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Increasing citation diversity in the journal Agronomy for Sustainable Development

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The scope was also

broadened to publish

studies at the interface of

ecological, economic and

social sciences. Various

modified crops or urban

agriculture emerged in

The journal rank in the

Citation Reports (JCR)

increased from 29/53

(2-years Impact Factor

of 0.56) in 2003, to 4/83

(2-years Impact Factor

of 4,14) in 2015

Agronomy category

Thomson Journal

the journal².

"hot" topics such as

biofuels, genetically

Purpose We wanted to check if our journal had an influence on disciplinary fields other than Agronomy, and if its influence varied with time.

Background

Agronomy for Sustainable Development (ASD) is an international peerreviewed journal of the French National Institute for Agricultural Research (INRA). The journal has been renovated from 2003 by changing the title, the editorial policies, by communicating in a blog and in social media, and by increasing the number of published review articles¹.

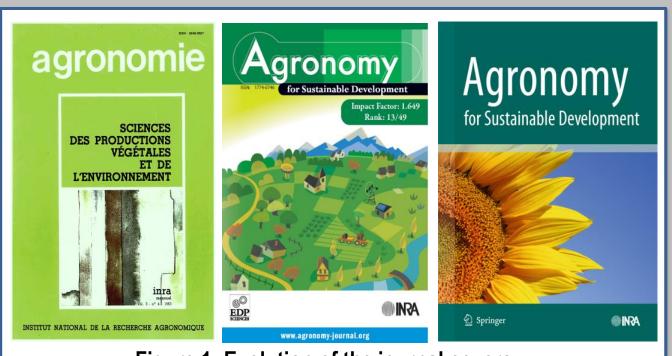


Figure 1: Evolution of the journal covers 1: 1981 ; 2: 2003 ; 3: 2011

Methods

We first extracted from the Web of Science (WoS) the references of articles and reviews published between 2006 and 2015 and citing ASD articles, except self-citations.

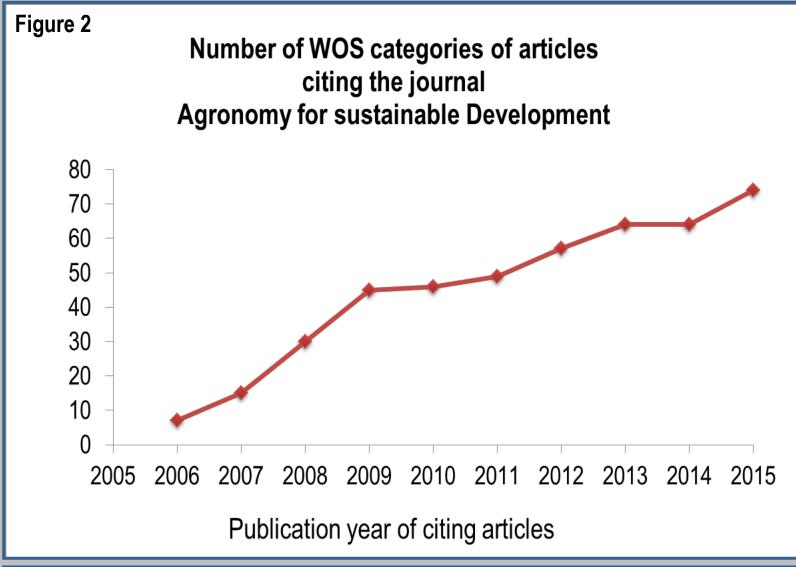
We compared the dataset to one of a narrower-scope journal in the top 20 of the Agronomy category (Rice).

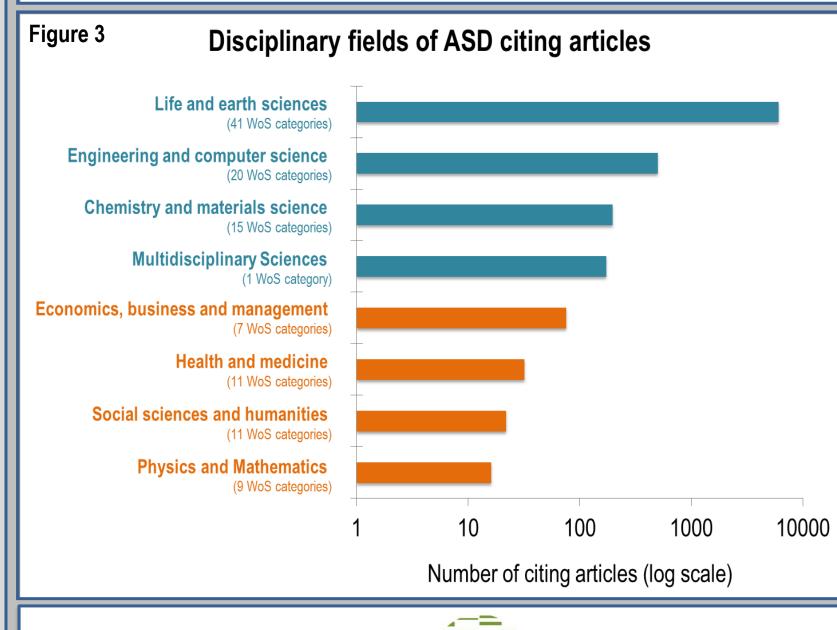
For journals belonging to several WoS categories, only the first one was considered.

The 67 WoS categories were gathered into 8 broader disciplinary fields.

Statistical analyses (correlation, regression) were performed with the R software³.

Results





Work supported by



References

¹Lichtfouse, E., Navarrete, M., Debaeke, P., Souchère, V., Alberola, C., & Ménassieu, J. (2009). Agronomy for sustainable agriculture: a review. In Sustainable Agriculture (pp. 1-7). Springer Netherlands.

² Lichtfouse, E., Hamelin, M., Navarrete, M., Debaeke, P., & Henri, A. (2010). Emerging agroscience. *Agronomy for* sustainable development, 30(1), 1-10.

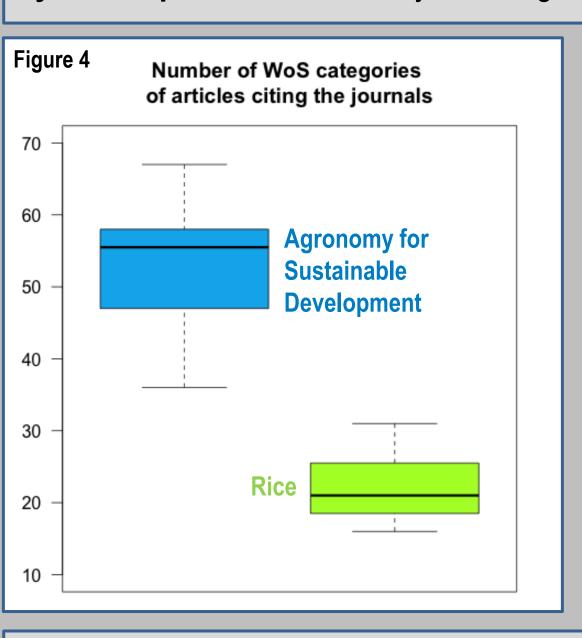
³R Core Team (2015). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL http://www.R-project.org/

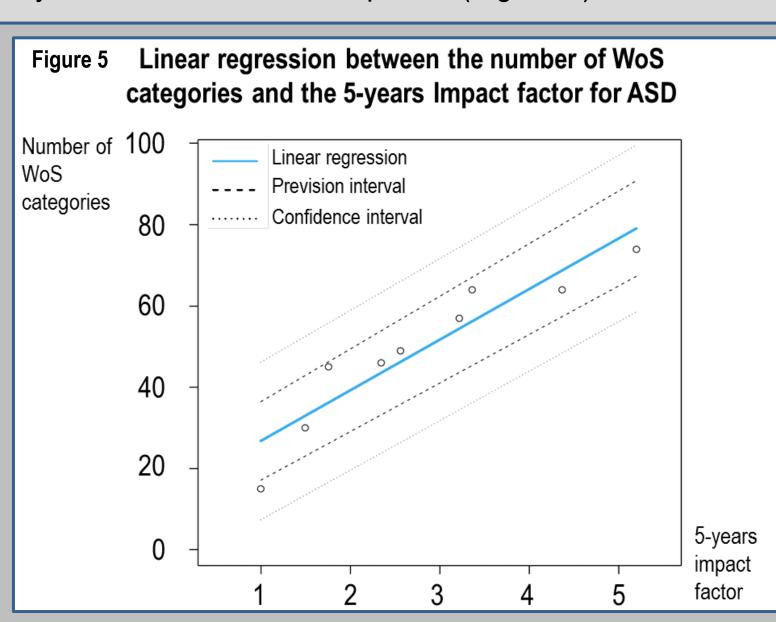
The observed number of WoS categories of the citing articles increased from 7 in 2006 to 74 in 2015 (Figure 2). This increase in diversity might be due the increase of number of citing articles (Pearson correlation cor=0.893, p-value<0.001).

Some citations originate from journals in rather remote disciplinary fields such as health and medicine, or humanities and arts (Figure 3).

The **number of WoS categories is higher** for ASD than for a narrower-scope journal such as Rice (Figure 4)

We observed a sharp increase of the number of WoS categories of citing articles with the 5years Impact Factor of the journal Agronomy for Sustainable Development (Figure 5).





Take-home message

The diversity of the readership of articles from Agronomy for Sustainable Development increases with time. Our observations support the idea that research at the interface between different disciplinary fields is developing. Journals with a large scope may benefit from this evolution. This also underlines the importance of making articles readable by scientists from other disciplines.



