

Socratic Dialogue & Springer

Heal-Link, Athens

3 November 2010

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Sales Director Springer

Southern Europe, Russia & Northern Africa



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Knowledge according to Socrates

- Knowledge is innate (we are born with it)
- Science is discovering what we already know
- The good is knowledge
- Four levels of knowledge:
- 1. Philosophical knowledge
- 2. Mathematical knowledge
- 3. Perception of objects/matter
- 4.Images/dreams



Scientific Publishing

- Original reports of data/theory
- Assert priority
- Correspondence between scientists
- Paper making technology (China 105)
- Movable-type printing (China 1040)
- "Gutenberg" printing technology (Korea <1403)
- Silver & gold from America (1492-)
- The two first scientific journals (1665)
 - Philosophical Transactions (London)
 - Journal des Savants (Paris)

THILOSOPHICAL TRANSACTIONS:

GIVING SOME

ACCOMPT

Undertakings, Studies, and Labours

OF THE

INGENIOUS

IN MANY CONSIDERABLE PARTS

OFTHE

WORLD

Vol I.

For Anno 1665, and 1666.

In the SAVOY.

Printed by T. N. for John Martyn at the Bell, a little with out Temple-Bar, and James Allestry in Duck-Eane, Printers to the Royal Society.

Prosented by the Author May 30th 1667

LE

IOVRNAL DES SCAVANS

Du Lundy V. Ianvier M. D.C. LXV.

Par le Sieur DE HEDOVVILLE.



A PARIS.

Chez I BAN CVSSON, ruë S. Iacques, à l'Image de S. Iean Baptiste.

M. DC. LXV.

PHILOSOPHICAL TRANSACTIONS.

Munday , March 6. 1667.

The Contents.

An Introduction to this Track. An Accompt of the Improvement of Optick Glasses at Rome. Of the Objevation made in England, of a Spet in one of the Belving the Flanes Jupiter. Of the motion of the late Comet pradicted. The Heads of many New Objevations and Experiments, inorder to an Experimental History of Colds together with some Thermometrical Discourses and Experiments. A Relation of a very odd Monstrons Calf. Of a peculiar Lead-Ore in Germany, very useful for Eslays. Of an Hungarian Bolus, of the same effect with the Bolus Armenus. Of the New American Whale sisting about the Bermudas. A Narative concerning the sacress of the Pendulum-watches at Sea for the Longitudes; and the Grant of a Patent chereupon. A Catalogue of the Philosophical Books published by Monsieur de Fermat, Counsellour at Tholowic, lately dead.

The Introduction.

Hereas there is nothing more necessary for promoting the improvement of Philosophical Matters, than the communicating to such, as apply their Studies and Endeavours that way, such things as are discover-

thought fit to employ the Prefs, as the most proper way to gratifie those, whose engagement in such Studies, and delight in the advancement of Learning and profitable Discoveries, doth entitle them to the knowledge of what this Kingdom, or other parts of the World, do, from time to time, afford, as well

A

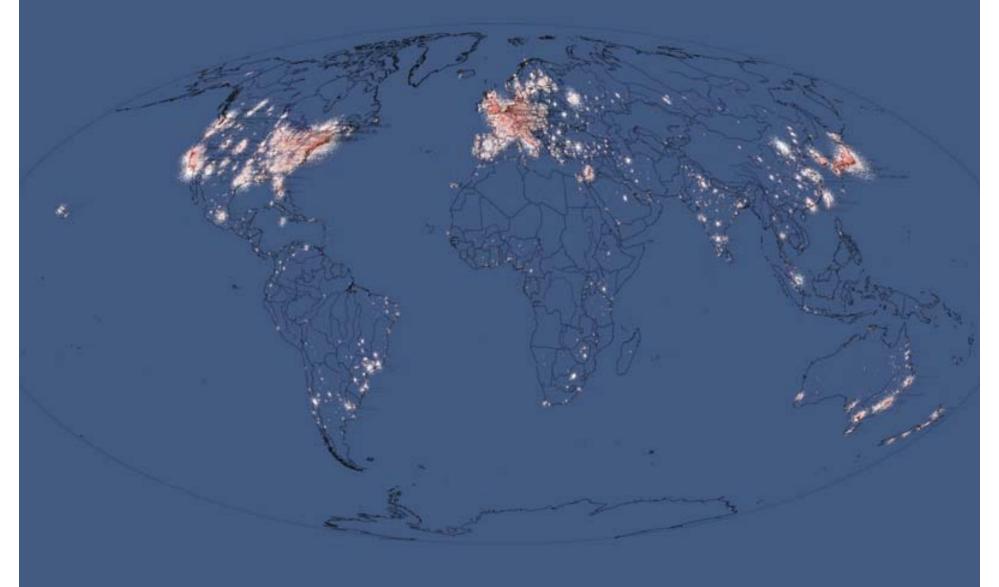
OF.

Springer the language of science

Scientific Journals

- Acceleration around 1760
- Since then: doubling every 15-20 years
- (Springer 1842. Politics, agriculture, mathematics)
- 1880: articles often 200-300 pages
- 1920: research split up in many short articles
- Now over 180.000 journals/report series
- Approx 20.000 peer reviewed
- 1.5M peer reviewed articles/year, by 2000 publishers, read by 15M scientists
- 1969 Internet
- 1989 WWW
- 1991 arXiv at LANL
- (SpringerLINK 1997)

GEOGRAPHIC MAP: WHERE SCIENCE GETS DONE





Journal publishing is changing

- from print on paper to print on line
- from individual libraries to consortia
- from subscriptions to licences
- from individual titles to collections
- from journal to article



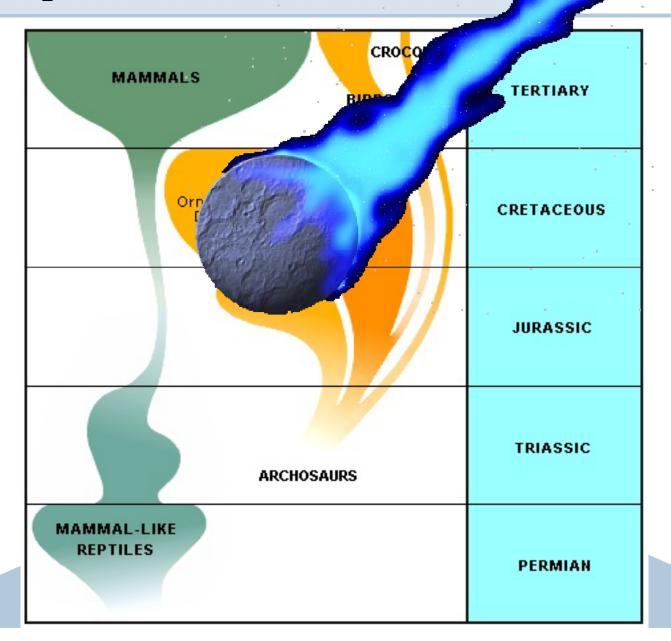
Expectations are also changing

- from selection to comprehensiveness
- from print to electronic
- from textual to multi-media
- from fast to immediate
- from browsing to searching
- from dissemination to formalization
- from reading to mining

Paleontology as Metaphor

Thanks to Jan Velterop





...for Scientific Publishing

Thanks to Jan Velterop

② S₁	pringer the language of science
001	

open access journals magazines	2000'
review jnls	S
sc Inter- rcial	1900'
net net	S
	1800'
	S
	1700'
subscription journals	S
correspondence between scientists	1600'
	S

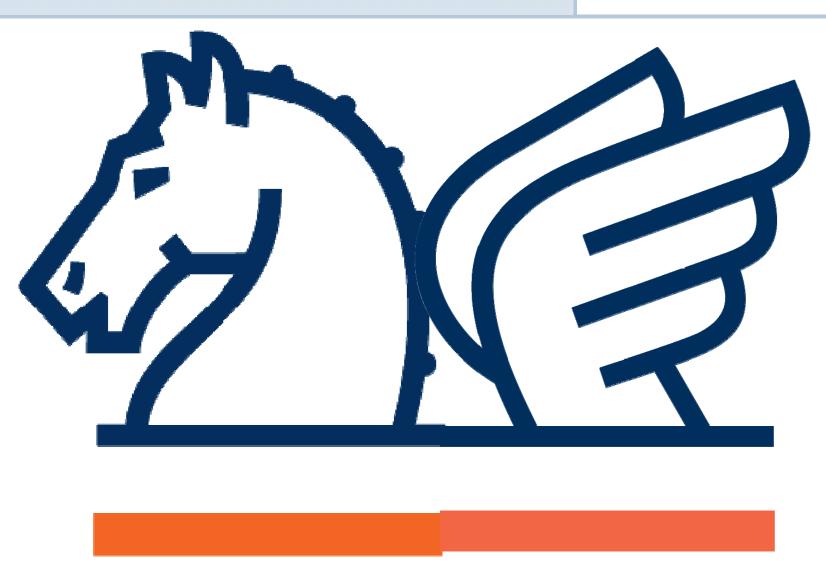


Darwin:

Not the strongest survive; not the most intelligent; not even the most adaptable; but those *not mis-adapted*.



How to survive?





Examples OA Springer

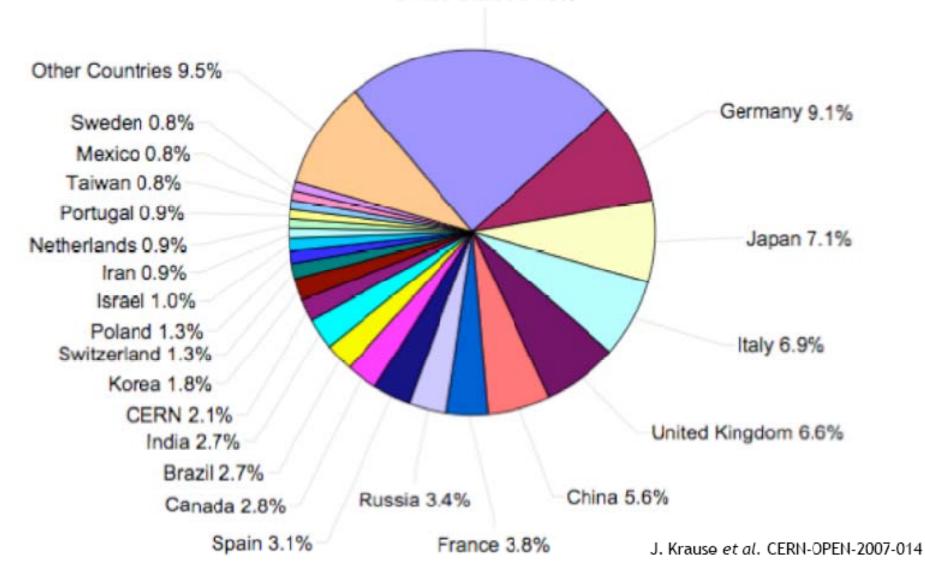
- Biomed Central Physmath Central
- OpenChoice & SpringerOpen
- Experiments in Germany, Holland, China, etc
- SCOAP3

SCOAP3 --- by country (10Meur)



Fair-share: contribute as per peer-review usage

United States 24.3%





Socrates / Plato revisited

- Four levels of knowledge:
- 1. Philosophical knowledge (structure of the mind)
- 2. Mathematical knowledge
- 3. Perception of objects/matter
- 4.Images/dreams
- Translates to four Springer products!!
- 1.Structured search for knowledge SpringerProtocols
- 2. Mathematics ZMATH
- 3. Properties of matter SpringerMaterials
- 4. Images SpringerImages



SpringerProtocols

- www.springerprotocols.com
- the World's largest collection of life science protocols
- ("kitchen recipes")
- over 22,000 and growing with over 2,000 per year
- Methods in Molecular Biology
- Methods in Molecular Medicine, etc.
- Editor = John M Walker the creator of the protocol standard
- interactive (web2.0)
- video protocols

ZMATH



- www.zentralblatt-mathematik.org/zmath
- the World's largest and longest running review database in pure and applied mathematics
- years 1824 now
- over 2,900,000 entries
- over 3,500 journals and 1,100 serials
- over 120,000 new entries per year
- Mathematics Classification Scheme (MSC2000)
- European Mathematical Society



SpringerMaterials

- www.springermaterials.com
- properties of matter physics /chemistry /material science
- continuation of Landolt-Boernstein (since 1883)
- the "Rolls Royce" of Springer
- over 1,000 editors scanning the World literature
- entries by periodical table, combinations of elements
- * Particles, Nuclei and Atoms
- * Molecules and Radicals
- * Electronic Structure and Transport
- * Magnetism
- * Semiconductivity
- * Superconductivity
- * Crystallography

- * Thermodynamics
- * Multiphase Systems
- * Advanced Materials
- * Advanced Technologies
- * Astro- and Geophysics



SpringerImages

- www.springerimages.com
- scientists search for the image, the graph, the table!
- over 2,200,000 images
- all subjects!
- half is medicine / biomedicine
- user-friendly
- easy to export and use images
- allowed! (if not commercial)



ευχαριστώ!