

Centering the Knowledge Peripheries Through Open Access

Case Studies and
Best Practices

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Will Open Access Reverse

- the invisibility and weakening of local journals?
- the difficulty for researchers and students to access articles in foreign journals?
- the neglect of problems that are mainly of national and regional relevance?

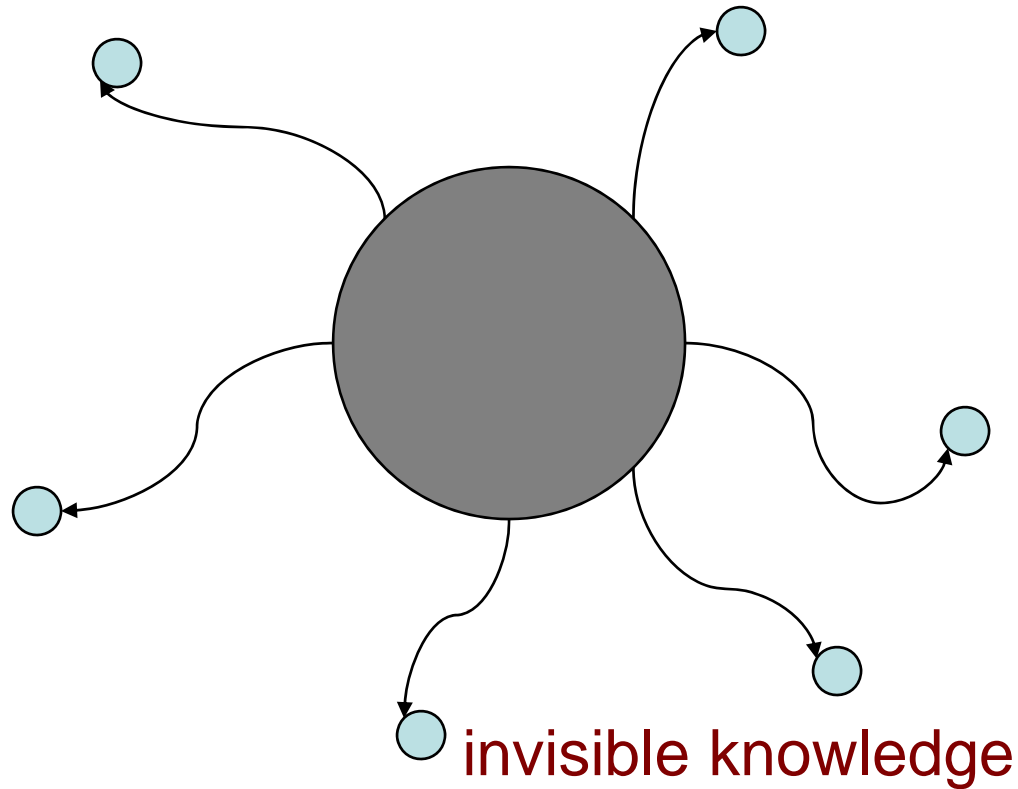
Some lessons learned from converging projects

- Open access journals
 - Bioline International Grass-root
 - Study of journals funded by the Social Sciences and Humanities Research Council of Canada (SSHRC) Top-down
 - AnthroSource Scholarly society - middle ground
- Institutional Repositories
 - Tspace at the University of Toronto

Some assumptions

- Many kinds of “core” and “periphery” across knowledge domains
- Historical, intellectual and commercial factors
- The imbalances could be reversed
- Information and communication technologies play a key role
- Global social and knowledge networks are increasingly important
- Policy frameworks are essential

Dominant Model of Knowledge Dissemination From the Centre to Periphery



Stopping the cycle of poverty and dependence

A Selective Timeline of Early Developments

Policy Vacuum

2003 – Directory of Open Access Journal

2002 -- **Budapest Open Access Initiative**

2001 – PLOS – Letter, Journal site in 2002

2000 – PubMed Central
BioMed Central

2000 – OAI

1999 -- Eprints

1998 – Virtual Health Library

1997 - SciELO Brazil, Chile
PubMed - MEDLINE
with open access

1993 – **Bioline International**

1991 – arXiv

www.bioline.org.br

Bioline
International

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Bioline International is a not-for-profit electronic publishing service committed to providing open access to quality research journals published in developing countries. BI's goal of reducing the South to North knowledge gap is crucial to a global understanding of health (tropical medicine, infectious diseases, epidemiology, emerging new diseases), biodiversity, the environment, conservation and international development. With peer-reviewed journals from Brazil, Cuba, India, Indonesia, Kenya, South Africa, Uganda, Zimbabwe and more to come, BI provides a unique service by making bioscience information generated in these countries available to the international research community world-wide.

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We look forward to your comments about the journals in Bioline International and of our services.

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What is Bioline International?



- Electronic aggregator of full text journals from developing countries
- OAI data provider
- Serve as open access platform for journals without the necessary infrastructure
- A South-North collaboration

Core Partners



UT, Canada



EPT, UK



CRIA, Brazil

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Funding Support

- University of Toronto Libraries
- Department of Social Sciences, U of T at Scarborough
- CRIA (Brazil) - In-kind Technical Support
- Open Society Institute, Information Access Program
- Many Volunteers!!

Publishing Partners






- Scholarly and Scientific societies from 17 countries
- Research centers in biology health, agriculture
- university-based publications
- All non-profit and willing to experiment with free online access
- Most are supported by local subsidies and international aids

 **BANGLADESH**

-  **The Journal of Health, Population and Nutrition** [|en](#)
ICDDR,B: Centre for Health and Population Research


 **BRAZIL**

-  **Brazilian Journal of Oral Sciences** [|en](#)
Piracicaba Dental School - UNICAMP
-  **Caderno de Pesquisa série Biologia** [|pt](#)
Universidade de Santa Cruz do Sul
-  **Memórias do Instituto Oswaldo Cruz** [|en](#)
Fundação Oswaldo Cruz, Fiocruz

 **CHILE**

-  **Agricultura Técnica** [|en](#) [|es](#)
Instituto de Investigaciones Agropecuarias, INIA
-  **Electronic Journal of Biotechnology** [|en](#)
Universidad Católica de Valparaíso

 **CHINA**

-  **Zoological Research** [|cn](#)
Kunming Institute of Zoology, Chinese Academy of Sciences

 **COLOMBIA**

-  **Revista Colombia Médica** [|en](#) [|es](#)
Corporación Editora Médica del Valle

 **EGYPT**

-  **Middle East Fertility Society Journal** [|en](#)
Middle East Fertility Society

 **KENYA**

-  **African Journal of Biotechnology** [|en](#)
Academic Journals
-  **African Journal of Food and Nutritional Security** [|en](#)
Quest and Insight Publishers and Friends-of-the Book Foundation
-  **African Journal of Food, Agriculture, Nutrition and Development** [|en](#)
Rural Outreach Program
-  **The Journal of Food Technology in Africa** [|en](#)
Innovative Institutional Communications

 **MALAYSIA**

-  **Malaysian Journal of Medical Sciences** [|ms](#) [|en](#)
School of Medical Sciences, Universiti Sains Malaysia



 **NIGERIA**

-  **African Journal of Biomedical Research** [|en](#)
Ibadan Biomedical Communications Group
-  **African Journal of Reproductive Health** [|en](#)
Women's Health and Action Research Centre
-  **African Journal of Traditional, Complementary and Alternative Medicines** [|en](#)
African Ethnomedicines Network
-  **Annals of African Medicine** [|en](#)
Usmanu Danfodiyo University Teaching Hospital, Sokoto and Annals of African Medicine Society
-  **Biokemistri** [|en](#)
Nigerian Society for Experimental Biology
-  **Journal of Applied Sciences and Environmental Management** [|en](#)
World Bank assisted National Agricultural Research Project (NARP) - University of Port Harcourt

 **INDIA**

-  **Indian Journal of Cancer** [|en](#)
Medknow Publications on behalf of Indian Cancer Society
-  **Indian Journal of Critical Care Medicine** [|en](#)
Medknow Publications on behalf of the Indian Society of Critical Care Medicine
-  **Indian Journal of Dermatology, Venereology and Leprology** [|en](#)
Medknow Publications on behalf of The Indian Association of Dermatologists, Venereologists and Leprologists (IADVL)
-  **Indian Journal of Human Genetics** [|en](#)
Medknow Publications on behalf of Indian Society of Human Genetics
-  **Indian Journal of Medical Microbiology** [|en](#)
Medknow Publications on behalf of Indian Association of Medical Microbiology
-  **Indian Journal of Medical Sciences** [|en](#)
Medknow Publications on behalf of Indian Journal of Medical Sciences Trust
-  **Indian Journal of Occupational and Environmental Medicine** [|en](#)
Medknow Publications
-  **Indian Journal of Pharmacology** [|en](#)
Medknow Publications on behalf of Indian Pharmacological Society
-  **Indian Journal of Plastic Surgery** [|en](#)
Medknow Publications on behalf of Indian Journal of Plastic Surgery
-  **Indian Journal of Surgery** [|en](#)
Medknow Publications on behalf of Association of Surgeons of India
-  **Journal of Cancer Research and Therapeutics** [|en](#)
Medknow Publications on behalf of the Association of Radiation Oncologists of India (AROI)
-  **Journal of Indian Association of Pediatric Surgeons** [|en](#)
Medknow Publications on behalf of the Indian Association of Pediatric Surgeons
-  **Journal of Minimal Access Surgery** [|en](#)
Medknow Publications
-  **Journal of Postgraduate Medicine** [|en](#)
Medknow Publications and Staff Society of Seth GS Medical College and KEM Hospital, Mumbai, India
-  **Neurology India** [|en](#)
Medknow Publications on behalf of the Neurological Society of India

Physiological Society of Nigeria

-  **Nigerian Journal of Surgical Research** [|en](#)
Surgical Sciences Research Society, Zaria and Association of Surgeons of Nigeria
-  **Tropical Journal of Pharmaceutical Research** [|en](#)
Pharmacotherapy Group, Faculty of Pharmacy, University of Benin, Benin City, Nigeria

 **SENEGAL**

-  **African Population Studies** [|en](#) [|fr](#)
Union for African Population Studies

 **TURKEY**

-  **European Journal of General Medicine** [|en](#)
Medical Investigations Society

 **UGANDA**

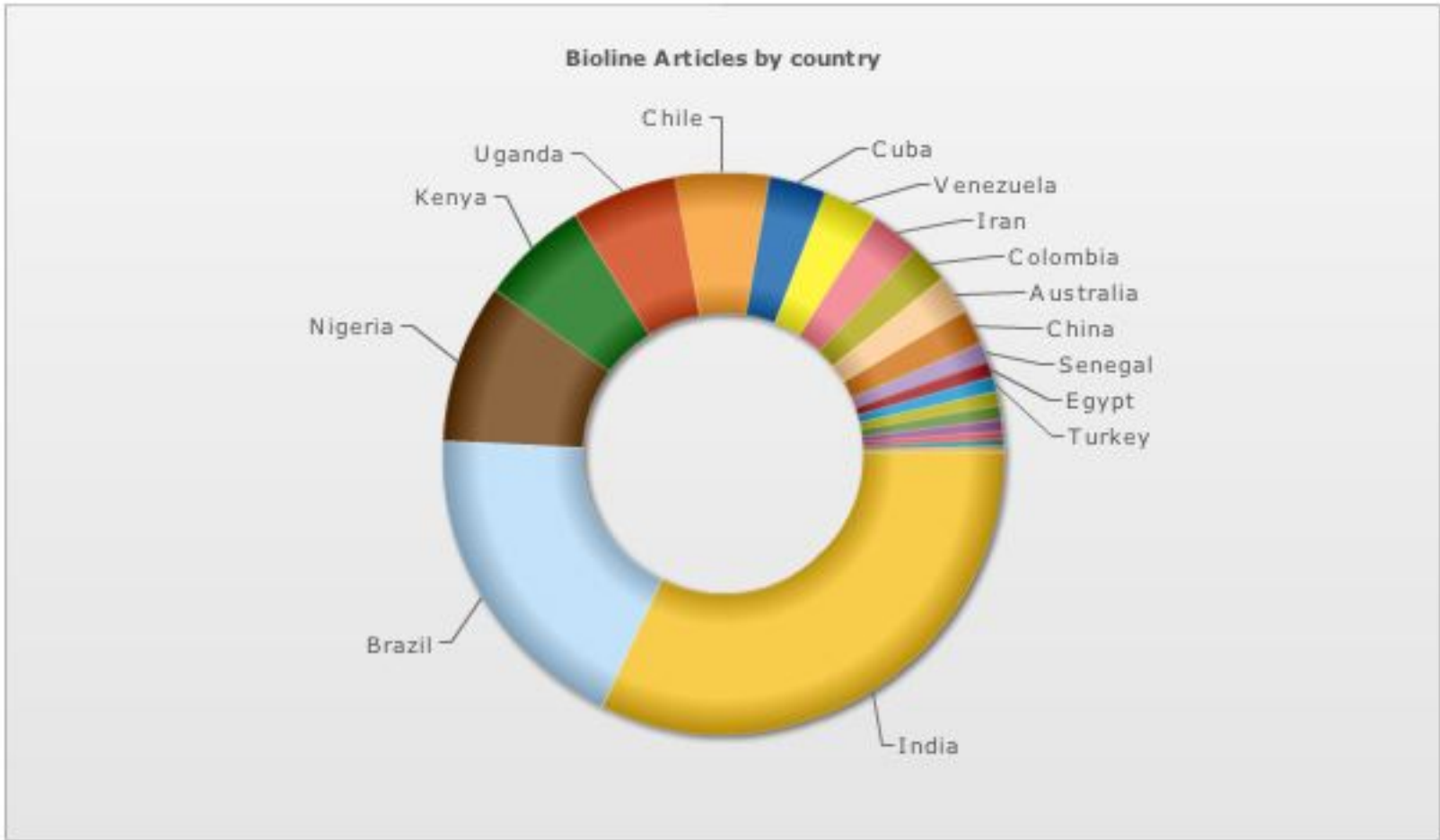
-  **African Crop Science Journal** [|en](#) [|fr](#)
African Crop Science Society
-  **African Health Sciences** [|en](#)
Makerere University Medical School
-  **East and Central African Journal of Surgery** [|en](#)
Association of Surgeons of East Africa and College of Surgeons of East Central and Southern Africa
-  **Health Policy and Development** [|en](#)
Department of Health Sciences of Uganda Martyrs University

 **VENEZUELA**

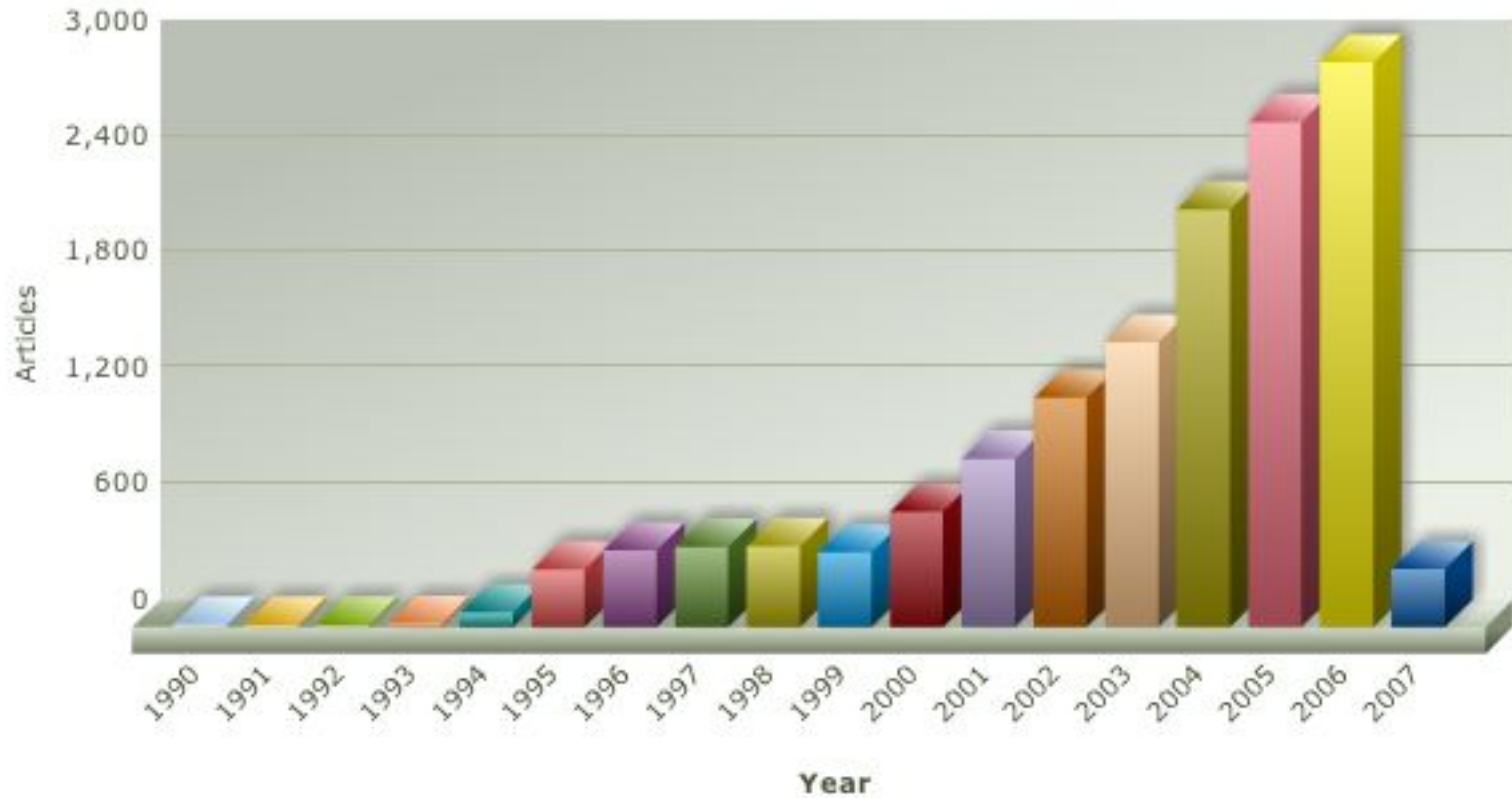
-  **Archivos Latinoamericanos de Produccion Animal** [|en](#) [|es](#)
Asociacion Latinoamericana de Produccion Animal
-  **Entomotropica** [|es](#)
Sociedad Venezolana de Entomologia
-  **Revista Científica UDO Agrícola** [|en](#) [|es](#)
Universidad de Oriente Press
-  **VITAE Academia Biomédica Digital** [|es](#)
Centro de Análisis de Imágenes Biomédicas Computarizadas-CAIBC0

Meta-data exchange and dissemination partners

- Directory of Open Access Journals (DOAJ) - <http://www.doaj.org/>
- The eGranary Digital Library - <http://www.widernet.org/digitalLibrary/index.htm>
- Health InterNetwork Access to Research Initiative (HINARI) - <http://www.who.int/hinari/en/>
- OAlster.org - <http://www.oaister.org/>
- Scientific and Technical Information System - <http://sist-prototype.sist-sciencesdev.net/>
- University of Toronto Libraries - T-Space - <https://tspace.library.utoronto.ca/>

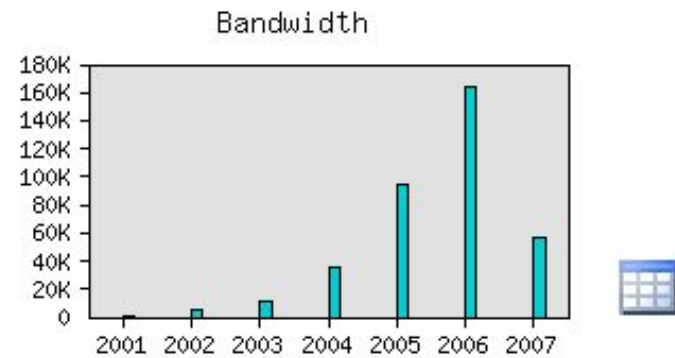
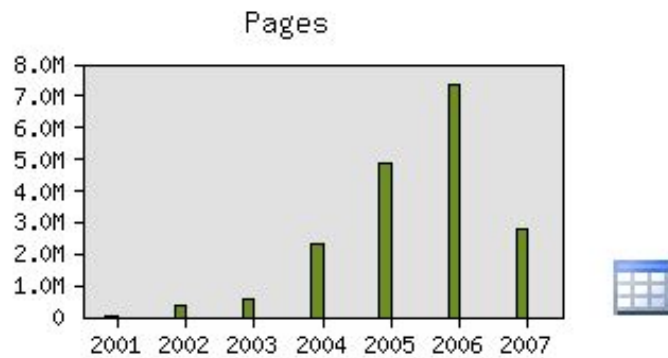
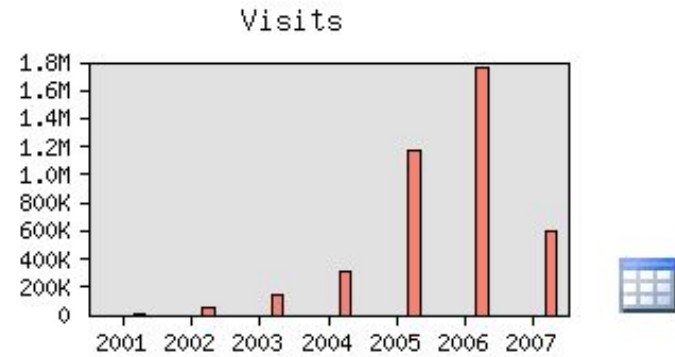
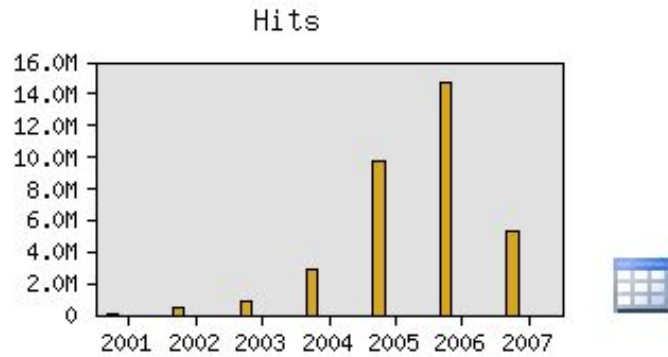


Bioline Articles by year



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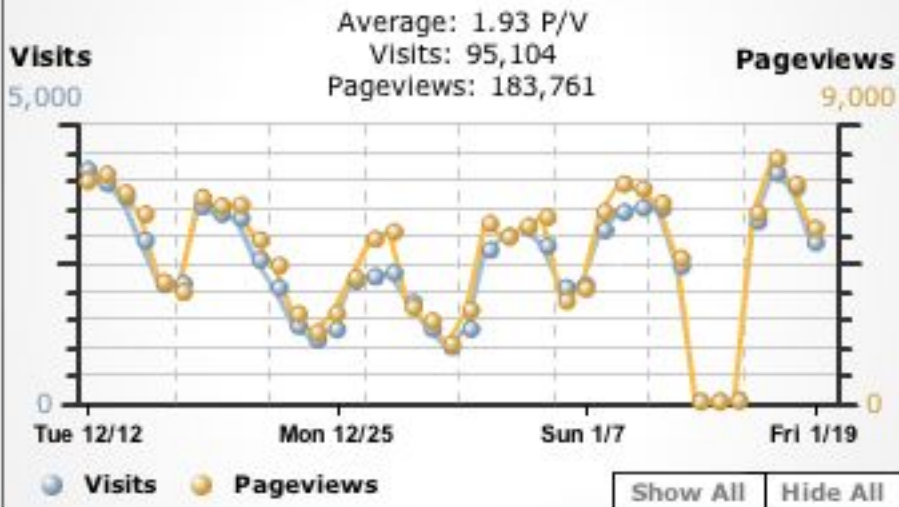
STATISTICS FOR BIOLINE INTERNATIONAL WEB SITE



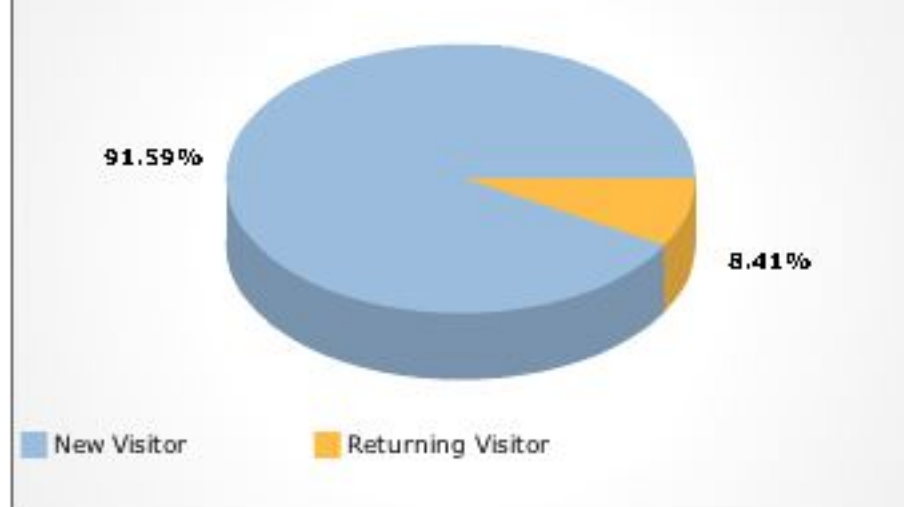
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QuickTime™ and a
TIFF (LZW) decompressor
are needed to see this picture.

Visits and Pageviews



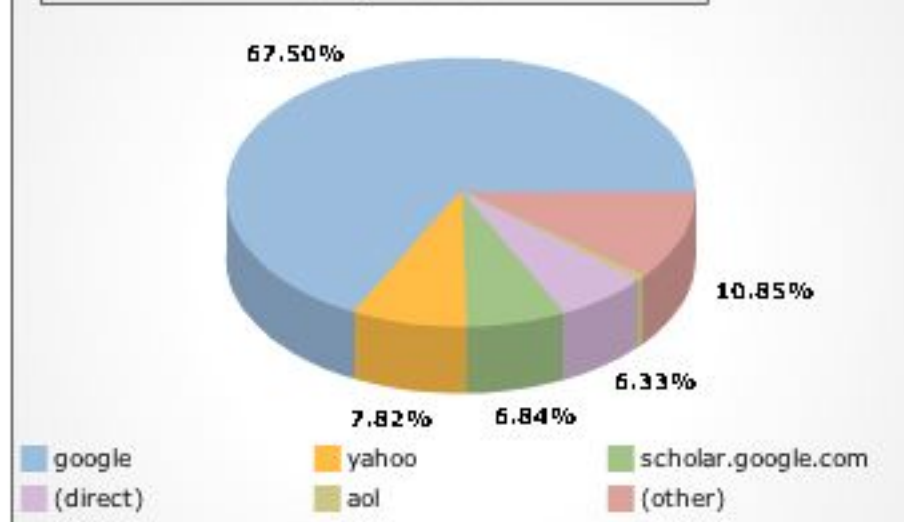
Visits by New and Returning



Geo Map Overlay



Visits by Source



How to pay for and sustain open access?

Sponsoring Consortium for Open Access Publishing in Particle Physics (SCOAP3)

- Today: (funding bodies through) libraries buy journal subscriptions to support the peer-review service and to allow their patrons to read articles.
- Tomorrow: funding bodies and libraries contribute to the consortium, which pays centrally for the peer-review service. Articles are free to read for everyone.

Two roads or a fork in the path?

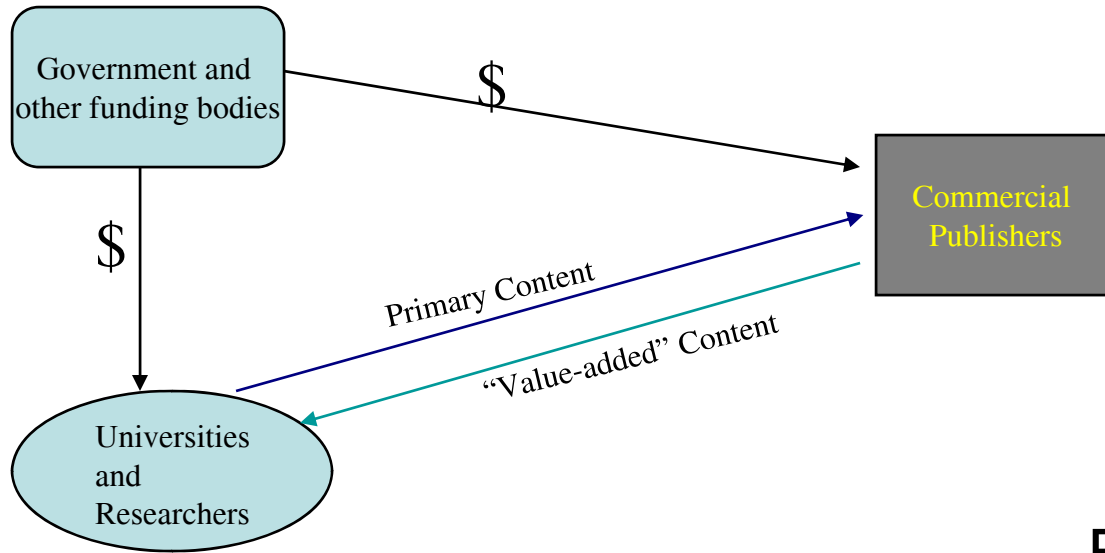
- Open Repository
 - Institutional
 - Thematic
- Open access journals
 - Author pay
 - Subsidy **

a majority of the OA journals listed in the Directory of Open Access Journals (DOAJ) do not follow the fee-based model

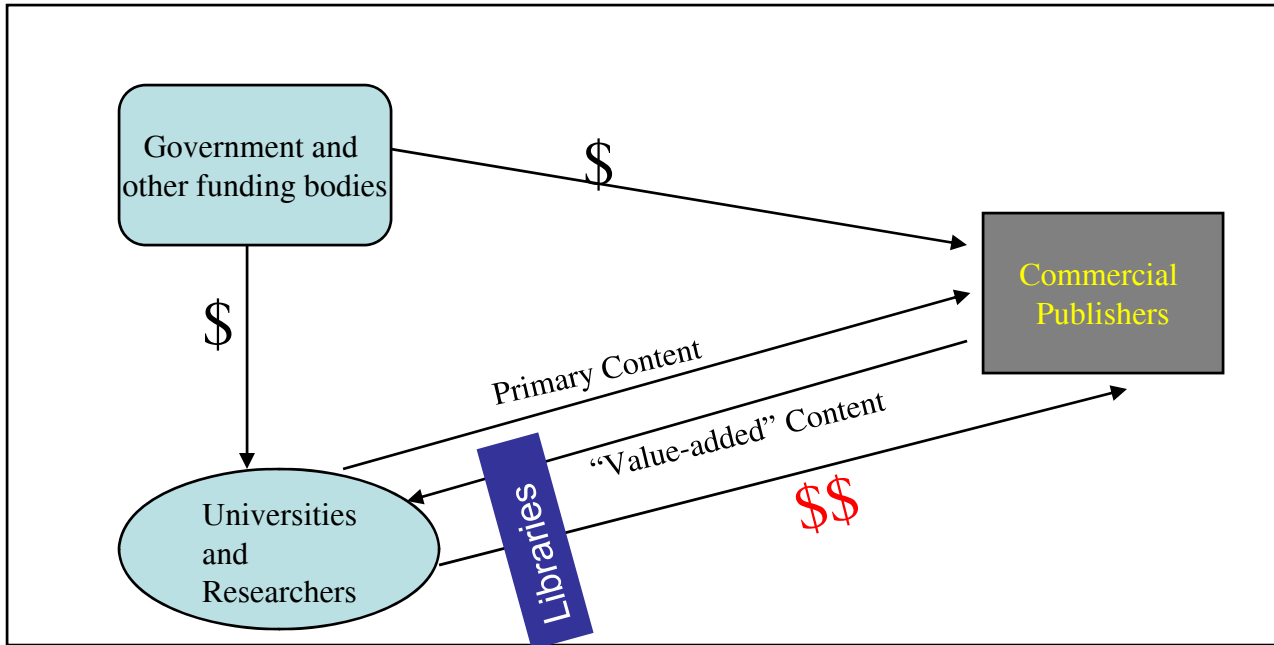
terra incognita

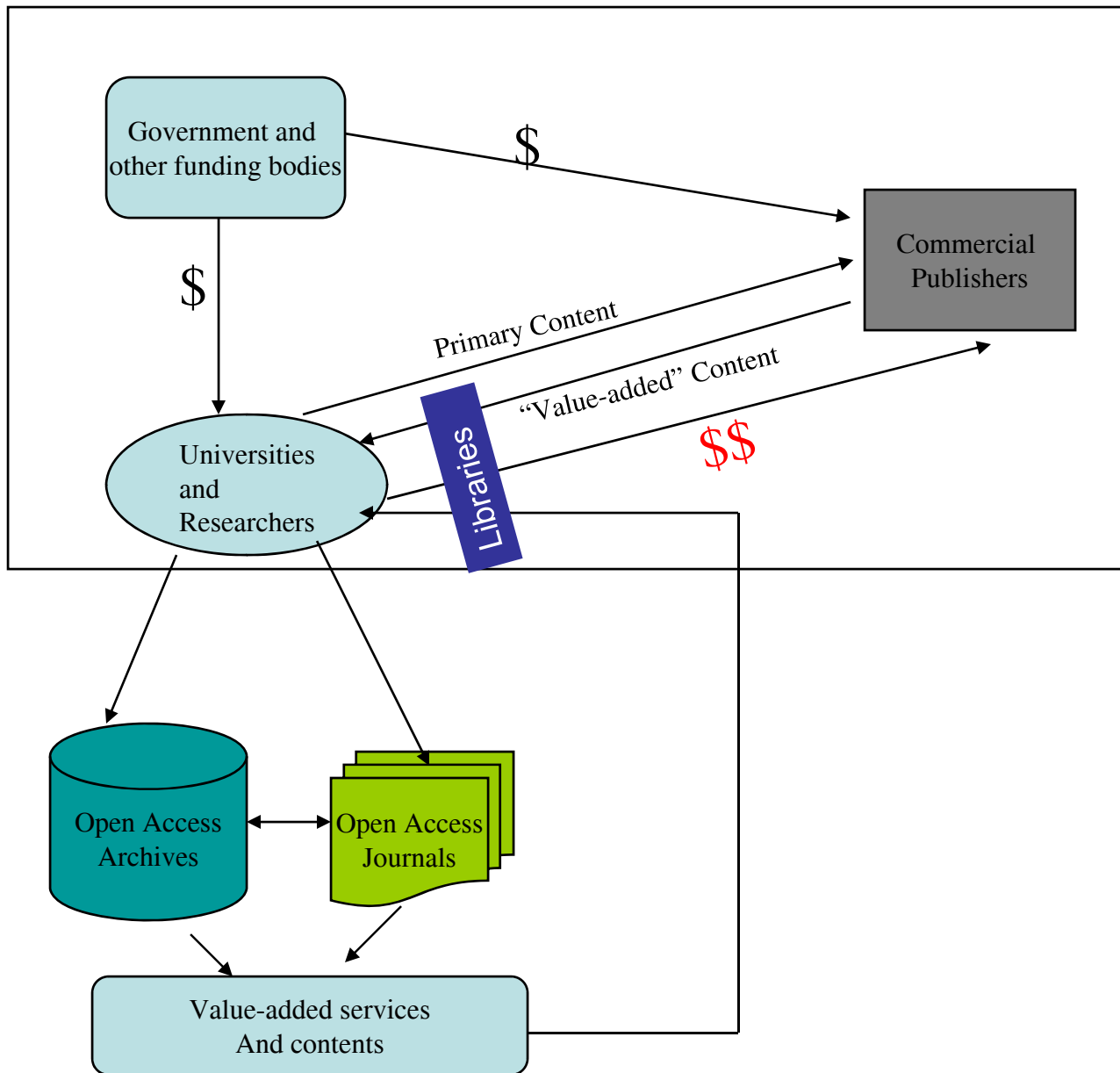
Sustainability of no-fee OA journals

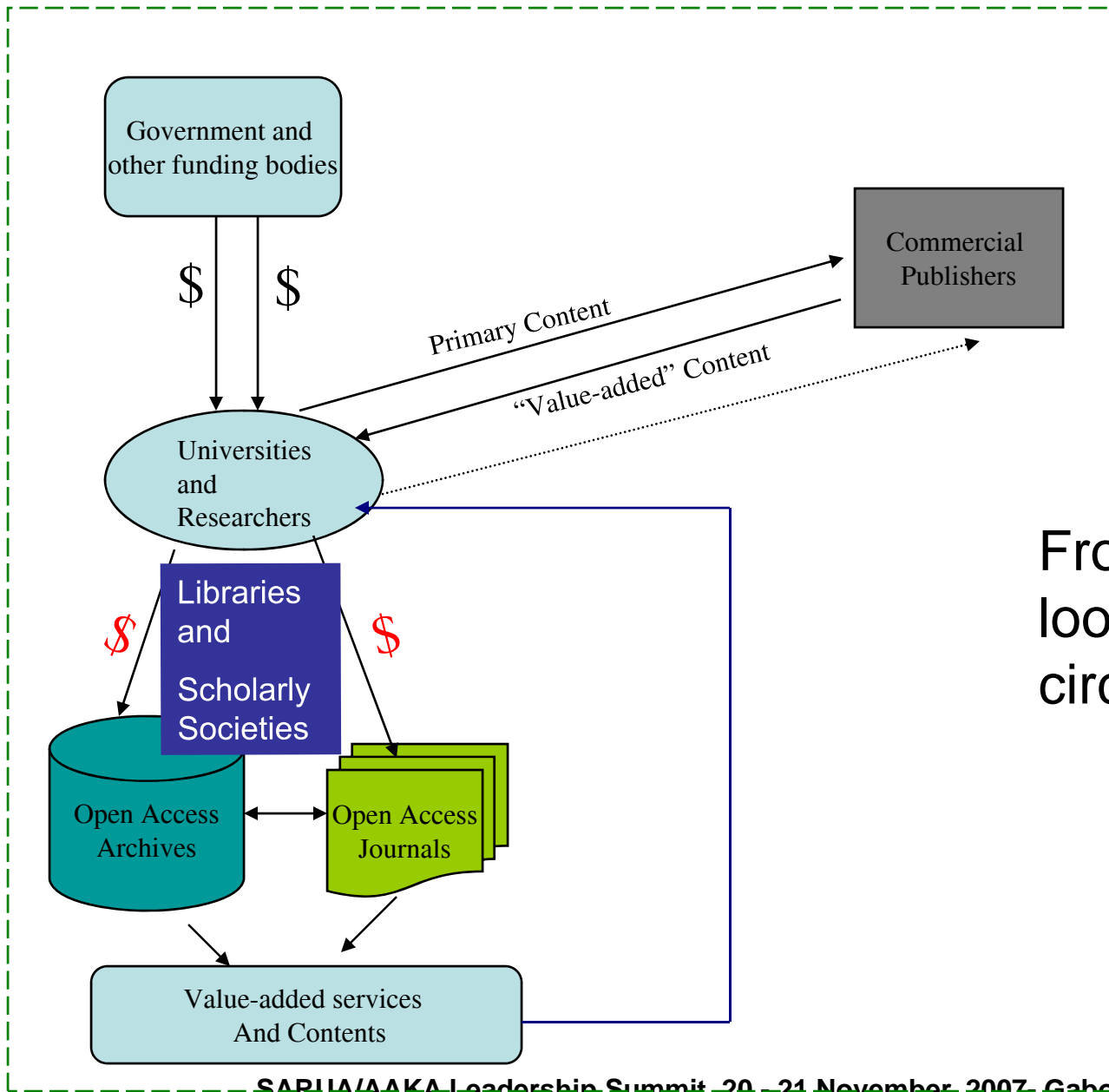
- Common: direct or indirect subsidies from institutions like universities, laboratories, research centers, libraries, hospitals, museums, learned societies, foundations, or government agencies (e.g. SSHRC in Canada)
- Revenue from a separate line of non-OA publication
- Some have revenue from advertising, auxiliary services, membership dues, endowments, reprints, or a print or premium edition.
- Volunteerism
- Combination of the above



From a closed loop...



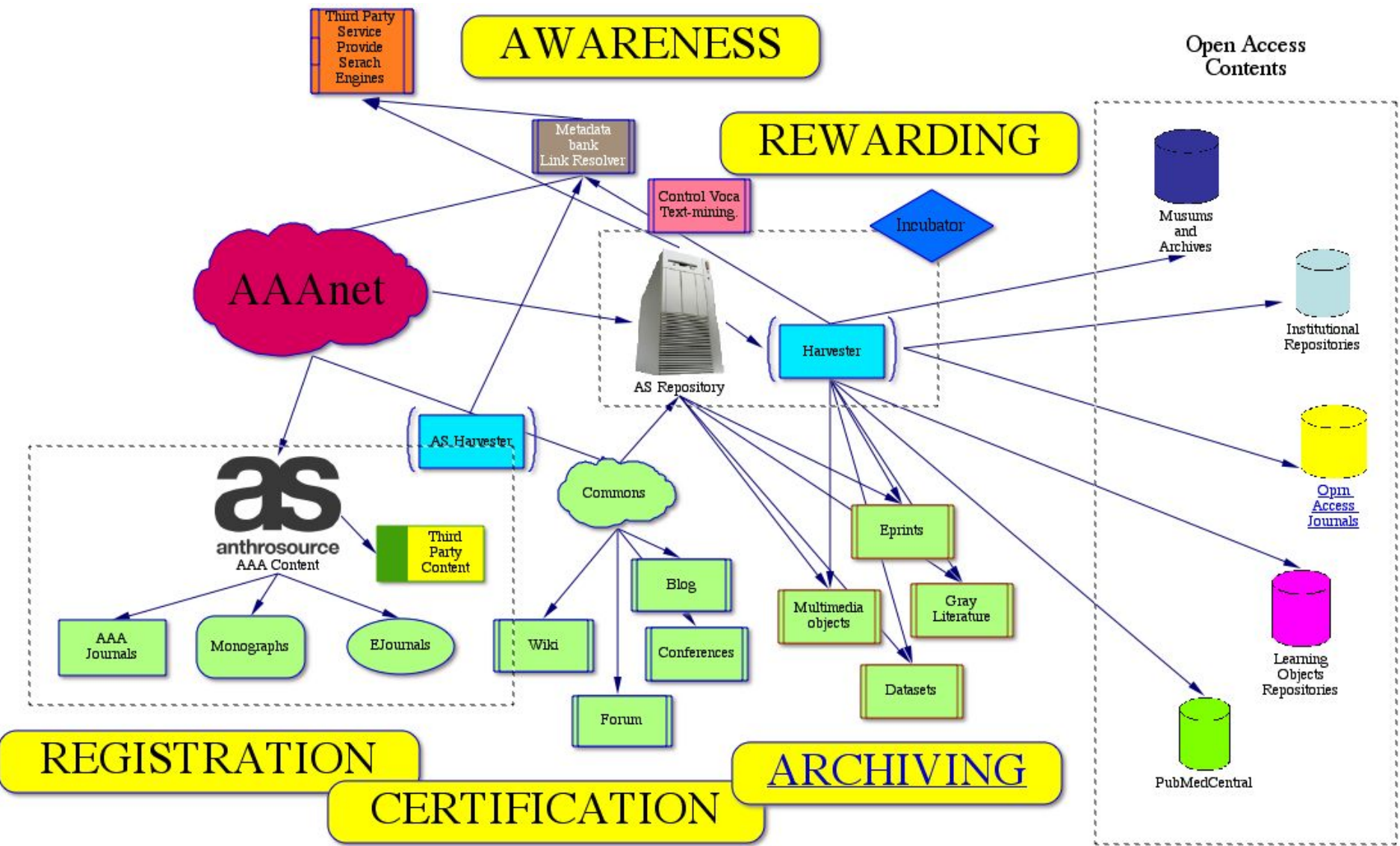




From a closed loop...to a open circle

Emerging models of open scholarship

- Journal as a bundle of functionalities
- Unbundling of the traditional functions
- Closer integration of repositories with journals
 - Computational potential: database, reuse, text mining, pattern recognition etc.
 - Repositories should be both thematic and interoperable
 - Make evident the research potential of OA repositories and satisfying the needs of researchers



Final thoughts

- OA is increasing the visibility, accessibility and impact of knowledge in the periphery
- Collaboration is key and low cost (non-market and non-proprietary production)
- OA journals and repositories need to be more integrated
- Need to develop value-added services with OA databases and better interoperability standards
- Alternative and more inclusive measures of research impact is emerging but OA is the foundation
- **Need to educate funding agencies (and provosts) about the importance and benefits of research dissemination through OA**