











Cycle of scientific publication: an overview

Paola Galimberti, University of Milan Violaine Jacq, Sorbonne University Library



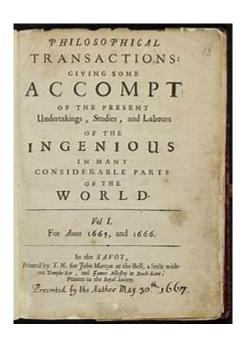


Open science (what we have learnt)





Why scientific publishing?



The aim of the new publication was to create a public record of original contributions to knowledge



Refereed Articles and Book Chapters

- 2009 Model-driven Architecture of a Maritime Surveillance System Simulator (Martin Monperrus, Benoit Long, Joel Champeau, Brightte Heeltzener, Gabriel Marchalot, Jean-Marc Jézéquel), In Systems Engineering Journal, John Wiley and Sons, volume 13, 2009.
- 2008 Measuring Models (Martin Monperrus, Jean-Marc Jézéquel, Joël Champeau, Brigitte Hoeltzener), Chapter in Model-Driven Software Development: Integrating Quality Assurance, IDEA Group (Jörg Rech, Christian Bunes, eds.), 2008.
- 2006 Non-Local Estimation of Manifold Structure (Yoshua Bengio, Martin Monperrus, Hugo Larochelle), In Neural Computation, volume 18, 2006. (impact factor: 2.335)

Refereed Conference Papers

- 2008 A Model-driven Measurement Approach (Martin Monperrus, Jean-Marc Jézéquel, Joël Champeau, Brigitte Hoeltzener), In Proceedings of the ACM/IEEE 11th International Conference on Model Driven Engineering Languages and Sustems (MODELS:2008), 2008. (accentance rate: 58/274)
- 2008 Model-driven Simulation of a Maritime Surveillance System (Martin Monperrus, Fabre Jazzafy, Gabriel Marchalot, Joel Champeau, Brigitte Hoeltzener, Jean-Marc Jézéquel), In Proceedings of the 4th European Conference on Model Driven Architecture Foundations and Applications (ECMDA 2008), 2008. (acceptance rate: 27/82)
- 2008 Model-driven Engineering Metrics for Real Time Systems (Martin Monperrus, Jean-Marc Jézéquel, Joël Champeau, Brigitte Hoettzener), In Proceedings of the 4th European Congress on Embedded Real Time Soft-wave (ERTS'2008, 2008.
- 2004 Non-Local Manifold Tangent Learning (Yoshua Bengio, Martin Monperrus), In Advances in Neural Information Processing Systems (NIPS 2004), MIT Press (Laurence K. Saul, Yair Weiss, Léon Bottou, eds.), volume 17, 2004. [acceptance rais: 207(822)]

Refereed Workshop Papers

- 2009 A Definition of "Abstraction Level" for Metamodels (Martin Monperrus, Joël Champeau, Antoine Beugnard), In Proceedings of the 7th IEEE Workshop on Model-Based Development for Computer Based Systems (MBD '2009) co-located with ECBS'2009, 2009.
- 2009 Untangling Crosscutting Concerns in Domain-specific Languages with Domain-specific Join Points (Tom Dinkelaker, Martin Monperrus, Mira Mezini), In Proceedings of the 4th Domain-Specific Aspect Languages Workshop (DSAL 2009) co-located with AOSD 2009, 2009.
- 2007 Counts Count (Martin Monperrus, Joël Champeau, Brighte Hoeltzener), In Proceedings of the 2nd Workshop on Model Size Metrics (MSM'07) co-located with MODELS'2007, 2007.

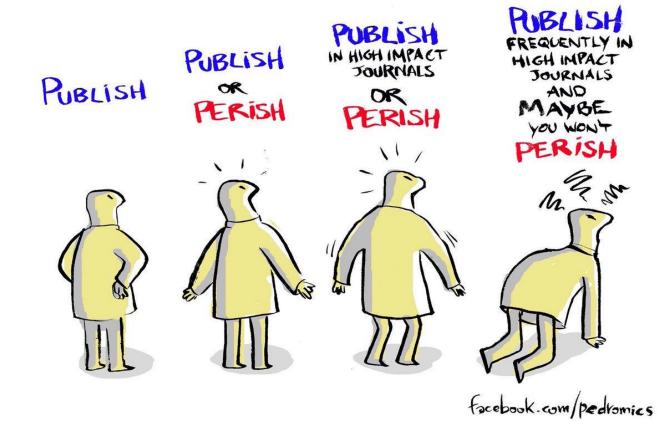
Other Publications

2008 La mesure des modèles par les modèles : une approche générative (Martin Monperrus), PhD thesis, Université de Rennes, 2008. (Advisor: JM. Jézéquel; Examiners: H. Sahraoui, S. Ducasse) Today a scientific publication has become a line in a cv

Scientific publications represent the possibility for career advancement, funding ecc.



THE EVOLUTION OF ACADEMIA





Divergent interests

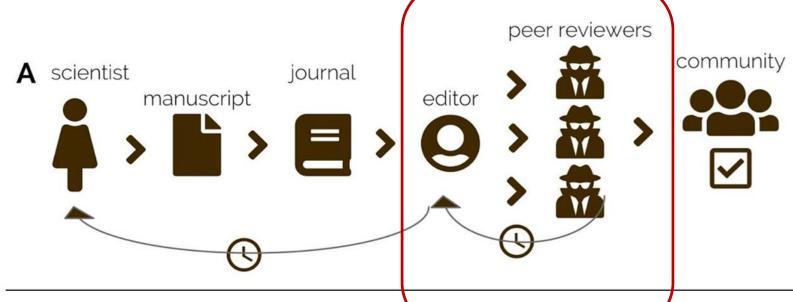
Researchers
want to publish
as much as
possible and
want to be read
and commented.
They need
aknowledgement



Publishers want to maximize their revenue streams

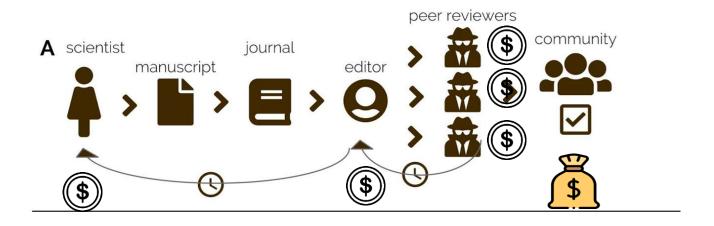


The publication process

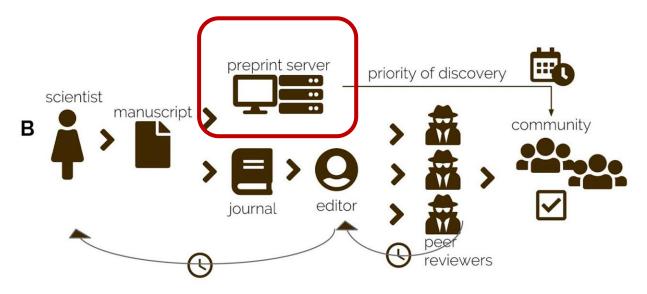


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After paying researchers, reviewers, and editors through their salaries, public funding also pays for the results of their work.



Publication in a preprint repository is NOT in contrast to publication in a peer reviewed journal. The article begins to circulate and collect comments (positive and negative) before publication while still assuring the author priority over the discovery. It is cilitates public discussion



Types of journal articles

Article

It includes full Introduction, Methods, Results, and Discussion sections.

Letter

Brief reports of data from original research that editors believe will be interesting to many researchers, and that will likely stimulate further research in the field

Review

A comprehensive summary of research on a certain topic, and a perspective on the state of the field and where it is heading.

Case study

In-depth and extended example that is use to illustrate a particular argument.



Structure of an academic paper in the STM

Research article



- Proceedings paper
- Short article / Letters
- Theoretical papers
- Opinions
- Review
- Data paper
- Etc.

Introduction

- Context
- Hypotheses
- Experimental plan

Material and Methods

- Description of materials and protocols used in the study
- Referencing products

Results

- Description of scientific results
- « formal » deductions

Discussion

- Data recontextualization in the litterature
- Re-assesment of hypotheses
- New hypotheses
- Perspectives



Structure of an academic paper in the HSS

Research article



- Proceedings paper
- Short article / Letters
- Theoretical papers
- Opinions
- Review
- Data paper
- Etc.

Introduction

- Topic
- Reserach questions
- Objectives

State of the Art / Review of the literature

Empirical study

- Who, Where, What, How
- Materials and procedures
- Data analysis

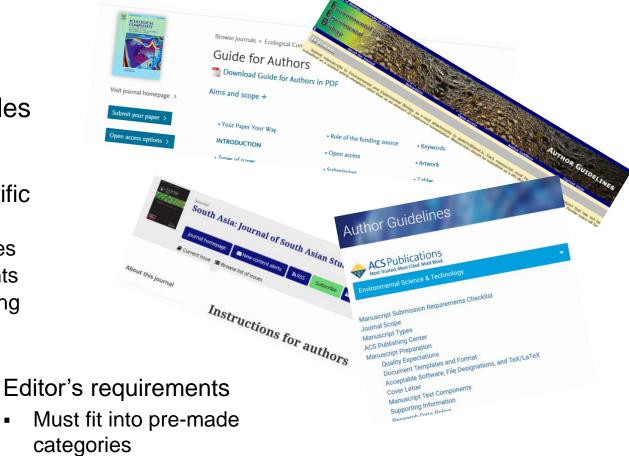
Discussion and Conclusion



Authors guidelines? Each journal has its rules

Common ground = requirement of the scientific community

- Conventions and languages
- Ethical and legal statements
- Images and data processing (transparancy and accessibility)
- References



Must fit into pre-made

categories

Must follow particular formats



Stakeholders of academic publishing

Scientists and the scientific community



Objectives:

Production and diffusion of knowledge and accrediation

Requirements:

Scientific rigour Accessibility Authorship of ideas

Scientific editors



Objectives:

Reviewing and diffusion of knowledge and quality assurance

Requirements:

Editorial policy Originality Scientific rigour

Publishers



Objectives:

Commercial

Diffusion

Requirements:

Licencing (rights transfer)

Access only for subscriber Standardisation of formats



Stakeholders of academic publishing

Governments and institutions



Objectives:

Diffusion and valorization of knowledge, researchers assessment

Requirements:

Ethical regulations
Open archives
Open Access publications
Rights retention







Students,
young and senior
scientists

young and senior
scientists

Data production/analysis

Writing

Submission

Your article here is called a **Preprint** version



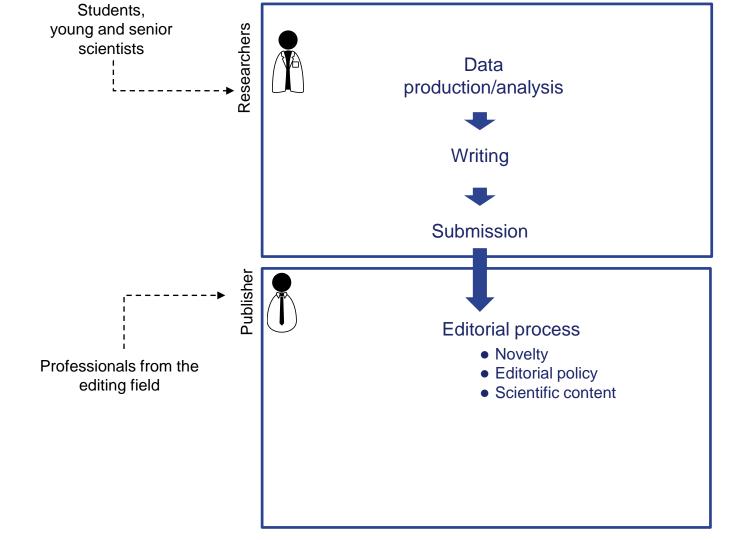
Editorial process

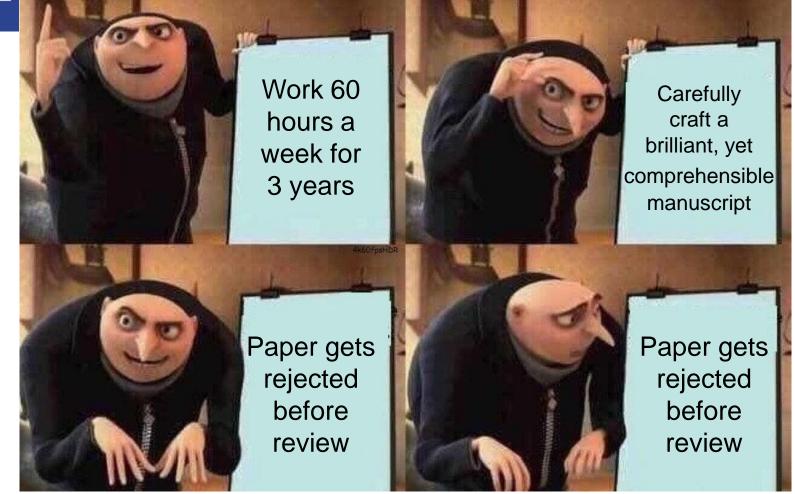
- Novelty
- Editorial policy
- Scientific content

Researchers

(except AAAS and Nature Group:professionals from the editing fields

Sometimes prestigious scientists invited







Editorial decision

Most articles submitted are rejected, many so before review.

Who decides which pape publish 200 papers /
Nature has space to publish 8% or so week, hence its

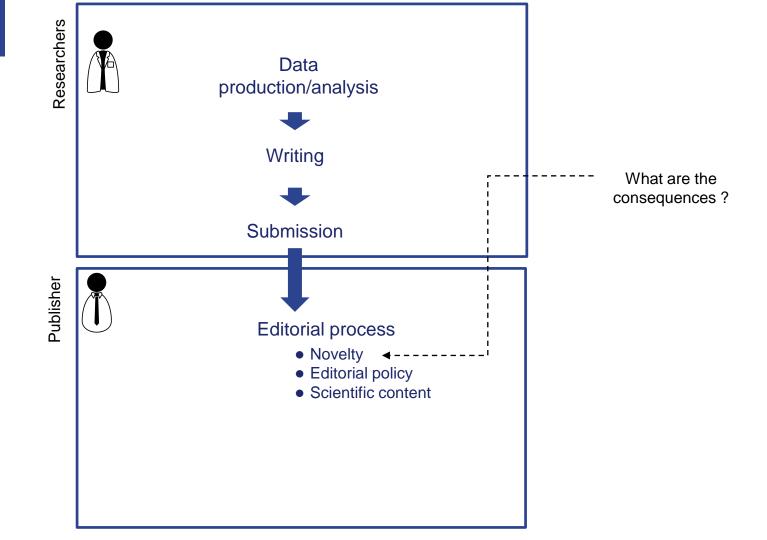
selection criteria are rigorous.y submissions being sent for

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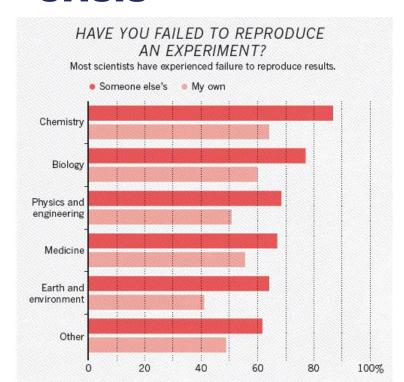
Many submissions are declined without sent for review

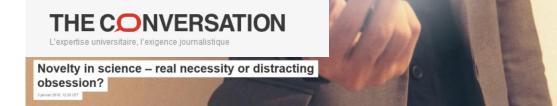
Year	N. of submissions	N. papers published	% published
2014	10,511	884	8.4
2015	10,427	790	7.6
2016	10,859	847	7.8
2017	10,768	820	7.6

https://www.nature.com/nature/for-authors/editorial-criteria-and-processes



Reproducibility crisis





In a <u>survey of over 1,500 scientists</u>, more than 70 percent of them reported having been unable to reproduce other scientists' findings at least once. Roughly half of the surveyed scientists ran into problems trying to reproduce their own results. No wonder people are talking about a "<u>reproducibility crisis</u>" in scientific research – an epidemic of studies that <u>don't hold up</u> when <u>run a second time</u>.

But there's at least one major obstacle to investing time and effort in this endeavor: the quest for novelty. The <u>prestige of an academic journal</u> depends at least partly on how often the research articles it publishes are cited. Thus, research journals often want to publish novel scientific findings which are more likely to be cited, not necessarily the results of newly rerun older research.

A study of clinical trials published in medical journals found the most prestigious journals prefer publishing studies considered highly novel and not necessarily those that have the most solid numbers backing up the claims. Funding agencies such as the National Institutes of Health ask scientists who review research grant applications to provide an "innovation" score in order to prioritize funding for the most innovative work. And scientists of course notice these tendencies – one study found the use of positive words like "novel," "amazing," "innovative" and "unprecedented" in paper abstracts and titles increased almost ninefold between 1974 and 2014.

http://theconversation.com/novelty-in-science-real-necessity-or-distracting-obsession-84032



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Author

Accepted

Manuscript

Editors /

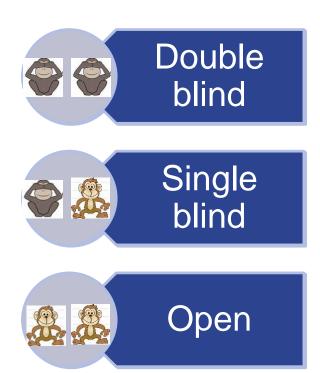
Researchers Data production/analysis Writing Peer reviewing Submission / Revision **Publishers Editorial process** Novelty Editorial policy Scientific content **DECISION Acceptation** Rejection



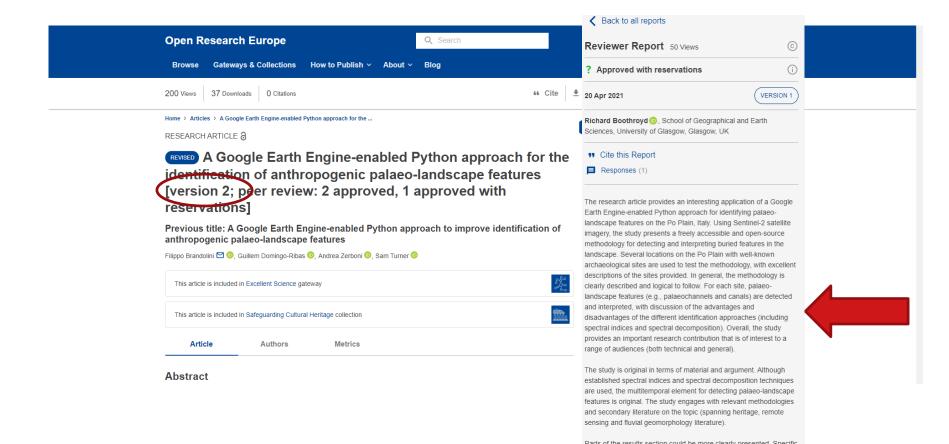
Researchers appointed by editors

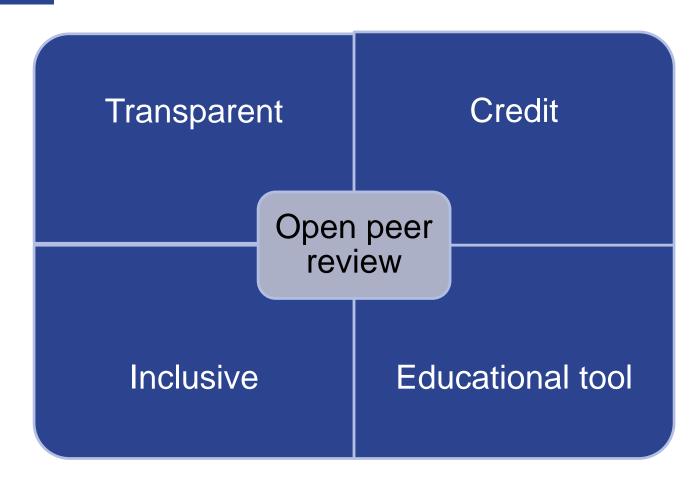
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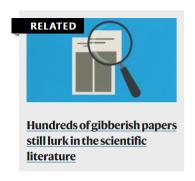
Predatory publishers (the dark side of open access?)



authors pay a fee to be published in a journal that does not make a selection and does not apply any peer review.



Predatory publishers (the dark side of quantitative evaluation systems)



"It is very worrying," says Guillaume Cabanac, a computer scientist at the University of Toulouse in France, who has worked to uncover nonsense science papers in special issues. He adds that it is shocking to see such papers in journals from 'flagship' publishers and that "it is not only predatory journals that publish bullshit".

A Springer Nature spokesperson said that an investigation had revealed "deliberate attempts to subvert the trust-based

editorial process and manipulate the publication record". They added that they did not yet know who was responsible (*Nature* is editorially independent of its publisher).



How can you avoid publishing with a predatory publisher?

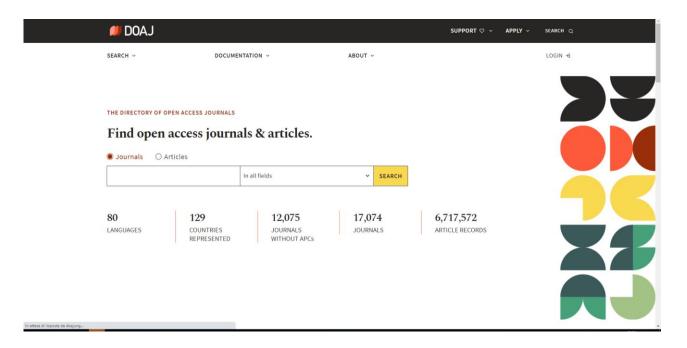


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How can you avoid publishing with a predatory publisher?



A white list of Open Access journals and their policies ELSEVIER COPYRIGHT AGREEMENT

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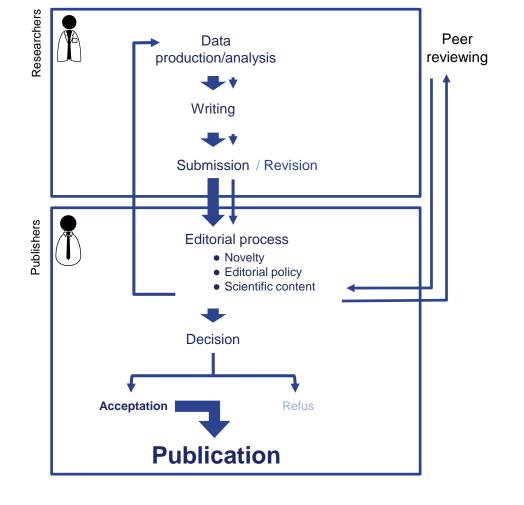
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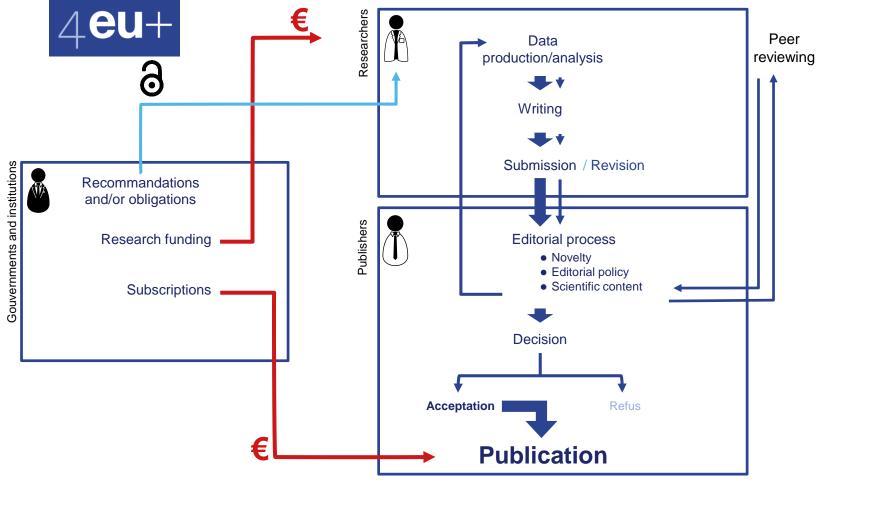


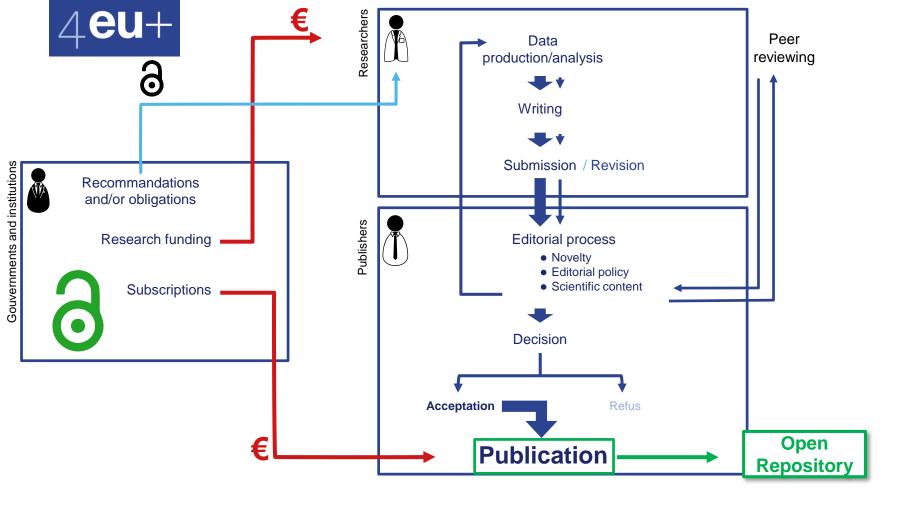




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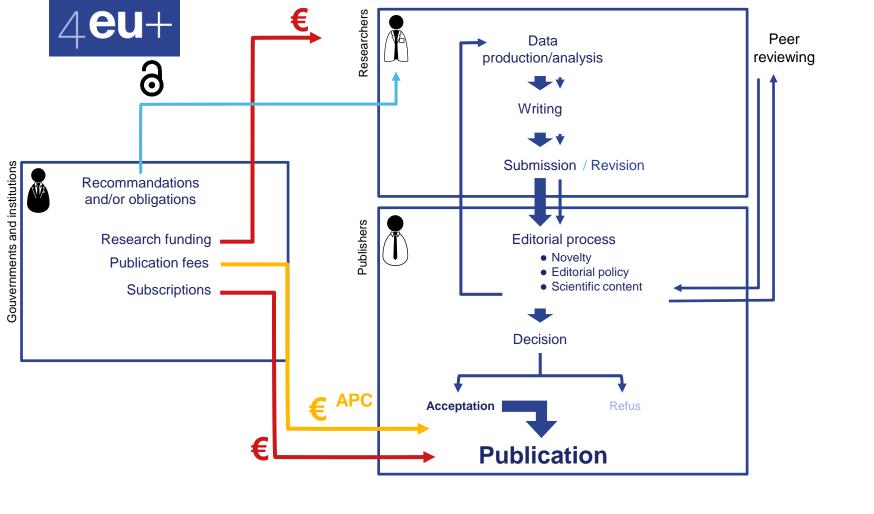
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