

**High Energy Physics and  
Open Access: is the SCOAP<sup>3</sup>  
initiative pushing the  
industry in the right  
direction?**

**Enrico M. Balli, Sissa Medialab**

17<sup>o</sup> Century: first journals

19<sup>o</sup> Century: peer review

After WW1: proliferation of journals

After WW2: book publishers enter the market

1980-1990: concentration of journal  
publications in a few large companies

Big circulation of preprints

# Costs for libraries:

Subscription fees

Shelves

Buildings

General costs



Elsevier's scientific and medical information and tools help its customers improve outcomes in science and health.

	2011 €m	2010 €m	Change	Change at constant currencies	Change underlying
<b>Revenue</b>					
Science & Technology	<b>1,076</b>	1,015	+6%	+4%	+4%
Health Sciences	<b>982</b>	1,011	-3%	-2%	0%
	<b>2,058</b>	2,026	+2%	+1%	+2%
Adjusted operating profit	<b>768</b>	724	+6%	+3%	+4%

A good business for a publisher...



**Reed Elsevier continued its positive momentum in 2011. All five business areas contributed to underlying revenue growth with underlying operating profits growing well.**

**A good business for a publisher...**



2011 was a year of good progress both strategically and financially. Our large subscription and data businesses performed well and uncertainty in the macro economic environment in the latter part of the year had only a limited impact on some of our more cyclical businesses.

A good business for a publisher...

**Individual emoluments of executive directors**

	Salary £	Benefits £	Bonus £	Total 2011 £	Total 2010 £
<u>Erik Engstrom</u>	1,025,000	28,492	1,021,925	<u>2,075,417</u>	2,028,108
<u>Mark Armour</u>	628,776	22,988	611,799	<u>1,263,563</u>	1,248,742
Total	1,653,776	51,480	1,633,724	3,338,980	3,276,850

A good business for a publisher...

# The value added by a journal:

~~Typesetting~~

~~Distribution~~

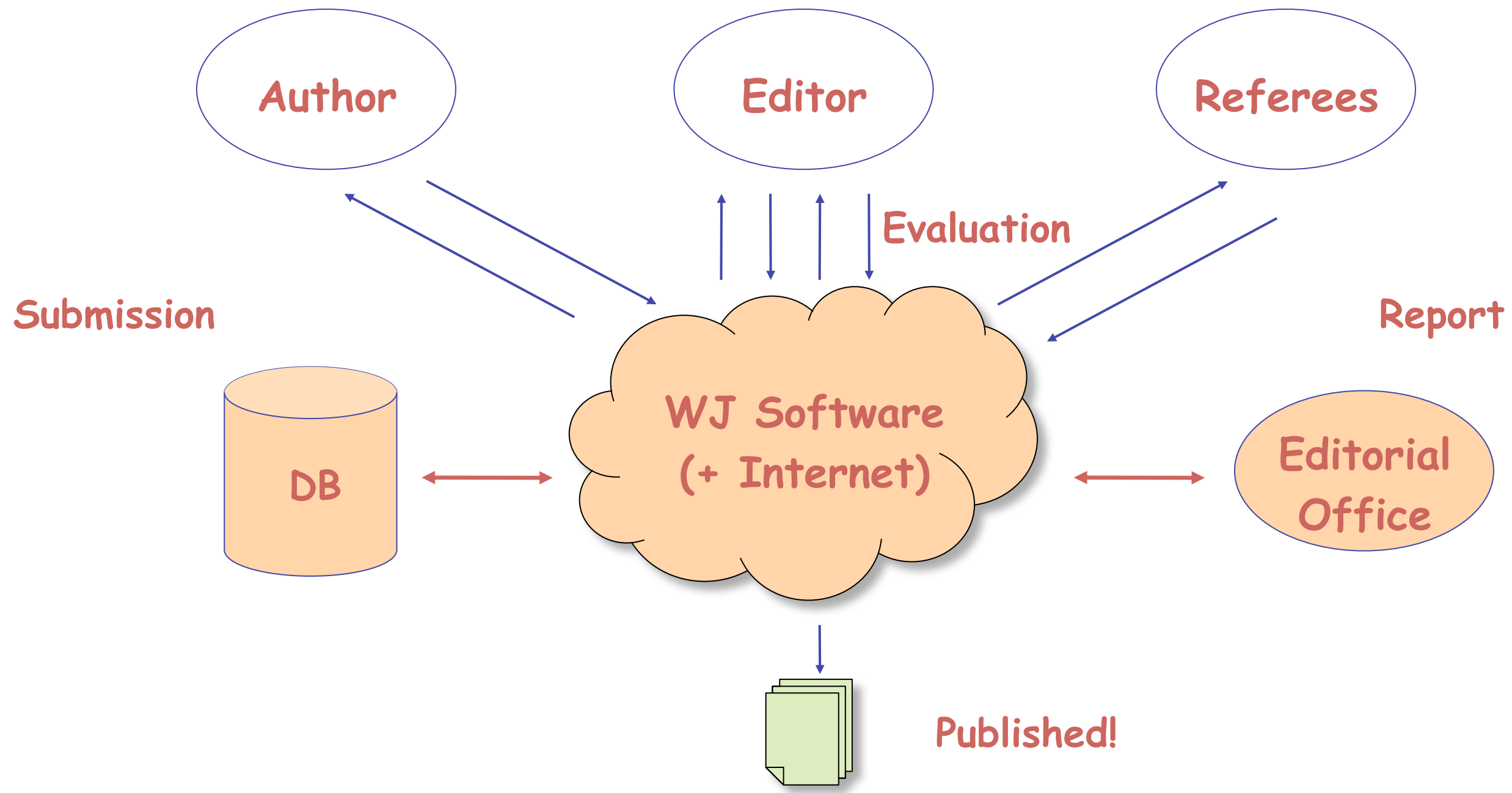
~~Preservation~~

Peer review

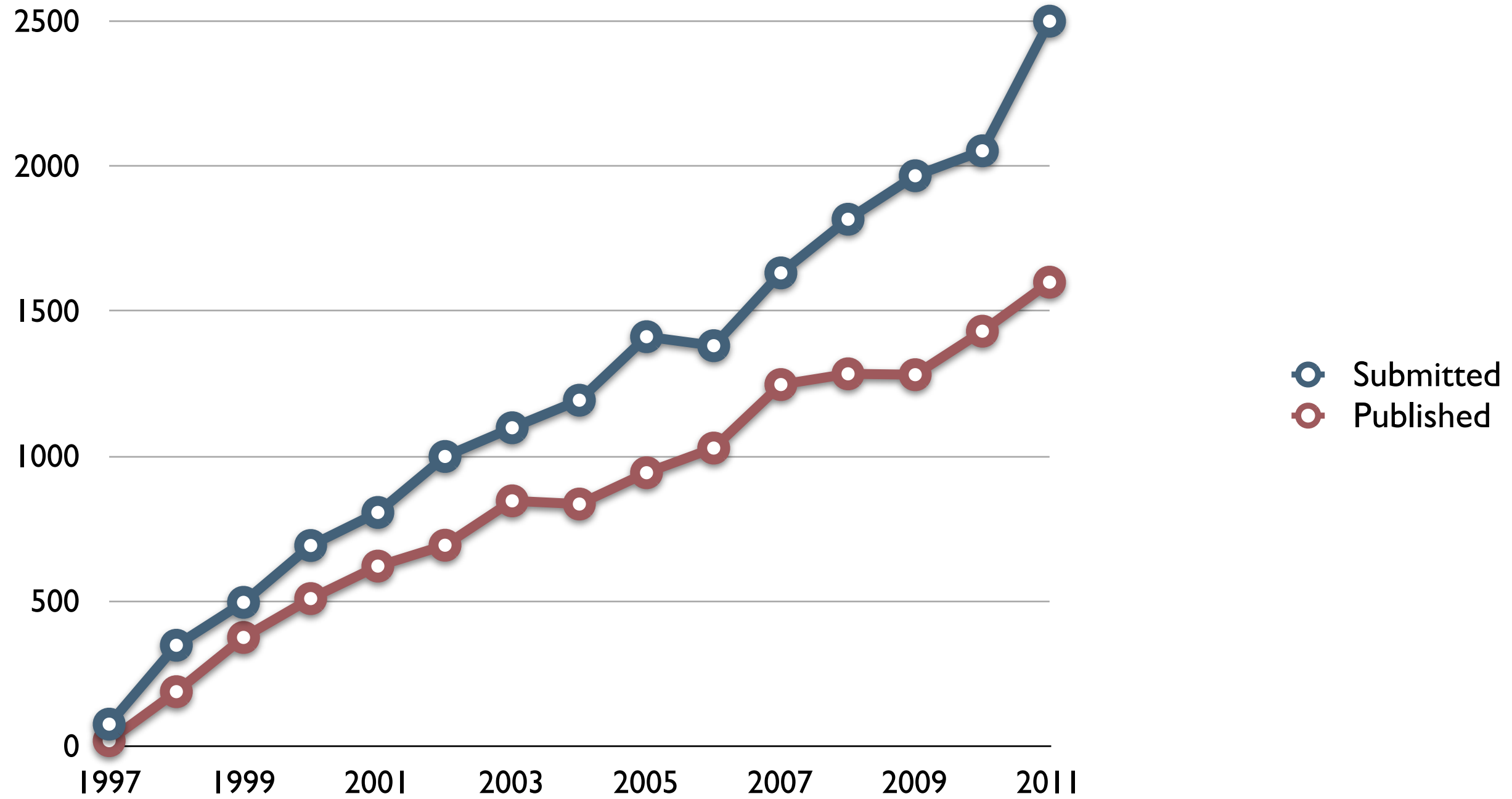


1996: SISSA creates JHEP, the first  
electronic, online only, Open Access  
Journal

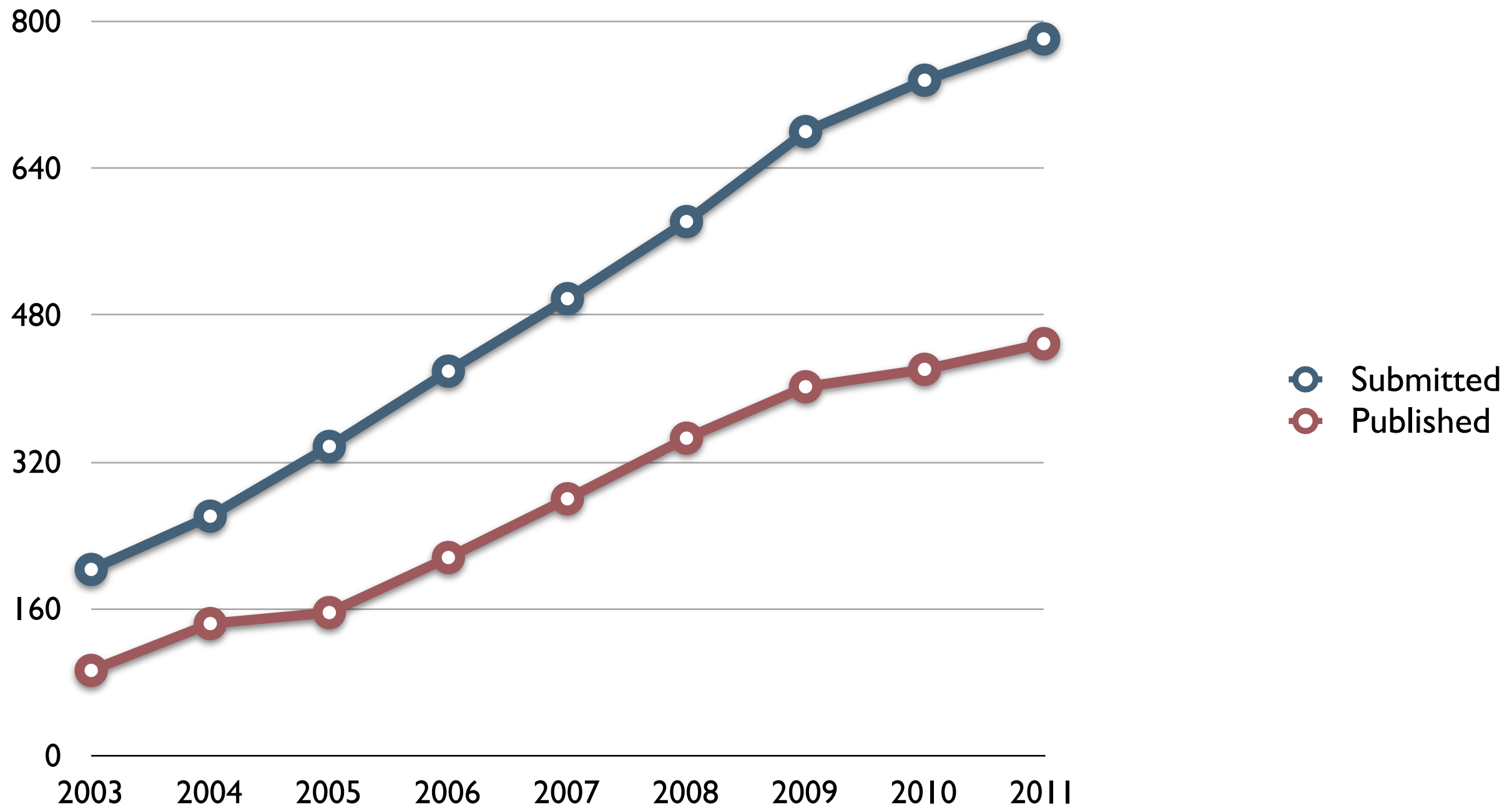
*A journal by scientists for scientists*



# JHEP in numbers:



# JCAP in numbers:



# Impact factor (ISI) in 2011:

JCAP	6,49
JHEP	6,05
Phys Rev D	4,96
Nucl Phys B	4,64
CQG	3,09

# Subscription prices 2011:

JHEP	2.000
Nucl Phys B	9.000
J Phys G	4.000

# Price/paper 2011:

JHEP	1,2
Nucl Phys B	26,4
J Phys G	9,1

# SCOAP<sup>3</sup> enters

The SCOAP<sup>3</sup> (Sponsoring Consortium for Open Access Publishing in Particle Physics) initiative aims to facilitate open access publishing of HEP literature in high-quality, peer-reviewed scientific journals.



# SCOAP<sup>3</sup> enters

In the SCOAP<sup>3</sup> model, publishers are paid by a single entity, on a per-article basis for peer-review and other publication services, and to make the final version of articles immediately available in Open Access .

# SCOAP<sup>3</sup> problems

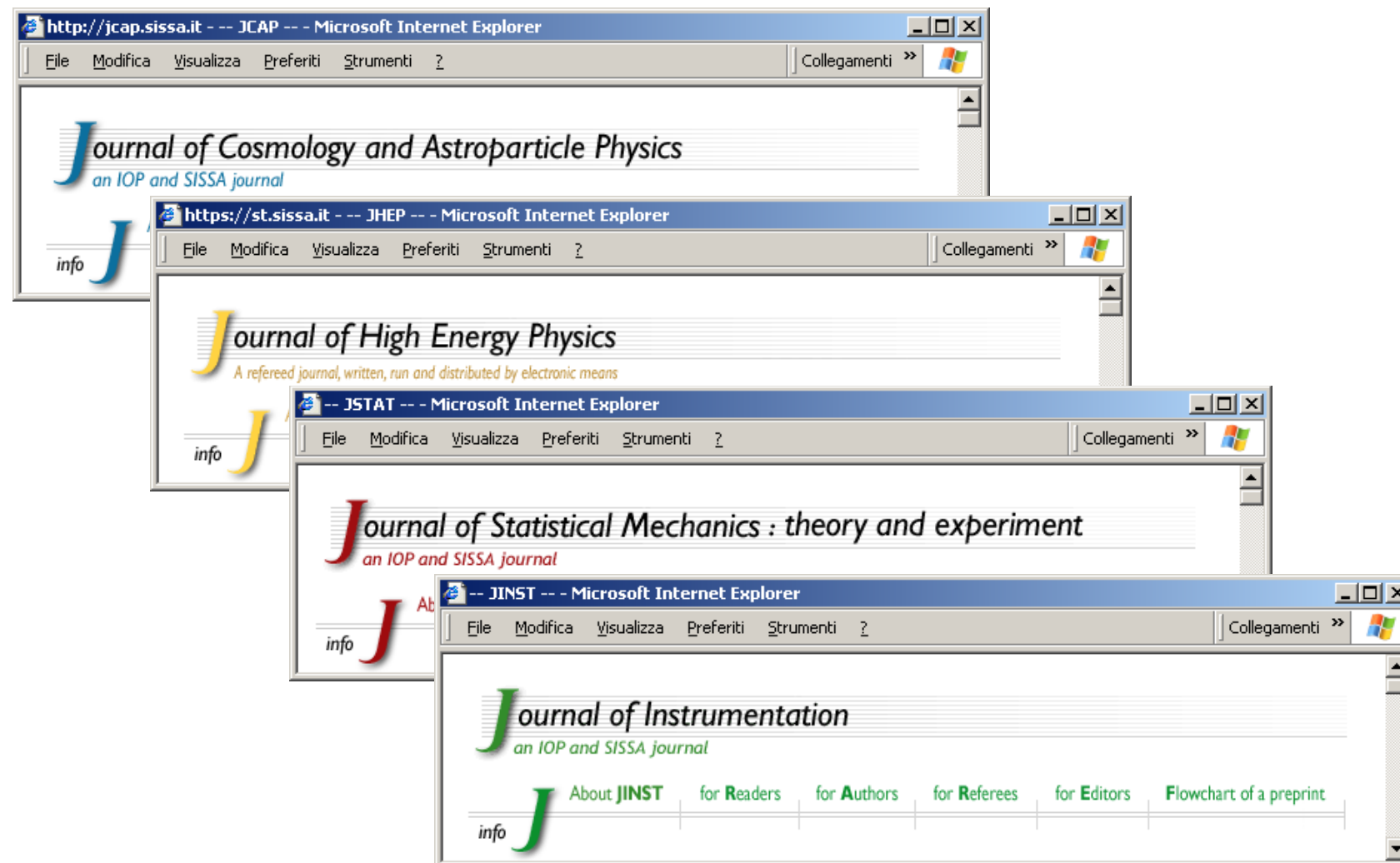
HEP is *de facto* Open Access since a few decades.

The tendering process is cumbersome.

The SCOAP<sup>3</sup> initiative will freeze competition for not less than 5 years.

The community journals could be killed by the failure of SCOAP<sup>3</sup>.

# *Journals by scientists for scientists*



**THANK YOU!**

[enrico@medialab.sissa.it](mailto:enrico@medialab.sissa.it)