Transforming analytics for better research governance: Connecting the dots in the scholarly ecosystem to gather tangible insights and deliver value, an institutional (user) perspective

Presentation for:

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Agenda for today

1) Introduction
2) Erasmus University: business & economics field
3) Strategic user case: Faculty Careers
4) RIS Ecosystem thinking
5) Dimensions: next generation RIS platform: connections key
6) Connecting the dots: Career dimensions
7) Conclusions
Erasmus University, Economics & Business
User case:

Faculty Careers & Impact Metrics
Strategic perspective: Academic Career focus on 4 faculty development ‘tracks’
Goal: Career Impact
Types of Impact: Diversity

http://russellgroup.ac.uk/media/5324/engine-of-growth.pdf
Impact Assessment? 
Towards (responsible) Impact Performance Metrics
Matching user perspective to Research Intelligence Systems
Personal view: All-In-One systems for Research Intelligence don’t exist
RIS Ecosystem thinking: Open Science Framework Ecosystem

https://cos.io/our-products/open-science-framework/
RIS Ecosystem services example: Mindmap Cambridge

https://figshare.com/articles/Mind_the_Research_Information_Map/1507607
Ecosystem thinking (personal view):
Purpose driven, core processes and connections
Strategic perspective: connecting processes and tracks
Next generation RIS platform:

Dimensions

By:
Ecosystem platform: Dimensions
Data and connections
Why Dimensions = Product innovation & Business Model Innovation

Product innovation
- Broad view on research; pubs, grants, patents, trials, policy docs
- Links between all types of content
- Article-level classifications (not journal level)
- New human-friendly API language
- Built-in analytics (not a separate application)
- Built-in full-text access (both to OA-articles and subscribed articles)

- Business model innovation
  - Free version for personal use with all pubs and citations (not grants, etc.)
  - Free citations and badges for non-commercial use
  - No restrictions on internal use of data from API
  - Lower-than-normal pricing ("sustainable" pricing)
Free versions of Dimensions: app.dimension.ai & dimensions.ai
Dashboard: starting point of discovery process
About Metrics in Dimensions

Publication citations
Citation Count is the number of times that this paper has been cited by other published papers in the database.

Altmetric Attention Score
The Altmetric Attention Score is a weighted count of all of the online attention Altmetric have found for an individual research output. This includes mentions in public policy documents and references in Wikipedia, the mainstream news, social networks, blogs and more. More detail on the weightings of each source and how they contribute to the attention score is available.

Relative Citation Ratio (RCR)
The Relative Citation Ratio (RCR) indicates the relative citation performance of an article when comparing its citation rate to that of other articles in its area of research. A value of more than 1.0 shows a citation rate above average. The article’s area of research is defined by the articles that have been cited alongside it. The RCR is normalized to 1.0 for all articles.

Field Citation Ratio (FCR)
The Field Citation Ratio (FCR) is an article-level metric that indicates the relative citation performance of an article, when compared to similarly-aged articles in its subject area. A value of more than 1.0 indicates higher than average citation, when defined by FoR Subject Code, publishing year and age. The FCR is calculated for articles published in 2000 and later.

Citation Recency
The recent citations value is the number of citations that were received in the last two years. It is currently reset at the beginning of each calendar year.

Patent citations
Patent citations is the number of times that this record has been cited by other published patents. Patents may be registered in several offices, and this may effect patent citation data.
Field choice: Business and management, Sorted by RCR (or other metric)
Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations

The Milbank Quarterly, 82(4), 581-629, 2004
https://doi.org/10.1111/j.0887-378x.2004.00325.x

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Abstract
This article summarizes an extensive literature review addressing the question, How can we spread and sustain innovations in health service delivery and organization? It considers both content (defining and measuring the diffusion of innovation in organizations) and process (reviewing the literature in a systematic and reproducible way). This article discusses (1) a parsimonious and evidence-based model for considering the diffusion of innovations in health service organizations, (2) clear knowledge gaps where further research should be focused, and (3) a robust and transferable methodology for systematically reviewing health service policy and management. Both the model and the method should be tested more widely in a range of contexts.
Article level view 2: Publication References

Publication references - 78

**Determinants of innovation within health care organizations: Literature review and Delphi study**
Margot Fleuren, Karin Wiefferink, Theo Paulussen
Citations: 320, Altmetric: 6

**Effectiveness and efficiency of guideline dissemination and implementation strategies**.
J M Grimshaw, R E Thomas, G MacLennan, C Fraser, C R Ramsay, L Yale, P Whitty, M P Eccles, L Matowe, L Shirran, M Wensing, R ...
2004, Health Technology Assessment - Article
Citations: 1.7k, Altmetric: 7

**Receptivity to Change in a General Medical Practice**
John Newton, Joanne Graham, Kevin McLoughlin, Alice Moore
2003, British Journal of Management - Article
Citations: 14

**Developing and Testing a Model to Predict Outcomes of Organizational Change**
David H Gustafson, François Saintfort, Mary Eichler, Laura Adams, Maureen Bisognano, Harold Steudel
2003, Health Services Research - Article
Citations: 136, Altmetric: 3

**Clinical Team Functioning and IT Innovation: A Study of the Diffusion of a Point-of-care Online Evidence System**
A. Sophie Gosling, Johanna I. Westbrook, Jeffrey Braithwaite
2003, Journal of the American Medical Informatics Association - Article
Citations: 39

More
Article level view 3: Publication Citations

Publication citations - 2585

**Advances in Perioperative Quality and Safety**
Kathryn T. Anderson, Rachel Appelbaum, Marisa A. Bartz-Kurycki, Kuo Jen Tsao, Marybeth Browne
2018, Seminars in Pediatric Surgery - Article
Add to Library

**Dentists' opinions on using digital technologies in dental practice**
Marieke M van der Zande, Ronald C Gorter, Josef J M Bruers, Irene H A Aartman, Daniel Wismeijer
2018, Community Dentistry and Oral Epidemiology - Article
Add to Library

**Psychometric Testing of the Smoking Cessation Counseling Scale Among Magnet® Hospital Nurses.**
Wen Liu, Meg Johantgen, Robin Newhouse
2018, Western Journal of Nursing Research - Article
Open Access Add to Library

**Applying theories to better understand socio-political challenges in implementing evidence-based work disability prevention strategies**
Christian Stahl, Kasia Costa-Black, Patrick Loisel
2018, Disability and Rehabilitation - Article
Add to Library

**Is innovative workforce planning software the solution to NHS staffing and cost crisis? An exploration of the locum industry**
Iakovos Theodoulou, Akshaya Mohan Reddy, Jeremy Wong
2018, BMC Health Services Research - Article
View PDF Add to Library

More
Article level view 4: Linked Clinical Trials

**Linked clinical trials - 3**

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<td>New York University - New York University, Memorial Sloan Kettering Cancer Center</td>
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Article level view 5: Impact Summary – available for each publication with citations

Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations

This publication in The Milbank Quarterly has been cited 2,604 times. 27% of its citations have been received in the past two years, which is higher than you might expect, suggesting that it is currently receiving a lot of interest.

Compared to other publications in the same field, this publication is extremely highly cited and has received approximately 424 times more citations than average.
Article level view 6: Article level citations pattern

**Diffusion of Innovations in Service Organizations: Systematic Review and Recommendations**

- **Publication**: Article in *The Milbank Quarterly*, published March 2004
- **Authors**: TRISHA GREENHALGH, GLENN ROBERT, FRASER MACFARLANE, PAUL BATE, OLIVIA KYRIAKIDOU

**Summary**

Applying theories to better understand socio-political challenges in implementing evidence-based work disability prevention strategies

_Purpose_: This article explores and applies theories for analyzing socio-political aspects of... [show more]

**Psychometric Testing of the Smoking Cessation Counseling Scale Among Magnet® Hospital Nurses**

_Purpose_: This article explores and applies theories for analyzing socio-political aspects of... [show more]

**Citations by year**

- **2004**: 0 cites
- **2005**: 50 cites
- **2006**: 100 cites
- **2007**: 150 cites
- **2008**: 200 cites
- **2009**: 250 cites
- **2010**: 300 cites
- **2011**: 350 cites
- **2012**: 400 cites
- **2013**: 450 cites
- **2014**: 500 cites
- **2015**: 550 cites
- **2016**: 600 cites
- **2017**: 650 cites
- **2018**: 700 cites
Article level view 7: Citing Research Categories (interdisciplinary citations)
Some conclusions

1) RiS systems are strategic instruments
2) All-in-1 does not exist
3) Ecosystem approach is more realistic
4) Connecting careers and impact to RiS is challenge
5) New generation RiS connect results of 4 core research processes
6) Dimensions is example of “responsible RiS”: article level thinking
7) Product and business model innovator
8) Next-generation research databases like Dimensions provide a broader view on research than the traditional abstract- and citation-based view
9) Dimensions is valuable for both individual researchers and institutional use
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