Sustainable development of libraries and the current model for scholarly information and communication

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Open Access Resources: University and Library Priorities for Enhancing Scholarly Communication
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Zrównoważony rozwój bibliotek uniwersyteckich w dobie nowego modelu informacji i komunikacji naukowej

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Otwarte zasoby wiedzy – nowe zadania uczelni i bibliotek w rozwoju komunikacji naukowej

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Outline

• Why this topic?
• Universities and sustainability
• What roles could libraries play in implementing sustainability ideas into university curriculum, institutional repositories, and open access publishing?
What is scholarly information & communication?

Process supporting universities’ research, teaching, and services in which scholarly information is:
- discovered, organized, evaluated, collected,
- disseminated, preserved, curated, and used.
New elements of scholarly communication

• Digital humanities
• E-Science
• Survey and non-survey data
• Geospatial data
• Institutional data repositories
• Digital scholarly publishing
• Open access content
• Creative Commons
Changes in scholarly communication

- New Content delivery ([PLoS Hubs model](https://www.plos.org/visually/what-is-plos-hubs-model))
- Mobile devices for content delivery and payment
- Open Access Journals will stay
- Library and press will collaborate
- Evaluation of scholars’ work will change ([Eigenfactor](https://www.eigenfactor.org))
Manfred Max-Neef’s “Barefoot Economics” Theory

Balanced economic growth has limits and after reaching the maximum its sustainable level becomes dangerous due to not respecting an even distribution of economic benefits, social equity, and environmental impact.
Sustainable development

- economic strength
- social equity
- ecological integrity
Sustainable development

Requires balance between:

- social equity,
- economic values, and
- ecological integrity

"that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Sustainability and universities

- University Leaders for a Sustainable Future (USLF) signed the Talloires Declaration in 1990

  “… universities bear profound responsibility to increase the awareness, knowledge, technologies and tools to create an environmentally sustainable future.”

  The Talloires Declaration
Social equity

• Keep internal transparency and open decision making processes
• Promote values of sustainability
• Increase public awareness
• Secure free access to scholarly information
Economic values

• Oppose corporate sponsorship
• Be aware of principles for responsible investments
• Secure free services
Ecological concerns

• Long-term operational savings by investing in green materials,
• Using green products in daily library operations,
• Promote green and sustainable practices
Factors threatening library sustainability

• Growing cost of developing, maintaining, preserving, and creating print and digital content
• Growing cost of technological and networking infrastructure
• Growing library expenditures for collection (more than 60% since 1993 at the University of California Libraries)
• Growing cost of library operations
• Shrinking university funding for libraries
Growing libraries’ spending per year

- On electricity: average was $108,832 (college libraries spent $19,000 more than public libraries)
- On oil and gas heating: average was $44,280
- On water: average was $4,988
- On electricity: the average library experienced a 3.23% increase, but for college libraries it was 8%

Intellectual properties

- Science and Intellectual Property in the Public Interest
  http://sippi.aaas.org/ipissues/categories/?id=1

- SPARC Author’s Addendum
  http://www.arl.org/sparc/author/addendum.html

- Publisher Copyright Policies & Self-Archiving
  http://www.sherpa.ac.uk/romeo.php
Open access content

Open Data Foundation

Otwarta Nauka

Directory of Open Access Journal
What do faculty need from us?

• Alerts about forthcoming grants
• Information about opportunities from funding organizations
• Help to find potential collaborators
• Facilitate collaborative management of data
• Provide tools for analysis of large aggregations of text and data; and curate and preserve research data
• Help to develop skills in information handling
• Find channels to disseminate and publish their work
• Advice on protecting their intellectual property rights

Librarians need to be seen

• To facilitate and save open access content
• To preserve and curate digital content produced by university community
• To support universities in developing sustainability curriculum and practices
• To organize and archive web resources
• To develop rare and unique collections
Our Future: are we going forward without our Head?