

Digitisation, Open Data & Digital Partnerships

An overview for the Parliamentary and Scientific Committee

16 July 2018



Collections

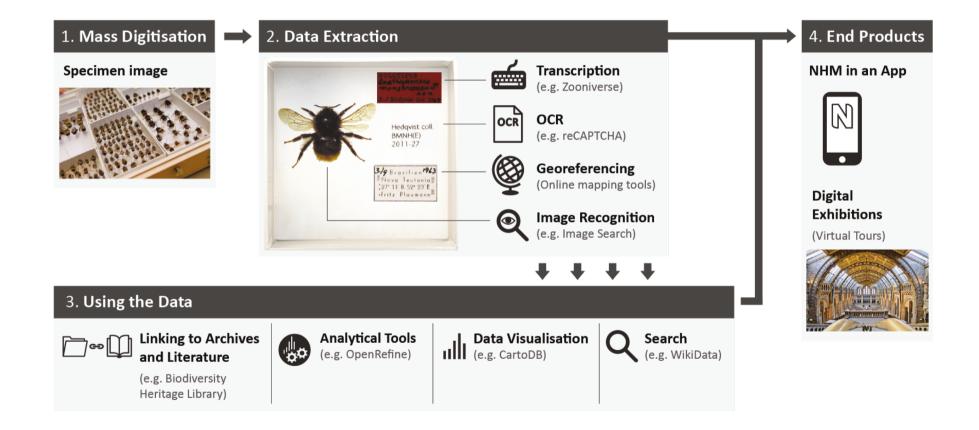


Data from http://grbio.org/

- Circa 80m specimens
- Globally c.1.5-3B
- Diverse & unique
- Digital Collections Programme (2014-2024)
- 5% with a digital record (from 2.5%)
- Part of several global initiatives



Challenges





Industry

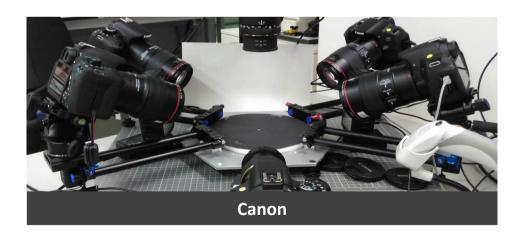


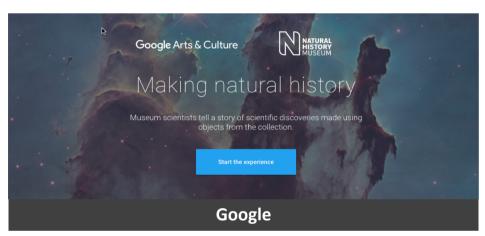
Cisco Pit Stop: Digitising the Natural History Museum's collections

The Digital Catapult wants to hear from any small or medium sized businesses interested in developing innovative approaches to digitising scientific collections for our Pit Stop with Cisco and the Natural History Museum London happening in February.



Cisco / Digital Catapult

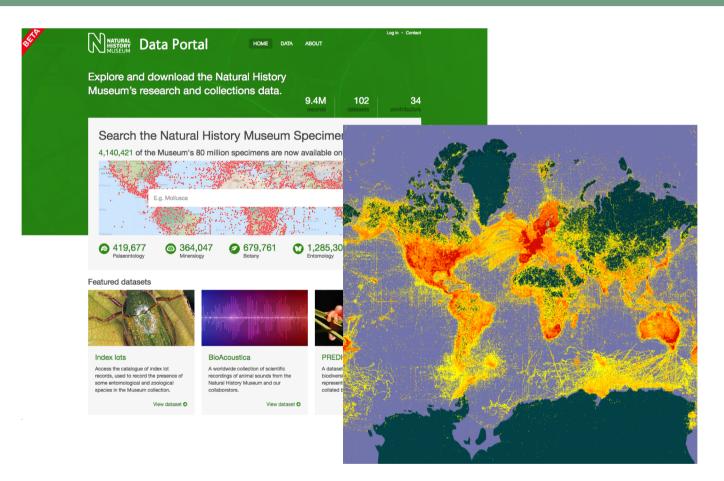








Data Portal



- NHM research & collections data
- Access, reuse & citation
- 9.4m records, 102 datasets since 2015
- Images, sound, video & 3D
- Default open licensing
- 13.42B records downloaded in 162k events, 95 papers



Impact





Science



Original article

International Journal of Epidemiology, 2017, 1-10 doi: 10.1093/ije/dyw366 Original article

Report



Contributed Paper

Journal of Ecology

FCOI OGICA

Research Article

Climate change increases ecogeographic isolation between

closely related plants

Karl J. Duffy ⋈, Hans Jacquemyn

Journal of Ecology

ECOLOGICA

First published: 22 June 2018 | https:// RESEARCH ARTICLE

> Effect of pollination strategy, phylogeny and distribution on pollination niches of Euro-Mediterranean orchids

Nina Joffard M, François Massol, Matthias Grenié, Claudine Montgelard, Bertrand Schatz

First published: 29 May 2018 | https://doi.or

Journal of Ecology

Current Biology

Bioquality Hotspots in the Tropical African Flora

potentially exposed to Zika virus

Graphical Abstract

Authors

Spatial quantification of the world population

Alberto J. Alaniz, 1,2* Antonella Bacigalupo³ and Pedro E. Cattan³

Cicely A.M. Marshall, Jan J. Wieringa, William D. Hawthorne

Correspondence

cicely.marshall@plants.ox.ac.uk

In Brief

Marshall et al. introduce a new conservation framework for tropical Africa. The authors use "big data" to integrate species-level conservation assessments into reliable minimum local estimates of global irreplaceability across the region, providing a framework for conservationists and researchers applicable at the local scale.

Effectiveness of protected areas for vertebrates based on taxonomic and phylogenetic diversity

Qing Quan , Xianli Che, Yongjie Wu, Yuchun Wu, Qiang Zhang, Min Zhang, and Fasheng Zou1*

¹Guangdong Key Laboratory of Animal Conservation and Resource Utilization, Guangdong Public Laboratory of Wild Animal Conservision and the Committee of the Committee of April and Committee of Committee of Committee of Committee of Committee of April and Committee of Commi

Standard Paper Urban warming favours C₄ plants in temperate European cities Grant A. Duffy , Steven L. Chown First published: 11 August 2016 | https://doi.org/10.1111/1365-2745.12652 | Cited by: 1

ECOSPHERE

Forecasting an invasive species' distribution with global distribution data, local data, and physiological information

Read the full text >

CATHERINE S. JARNEVICH 10, 1, † NICHOLAS E. YOUNG 10, 2 MARIAN TALBERT, AND COLIN TALBERT

¹U.S. Geological Survey Fort Collins Science Center, 2150 Centre Ave Bldg C, Fort Collins, Colorado 80526 USA Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, Colorado 80523-1499 USA ³Department of Interior, North Central Climate Science Center, Colorado State University, Fort Collins, Colorado 80523 USA

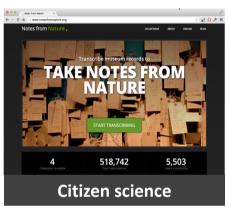
Circa 25% UK users

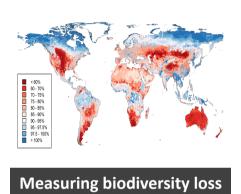
TOOLS < SHARE

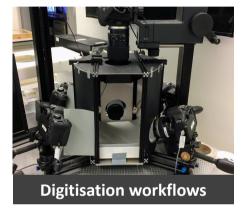


Opportunities





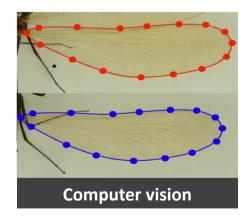














Outreach







