

# Cambridge's journey towards Open Access

**Dr Arthur Smith** 

Policies Response Systems Impact Future

# Policies

# The Open Access policy landscape in the UK is complex







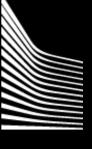












# **HEFCE Open Access Policy**

HEFCE runs the Research Excellence Framework (REF) which determines the block grant funding to universities.

#### **Green Open Access policy**

12 month embargo in STEM fields

24 month embargo in AHSS fields

Accepted manuscripts must be deposited in a repository within 3 months of being accepted for publication.



# **HEFCE Open Access Policy**

We can't know which papers will be used in the REF so we have to make them **all** Open Access.

Our goal: 10,000 manuscripts/year



# Research Councils UK Open Access Policy

#### **Green Open Access policy**

6 month embargo in STEM fields

12 month embargo in AHSS fields

#### **Gold Open Access policy**

When an APC is paid the paper *must* be made available immediately under a CC BY licence.



# **EPSRC Research Data Policy**

All articles should have a statement describing how to access underlying research data.

Data should be stored for at **least 10 years** or for **10 years from the last request** for access to the data.



# Charities Open Access Fund

## **Gold Open Access policy**

Preferred option, but paper *must* be made available immediately under a CC BY licence and deposited in PMC.

#### **Green Open Access policy**

6 month embargo in Europe PMC

Sanctions for non-compliance.





#### Submission received Dataset, proceeding, Other? software? book or book chapter? Research Data Open Access Repository Team Mark as duplicate and inform submitter HEFCE in Mark as out of scope No → Published OA? No Ask for AAM Has the paper date present? you get the That's just three policies!

# How does this all work?

# What is the University's position?

"The University of Cambridge is committed to disseminating its research and scholarship as widely as possible... All journal articles and conference proceedings should be submitted to the University's Open Access Service based in the Office of Scholarly Communication."

"The payment of additional funds to publishers on top of subscriptions (known as 'hybrid' publishing) is considered to be an ineffective transition mechanism towards a wider OA system."



# Response

# Staffing December 2014



## Office of Scholarly Communication formed January 2015

"The Office of Scholarly Communication works in a transparent and rigorous manner to provide recognised leadership and innovation in the open conduct and dissemination of research at Cambridge University through collaborative engagement with the research community and relevant stakeholders."

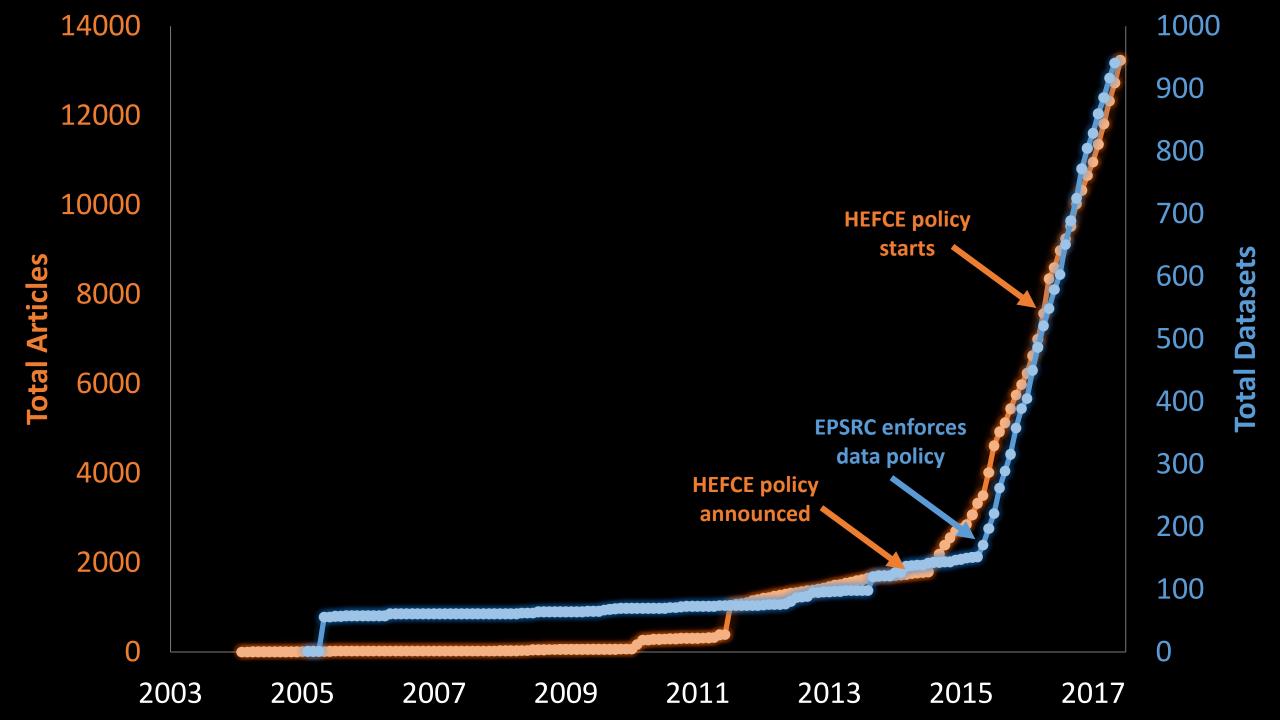


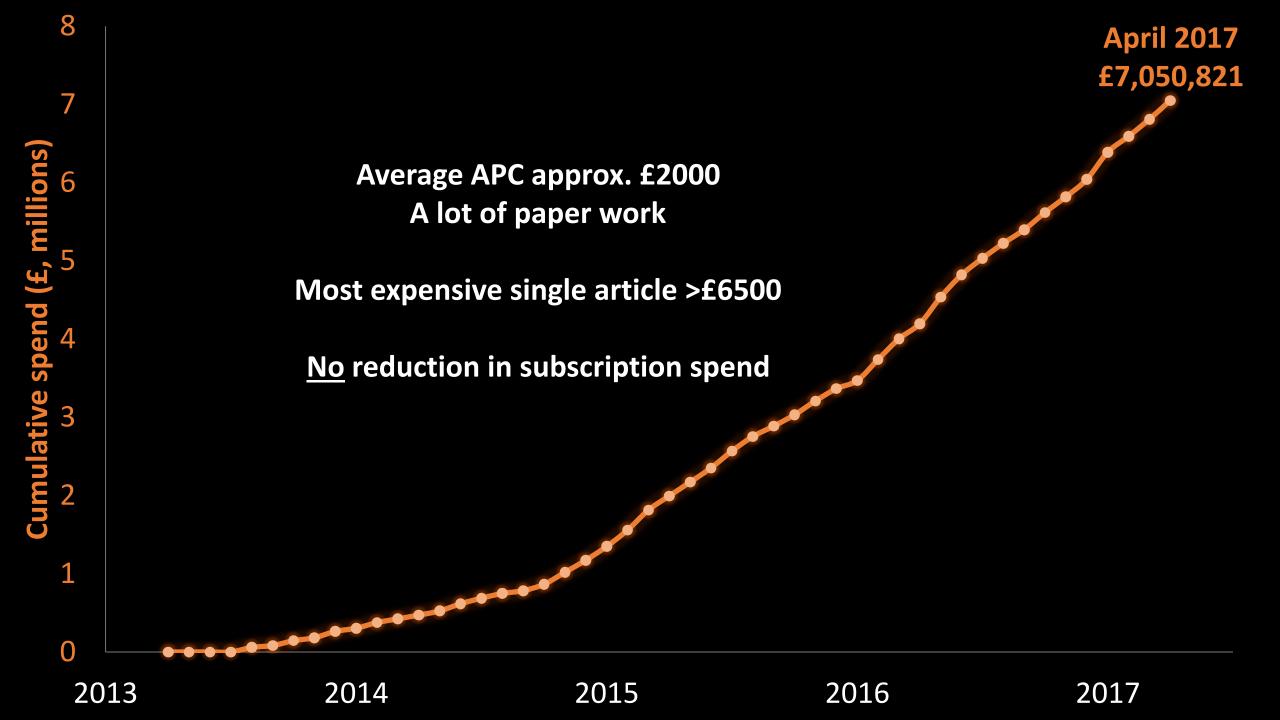
# Accepted for publication?

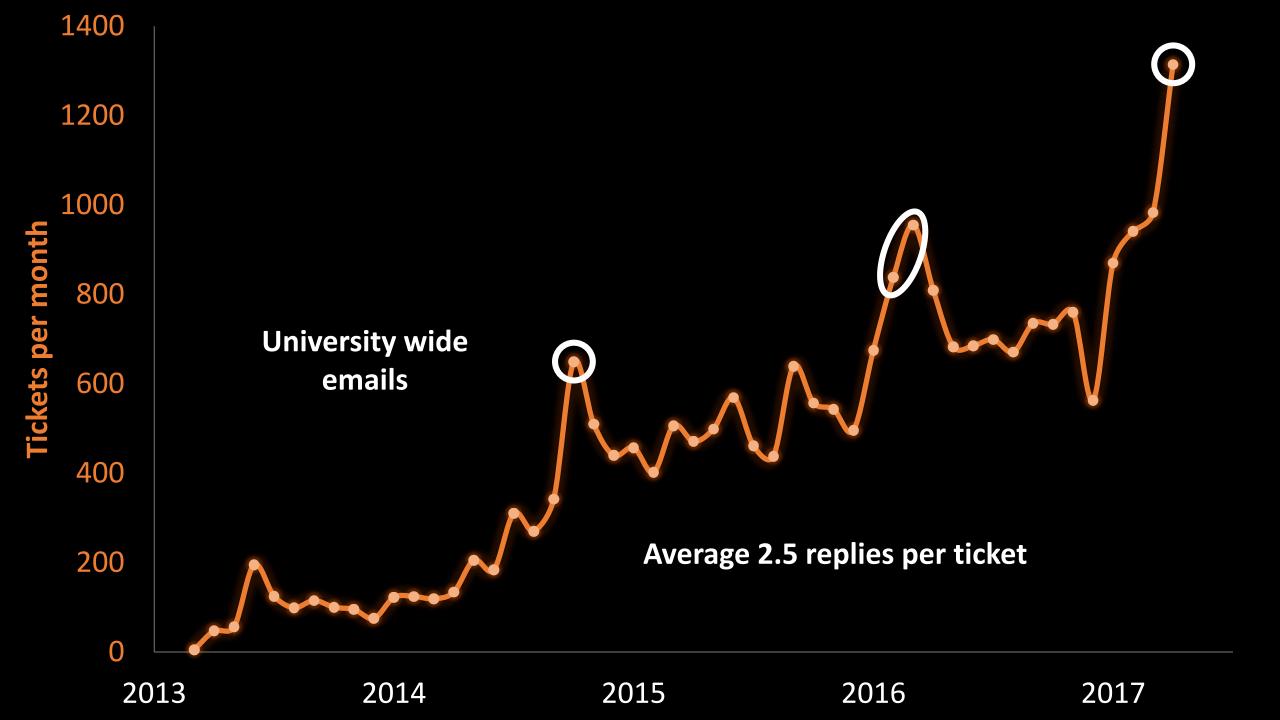
From 1 April 2016 you must upload all manuscripts to be eligible for the REF.



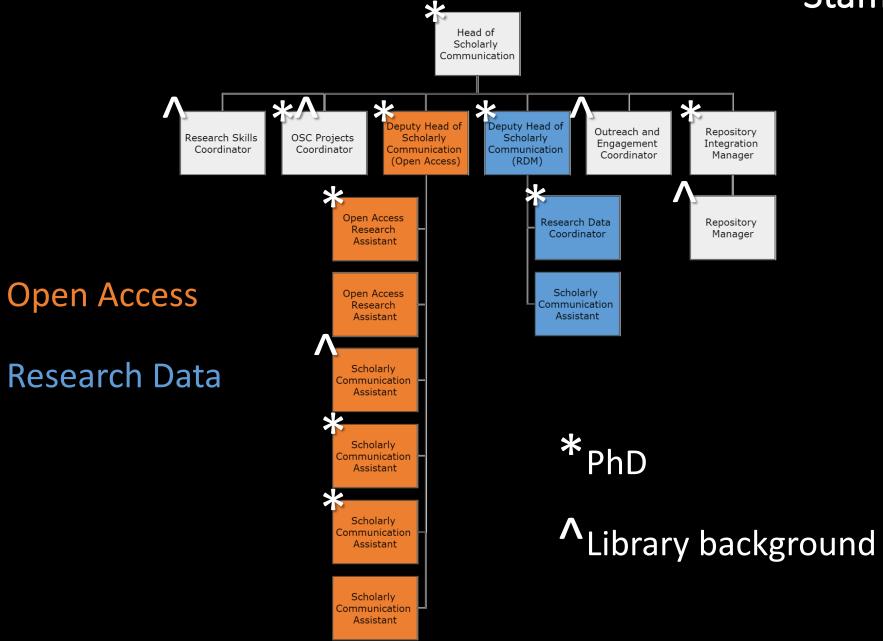
www.openaccess.cam.ac.uk







# Staffing Today



# Systems

Home

The way you make your work Open Access will be changing in the next few months. You can read more about this from the OSC. If you are in the Symplectic Elements Deposit Pilot please submit your manuscripts here.

# Accepted for publication? Make sure your work can meet REF and other funders' Open Access requirements

Upload manuscript

#### What do I need to do?



When your article or conference proceeding is accepted by a journal, or when the journal asks you to sign a copyright agreement or choose an open access option, if that comes first, upload it. Every Cambridge author who is submitting their work in the next REF is affected.

We'll check your funder and journal policies and advise on how to comply with REF and funder requirements.

Find out more

#### Open Access policies



The HEFCE open access policy requires research articles and conference proceedings to be available through an institutional repository to be eligible for the next REF.

We will continue to advise on other funders' policies and to pay eligible Open Access costs for papers funded by RCUK and the Wellcome Trust.

Find out more





The way you make your work Open Access will be changing in the next few months. You can read more about this from the OSC. If you are in the Symplectic Elements Deposit Pilot please submit your manuscripts here.



Yes

No

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#### We need some more details

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DD/MM/YYYY    I don't know the acceptance date
Was this research funded by any external funders? *

From here we do a lot of cutting and pasting...









Repository Home

#### DSpace@Cambridge

DSpace@Cambridge is the University of Cambridge's institutional repository, preserving and providing access to content created by members of the University. It is delivered and managed by the University Library.

Open access research publications published by members of the University are being added to DSpace@Cambridge in line with research funder requirements. If you are publishing articles or conference proceedings with open access requirements from your funders, please see the Open Access pages.

New look and location. On 25 July we upgraded the DSpace@Cambridge software resulting in changes to the repository's look, workflows and web address (the old addresses will continue to work). If you experience any problems please contact us.

#### Communities in the Repository

Select a community to browse its collections.

- · Animal Health Trust (University Partner Institution)
- Arcadia Programme
- Babraham Institute
- British Antarctic Survey
- <u>Cambridge eScience Centre (CeSC)</u>
- · Cambridge Institute for Medical Research
- Cambridge Neuroscience
- · Cambridge University Student Societies • CamRAD
- Cancer Research UK Cambridge Institute

- Centre for Family Research
- Centre for Research in the Arts, Social Sciences and Humanities
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- Department of Chemical Engineering and Biotechnology
- Department of Chemistry
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- Department of History and Philosophy of Science · Department of History of Art
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- Department of Land Economy
- Department of Linguistics
- Department of Materials Science and Metallurgy
- · Department of Medical Genetics · Department of Medicine
- Department of Obstetrics and Gynaecology
- Department of Oncology
- Department of Paediatrics
- Department of Pathology
- Department of Pharmacology
- Department of Physics The Cavendish Laboratory
- · Department of Physiology, Development and Neuroscience
- Department of Plant Sciences
- Department of Psychiatry
- Department of Psychology
- Department of Public Health and Primary Care
- Department of Pure Mathematics and Mathematical Statistics (DPMMS)
- Department of Radiology
- Department of Slavonic Studies
- Department of Social Anthropology
- · Department of Spanish and Portuguese
- Department of Surgery
   Department of Veterinary Medicine
- Department of Zoology
- DSpace
- European Bioinformatics Institute (EMBL-EBI)
   Faculty of Asian and Middle Eastern Studies
- Faculty of Classics • Faculty of Computer Science and Technology
- Faculty of Divinity · Faculty of Economics
- · Faculty of Education
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Kailash (136)

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Video (919) Thesis (762)

Working Paper (698) Presentation (129)

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#### RSS Feeds





#### **OA publications**

In-house submission form

#### Zendesk helpdesk

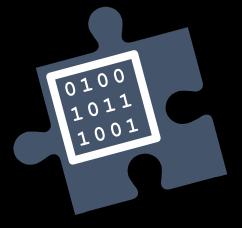
Respond to article and data submissions



Add / claim publications and link to research grants



# The problem...



#### **Research datasets**

External submission form



#### Theses

Ad hoc collection usually via email

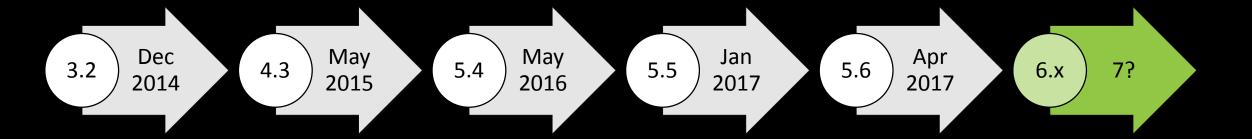


#### DSpace@Cambridge

Manual deposit of articles, data and theses into the repository



# DSPACE





# The integrated solution

#### **Repository Tools 1**

Automatic deposit of data (<2 GB/file) and articles in Apollo via Elements

#### **Automatic DOI minting**

0100

1011

1001

Submitters receive immediate email confirmation of their dataset DOI



#### **Enhanced reporting**

Open Access Monitor: compliance data available from a single source

#### **Enhanced visibility of outputs**

Automatic updates from publishers



ORCID integration

#### **Java Zendesk API**

Tickets are created in the workflow step

Apollo Home



Search Apollo

Browse

#### Apollo - University of Cambridge Repository

#### All of Apollo

- > Communities & Collections
- > Authors
- > Titles
- > Subjects
- > Type

#### Statistics

> View Usage Statistics

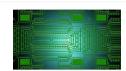
This repository holds the research output of members of the University of Cambridge. It is delivered and managed by the University Library's Office of Scholarly Communication team.



School of Arts and Humanities



School of Clinical Medicine



School of Technology



School of the Biological Sciences



School of the Humanities and Social Sciences



School of the Physical Sciences



Colleges



Other Communities



#### Recently Added



#### Clinical diagnosis of progressive supranuclear palsy: The movement disorder society criteria

Höglinger, GU; Respondek, G; Stamelou, M; Kurz, C; Josephs, KA; Lang, AE; Mollenhauer, B et al. (Wiley, 2017-01-01)

**BACKGROUND:** PSP is a neuropathologically defined disease entity. Clinical diagnostic criteria, published in 1996 by the National Institute of Neurological Disorders and Stroke/Society for PSP, have excellent ...



#### Identification of Post-Transcriptional Modulators of Breast Cancer Transcription Factor Activity Using MINDy

Campbell, TM; Castro, MAA; Ponder, BAJ; Meyer, KB (Public Library of Science (PLoS), 2016-12-20)
We have recently identified transcription factors (TFs) that are key drivers of breast cancer risk. To better
understand the pathways or sub-networks in which these TFs mediate their function we sought to
identify upstream ...

Prospects for Electrification of Road Freight



🛕 Apollo Home / School of Clinical Medicine / Department of Public Health and Primary Care / Scholarly Works - Public Health and Primary Care / View Item



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#### Rare and low-frequency coding variants alter human adult height Browse All of Apollo Citation > Communities & Collections Stirrups, K., Butterworth, A., Chowdhury, R., Danesh, J., Di Angelantonio, E., Howson, J., > Authors Surendran, P., et al. (2017). Rare and low-frequency coding variants alter human adult height. Nature https://doi.org/10.1038/nature21039 > Titles **Abstract** > Subjects Height is a highly heritable, classic polygenic trait with ~700 common associated variants > Type identified so far through genome-wide association studies. Here, we report 83 new heightassociated coding variants with lower minor allele frequencies (range of 0.1-4.8%) and This Collection View / Open Files effects of up to 2 cm/allele (e.g. in IHH, STC2, AR and CRISPLD2), >10 times the average effect of common variants. In functional follow-up studies, rare height-increasing variants of Accepted version (PDF, 620Kb) > Authors STC2 (+1-2 cm/allele) compromised proteolytic inhibition of PAPP-A and increased cleavage of IGFBP-4 in vitro, resulting in higher bioavailability of insulin-like growth factors. These 83 > Titles height-associated variants overlap genes mutated in monogenic growth disorders and Authors highlight new biological candidates (e.g. ADAMTS3, IL11RA, NOX4) and pathways (e.g. fin Stirrups, KE proteoglycan/glycosaminoglycan synthesis) involved in growth. Our results demonstrate that Butterworth, AS > Type sufficiently large sample sizes can uncover rare and low-frequency variants of moderate to Chowdhury, R large effect associated with polygenic human phenotypes, and that these variants implicate relevant genes and pathways. Statistics Di Angelantonio, E Howson, JMM Sponsorship Surendran, P View Usage Statistics Young, R Cancer Research UK, Wellcome Trust A full list of acknowledgments appears in the Dennis, JG Supplementary Note. Part of this work was conducted using the UK Biobank resource. Easton, DF Thompson, DJ **Embargo Lift Date** Dunning, AM Pirie, A 2017-08-01 Tyrer, JP Langenberg, C Identifiers Luan, J Scott, RA External DOI: Mareham, NJ https://doi.org/10.1038/nature21039 Willems, SM This record's URL: Zhao, JH https://www.repository.cam.ac.uk/handle/1810/262031 Sivapalaratnam, S Show less Picked up by 91 news outlets Blogged by 19 **Publication Date** Tweeted by 492 2017-02-01 On 17 Facebook pages See more details Referenced in 1 Wikipedia pages 177 readers on Mendeley Journal Title 7 readers on CiteULike Nature Rights Publisher Nature Publishing Group Licence: http://www.rioxx.net/licenses/all-rights-reserved Language English

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# Impact

# **Repository Stats**

## Since upgrading to 5.x Since 2015 we've added

1,000,000 bitstream downloads

3,000 item requests

1,100 ORCIDs added

10,000 articles

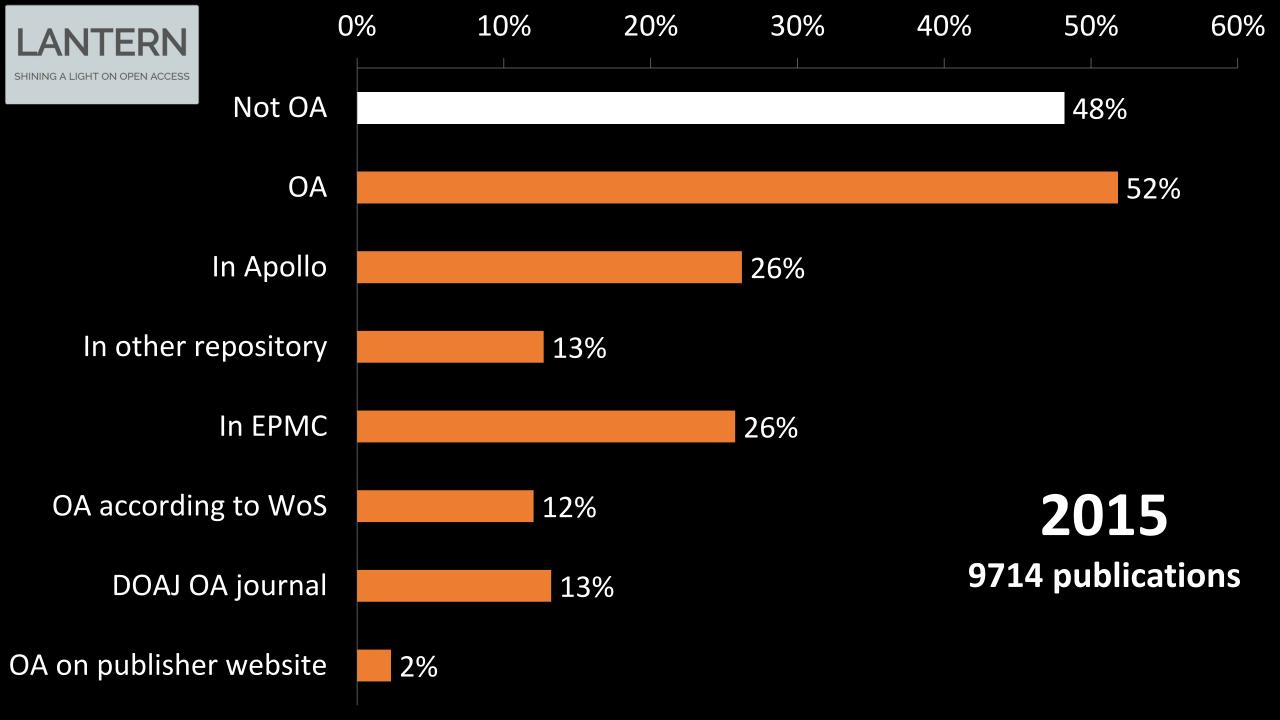
**1,700** images

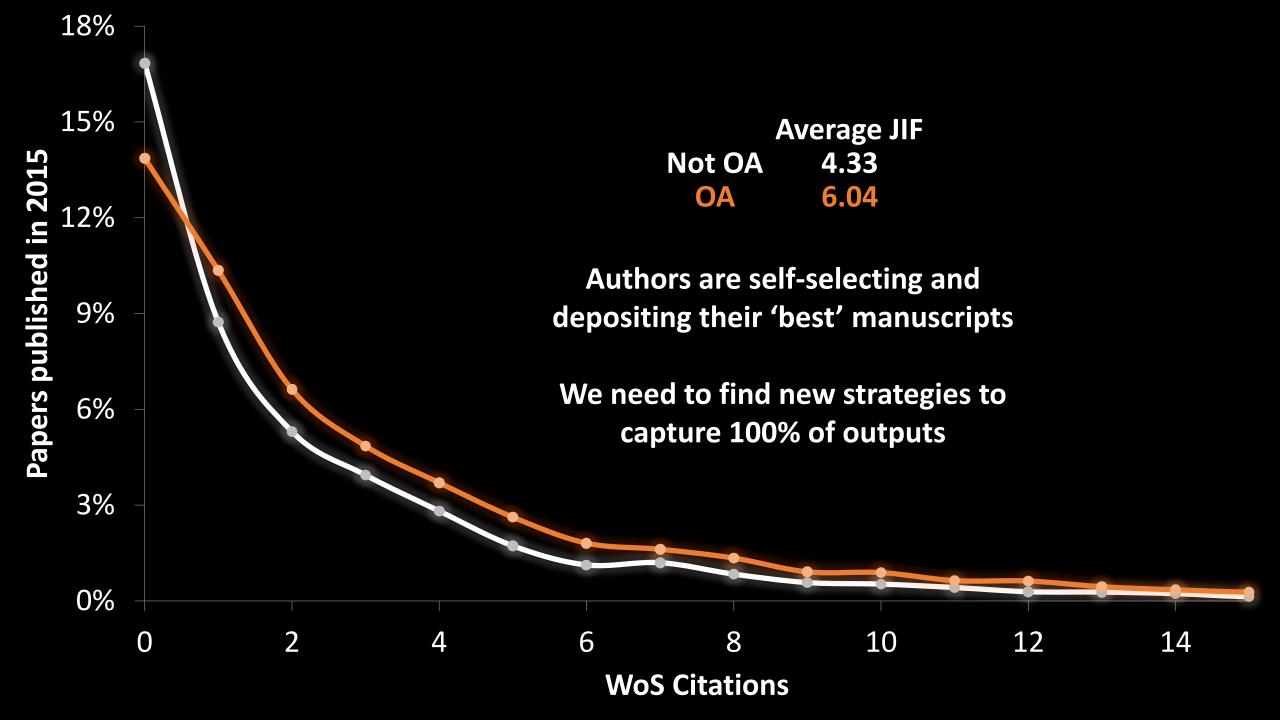
**1,600** theses

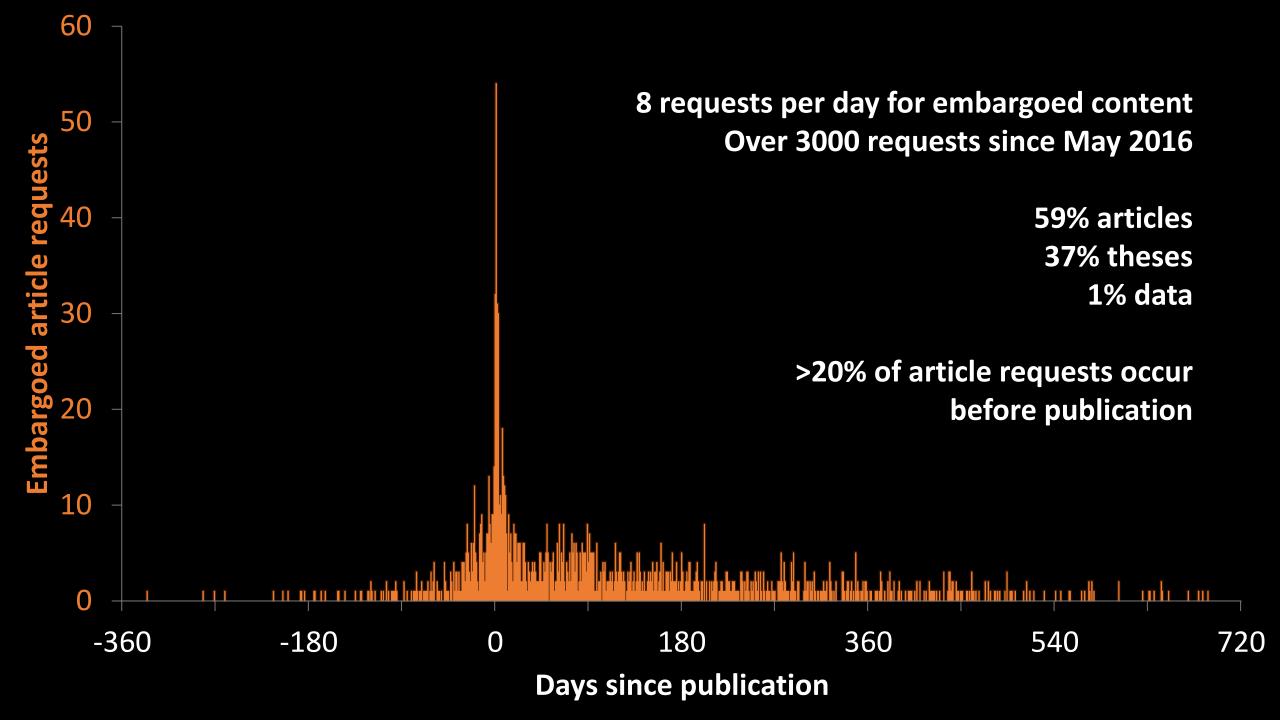
800 datasets

**500 working papers** 









# Future

### **Future**

## Symplectic Elements upgrade to Repository Tools 2

Apollo upgrade to DSpace 6 and/or 7



Brexit...

## Thoughts

Across the sector we've spent a lot on Gold Open Access >75% going towards hybrid journals

In 2015 the UK as a whole spent:

£22.6 million from RCUK

£6.6 million from COAF

Researchers are equating Open Access with Gold

What we really need is cultural change from researchers and policy changes from funders (stop paying for hybrid!)

# Acknowledgements

#### The Office of Scholarly Communication

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Dr Debbie Hansen

**Dr Matthias Ammon** 

Peter Sutton-Long

Maria Angelaki

Dr André Sartori

Mel Turner

Lucy Welch

Dr Marta Busse-Wicher

Dr Juergen Wastl

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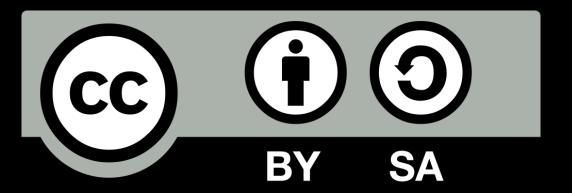
# Thank you

as2507@cam.ac.uk

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