



cons - bio
nat. res. management
circles of sustainability

environmental movement
ecology movement
ecology / health / human rights

Other ecologies?

human
landscape
political
deep

↑ scale
↓

behavioral / organismal } individuals on abiotic env.
population }
community } organisms on organisms, resources, etc
ecosystem }
global } flows of energy, nutrients

built env.

{ landscape urban information

agro-ecology
industrial ecology
spiritual ecology
restoration ecology
chemical ecology
social ecology
ecology

terrestrial / aquatic

- Dialectical Naturalism

Marx's metabolic [NAT]

scientific study of organisms & environment

a series of environmentally oriented values

* Is there morality in an ecosystem?
in an organism? in something made by man?

* what is the fundamental of ecology
organisms $\xleftrightarrow{\text{energy}}$ environment
 $\xleftrightarrow{\text{materials}}$

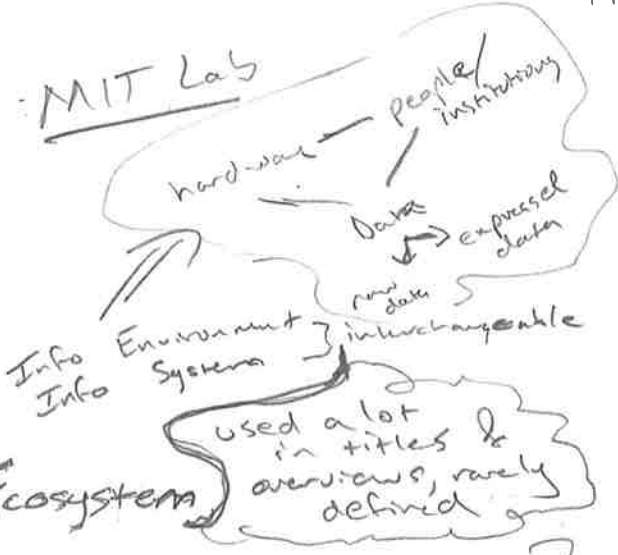
Intro
History
- ecology
Positive work
Potential danger
Conclusion
Send to Todd



ZWIRED
but not evolutionary

Preservation
Conservation
Management
Political Work

Information Ecology



Librarian/curator as
"Keystone Species"
[a form of activism]
ecology as a form of academic activism
check Andy & O'Day
Knowledge ecosystem
ALT - digital ecosystem

Information Ecosystem
Info ≠ Data
1,810,000
~ 32 results on google scholar
~ 40,000,000 results on google
Aug 25 2014
self proclaimed "web entrepreneur"
advertising/marketing specialists
pharmaceutical industry
search engines as a "search ecosystem"

Roots in Europe?

MEDES (2009 onwards)
management of computational and collective intelligence in Digital Ecosystems
DEST-IEEE (2007 onwards)
Digital Ecosystems & Technologies Conference

where used?
- computer industry
- environment industry
- world economic forum
- information industry

Department of Defense
- defense 2013-2018
Joint Information Environment
JODS = single security arch - protect data
= minimal hardware - internal sharing
= access

P.E. ??
ecology?
Pd. 2005

Boyle - Words can be organized
Media Ecology
"fundamentally about sustainability"

UM

Has roots in development of out info management
 ↳ cooperation need for

mis-identifies Hardin as an "ecologist" P. 28

Davenport (1997)

Information Ecology

- beliefs (culture)
- use (work flows & behavior)
- pitfalls (politics?)
- systems (technology)

Holism
 human not technical solution
 ↳ purpose "to build a more competent, creative, and practical information environment"
 P14.

admittedly starts with big business
 ↳ What about "The Transnational Capitalist Class" (Sklar)

ecologies in ecology
 { diversity of information evolutionary change(?) observation & description information behavior } ecological approach to information management

defines ecology as "the science of understanding and managing whole environments"
 P 10-11

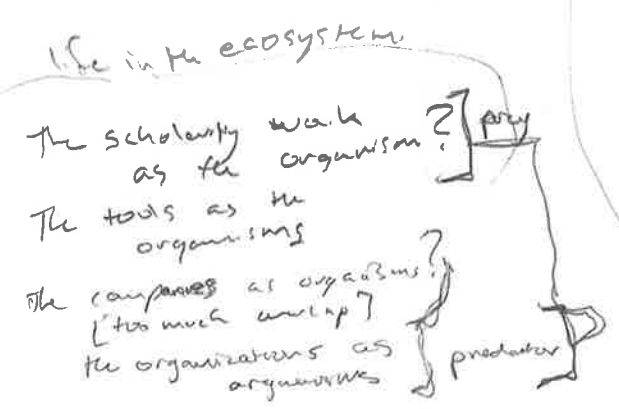
Davenport
 Into Environment suited to living things

Brend Mans
 "Data is like oil"
 - we pump it from the earth
 - we spill it everywhere
 - we are making a mess!
 2-23-16 IDCC Away

Information Ecologist?
 like restoration ecologist?

Kevin Ashley
 "Same people stretch that metaphor to fur"
 (pers. comm. IDCC 2016)

ecological technique?



"I just like how it sounds"
 David Greenewegen (Marshall)

The library as an organism
 Ranganathan?

emergent DH stuff
 ↳ Naturally Occurring Data
 ↳ ESRC!!

Susan Halford
 "The system is a built machine!"
 IDCC 2/24/16

Naturally Occurring Talk - David Silverman 2006 "Improving Qualitative Data"