

# NAVIGATING TO A SUSTAINABLE FUTURE

## Academic Libraries and the Triple Bottom Line

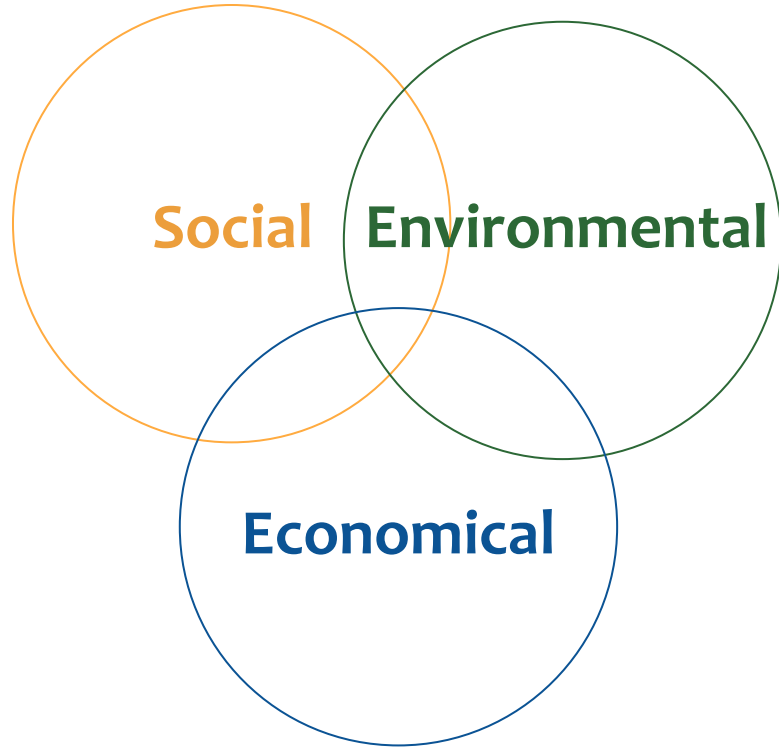
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Heather Hayashi, Cristela Garcia-Spitz, & Gayatri Singh, UC San Diego

ACRL, Baltimore, March 23, 2017

# Introduction



## Environmental Sustainability

Buildings & Operations  
Outreach Beyond the Campus

## Economical Sustainability

Library Collections

## Social Sustainability

Socially Responsible  
Library Services & Practices

# Environmental Sustainability — Internalities

**LEED Buildings**

Smart Technologies

Energy Efficiencies

Resources Conservation

Waste Reduction

Ways of Measurement



**“Anything on which John Major,  
George Bush and Fidel Castro all agree  
can’t really mean anything, can it?”**

— John Whitelegg (1997. p. 101)

Updating Language

~~Green~~

**Sustainable & Smart  
Library Buildings,  
Technologies, & Ideas**



# Standardizing and Measuring Performance

## Current Corporate and Higher Education Methods:

- **GRI** (Global Reporting Initiative) **Index**
- **DJSI** (Dow Jones Sustainability Index)
- **AASHE's** (Association for the Advancement of Sustainability in Higher Education) **STARS** (Sustainability Tracking, Assessment and Rating System)



# Changing the dialogues about how we live and why

- Quality of Life Indicators
- Better partnerships, collaborations, understanding, resources sharing
- Community-based solutions
- Ethical aspects of “doing the right and just things”

## Environmental Quality

- Clean Air
- Clean Water
- Smart Land Use
- Ecological
- Effective Waste Management
- Robust Recycling
- Adequate & Nutritional Food
- Childhood Obesity
- Safe Housing
- Smart-Energy Technologies
- More Alternatives
- Less Fossil Fuels



# Think Globally, Act Locally — Externalities

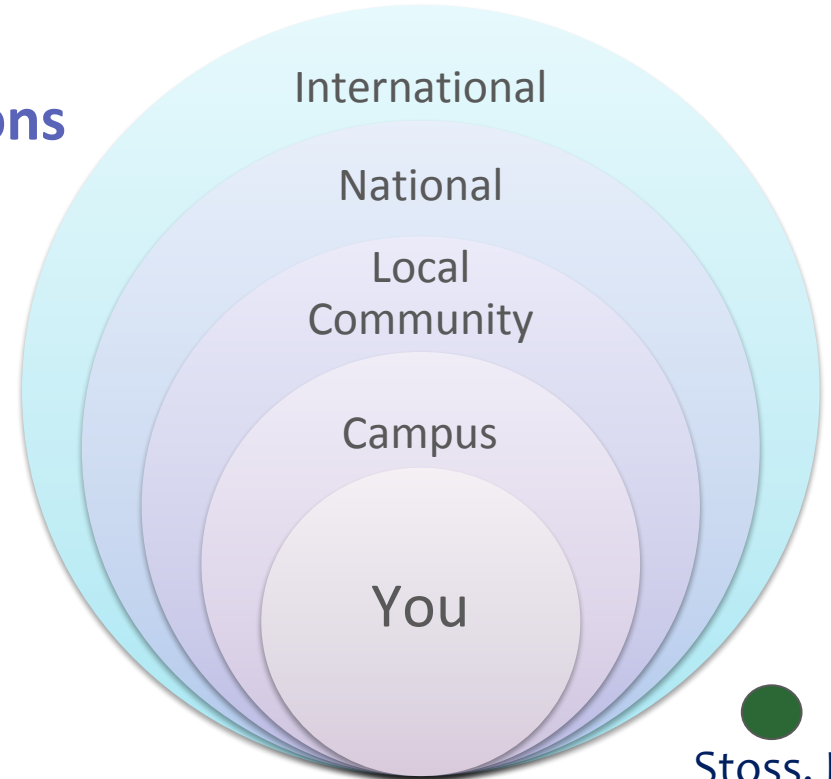
**Global Reach—Local Touch** (ALA Pres., Barbara Ford, 1998)

## International & National Organizations

## Local & State Governments

- Elected & Appointed Officials
- Interagency

## Neighborhood Coalitions, Community, & Civic Groups





# Stay Engaged and Informed, Be Involved

- ❑ **United Nations** Sustainable Development Goals
- ❑ **IFLA ENSULIB** (Environment, Sustainability, and Libraries)
- ❑ **ALA**
  - Sustainability Resolution passed by ALA Council 2015
  - SustainRT (Sustainability Round Table)
  - Libraries Build Sustainable Communities
    - Global Learning, Inc. Collaboration
    - \$300K Grant from USAID 1999-2001
- ❑ **NYLA Sustainability Initiative--A National Model**
- ❑ **AASHE** (Association for the Advancement of Sustainability in Higher Education)
- ❑ **Your local community's** needs and values
- ❑ **Your campus'** sustainability initiatives and goals



# Economical Sustainability





# SUSTAINABLE DEVELOPMENT GOALS



United Nations. (2015). *Sustainable Development Goals*. Retrieved from <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

# Why is sustainability important for collections?

- Academic library collections are typically looked at in terms of economic sustainability but we contribute to an overall higher carbon footprint when we encourage wider use of technologies, readers, devices to promote eReading



- Library space redirected from collection holdings to user centered
- Promotes collaborations & partnerships, new technologies & publishing models
- Format agnostic but still imperfect
- Builds collection strengths - reflecting local campus priorities
- Reinforces core library values, i.e. resource sharing, new ways to handle collections

# Collections - never cost neutral

- Collection content & resources are most expensive ledger item on library operating budget either ahead of just after HR expenses & benefits
- Libraries are moving away from collection building to more access models - acquisition at time of need
- Subscriptions have dominated library spends in recent years - journals, databases, eBook packages & streaming media at the expense of single items - OA may change that
- Evidence-based practice has replaced data-driven models based on publishers' policies & available content

# Cost of Science Publishing

## THE COST OF PUBLISHING

JOURNAL PRICES VARY WITH INFLUENCE AND BUSINESS MODEL.

### Price of prestige

Open-access prices correlate weakly with the average influence of a journal's articles.

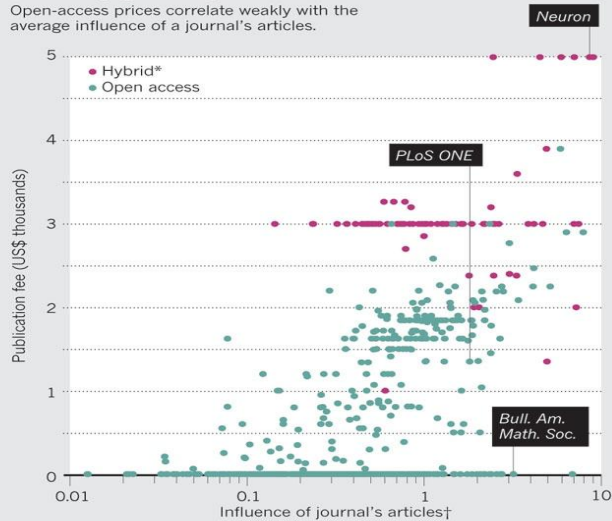


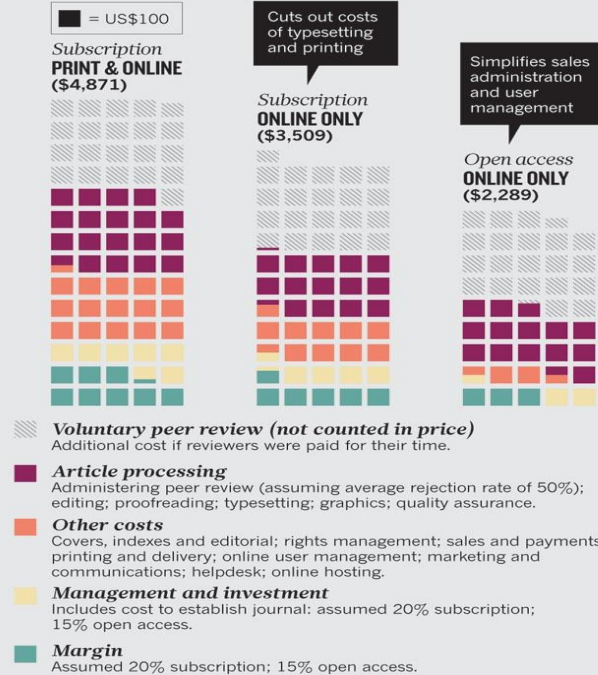
Chart omits open-access journals yet to receive an Article Influence® score.

\*Subscription journals that give option of open-access publishing. †Relative score, in which 1 = global average.

The Article Influence score measures the relative importance of a journal, based on the average influence of an article in that journal over 5 years after publication, and normalized so that the global mean influence is 1. Like the impact factor, Article Influence is based on citation counts, but gives heavier weight to citations from papers in journals that are themselves highly cited. See [www.eigenfactor.org/openaccess](http://www.eigenfactor.org/openaccess) for more.

### How costs break down

An economic model shows how switching from subscription to open access changes the costs of publishing.



Data from J. Houghton et al. *Economic implications of alternative scholarly publishing models* (Joint Information Systems Committee, 2009). available at [go.nature.com/uqrqxw](http://go.nature.com/uqrqxw).

Van Noorden, R. (2013). The true cost of science publishing. *Nature*, 495(7442), 426.

# New business models needed

## Two Roads to Open Access



### **The Gold Road**

*publish in an open access journal  
but you don't have to, instead you can*

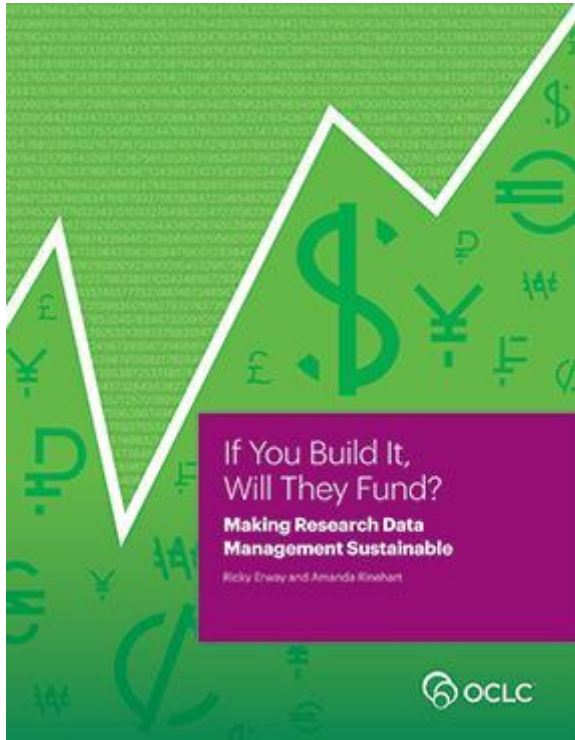


### **The Green Road**

*archive a legal copy of your article in a  
digital repository*

## Open Access

- Does not mean FREE
- Lots of nuances muddying the waters
- Author pays model often pushes the library to contribute costs



# Sustaining Research Data Management often an Unfunded Mandate

Erway, R. and Rinehart, A. (2015) *If You Build It, Will They Fund? Making Research Data Management Sustainable*. Retrieved from <http://www.oclc.org/content/dam/research/publications/2016/oclcresearch-making-research-data-management-sustainable-2016.pdf>



# Steps towards sustaining collections

- Understand that sustainability is more than just financial or fiscal constraints
- Develop measures for more financially attractive costs & greater eBook presence
- Identify & fund digitization projects
- Create best practices for storage facility content retrieval - frequency, scanning
- Options for media viewing - streaming
- Economic models - when to buy, borrow, lease; DDA or EBM
- Enhance linked data
- Promote discoverability via online browsing, A&I

# Social Sustainability

## External



# Institutionalizing Sustainability

## UC San Diego Alignment with University of California Goals:

- **UC Diversity Statement & UCSD Principles of Community**
- **Zero Waste by 2020**
- **Global Food Initiative** - food literacy, support campus garden initiatives such as CSA (Community Supported Agriculture) program
- **Sustainable Purchasing** - ENERGY STAR, Green Seal Certified, EPEAT to support sustainable businesses and their practices

## UCSD Library Alignment with UCSD Strategic Plan:

**Sustainability & Innovation** Continue efforts to ensure that the Library remains an agile, responsive, and financially and **environmentally sustainable** organization that acts strategically and supports creative problem solving and innovative thinking.

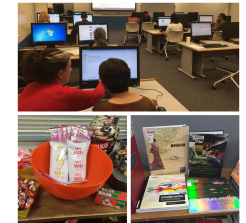
# Education & Outreach

## UC San Diego Library's Sustainability Group (LSG)

- Events: Earth Week DIY Makers Day Fair, Food Drives
- Resources: Sustainability LibGuide, collections
- Public services: Writing Instrument Brigade, recycled paper in public computers, hydration stations,

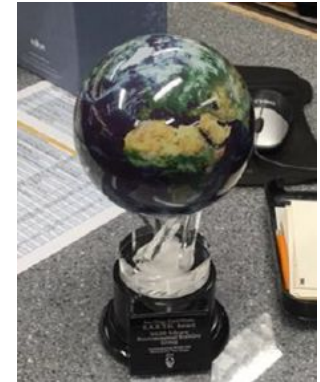
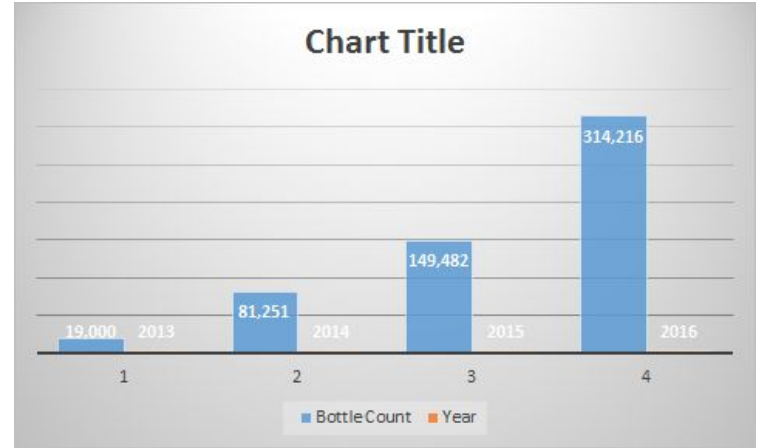
## UC San Diego Library Diversity & Inclusion Committee (LDIC)

- Guest speakers, movie screenings, exhibits, Wikipedia editathons



# Possible Measurement Tools

- Attendance/Usage
- Campus surveys
  - Staff @ Work
  - Customer Satisfaction Survey
- Diversity recognition
  - UCSD Equal Opportunity/ Affirmative Action and Diversity Awards
- Sustainability recognition
  - E.A.R.T.H. Award (Environmental Action and Restoration That Helps) from San Diego EarthWorks



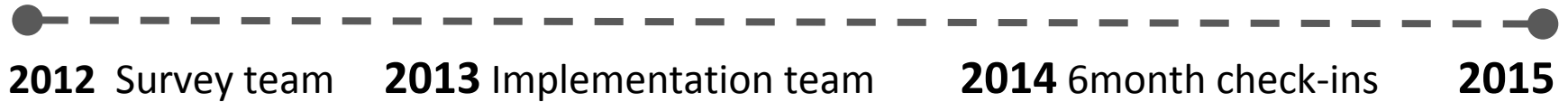
# Social Sustainability

## Internal



# Measures taken

## UC San Diego Library ARL's ClimateQUAL



### Outcomes:

- Created Library Diversity & Inclusion Committee (LDIC) for staff
- Created Library Community Building Committee (LCBC) for staff
- Redesigned Staff Intranet
  - Moved to a wiki-based platform with open editing by default
  - Updated content, including additional forms and policies
  - Added social dimensions, e.g. Brianslist (Library's internal/staff craigslist)

# Home

Create ⋮



## Employee Calendar

[Week](#)
[Month](#)
[Agenda](#)

Thursday, March 16	
12:00pm	Library Mindfulness
Monday, March 20	
10:45am	Candidate Presentation: Scholarly Comm
Tuesday, March 21	
12:00pm	Library Yoga
2:00pm	Winter Quarter New Employee Welcome E
Wednesday, March 22	
12:00pm	Library Chorus
Thursday, March 23	
10:30am	Candidate Presentation: Internal Commun
12:00pm	8 (Research Data) Things
12:00pm	Library Yoga
Monday, March 27	
10:30am	Candidate Presentation: Internal Commun

[+ Google Calendar](#)

## News



Weekly Update for March 17, 2017  
 Thursday, 16 March 2017



Weekly Update for March 10, 2017  
 Thursday, 9 March 2017



Weekly Update for March 3, 2017

## Issues & Requests

Found a problem? Need to request service? Let us know!

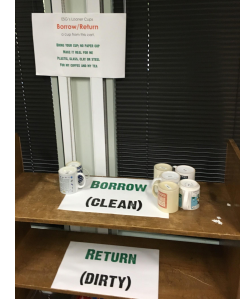
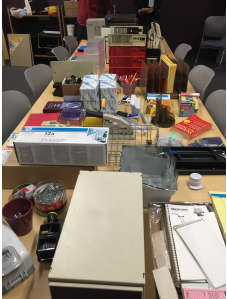
- [Issues & Requests – Facilities](#)
- [Issues & Requests – IT Service Desk](#)
- [Issues & Requests – Safety & Security](#)



# Embedded Sustainability: Bottom Up, Top Down

## UC San Diego Library's Sustainability Group (LSG)

- Training events for staff (Green Training Event)
- Annual Fruit & Veggie Exchange, Summertime Swap Event
- Office Supply Rehome Program
- Loaner program: Bring your own mug/utensils to events



# Embedded Sustainability: Bottom Up, Top Down

## UC San Diego Library Diversity & Inclusion Committee (LDIC)

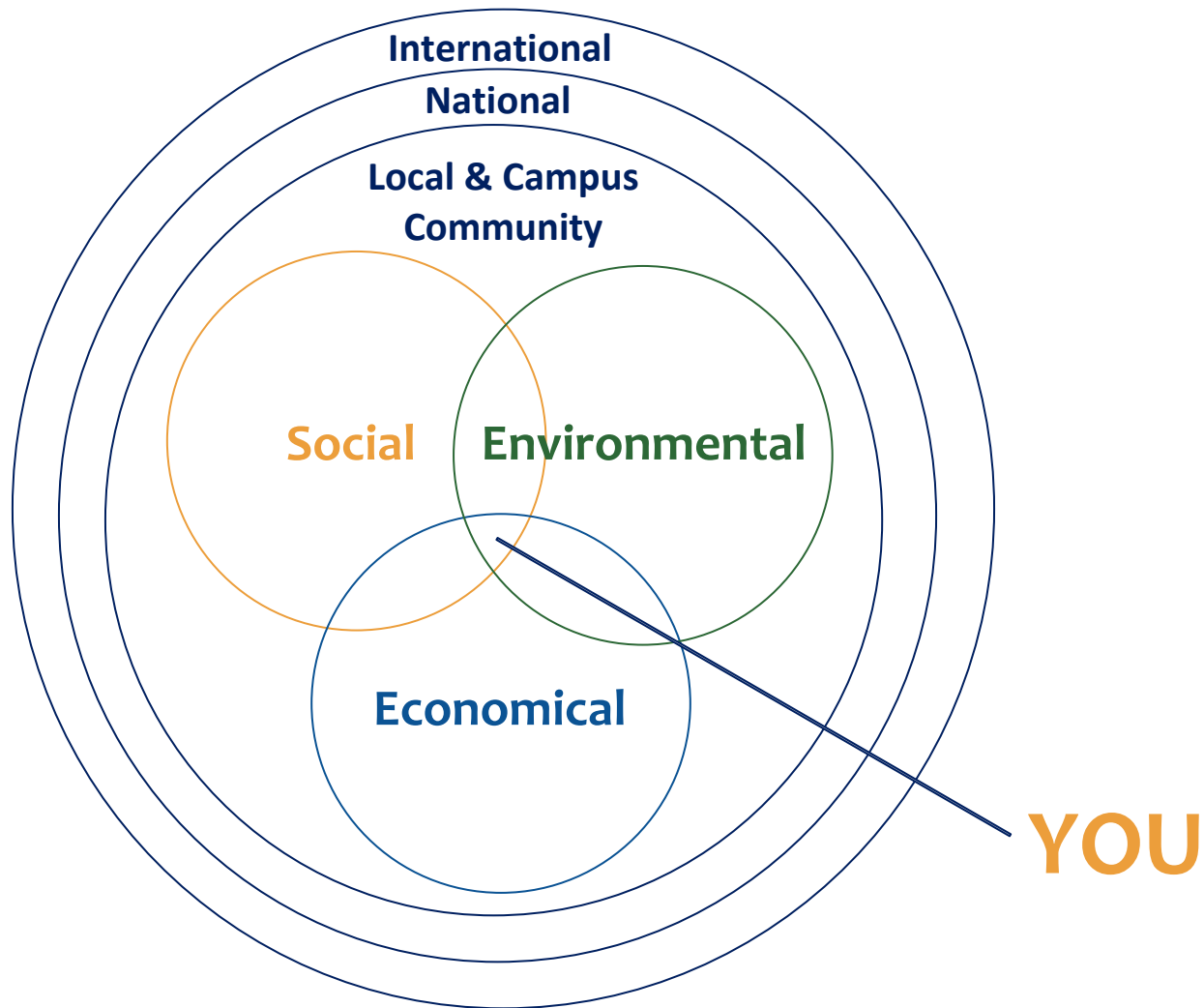
- Training events for staff
- DiversiTea
- Funding for diversity/inclusion-related conference attendance

## UC San Diego Library Community Building Committee (LCBC)

- Coffee/Tea Chats with the University Librarian for staff
- Employee Profile Videos
- Game of Scones



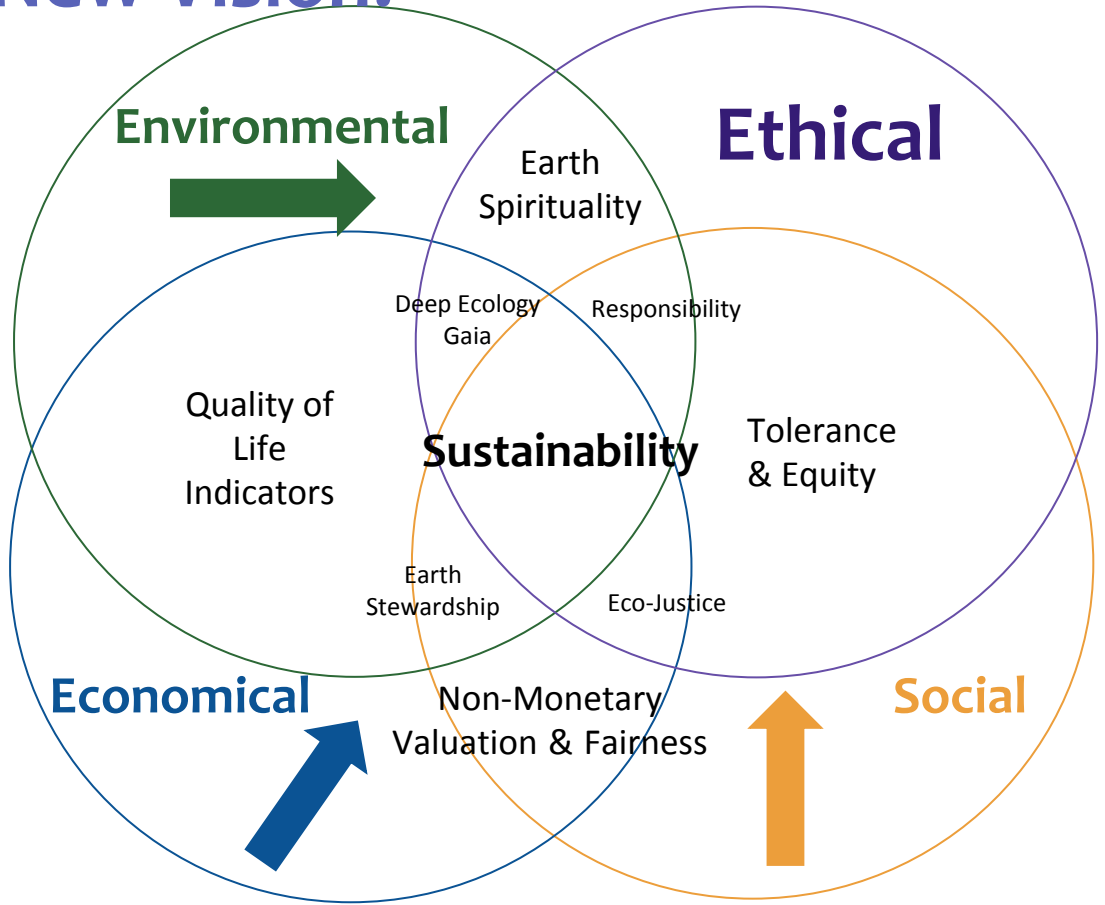
# Summary



**Any organization with these three pillars  
holistically integrated would understand  
that sustainability is not a choice  
between environmental protection and social progress,  
but instead about striving for  
economic and social development that is compatible  
with environmental protection and organization development.**

Čiegis, R., Ramanauskienė, J., and Martinkus, B. (2009). The concept of sustainable development and its use for sustainability scenarios, *Inžinerine Ekonomika – Engineering Economics* (2): 30.

# Is There a New Vision?



# Sustainable Campuses & Communities

4-Legs = Greater Stability

Environmental

Social



Ethical

Economical

# Where do we go from here..?

## Questions, Comments, Concerns?

We would love to hear your thoughts...

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