

Coupling Up: An Exploratory Study of Mapping Loosely Coupled Systems in Higher Education - Mapping Systemic Issues

By: Gillian (Jill) D. Ellern & Laura Cruz

Abstract

This presentation makes the case that systems mapping can be used as an analytical tool for advancing research on loosely coupled systems, with particular emphasis on universities. We present two case studies of participatory systems mapping initiatives (one on undergraduate research, the other on library systems) as examples to illustrate the potential of the linkage between systems tools and organizational theory in higher education.

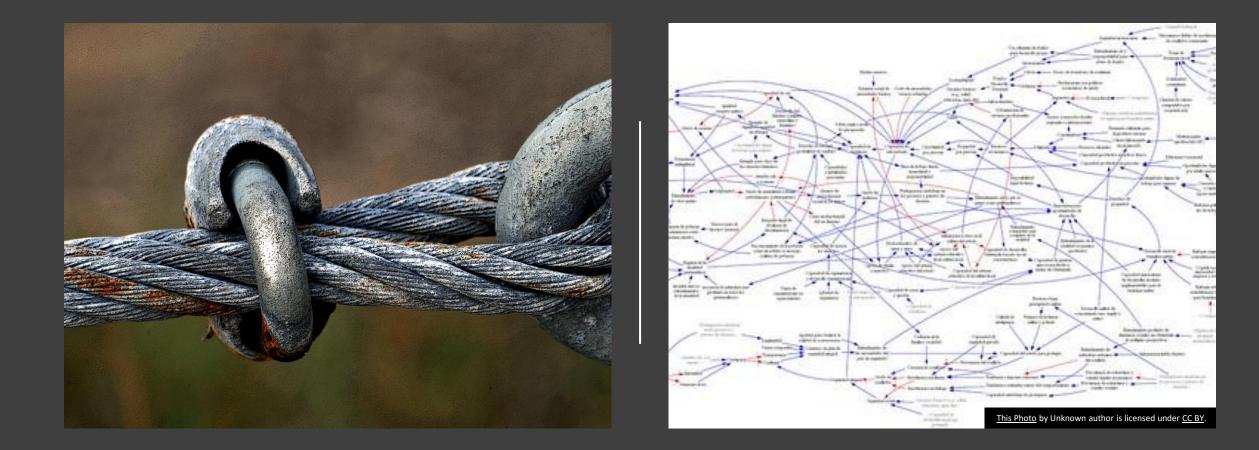
Ellern, G.D., & Cruz, L. (2021, November 5). *Coupling Up: An Exploratory Study of Mapping Loosely Coupled Systems in Higher Education - Mapping Systemic Issues* [Roundtable]. 46th Annual Conference of the Association of the Study of Higher Education, San Juan, Puerto Rico.

Archived version from NC DOCKS available at: http://libres.uncg.edu/ir/wcu/listing.aspx?id=37389.

COUPENCUP

An Exploratory Study of Mapping Loosely Coupled Systems in Higher Education

Is there a relationship between LOOSE COUPLING and SYSTEMS THINKING?





Loose coupling is characteristic of higher education as an organizational type.

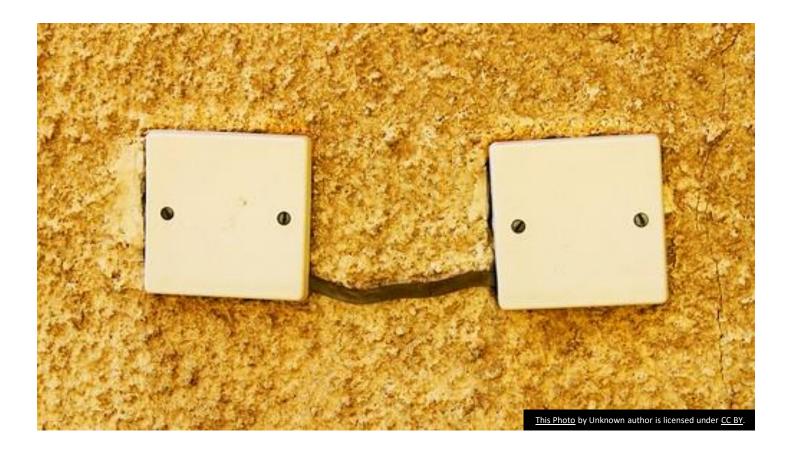
What's the Problem?

Functions

- Persistence of Units
- Sensitive sensing mechanism
- Localized adaptation
- Cultural insurance
- Isolate problematic units
- Self-determination of actors
- Coordination is inexpensive

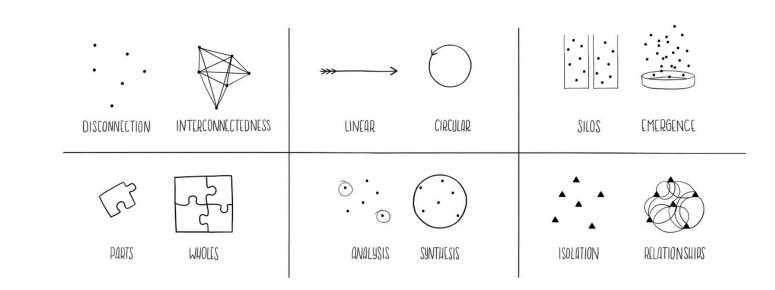
Disfunctions

- Perpetuation not selective
- Faddish responses
- Low benefits of standardization
- Low spread of effective approaches
- Problematic units hard to repair
- Chain of consequences shortened
- Hard to modify resource allocation



Why is loose coupling difficult to study?

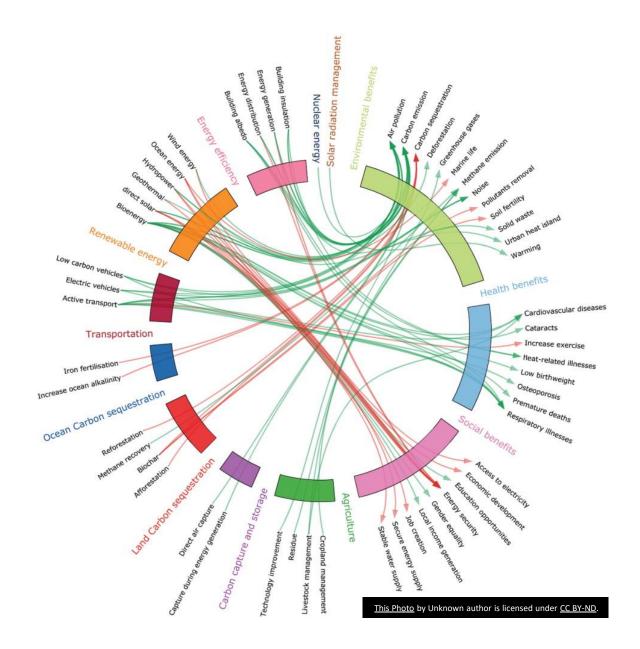
Systems Thinking



TOOLS OF A SYSTEM THINKER

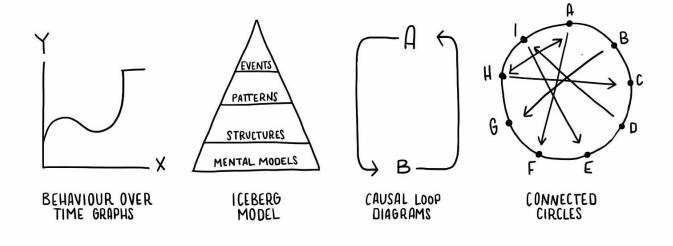


University as System

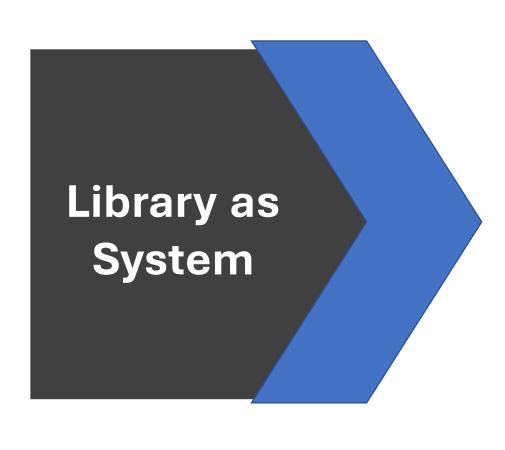


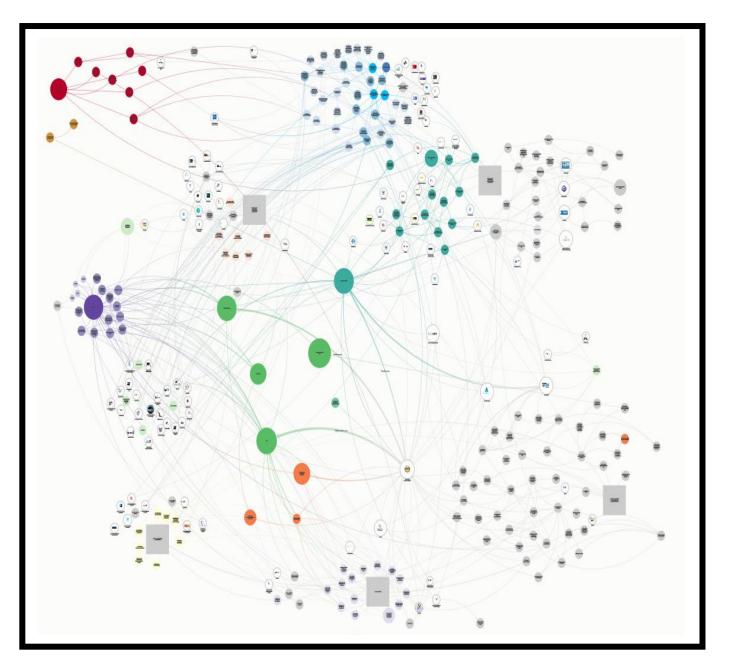
Systems Mapping

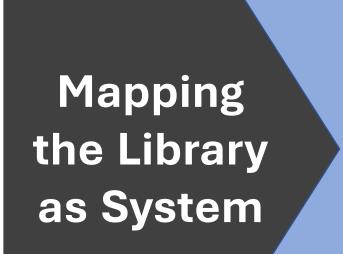
TYPES OF SYSTEM MAPPING

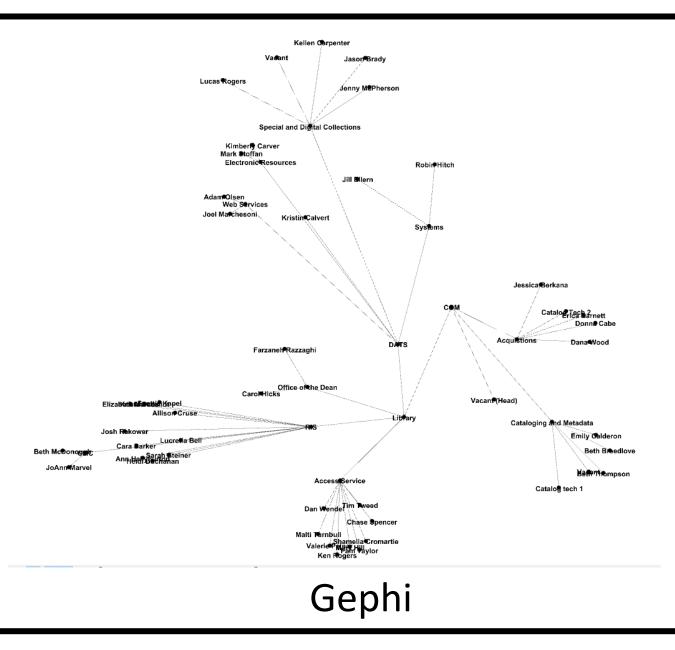




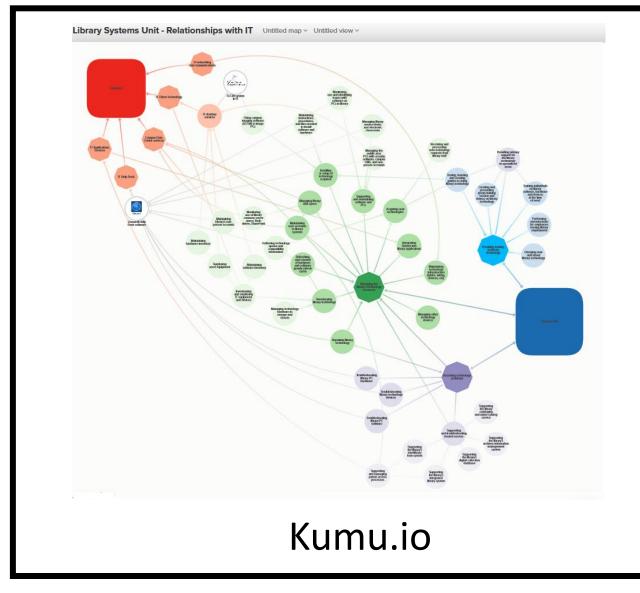








https://youtu.be/bDCh5ulD6Bs



https://youtu.be/wlDVv4eKcQc https://youtu.be/DP_t-ybZVnMt

Mapping the Library as System

Loose Coupling

ASHE - 46th Annual Conference In-Person Roundtable

Sheraton Puerto Rico Hotel & Casino San Juan, Puerto Rico Fri, November 5, 2021 at 10:15am to 11:00am

Laura Cruz, Penn State Gillian (Jill) D. Ellern, Western Carolina University



Looking at Kumu.io using the library hierarchy

Loose Coupling

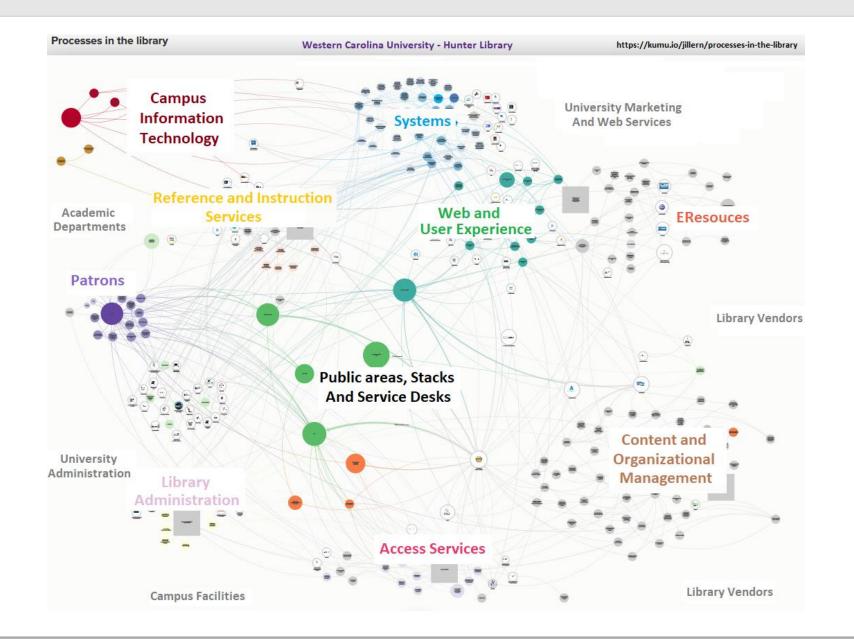
ASHE - 46th Annual Conference In-Person Roundtable

Sheraton Puerto Rico Hotel & Casino San Juan, Puerto Rico Fri, November 5, 2021 at 10:15am to 11:00am

Laura Cruz, Penn State Gillian (Jill) D. Ellern, Western Carolina University

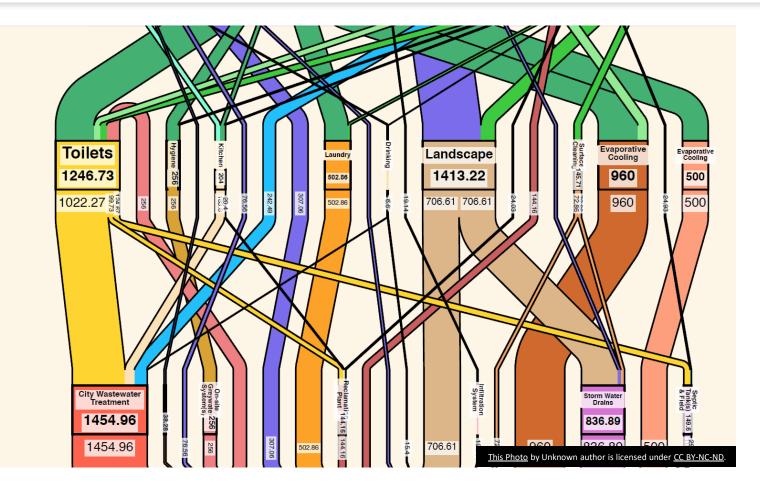


Looking at Kumu.io using the library processes



Participatory Systems Mapping

Change management strategy in higher education



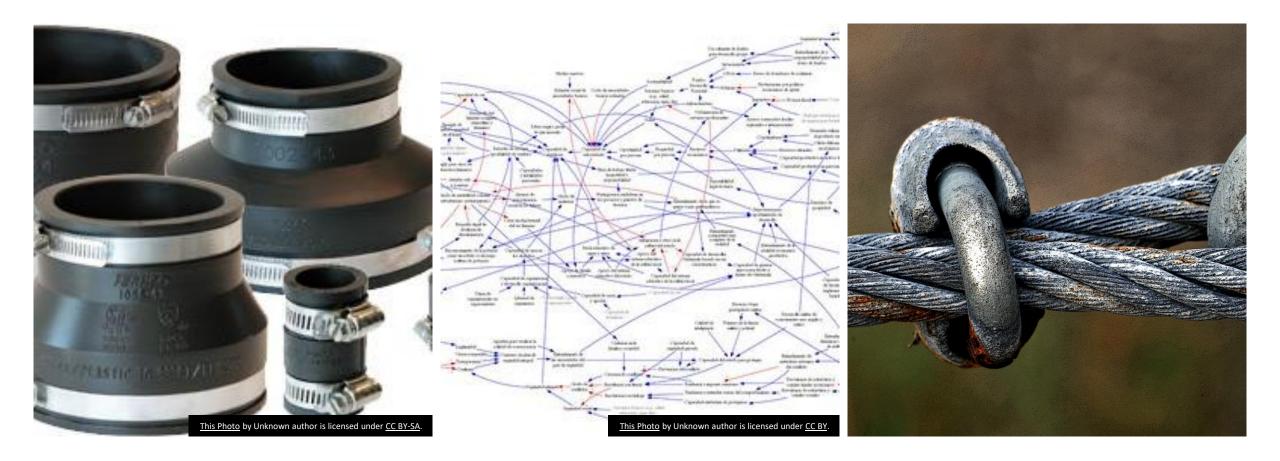


The PUR Project

- 150+ Faculty, staff, students, and senior administrators
- Focus: Undergraduate Research

STUDENT n on er > Engaged Faculty Presentation Interested st-dentspropuler Students 100 to next stage 5 1 resources + time + training Students connected to campu recosninm NO faculty: stuckets see volve 45 Discipline A Humanities THE MODEL, WE HAVE TO FIGURE OUT 5 Diversity IFYOU DON'T ALPEADY HOW TO INCLUDE YIME

The PUR Project



What could the *relationships* between LOOSE COUPLING and SYSTEMS THINKING be?