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# NPG expands Linked Data Platform to over a quarter billion triples

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Contact: Patrick Carpenter
Corporate Communications, Nature Publishing Group
T:+44 (0)20 7843 4850
**p.carpenter@nature.com**

As part of its wider commitment to open science, Nature Publishing Group's (NPG) Linked Data Platform now hosts more than 270 million Resource Description Framework (RDF) statements. It has been expanded more than ten times, in a growing number of datasets. These datasets have been created under the Creative Commons Zero (CC0) waiver, which permits maximal use/reuse of this data. The data is now being updated in real-time and new triples are being dynamically added to the datasets as articles are published on nature.com.

Available at **http://data.nature.com**, the platform now contains bibliographic metadata for all NPG titles, including *Scientific American* back to 1845, and NPG's academic journals published on behalf of our society partners. NPG's Linked Data Platform now includes citation metadata for all published article references. The NPG subject ontology is also significantly expanded.

The new release expands the platform to include additional RDF statements of bibliographic, citation, data citation and ontology metadata, which are organised into 12 datasets - an increase from the 8 datasets previously available. Full snapshots of this data release are now available for download, either by individual dataset or as a complete package, for registered users at **http://developers.nature.com**.

"We are delighted to be expanding upon and enhancing our linked data services," said Jason Wilde, Business Development Director, NPG. "Our Linked Data Platform was warmly welcomed when we launched in April, and by introducing further metadata we hope to continue enriching the semantic web. We invite feedback from the community to help us improve our metadata descriptions and to keep our growing platform focused on best practices for linking data."

The platform was built in collaboration with information and publishing solutions specialist TSO (The Stationery Office). "NPG's selection of TSO to deliver its linked data demonstrates we are at the forefront of Linked Data solutions," said Peter Camilleri, TSO's Business Development Director. "We are pleased to work with one of the world's most innovative science publishers in this area, and are glad our expertise in the field of RDF extraction and triple stores is proving beneficial to the science community. The robust OpenUp® linked data platform has proven perfect for NPG's needs."

NPG's platform allows for easy querying, exploration and extraction of data and relationships about articles, contributors, citations, publications, and subjects. Users can run web-standard SPARQL Protocol and RDF Query Language (SPARQL) queries to obtain and manipulate data stored as RDF. The platform uses standard vocabularies such as Dublin Core, FOAF, PRISM, BIBO and OWL, and the data is integrated with existing public datasets including CrossRef and PubMed. The platform originally **launched** in April 2012.

More information about NPG's Linked Data Platform is available at **http://developers.nature.com/docs**. The datasets are all registered on the Data Hub at **http://thedatahub.org/group/npg**. Sample queries can be found at **http://data.nature.com/query**.

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### About Nature Publishing Group (NPG)

Nature Publishing Group (NPG) is a publisher of high impact scientific and medical information in print and online. NPG publishes journals, online databases and services across the life, physical, chemical and applied sciences and clinical medicine.

Focusing on the needs of scientists, *Nature* (founded in 1869) is the leading weekly, international scientific journal. In addition, for this audience, NPG publishes a range of *Nature* research journals and *Nature Reviews* journals, plus a range of prestigious academic journals including society-owned publications. Online, nature.com provides over 6 million visitors per month with access to NPG publications and online databases and services, including news and comment from *Nature*, *NatureJobs* plus access to *Nature Network* and Nature Education's Scitable.com.

*Scientific American* is at the heart of NPG's consumer media division, meeting the needs of the general public. Founded in 1845, *Scientific American* is the oldest continuously published magazine in the US and the leading authoritative publication for science in the general media. Together with scientificamerican.com and 14 local language editions around the world it reaches over 5 million consumers and scientists. Other titles include *Scientific American Mind* and *Spektrum der Wissenschaft* in Germany.

Throughout all its businesses NPG is dedicated to serving the scientific and medical communities and the wider scientifically interested general public. Part of Macmillan Publishers Limited, NPG is a global company with principal offices in London, New York and Tokyo, and offices in cities worldwide including Boston, San Francisco, Washington DC, Buenos Aires, Mexico City, Sao Paulo, Cairo, Dubai, Delhi, Mumbai, Hong Kong, Shanghai, Melbourne, Osaka, Seoul, Barcelona, Madrid, Basingstoke, Heidelberg, Munich and Paris. For more information, please go to **www.nature.com**.

**About TSO/Williams Lea**

TSO is one of the leading providers of information management and publishing solutions. Its experts help to create, structure, capture, transform and deliver information. TSO provides services, consultancy and infrastructure to deliver all aspects of the information lifecycle to the highest standards for our clients. TSO was acquired in 2007 by Williams Lea, the leading global provider of Corporate Information Solutions. For more information, visit **www.tso.co.uk** or contact **peter.camilleri@tso.co.uk**.

Williams Lea is the leading global provider of Corporate Information Solutions. As a BPO organisation, we combine consultancy, unique expertise and the latest integrated technology to develop solutions that transform the way organisations communicate and exchange their printed and electronic information. Williams Lea employs more than 9,000 staff across Europe, the US and Asia Pacific with key centres in London, Dublin, Paris, Frankfurt, Bonn, New York, Chicago, Los Angeles, Tokyo, Sydney, Hong Kong, Beijing and Chennai. We work with many world leading organisations in sectors such as financial services, investment banking, legal and professional services, retail, telecoms, automotive, energy, utilities and pharmaceuticals. Since 2006, Deutsche Post DHL, the world's leading logistics group, has held a majority stake in the company. With the long-term backing of Deutsche Post DHL, Williams Lea will continue to invest in and evolve its Corporate Information Solutions proposition that represents the future of the BPO space.

For more information, visit **www.williamslea.com**

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