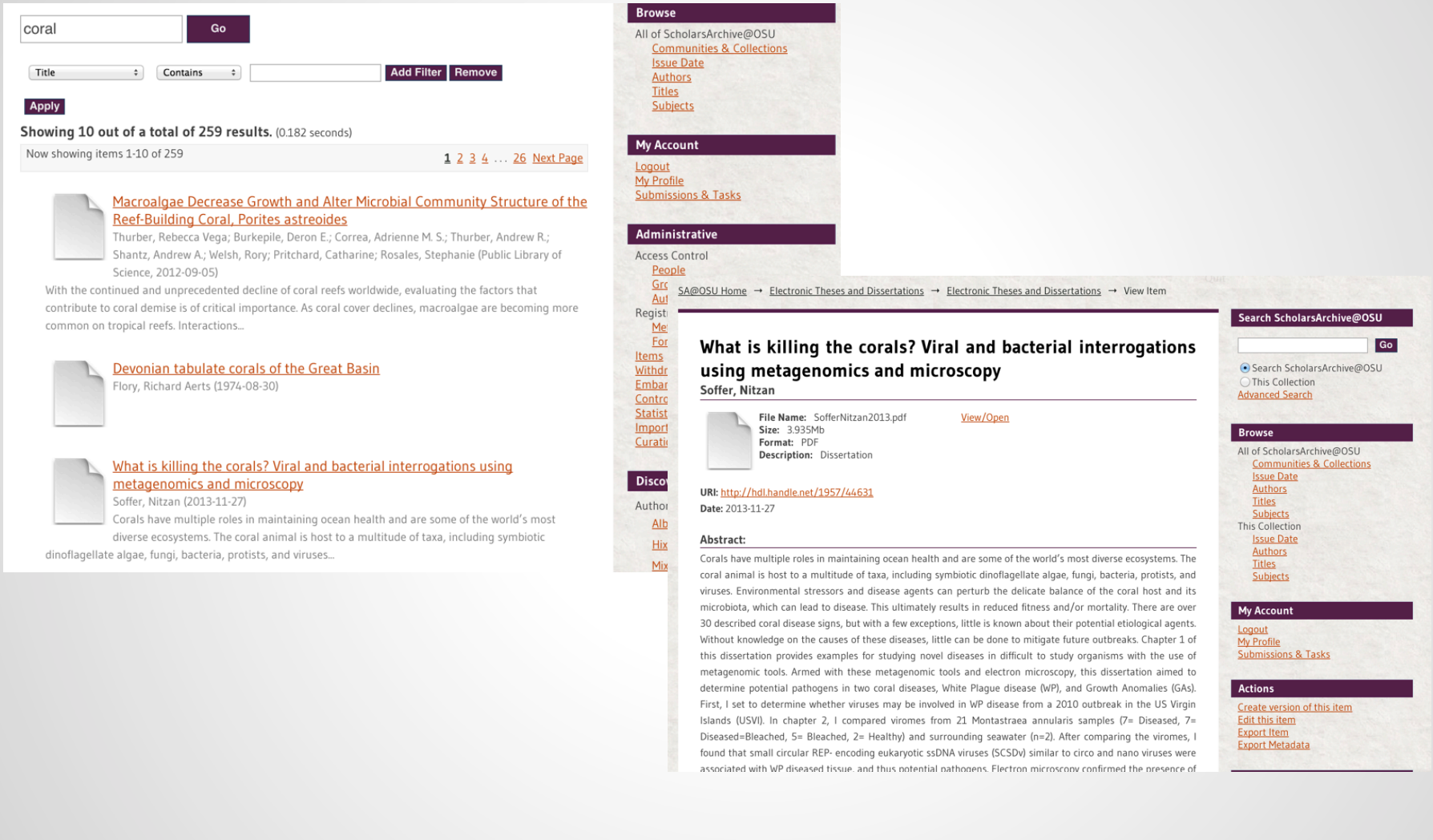
# Requirements analysis results

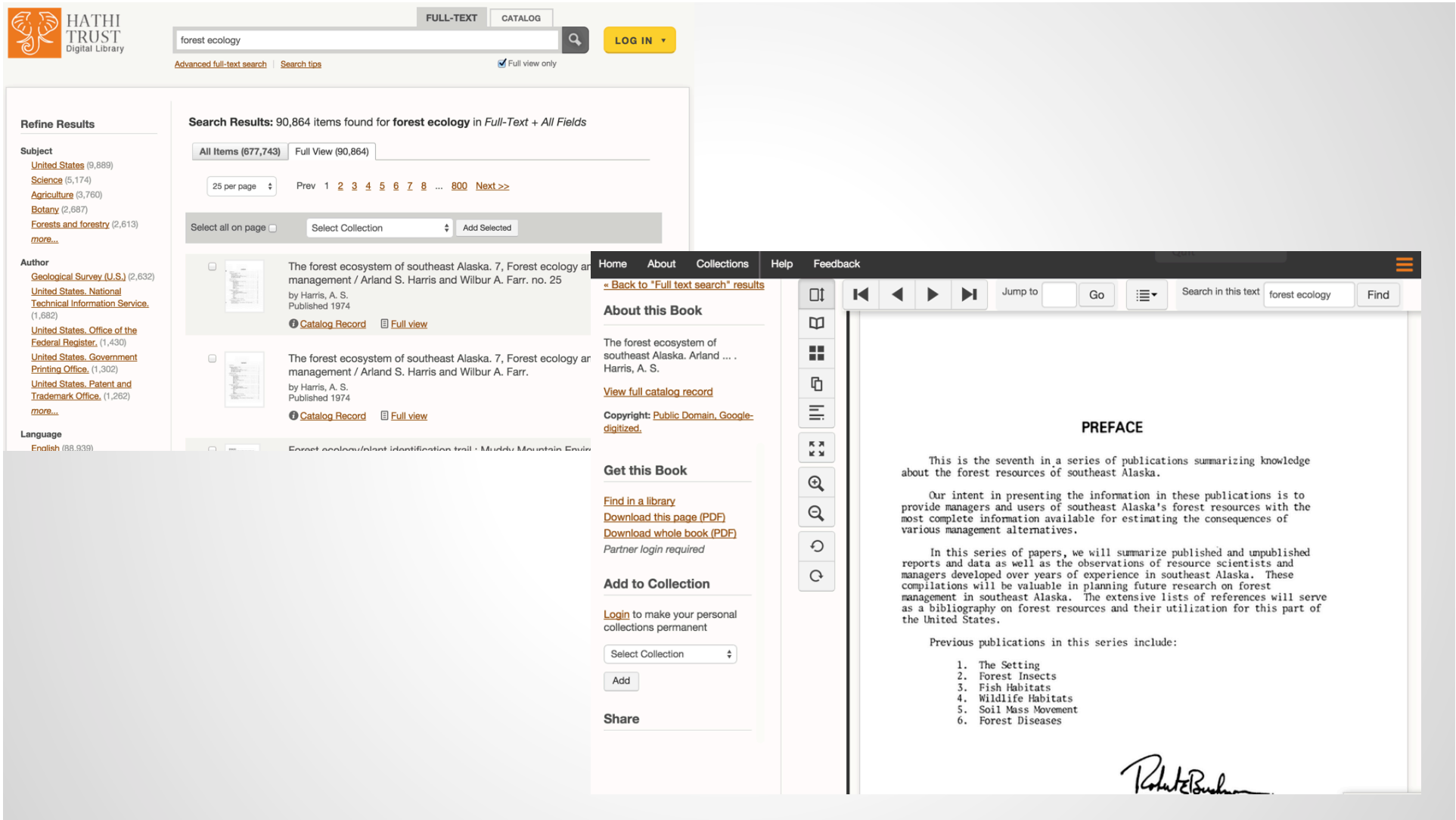


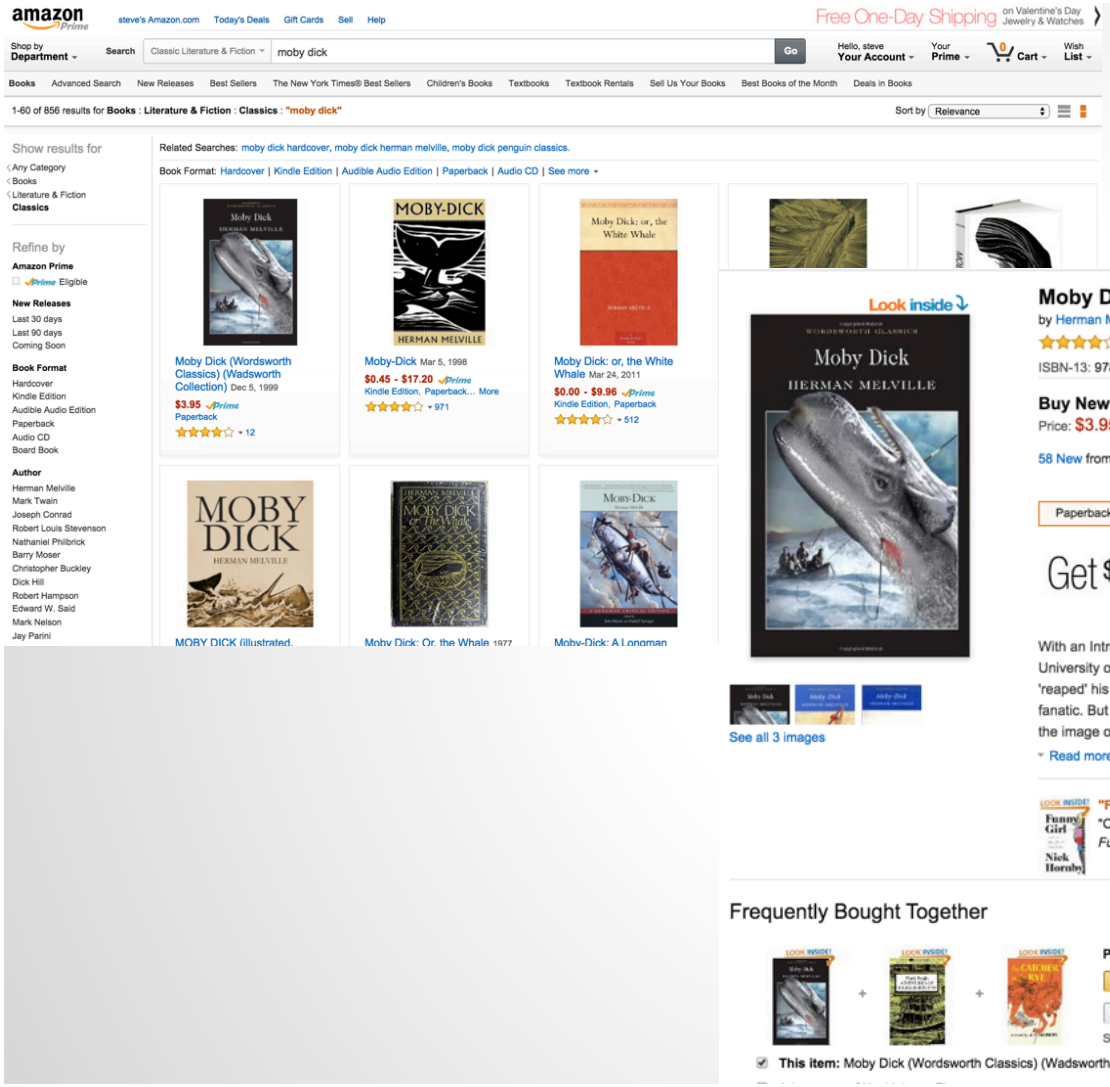
Core functions are *okay*

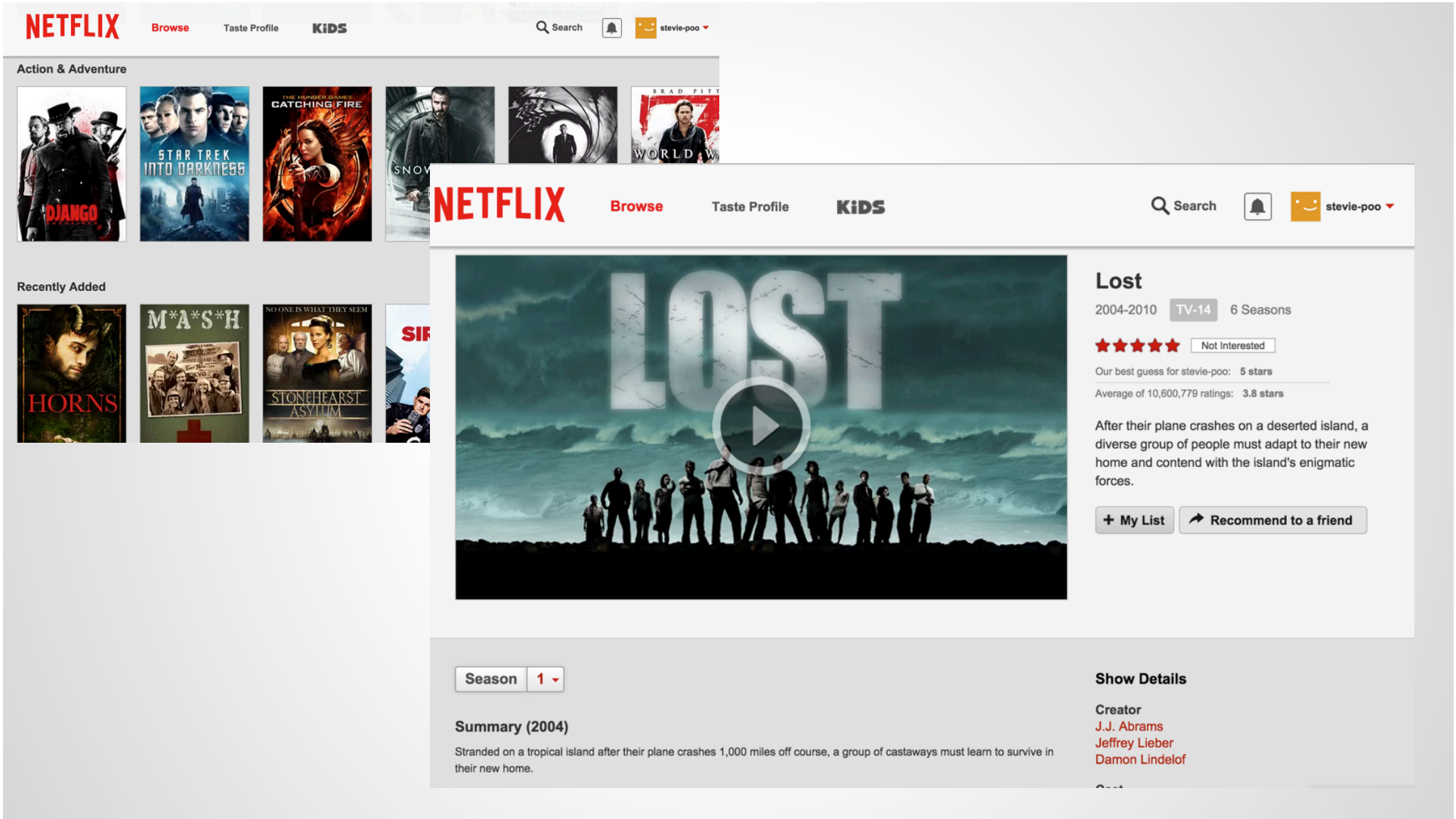
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With the continued and unprecedented decline of coral reefs worldwide, evaluating the factors that contribute to coral demise is of critical importance. As coral cover declines, macroalgae are becoming more common on tropical reefs. Interactions...
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What is killing the corals? Viral and bacterial interrogations using metagenomics and microscopy
Soffer, Nitzan (2013-11-27)
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What is killing the corals? Viral and bacterial interrogations using metagenomics and microscopy
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URI: http://hdl.handle.net/1957/44631
Date: 2013-11-27
Abstract:
Corals have multiple roles in maintaining ocean health and are some of the world's most diverse ecosystems. The coral animal is host to a multitude of taxa, including symbiotic dinoflagellate algae, fungi, bacteria, protists, and viruses. Environmental stressors and disease agents can perturb the delicate balance of the coral host and its microbiota, which can lead to disease. This ultimately results in reduced fitness and/or mortality. There are over 30 described coral disease signs, but with a few exceptions, little is known about their potential etiological agents. Without knowledge on the causes of these diseases, little can be done to mitigate future outbreaks. Chapter 1 of this dissertation provides examples for studying novel diseases in difficult to study organisms with the use of metagenomic tools. Armed with these metagenomic tools and electron microscopy, this dissertation aimed to determine potential pathogens in two coral diseases, White Plague disease (WP), and Growth Anomalies (GAs). First, I set to determine whether viruses may be involved in WP disease from a 2010 outbreak in the US Virgin Islands (USVI). In chapter 2, I compared viromes from 21 Montastraea annularis samples (7= Diseased, 7= Diseased=Bleached, 5= Bleached, 2= Healthy) and surrounding seawater (n=2). After comparing the viromes, I found that small circular REP- encoding eukaryotic ssDNA viruses (SCSDv) similar to circo and nano viruses were associated with WP diseased tissue, and thus potential pathogens. Electron microscopy confirmed the presence of
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PREFACE
This is the seventh in a series of publications summarizing knowledge about the forest resources of southeast Alaska.
Our intent in presenting the information in these publications is to provide managers and users of southeast Alaska's forest resources with the most complete information available for estimating the consequences of various management alternatives.
In this series of papers, we will summarize published and unpublished reports and data as well as the observations of resource scientists and managers developed over years of experience in southeast Alaska. These compilations will be valuable in planning future research on forest management in southeast Alaska. The extensive lists of references will serve as a bibliography on forest resources and their utilization for this part of the United States.
Previous publications in this series include:
1. The Setting
2. Forest Insects
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5. Soil Mass Movement
6. Forest Diseases

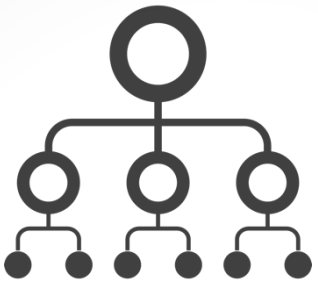

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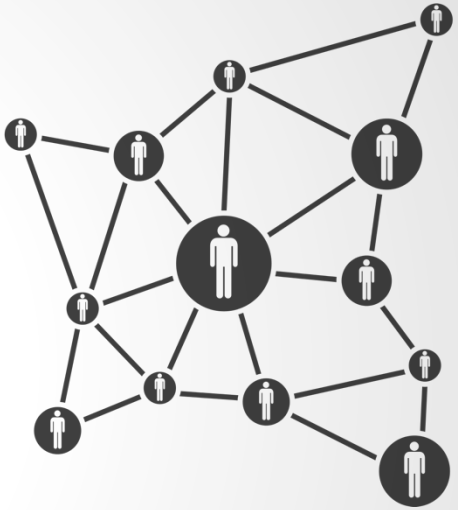
# So, the next platform should...



link between objects



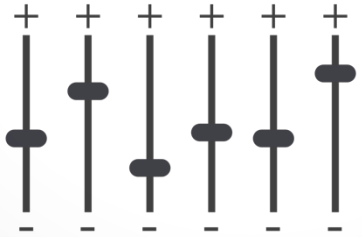
hierarchical relationships



have a broad community of developers & users



improved UI & UX



extendable & customizable

DIGITALCOMMONS™ + bepress™

## Pros



easy setup



easy to maintain

## Cons



difficult (impossible?) to extend & customize

not flexible



lack of features to support data



DSPACE

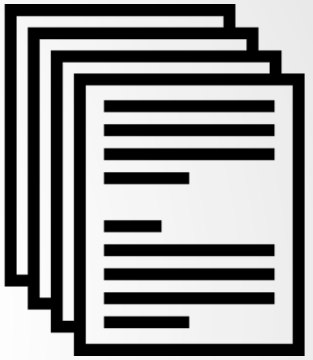
## Pros





## Cons





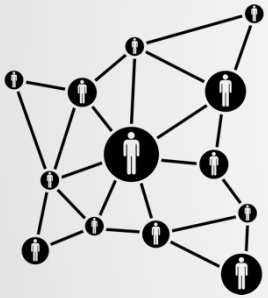


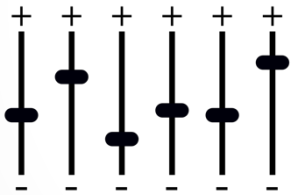


Sufia

hydra

## Pros







flexible, customizable
supported by broad community

## Cons



requires substantial
development work

# And, our decision is...

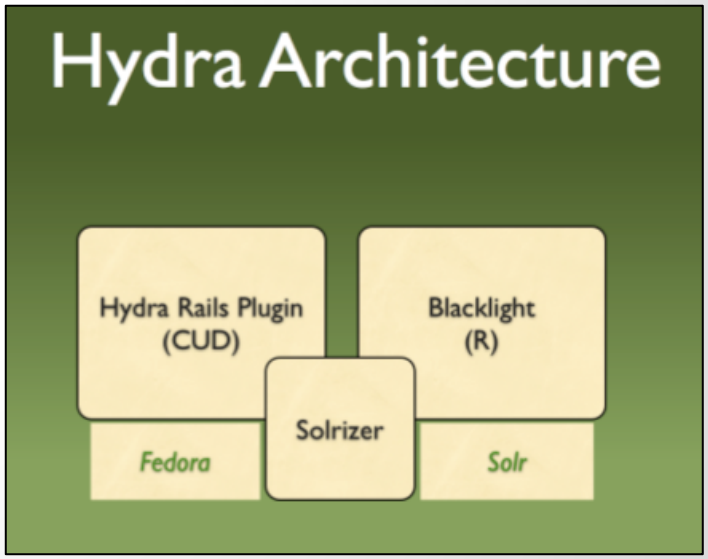
## Sufia, a Hydra platform

The decision is made on:

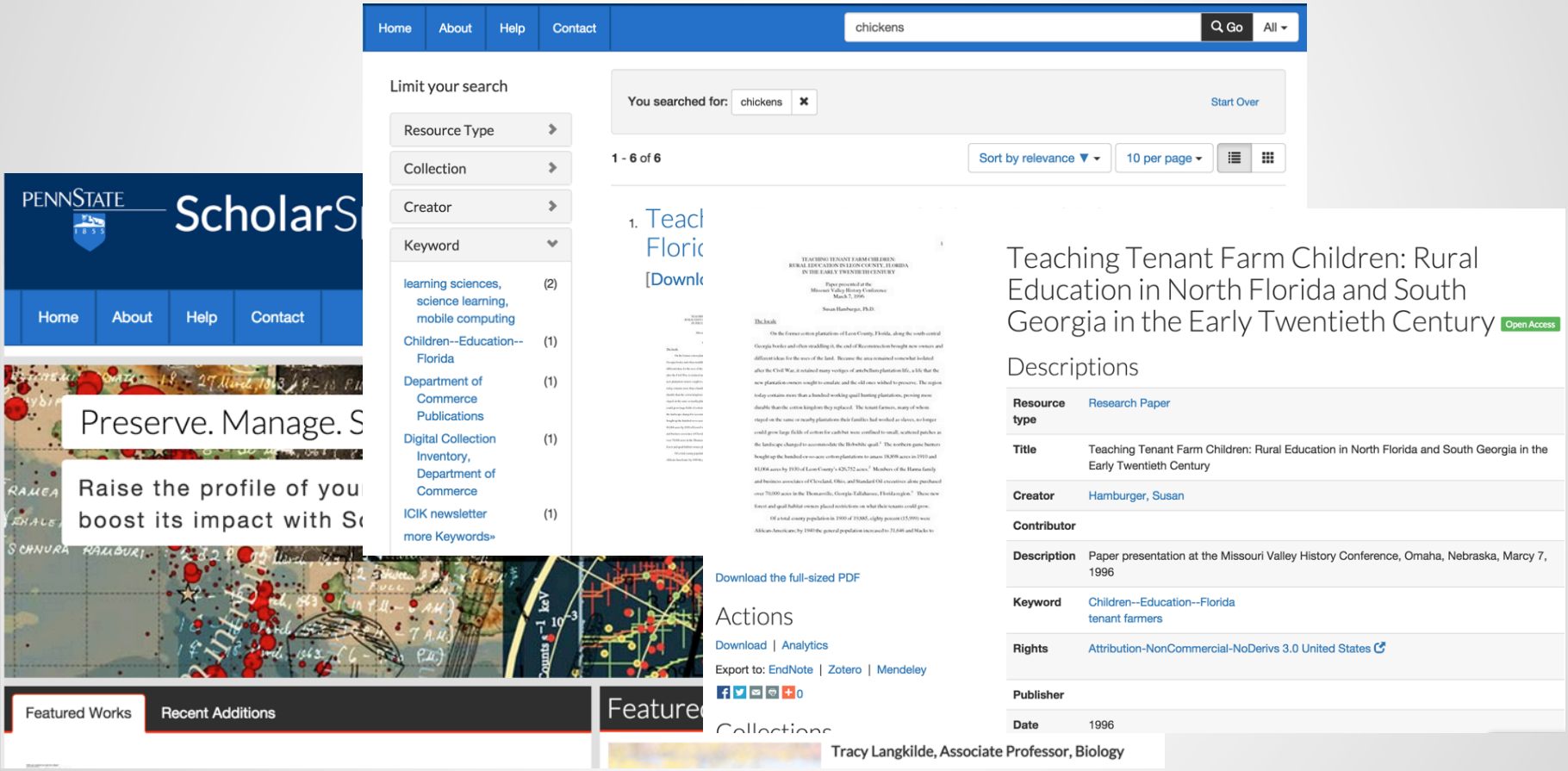
- functionalities
- long-term sustainability
- development resources

Development resources

- local: OSU Libraries developers
- Hydra community: development interest aligns with our needs

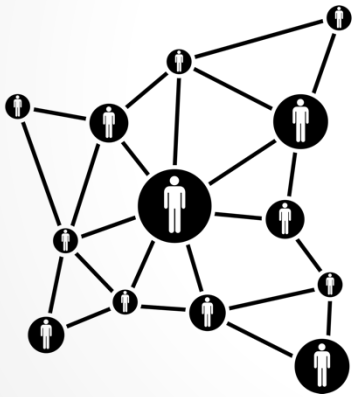


# And, our decision is...



# solutions

how does this move solve our exemplar problem?





# Next Steps

- phased approach for project this large
- phase I
  - implement all functions we need for support research data
  - migrate data collections to new repository
- phase II
  - implement mediated deposit
  - train library staff
  - migrate all collections to new repository

