

Elsevier Research Intelligence

# Open Science, di cosa si tratta?

## La prospettiva di un Editore

Federica Rosetta  
Associate Director Academic Relations  
ELSEVIER

November 2016

# Lead the way in advancing science, technology and health

Marie Curie  
(Physics,  
Chemistry)



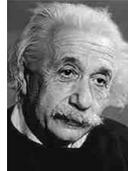
Louis  
Pasteur  
(Chemistry)



Alexander  
Fleming  
(Medicine)



Albert  
Einstein  
(Physics)



Shinya  
Yamanaka  
(Medicine)



John C.  
Mather  
(Physics)



Francoise  
Barre-Sinoussi  
(Medicine)



Craig C Mello  
(Medicine)



Galileo's last and greatest work, published in 1638 by Elsevir, *Discorsi e Dimostrazioni Matematiche*

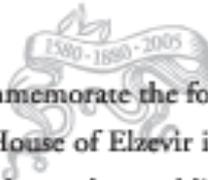


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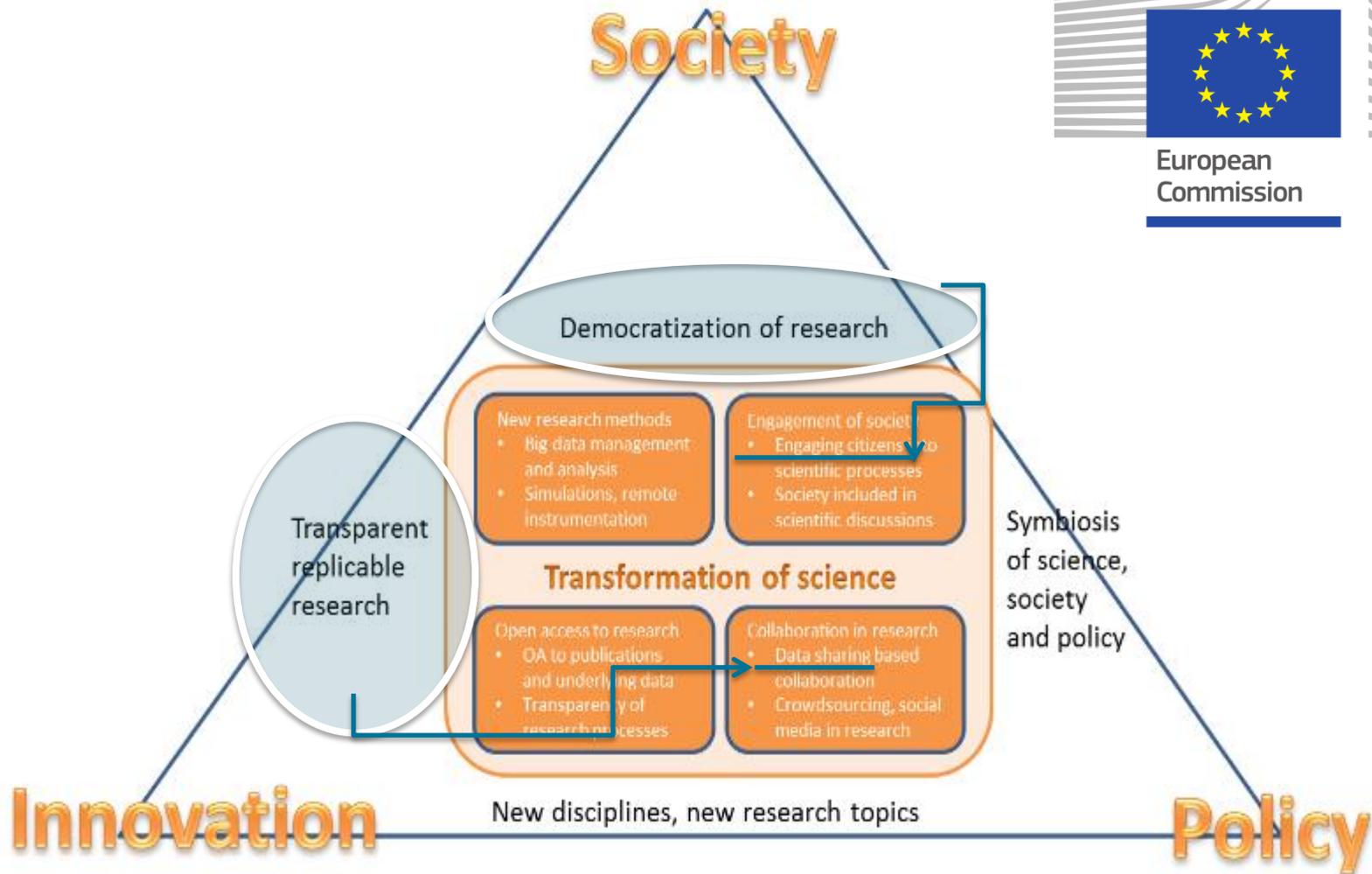
We commemorate the founding of the House of Elsevir in 1580 and celebrate the establishment of the Elsevier company in 1880.





- Concetto in definizione, varia per aree geografiche e gruppi
- Impiego delle nuove tecnologie al fine di rendere la scienza:
  - ✓ un'impresa **aperta** (anche ai cittadini)
  - ✓ **Trasparente, efficace ed efficiente**
  - ✓ Basata su maggiore **collaborazione** (ed **interdisciplinarietà**)
- Un *driver* per l'**innovazione**, crescita e lavoro
- Evolve insieme all' evolversi di media e networks
- Pro: diffusione piu'ampia dei contenuti della ricerca - inclusi i dati ai fini di **riproducibilità e trasparenza** – con impatto sulla **Società**, ed inclusione del cittadino

# EU leadership – la RoadMap per Open Science (DG Research and Innovation)





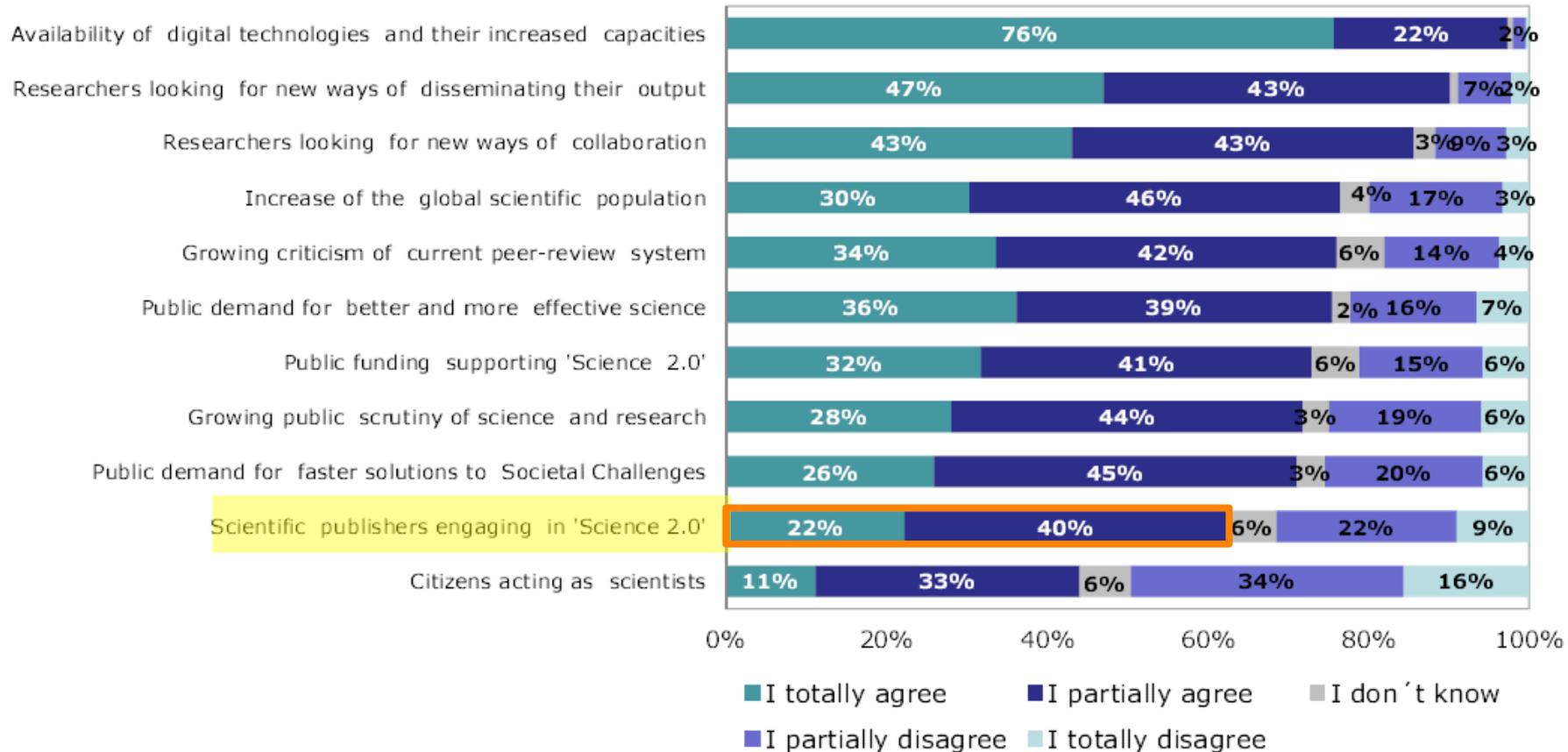
## Science-Café dedicato a:

- **Open Science**, e nello specifico

- L'impatto delle **nuove tecnologie** e dell' **Open Data** (data sharing) sulla ricerca
- **Science & Society** – la Scienza incontra i cittadini, ed i cittadini collaborano all' Open Data/Research Data Management

# Commissione Europea – consultazione pubblica su Scienza 2.0

## What are the key drivers of 'Science 2.0'?

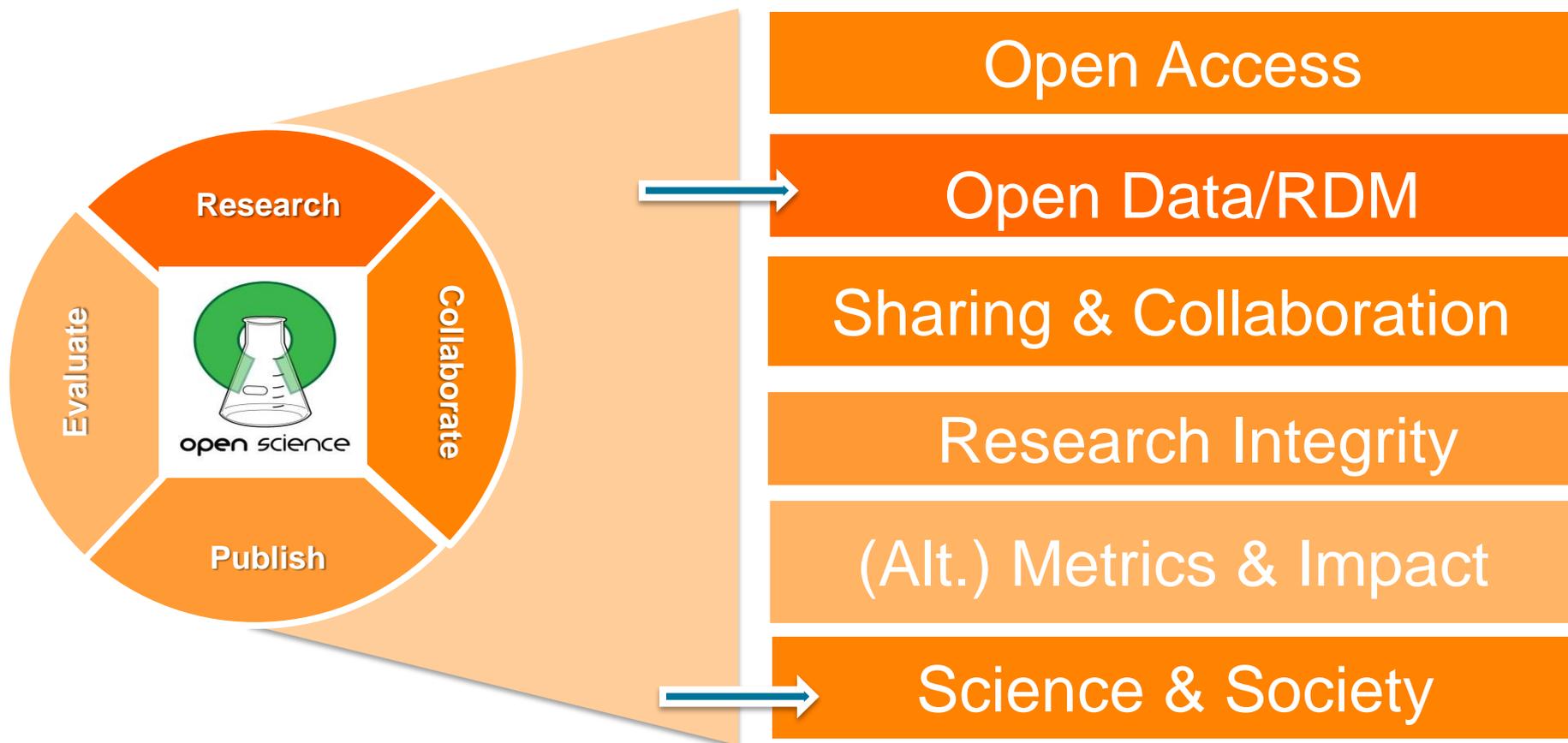


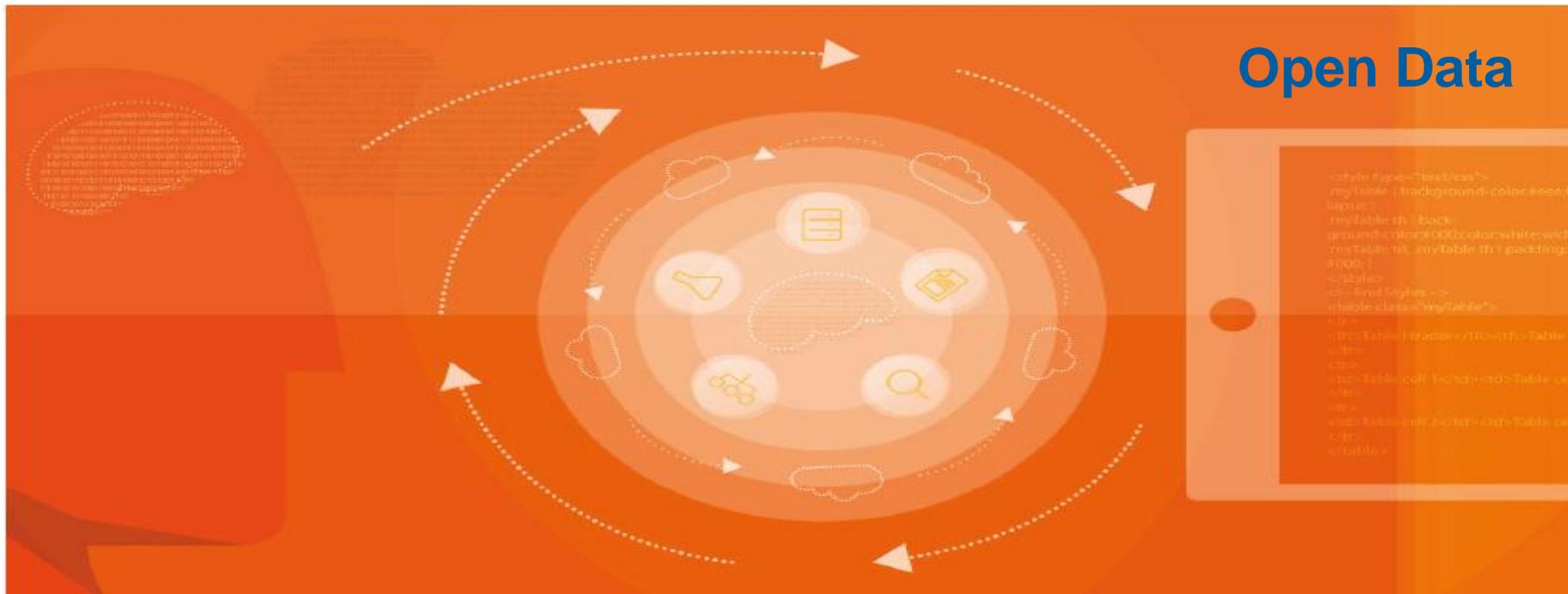
Sample size: 498  
 Missing: 8 to 12



<http://ec.europa.eu/digital-agenda/en/news/final-report-science-20-public-consultation>

# Open Science – Elementi chiave e le risposte di un Editore





## Open:

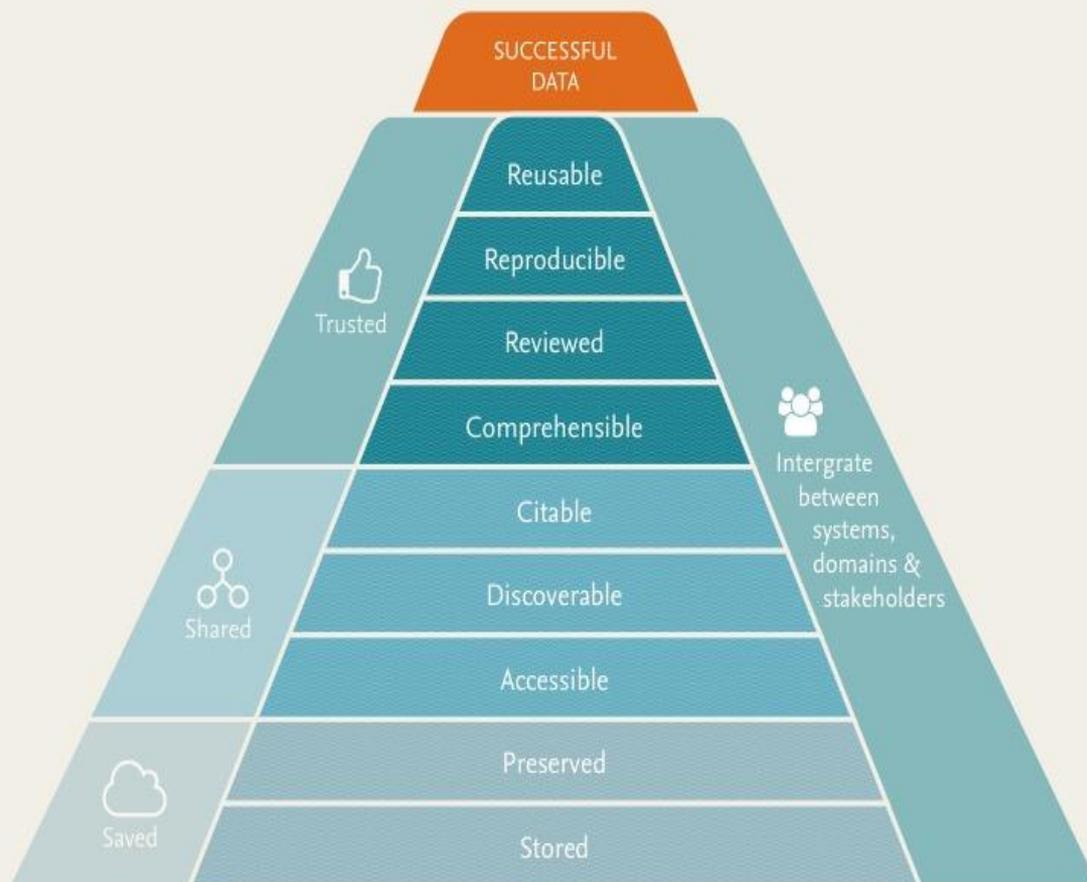
- Uso
- Riutilizzo
- Ridistribuzione
- Lavori derivati da quello originale

## A seconda della licenza scelta, potrebbe comportare

- Attribuzione
- Condivisione con la stessa licenza del lavoro originale
- Uso solo per fini non commerciali

# Per una gestione efficace dei dati della ricerca

## A Maslow Hierarchy for Research Data



## FAIR Principles for Data:

- Findable
- Accessible
- Interoperable
- and Re-usable

# Publicazione degli Open Data

In this case, reader has guest access only

The screenshot shows the ScienceDirect interface for the article "Habitat disturbance effects on the physiological stress response in resident Kenyan white-bearded wildebeest (*Connochaetes taurinus*)". The article is from Volume 182, February 2015, Pages 177–186. The authors are J.A. Stabach<sup>a</sup>, R.B. Boone<sup>a</sup>, J.S. Worden<sup>b</sup>, and G. Florant<sup>c</sup>. The page offers options to purchase the article for \$35.95 or rent it from DeepDyve. A callout box points to the "Check access" button, stating "In this case, reader has guest access only". Another callout box points to the "Supplementary data 4" section, stating "This supplementary data set is publicly available as Open Data (CC BY) on ScienceDirect". The "Open Data within this article" section indicates that the article contains open data for download under the CC BY license, with a link to the Creative Commons license and a download file (19 KB).

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Highlights  
Abstract  
Keywords  
1. Introduction  
2. Methods  
3. Results  
4. Discussion  
5. Conclusions  
Acknowledgements  
Appendix A. Supplementary material  
References

Figures and tables

Table 1  
Table 2  
Table 3

Biological Conservation  
Volume 182, February 2015, Pages 177–186

Habitat disturbance effects on the physiological stress response in resident Kenyan white-bearded wildebeest (*Connochaetes taurinus*)  
J.A. Stabach<sup>a</sup>, R.B. Boone<sup>a</sup>, J.S. Worden<sup>b</sup>, G. Florant<sup>c</sup>

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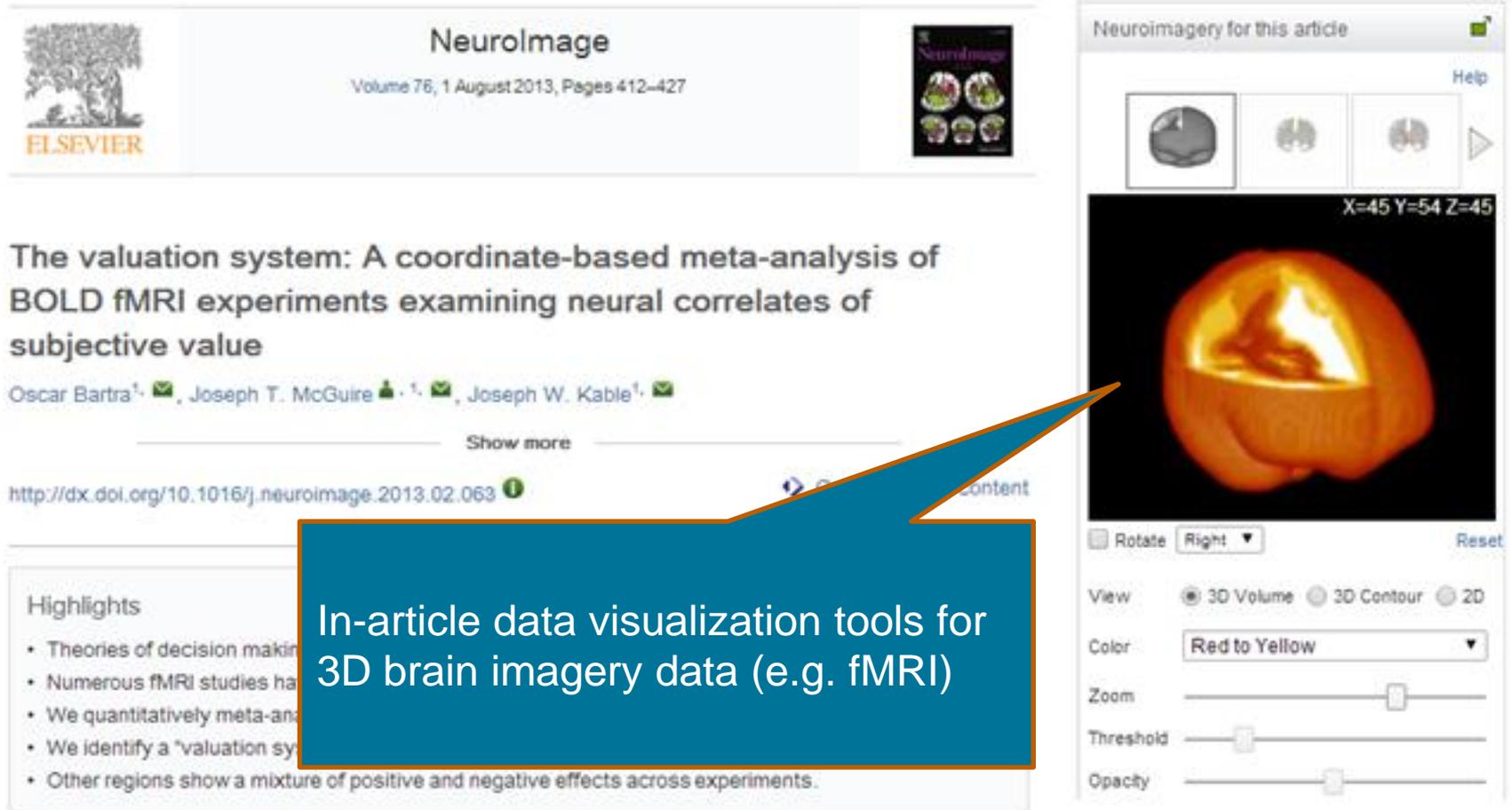
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# Visualizzazione 3D dei dati in connessione con l'articolo



The screenshot shows the NeuroImage journal interface. The article title is "The valuation system: A coordinate-based meta-analysis of BOLD fMRI experiments examining neural correlates of subjective value" by Oscar Bartra, Joseph T. McGuire, and Joseph W. Kable. A 3D brain visualization tool is overlaid on the right side of the page, displaying a brain slice with a red-to-yellow color scale. The tool includes controls for rotation, view (3D Volume, 3D Contour, 2D), color, zoom, threshold, and opacity. A blue callout box points to the 3D visualization tool.

NeuroImage  
Volume 76, 1 August 2013, Pages 412–427

The valuation system: A coordinate-based meta-analysis of BOLD fMRI experiments examining neural correlates of subjective value

Oscar Bartra<sup>1</sup>, Joseph T. McGuire<sup>1</sup>, Joseph W. Kable<sup>1</sup>

Show more

<http://dx.doi.org/10.1016/j.neuroimage.2013.02.063>

Neuroimaging for this article

Help

X=45 Y=54 Z=45

Rotate Right Reset

View  3D Volume  3D Contour  2D

Color Red to Yellow

Zoom

Threshold

Opacity

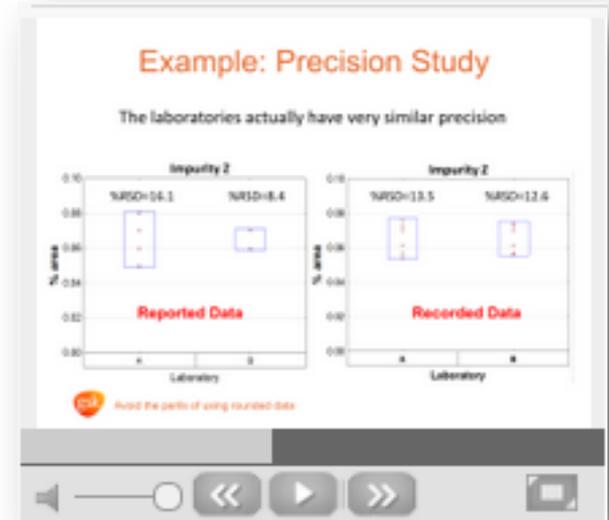
Highlights

- Theories of decision making
- Numerous fMRI studies have
- We quantitatively meta-analy
- We identify a "valuation sy
- Other regions show a mixture of positive and negative effects across experiments.

In-article data visualization tools for 3D brain imagery data (e.g. fMRI)

# AudioSlides

- Brevi presentazioni; **5 minuti**, con slides e audio
- **Formato accessibile ad un pubblico piu' ampio**, anche non specializzato
- **Accesso aperto ai contenuti**
- **Possono essere postati dall'autore su altri websites**, o YouTube etc.
- L'articolo riceve molta **piú visibilitá** (usage)



1) Median usage of articles with AudioSlides is up to 50 percent higher compared to similar articles, see [“How to use AudioSlides to boost your paper’s readership”](#) on ElsevierConnect

More info: <https://www.elsevier.com/audioslides>

Example article: <http://www.sciencedirect.com/science/article/pii/S0731708515300753>

## ATLAS, la scienza a portata di mano

<https://www.elsevier.com/atlas>

- Diffusione di articoli di grande impatto sulla società
- Scelti da una commissione di Organizzazioni Non Governative (NGOs)
- Commentati con linguaggio semplice e chiaro per consultazione da parte di un pubblico non specialistico
- Articolo originale premiato e accesso gratuito su ScienceDirect



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# ZIKA Virus resource centre

## On Elsevier Connect

<https://www.elsevier.com/connect/zika-virus-resource-center>

### Welcome to Elsevier's Zika Virus Resource Center

This page will provide continually updated resources from Elsevier's content and experts, including *The Lancet* and world-renowned infectious disease expert Dr. Raphael Dolin. We developed it to give anyone interested in Zika virus – medical professionals, health researchers, policy makers, the media and members of the public – one place where they can access the depth and breadth of information.

Elsevier's resources span scientific and medical journals and textbooks, educational products and a variety of other content. We have also asked our clinicians to provide original commentary. Our goal is to provide these resources for free as the Zika crisis continues. If you have any question or suggestions, we welcome you to leave them in the comment section.

- [Online resources](#)
- [Insight from experts](#)
- [Insight into research](#)

Where healthcare professionals can read the latest updates, research, reviews, editorials, correspondence and commentary on the outbreak



The Zika virus is transmitted by the Aedes species mosquito (A. aegypti and A. albopictus), which also spreads dengue and chikungunya viruses. (Source: Centers for Disease Control)



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### Zika virus resource centre

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Latest Updates: [WHO reveals its shopping list for weapons against Zika](#)



The Lancet Zika virus resource centre brings together the best evidence from across *The Lancet* family of journals—offered with free access—to assist researchers, policy makers, and health workers, in understanding the effects of the outbreak and how best to respond. Find out more about Zika virus in this Special Report.

The arguments for sharing data, and the consequences of not doing so, have been thrown into stark relief by the Ebola and Zika outbreaks. In the context of a public health emergency of international concern, there is an imperative on all parties to make any information available that might have value in combating the crisis.

[Read the statement in full](#)

**WORLD REPORT**  
[WHO reveals its shopping list for weapons against Zika \(PDF only\)](#)  
*The Lancet*

**CORRESPONDENCE**  
[Zika virus outbreak: reproductive health and rights in Latin America](#)

<http://www.thelancet.com/campaigns/zika>

**Thank You!**



**Quality information**

**Quality research**

**Quality of life**