

How to invest time efficiently to improve research data quality and enhance the university profile

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Background

- New RS (REF-related) role, 18 months ago
- Steep learning curve required for Kent's RS systems
- Scopus certificate (recently) / SciVal training
- Institution Profile Wizard Tool Administrator – last year
- Prepared / updated the REF-hierarchy structure in SciVal
- Consolidate university research footprint
- Accurate h-index for researchers
- Maximise the university profile in league tables / rankings
- Enhance the data integrity: Completeness, Accuracy

Challenges to be met

- Accurate reporting of Kent's research footprint
- Maximise Kent's profile in league tables / rankings
- Accurate attribution and metrics for researchers
- Easy to find, consolidated outputs
- Academics are time-poor and we can't make demands on their help with record-checking

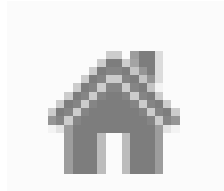
- Enhance the data integrity: Completeness, Accuracy
- Reliable information in the hands of academics and managers

Let's have some structure

Institutional profile



Research Units (UoAs / Faculties & Schools)



Author profiles



Publications (Outputs)



Consolidated authors profiles



1. Outputs linked with University profile
2. Outputs published at other universities
3. Outputs published under different names

How to create / maintain a structure in SciVal



- Define a new researcher / group of researchers OR
- Import researchers and groups =>
 - Transfer your structure and hierarchies from Pure to SciVal OR
 - Import your structure and hierarchies into SciVal from Excel =>
 - Export University's authors from Scopus / SciVal
 - 1. – Sort alphabetically
 - Match against HR lists
 - Import to SciVal
 - » Multiple valid Scopus Author IDs will result in a merge request to Scopus
 - Export the publications from University's repository
 - 2. – Import in SciVal the publications set using the DOIs
 - Export csv file with multiple authors IDs
 - Transfer data Text to Columns
 - » Identify the alternative author IDs
 - Use University's HR file
 - » Identify the alternative / previous / preferred names of the authors
 - » Identify new members of staff
 - 3. – Write a SQL to flag new publications, set up an alert, repeat step 2
 - AF-ID("University of Kent" 60010818) AND ORIG-LOAD-DATE AFT

How to consolidate University profile



- University of Kent is a multi-campus institution (5 to date)
- With 20 - 30 Schools / research centers
- Renamed 15 years ago (previously “at Canterbury”)
- Name variations with or w/o “The”, “University” abbreviated
 - University Of Kent / The University Of Kent
 - University Of Kent At Canterbury / Univ Of Kent At Canterbury
 - Univ Of Kent / Univ. Of Kent / Univ. Kent
- “View potential affiliation matches” in Scopus
- Export the publications of authors at the other campuses
 - » Check the institution name and ID
- Search for organizational structures on Scopus (i.e. CeCIL)
 - » Check the institution name and ID
- Write a SQL and set up an alert
 - AFFIL({University of Kent}) AND NOT (AF-ID("University of Kent" 60010818))

Entropy creeps in ...

- ~1,400 author profiles corrections
 - merged identities, correct affiliation, etc.
 - 260 in one file
 - 1 author with 12 Scopus identities
- org. hierarchy that reflects multi-campus structure
 - Kent > Medway / BSIS
 - 14 name variations only for “University of Kent at Medway”

105040576	Universities of Kent and Greenwich	62
109478104	Medway School of Pharmacy	50
100479814	Universities of Kent and Greenwich at Medway	25
109453874	Universities of Kent and Greenwich	18
107938986	Universities of Kent and Greenwich	17
100415854	Universities of Kent and Greenwich	15
100441543	Medway School of Pharmacy	11
113013422	Universities of Greenwich and Kent at Medway	6
112768355	Universities of Greenwich and Kent	5
119586255	Medway School of Pharmacy	4
106739151	Universities of Kent and Greenwich at Medway	4
112659052	Universities of Kent/Greenwich	2
114161130	University of Kent and Greenwich at Medway	1

How to analyse OA outputs

- 16,872 outputs deposited in KAR from 2013 onwards
- 9,523 SciVal-indexed Kent outputs (56%)
- 8,848 with a DOI (93%) => use a Unpaywall simple query tool
<https://unpaywall.org/products/simple-query-tool>
 - Could submit up to 10,000 DOIs
 - Data sent by e-mail within minutes
 - Merge results with the SciVal extraction for enhanced analyses
 - Filter by type of OA and re-import into SciVal as publication sets

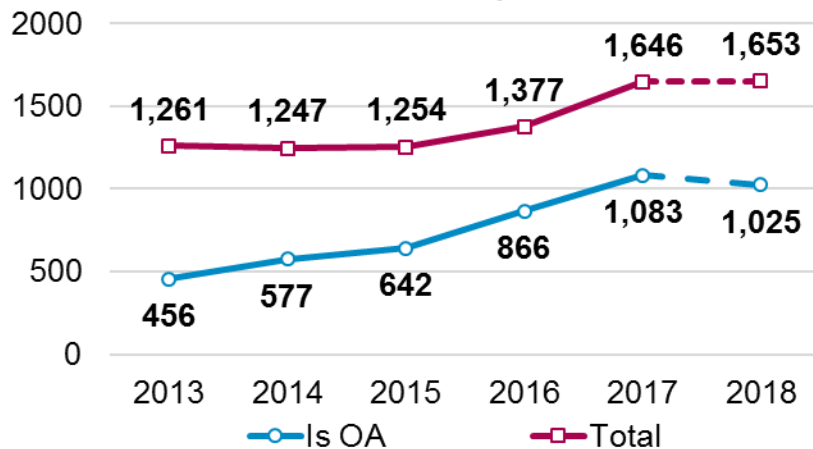
doi	best_oa_evidence	best_oa_f	best_oa_l	best_oa_t	best_oa_u	best_oa_v	data_stan	doi_url	genre	is_oa	journal_is	journal_is	journal_n	published_date	publisher
10.1016/j.	oa repository (via OA repository)	repository	http://arx	TRUE	submitted	2	https://dc	journal-ar	TRUE	FALSE	0010-4655	Computer	01/12/2016	Elsevier BV	
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- Please note that the following statistics are **not** a reflection of the OA REF compliance rules

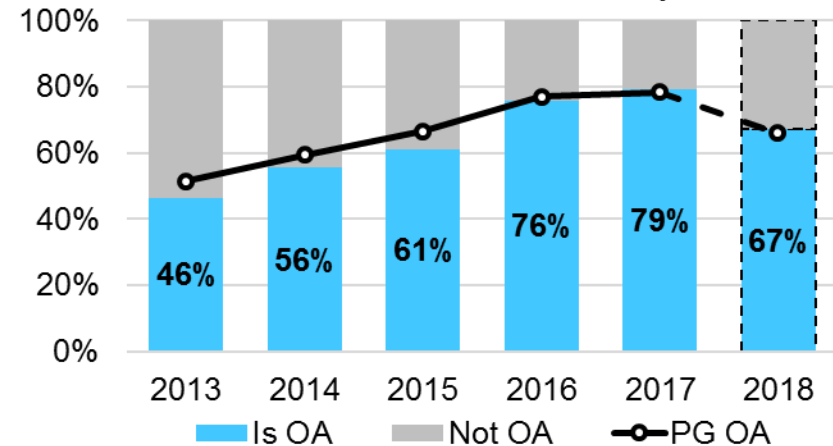
Key findings – output type, Kent v. Peer Group

- More indexed outputs, increased %OA; 2018 data not fully indexed!

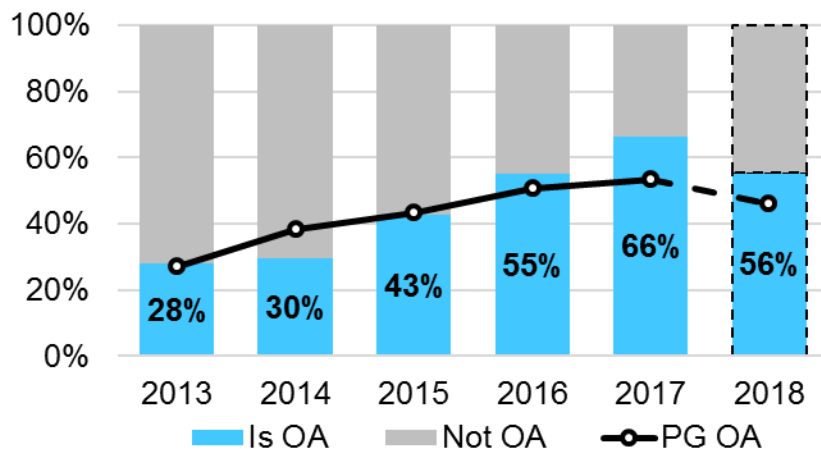
SciVal-indexed Kent outputs with DOI



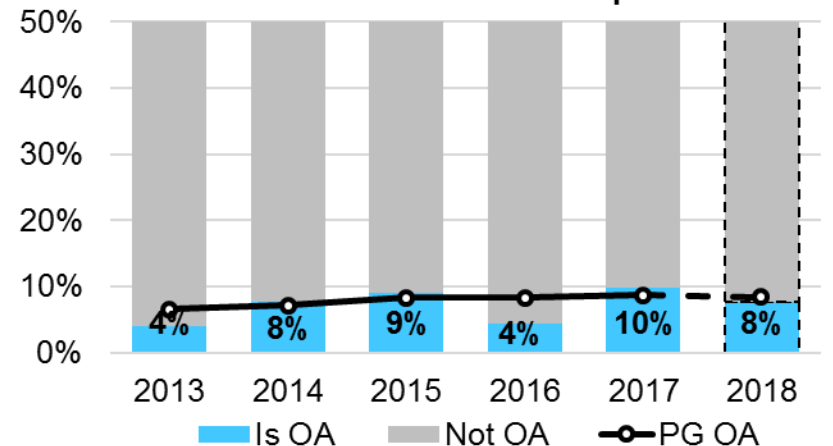
Kent Articles: 67% of these outputs



Kent Conference papers: 11% of the outputs

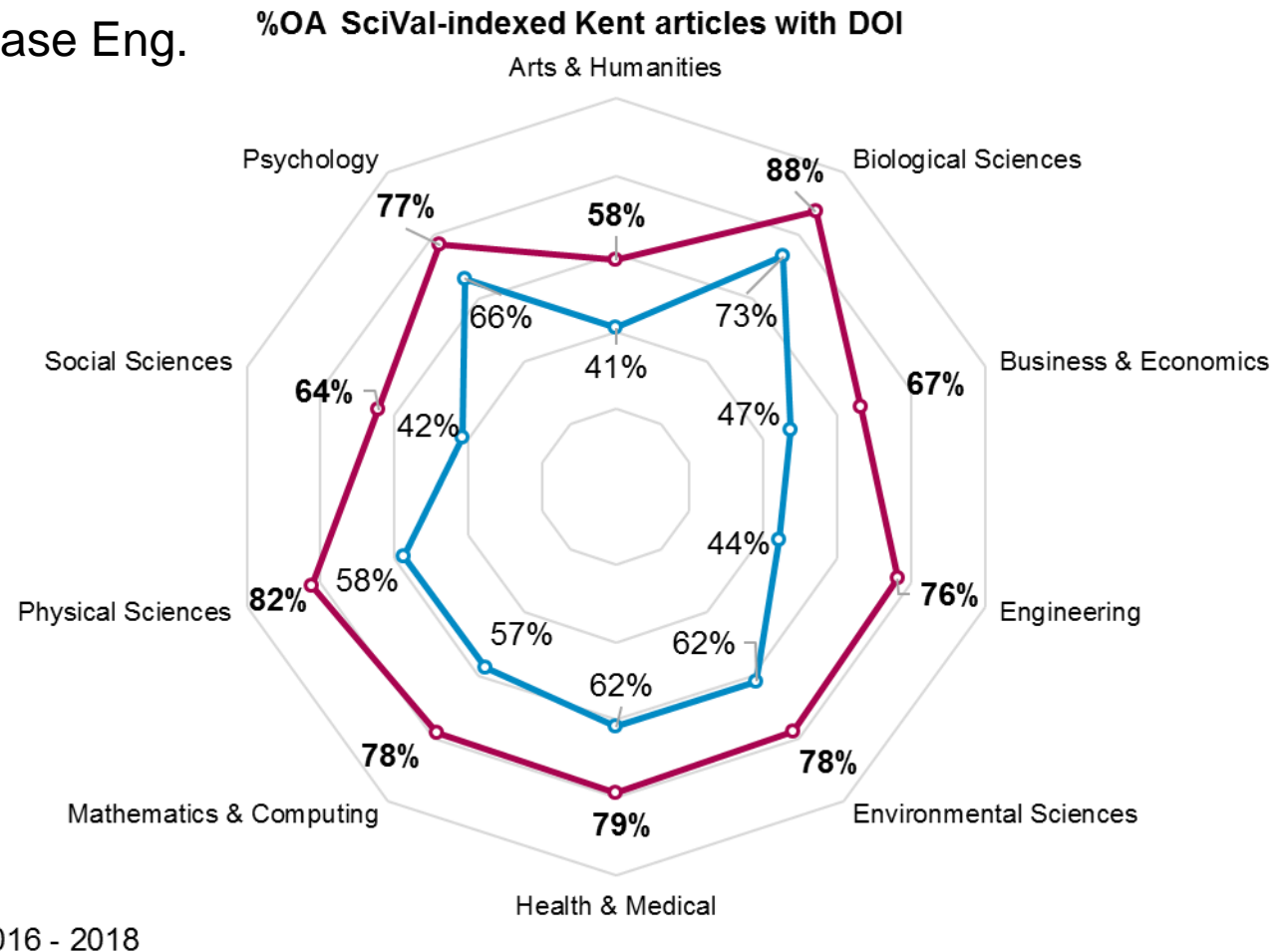


Kent Books: 11% of the outputs



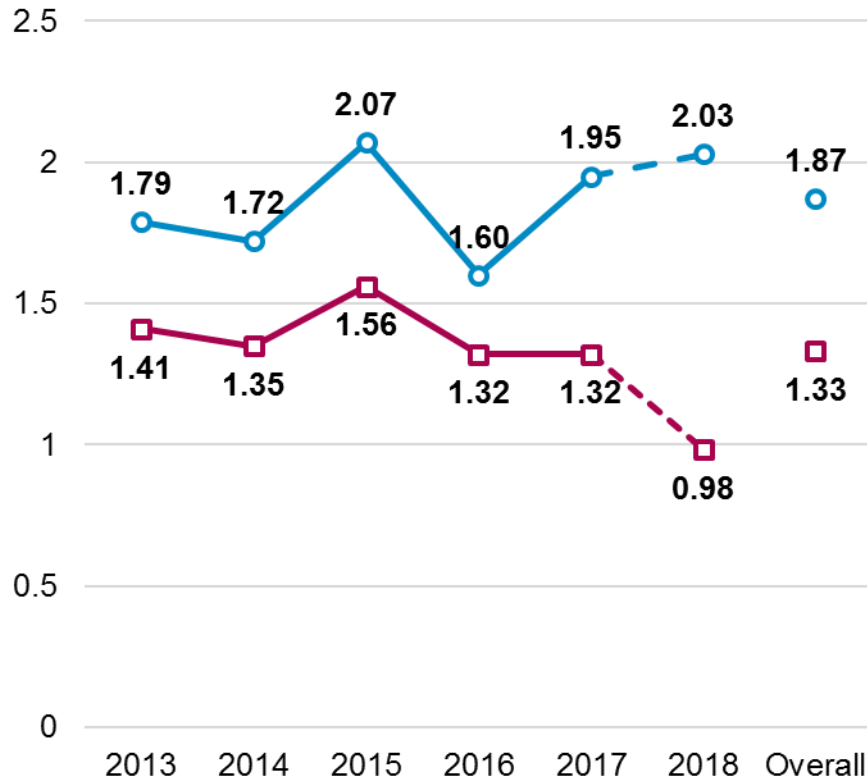
Key findings – Kent subj. area, 2013-15 v. 2016-18

- % OA high for Biosc. & Physic Sc., lower for the Arts & Hums, Soc. Sc.
- largest % increase Eng.

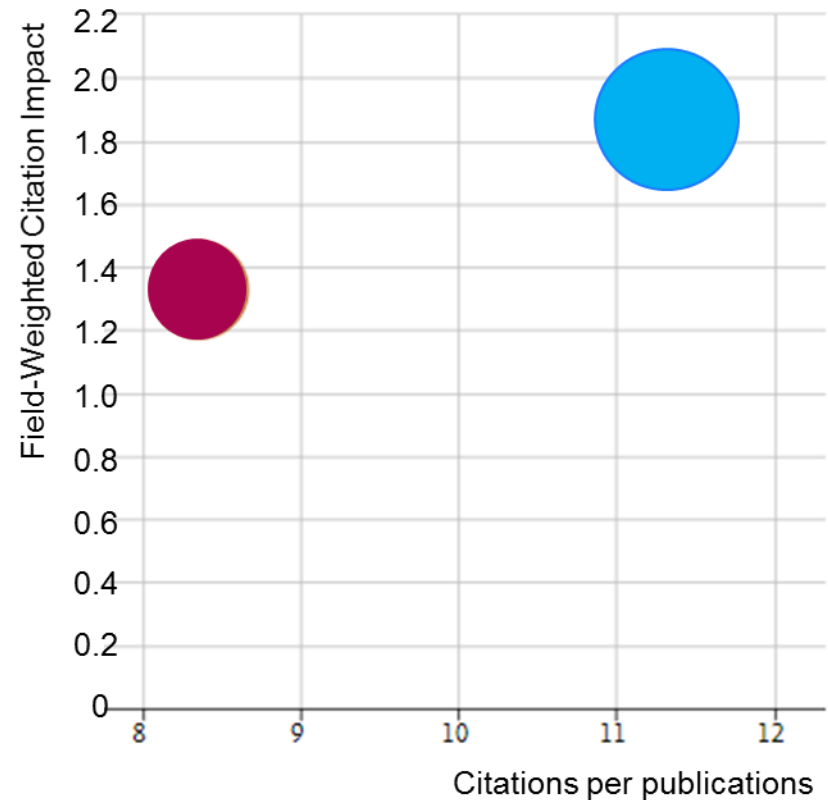


Key findings – Kent OA / nonOA bibliometrics

Field-Weighted Citation Impact



—○— Kent OA outputs 2013 - 2018
 —□— Kent nonOA outputs 2013 - 2018



● Kent OA outputs 2013 - 2018
 ● Kent nonOA outputs 2013 - 2018

Future work

- Replicate these algorithms for Clarivate / Web of Science
- Refine these methods to increase efficiency
- Devise a process that will harvest and compare data from online platforms (ORCID, rXiv, etc.)
- Calculate the accuracy of the algorithms if applied to a large scale institution
- Estimate the degree of confidence in the strike rate (eg. 99.5% of outputs are correctly allocated)

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