

# arXiv Member Advisory Board Introductory Meeting

March 2013

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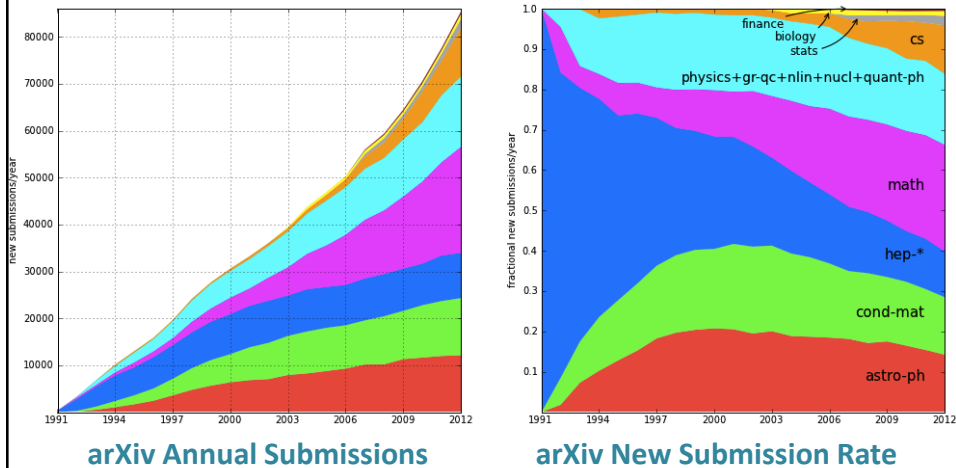


Cornell University  
Library

arXiv.org

- established in 1991 by Paul Ginsparg
- has been hosted at Cornell since 2001
- includes 824,000 e-prints
- 2012
  - 84,603 new submissions
  - ~50 million downloads

## arXiv Growth (1991-2012)



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## 2012 Submission Rates by Fields

- Math (22565): 26.7%
- Condensed Matter (12184): 14.4%
- Astrophysics (12121): 14.3%
- Computer Science (10236): 12.1%
- High Energy Physics (9636): 11.3%
- Physics (6545): 7.7%
- Quantum Physics (3767): 4.5%
- General Relativity & Quantum Cosmology (2057): 2.4%
- Nuclear Experiment & Theory (1829): 2.2%
- Statistics (1284): 1.5%
- Qualitative Biology (1057): 1.2%
- Nonlinear Sciences (839): 1.0%
- Quantitative Finance (483): 0.6%

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## Projected Expenses (2013-2017)

| Expense <sup>1</sup>      | Description  | 2013           | 2014           | 2015           | 2016           | 2017           |
|---------------------------|--|----------------|----------------|----------------|----------------|----------------|
| <b>Staff</b>              |  |                |                |                |                |                |
|                           | User support (staff)                                   | 228,405        | 236,400        | 244,680        | 295,453        | 305,795        |
|                           | User support (student)                                 | 8,500          | 8,500          | 8,500          | 8,500          | 8,800          |
|                           | Programming & system maintenance                       | 238,669        | 164,685        | 170,453        | 176,415        | 182,590        |
|                           | Management & administration                            | 61,835         | 64,000         | 66,240         | 68,558         | 70,955         |
|                           | <i>Subtotal Staff Costs</i>                            | 537,409        | 473,585        | 489,873        | 548,925        | 568,140        |
| <b>Other Direct Costs</b> |  |                |                |                |                |                |
|                           | Server costs <sup>2</sup>                              | 41,700         | 43,160         | 44,670         | 46,235         | 47,855         |
|                           | Network bandwidth & telephony                          | 1,550          | 1,605          | 1,660          | 1,720          | 1,780          |
|                           | Staff computers, software & supplies                   | 1,865          | 1,930          | 2,000          | 2,070          | 2,140          |
|                           | Staff travel   | 8,280          | 8,570          | 8,870          | 9,180          | 9,500          |
|                           | Advisory group travel support                          | 20,700         | 21,425         | 22,175         | 22,950         | 23,755         |
|                           | <i>Subtotal Direct Costs</i>                           | 74,095         | 76,690         | 79,375         | 82,155         | 85,030         |
| <b>Indirect Costs</b>     |  |                |                |                |                |                |
|                           | Facilities <sup>3</sup>                                | 67,265         | 60,530         | 62,617         | 69,419         | 71,849         |
|                           | Department administration & staff support <sup>4</sup> | 158,991        | 143,072        | 148,004        | 164,081        | 169,824        |
|                           | <i>Subtotal Indirect Costs</i>                         | 226,256        | 203,602        | 210,622        | 233,500        | 241,673        |
|                           | <b>Total Expenses</b>                                  | <b>837,760</b> | <b>753,877</b> | <b>779,869</b> | <b>864,580</b> | <b>894,843</b> |

### arXiv Organizational Chart

#### Kenney, University Librarian \*

- Resolve disputes between CUL, MAB, SAB as they relate to CUL's responsibilities
- Determine termination and need for transition strategy

#### Rieger, Program Director (15-20%) \*

- Oversee the arXiv program (user support, IT, and membership)
- Foster a transparent and open communication strategy
- Identify and develop policies relevant to arXiv operation, preservation, and sustainability
- Take the lead in business planning



#### Warner, IT Lead (30%)

- Operate arXiv's technical infrastructure  
Provide interfaces and data access to support open reuse of arXiv data;
- Implement archiving strategies
- Establish and maintain partnership with related initiatives
- STAFF – Shawn Bower, Peter Halliday, Martin Lessmeister (25%)



#### Porciello, Membership Program Lead (10%) \*

- Manage the arXiv membership program
- Maintain and communicate information about sustainability program
- Participate in other fund raising efforts to diversify arXiv's revenues



#### Ruddy, User Support Lead (20%)

- Oversee arXiv's user-support, moderation, and administration processes
- Working with SAB in developing new policies and procedures
- Oversee the moderation process, including resolving problem cases
- STAFF –Don Beyer, Laura Jones, Jake Weiskoff

Last updated: April 29, 2012

\* Included in CUL's indirect contributions



## arXiv Sustainability Initiative

In January 2010, Cornell University Library (CUL) undertook a three-year planning effort to establish a long-term sustainable support model for arXiv, one that reduced arXiv's financial burden and dependence on a single institution and transitioned it to a collaboratively governed, community-supported resource. This new model is based on voluntary institutional pledges and contributions from libraries and research laboratories worldwide that represent arXiv's heaviest institutional users. arXiv's new long-term business and management plan will take effect in January 2013. Please see the resources below for more information about this plan.

- [arXiv Membership Program - FAQ](#)
- [Principles](#)
- [Business Model](#)
- [Scientific Advisory Board](#)
- [Member Advisory Board](#)
- [Member Advisory Board Bylaws](#)
- [Organizational Structure](#)
- [Initial Five-Year Support Pledges](#)
- [Additional Information](#)

### Sustainability Initiative Background Information (2010-2013)

- [arXiv Supporters: 2010, 2011, 2012](#)
- [arXiv Institutional Usage Statistics: 2009, 2010, 2011, 2012](#)
- [arXiv Budgets: CY 2010 Budget, CY 2011 Budget, CY 2012 Budget, CY 2013 Budget](#)
- [Additional Information](#)

<http://arxiv.org/help/support>

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## Membership Program

- Engage libraries and research laboratories worldwide that represent arXiv's heaviest institutional users in arXiv's support and governance
- Each member institution pledges a five-year initial funding commitment to support arXiv

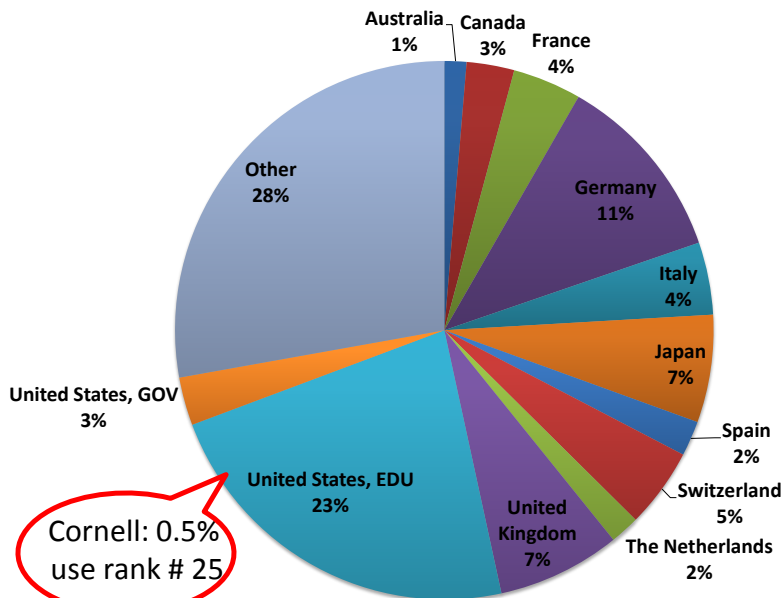
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## Business Model, 2013-2017

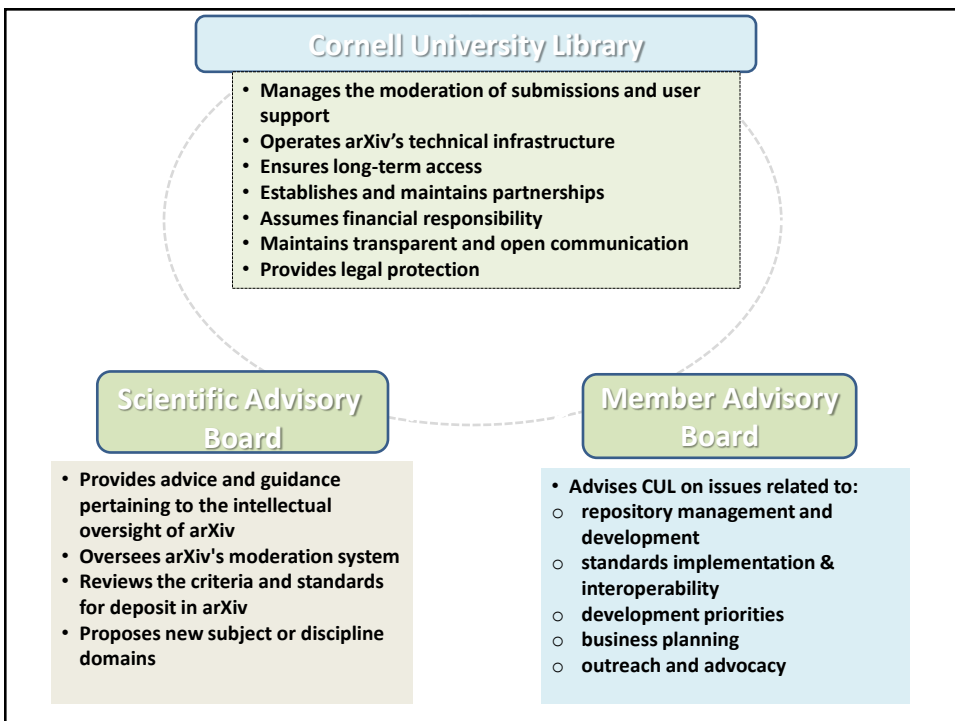
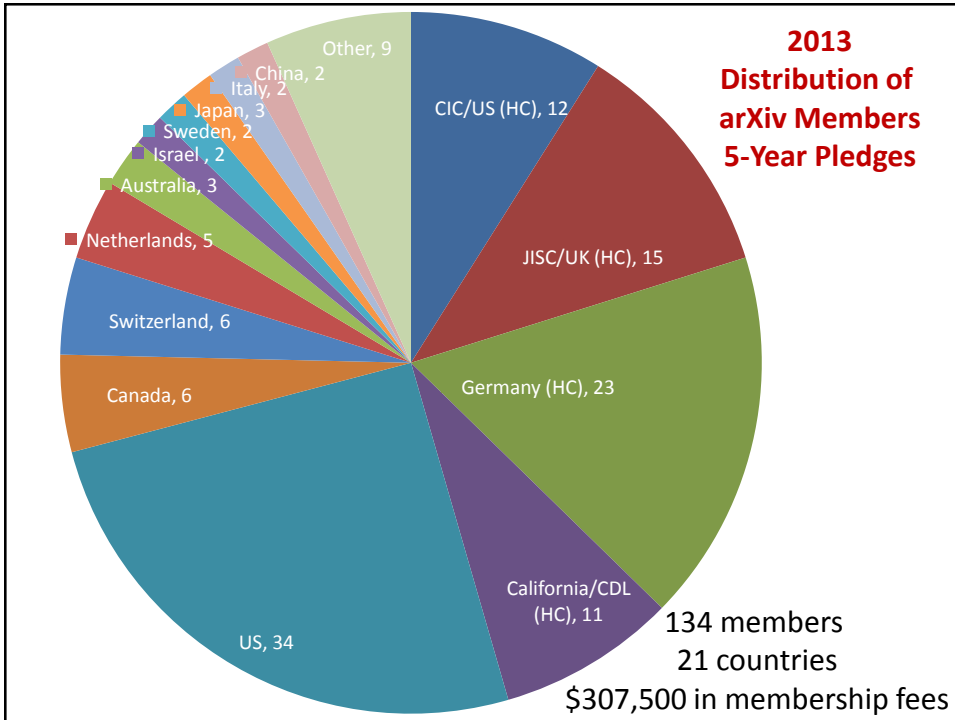
- Cornell University Library
  - \$75,000 per year in support of operational costs
  - in-kind contribution of all indirect costs (37%)
- Simons Foundation
  - \$50,000 per year
  - \$300,000 per year matching grant
- Member Institution
  - annual fees within \$1,500-3,000 range (based on usage ranking)

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## 2012 Institutional Use Distribution

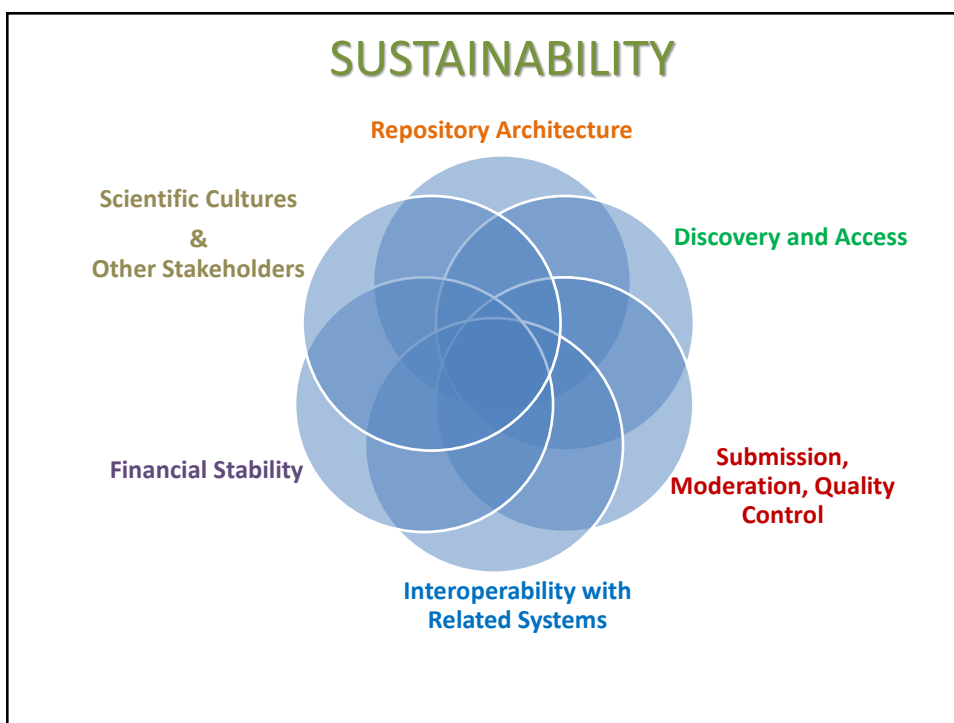


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## Principles for Sustainability

1. Deep integration into academic community and scholarly processes
2. Clearly defined mandate & governance structure
3. Technology platform stability and innovation
4. Systematic development of content policies
5. Reliance on business planning strategies



## arXiv Roadmap

<https://confluence.cornell.edu/display/culpublic/2013+arXiv+Roadmap>

- Technical
- User Support & Moderation
- Governance
- New Partnerships & Communication