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5 November 2009

Dr Frans Lettenstrom

Sales Director Springer

Southern Europe, Russia & Northern Africa

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)



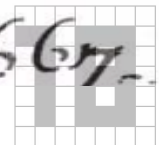
PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD.

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-Lane*,
Printers to the *Royal Society*.

Presented by the Author May. 30th 1667.



LE
JOURNAL
DES
SCAVANS

Du Lundy V. Janvier M. DC. LXV.

Par le Sieur DE HEDOVILLE.



A PARIS,

Chez JEAN CVSSON, rue S. Jacques, à l'ima-
ge de S. Jean Baptiste.

M. DC. LXV.

AVEC PRIVILEGE DV ROY.


(1) Numb. 1.
PHILOSOPHICAL
TRANSACTIONS.

Monday, March 6. 1667.

The Contents.

*An Introduction to this Treat. An Account of the Improvement of
Optick Glasses at Rome. Of the Observation made in England,
of a Spot in one of the Belts of the Planet Jupiter. Of the motion of
the late Comet predicted. The Heads of many New Observations
and Experiments, in order to an Experimental History of Cold;
together with some Thermometrical Discourses and Experiments.
A Relation of a very odd Mousstrow Calf. Of a peculiar Lead-
Ore in Germany, very useful for Essays. Of an Hungarian Bo-
lus, of the same effect with the Bolus Armenus. Of the New Ame-
rican Whale-fishing about the Bermudas. A Narrative concerning
the success of the Pendulum-watches at Sea for the Longi-
tudes; and the Grant of a Patent thereupon. A Catalogue of the
Philosophical Books published by Monsieur de Fermat, Counsellour at
Tholouse, 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 discove-
red or put in practise by others; it is therefore
thought fit to employ the *Press*, 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

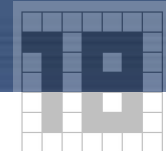
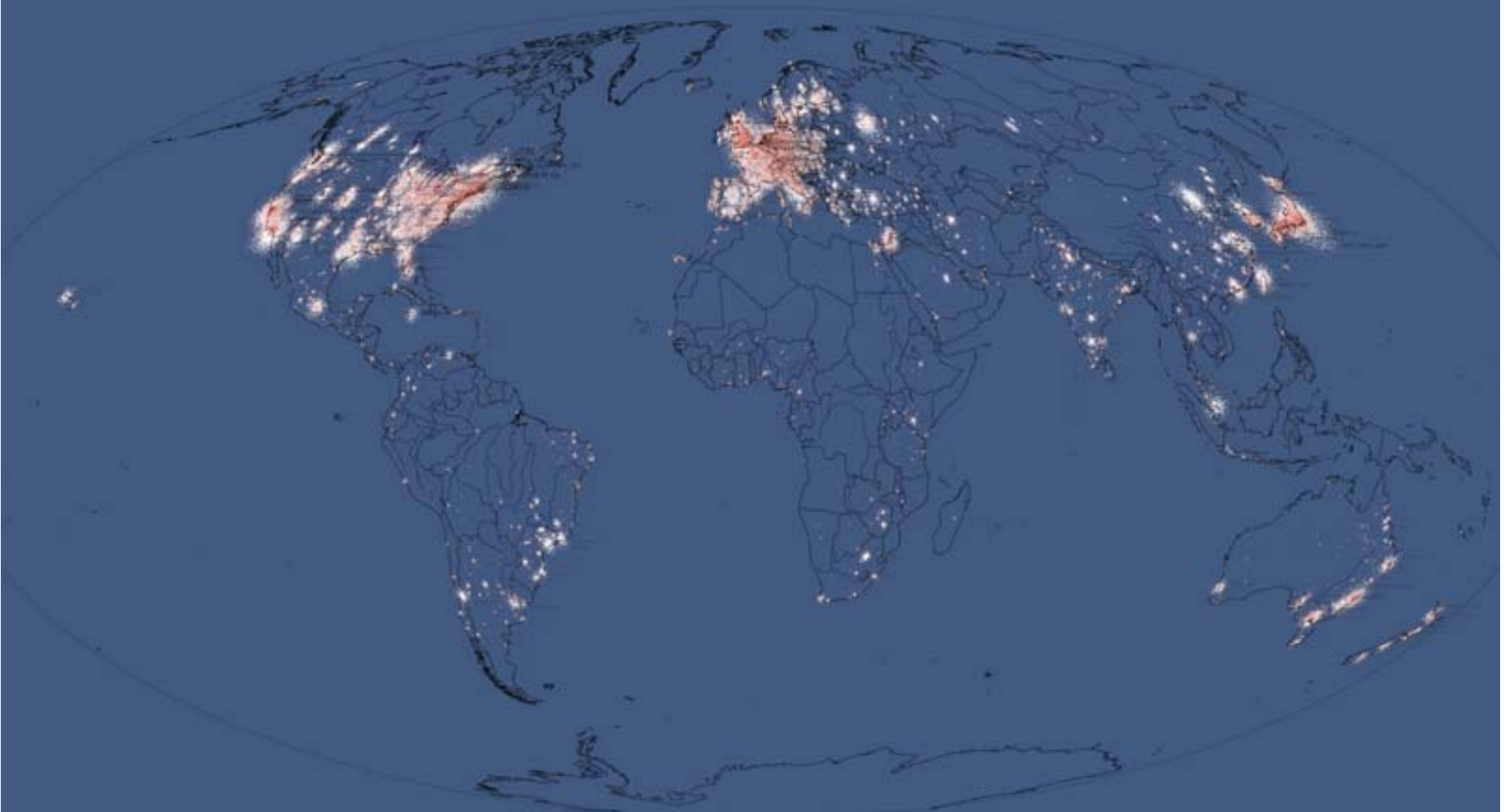


Scientific Journals

- 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 120.000 journals/report series
- Approx 19.000 peer reviewed
- 1.2M peer reviewed articles/year, by 2000 publishers, read by 12M 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



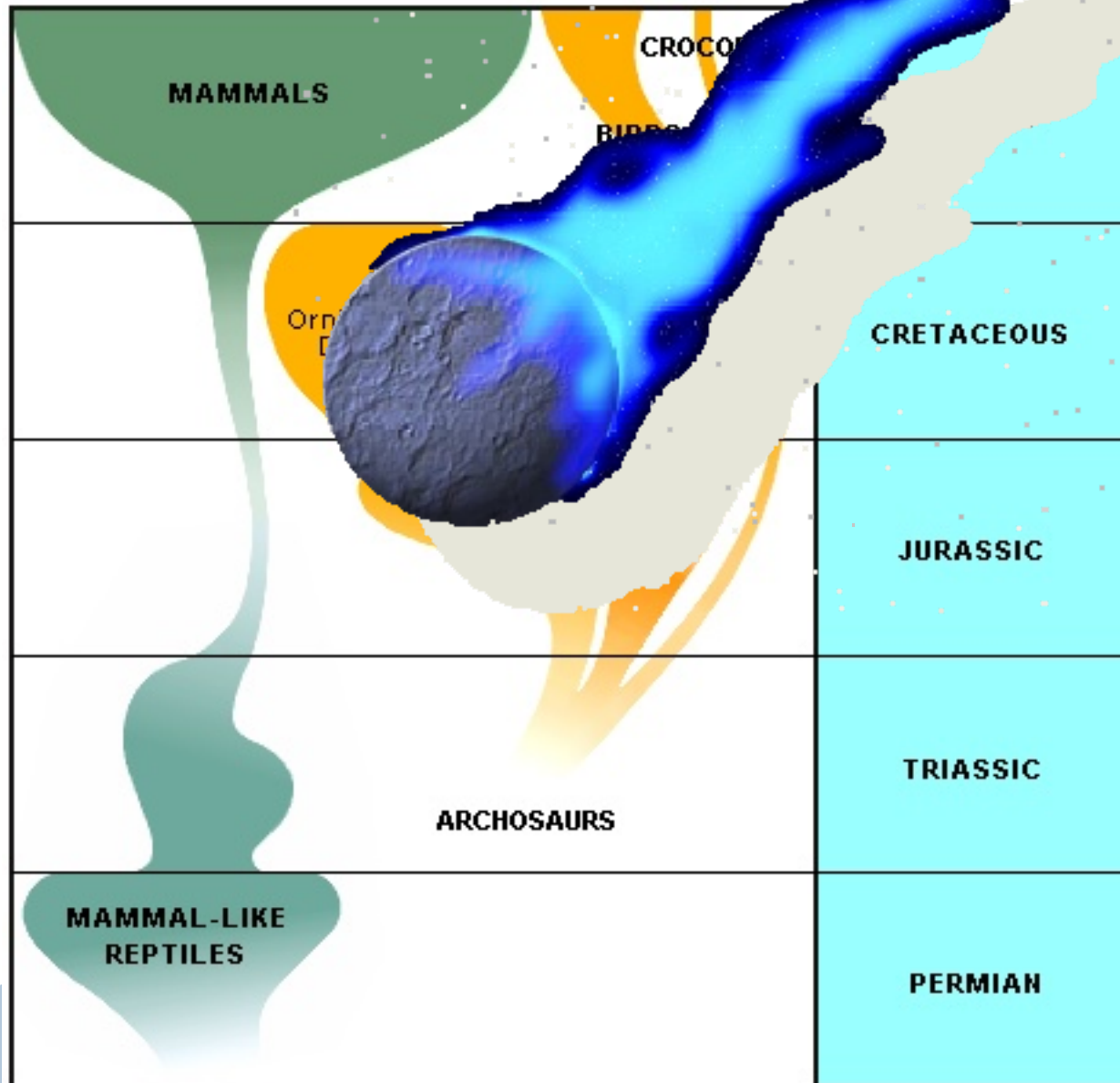
Expectations are also changing

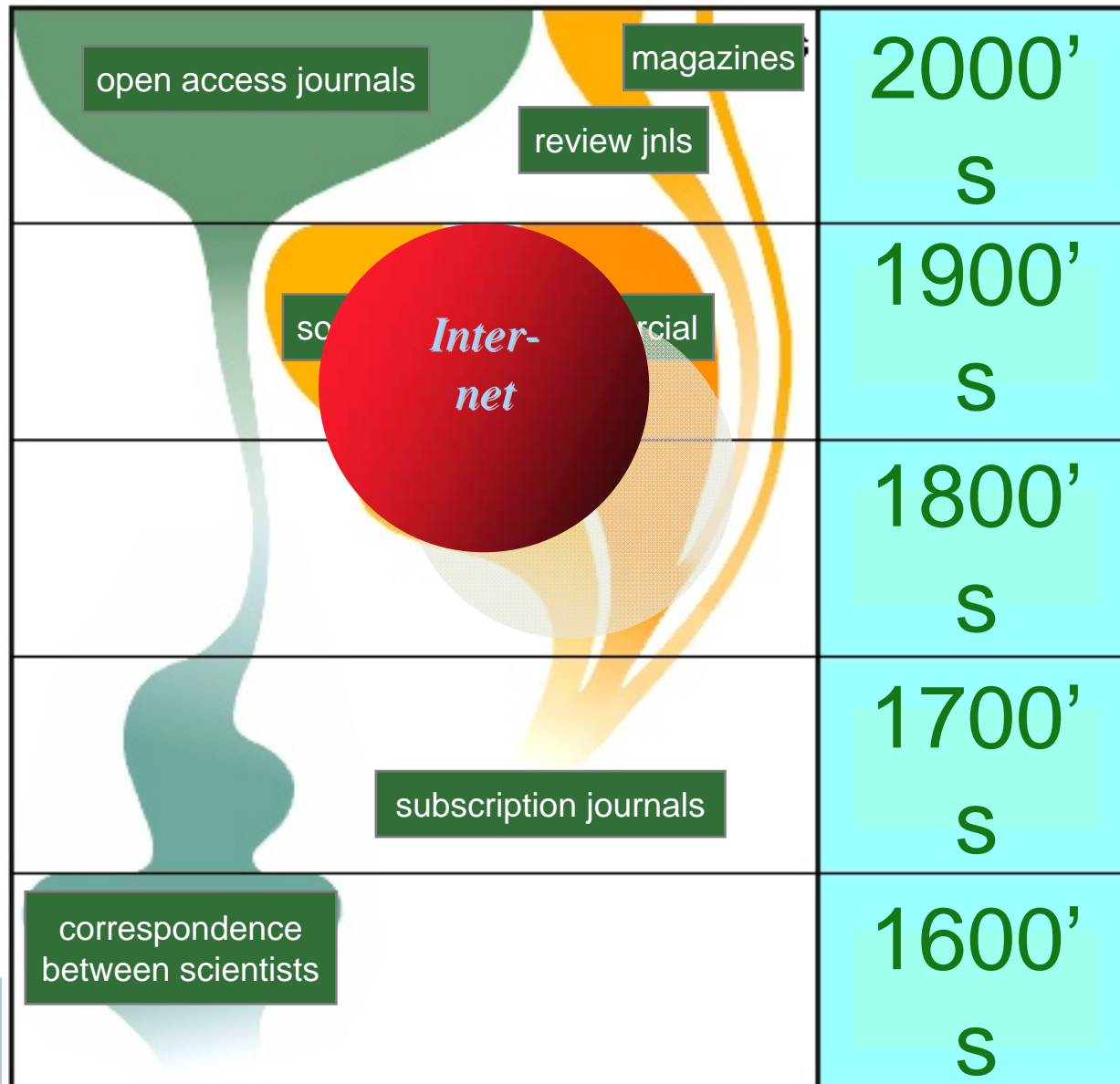


- from selection to comprehensiveness
- from print to electronic
- from textual to multi-media
- from fast to immediate
- from browsing to searching
- from dissemination to formalization
- from reading to mining



Thanks to Jan Velterop





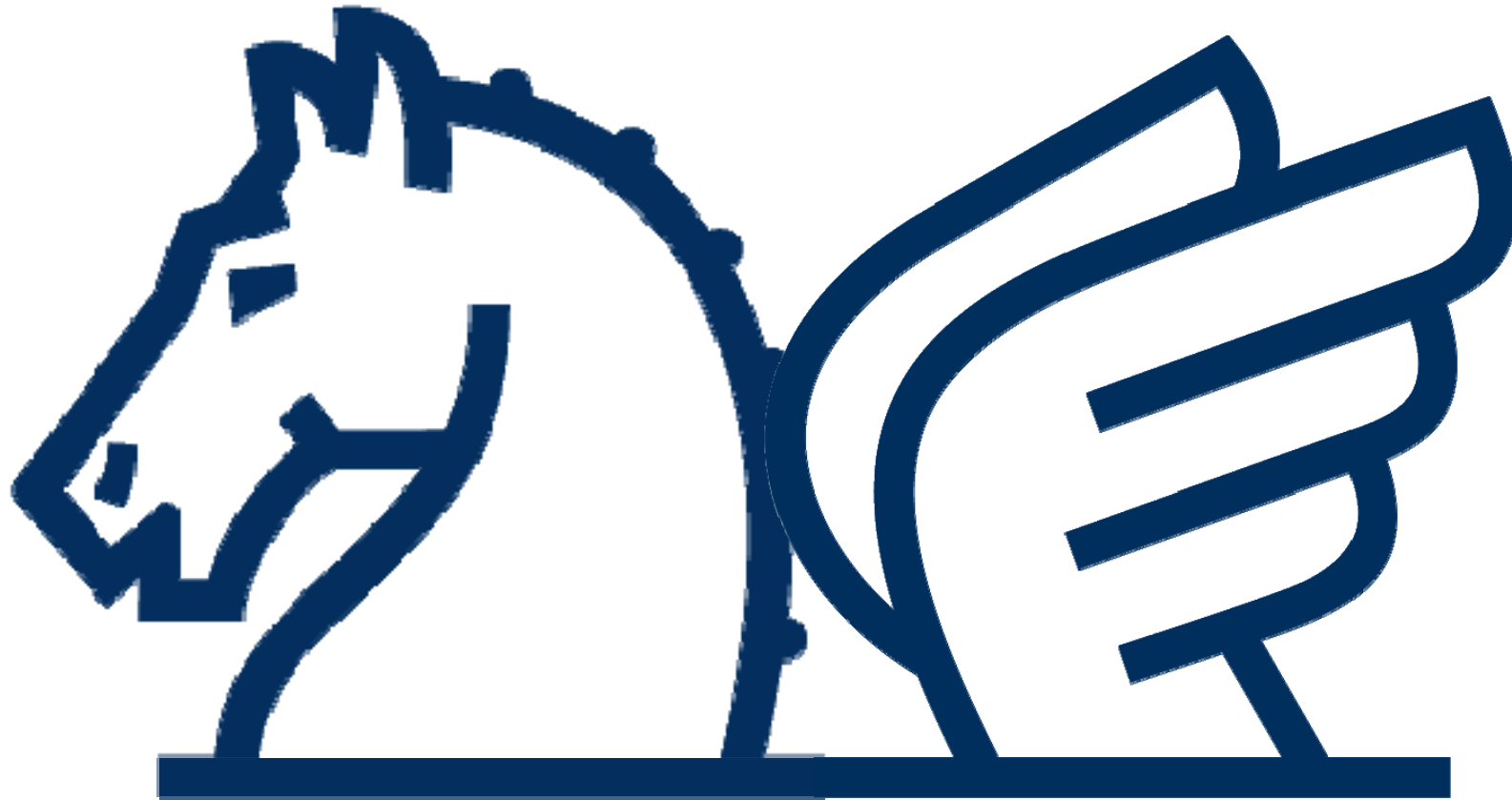


Darwin:

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



How to survive?



Examples OA



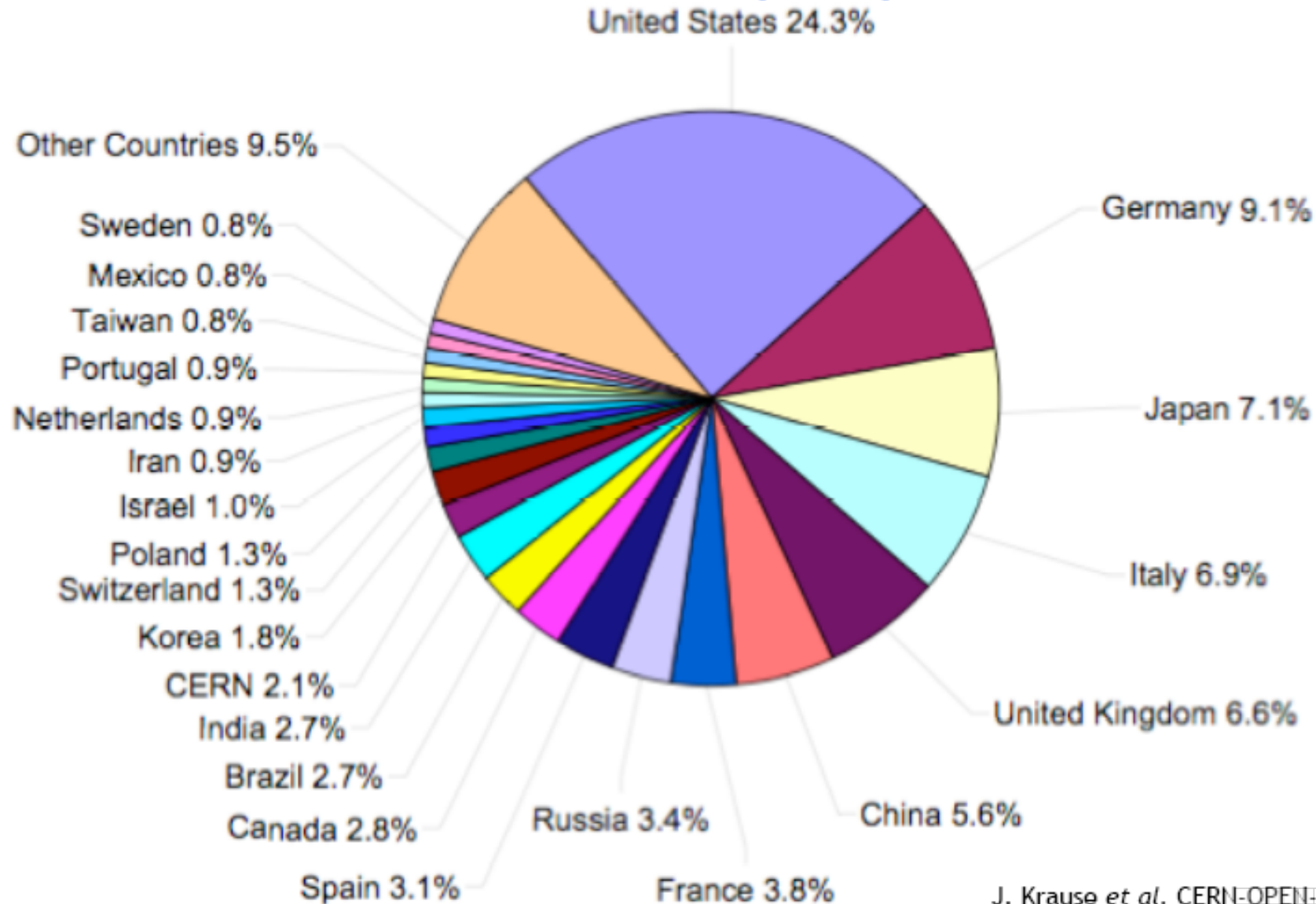
- Biomed Central – Physmath Central
- OpenChoice
- Experiments in Germany, Holland, China, and Spain
- SCOAP3



SCOAP3 --- by country (10Meur)



Fair-share: contribute as per peer-review usage



J. Krause et al. CERN-OPEN-2007-014

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Questions?

