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Análisis bibliométrico de Economía Azul/Bibliometric Analysis of Blue Economy

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Objectives

This is the first attempt at bibliometric analysis with SciMAT software from indexed article in the database Web of Science. It was conducted with general terms, only using the first original term Blue Economy. SciMat is a mapping analysis tool created to carry out mapping analysis in a longitudinal environment.

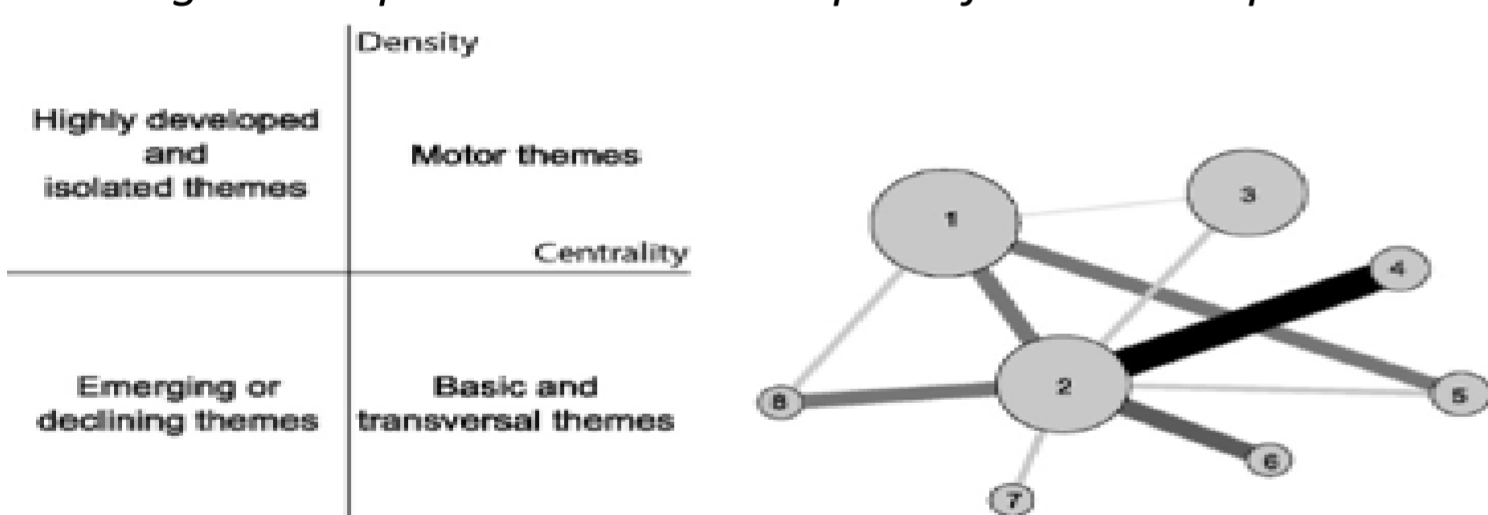
Literature review

Four reviews could be found from WoS referring to: (1) small scale fishing (Ayilu et al. (2022); (2) the effectiveness of spending on economic subsidies for their sustainable development (Silverwood-Cope and Ling, 2022); (3) a systematic review together with a survey to analyze the most developed tools to assess the interactions between multiple industries in this sector with the environment (Turschwell et al., 2022); (4) review of the Blue Economy concept based on equity and social benefits and environmental concerns(Cisneros-Montemayor et al., 2019). We fill a gap of a general review.

Methodology

Database: Core Collection from WoS. Search strings: (ti=(blue-econom* OR blue econom*)) and AK=(blue-econom* or blue econom*). Search filtering: Selected documents were English peer-reviewed articles and reviews from journals. Time period: 2002-2021. Final selection: A total of 75 articles using PRISMA. Fig 1 shows an explanation and examples of SciMAT maps.

Fig 1 An explanation and examples of SciMAT maps.

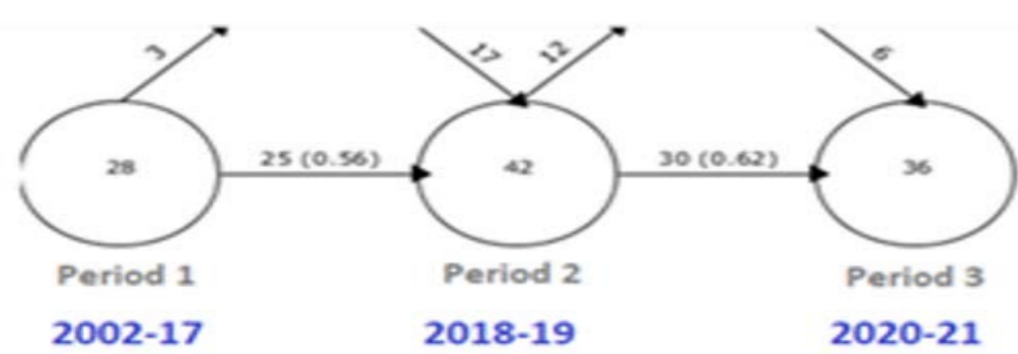


Source: Cobo Martín (2012).

Results (1/2)

Fig 2 shows the circles (clusters) representing a period of time.

Fig 2. Stability map between periods.



(b) Modified manually graph

Source: SciMAT modified inserting periods.

Results (2/2)

Main graphs: Network of the periods (Fig. 3) and strategic diagram based on sum citations (Figs. 4, 5, and 6), among others.

Fig 3. Network of the periods (2002-2017, 2018-19, 2020-21).

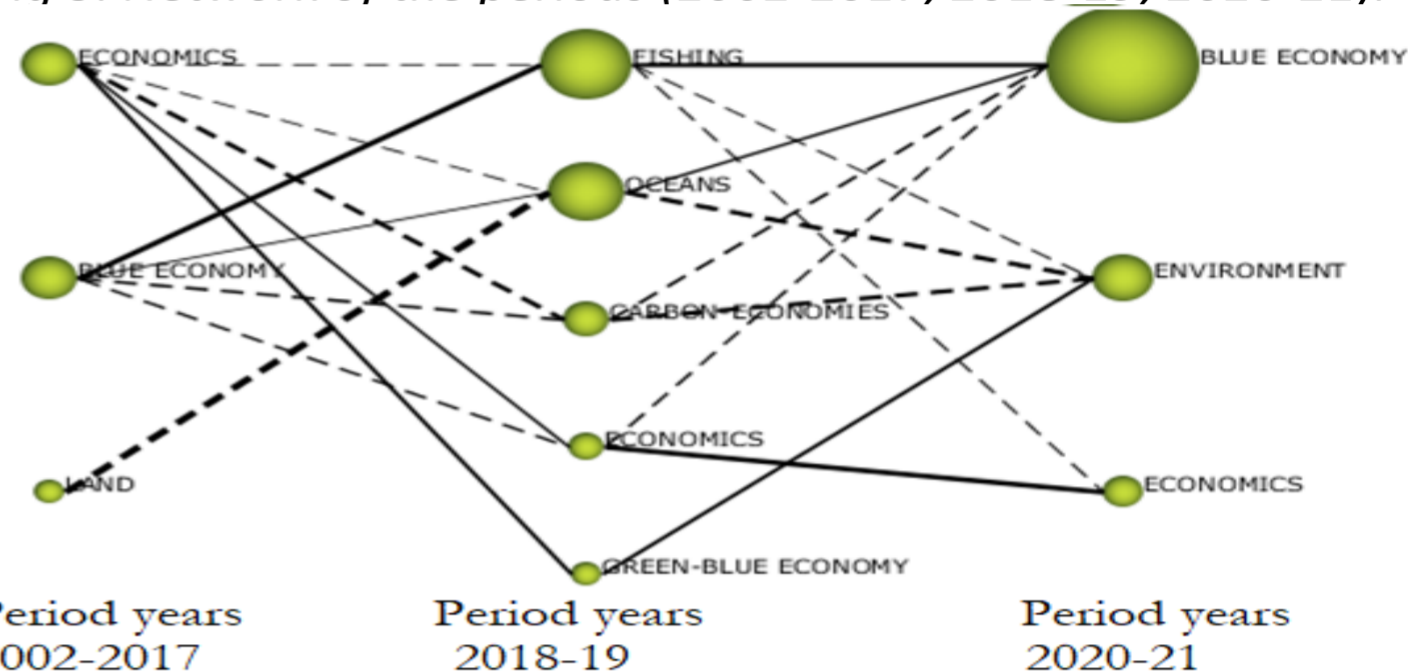


Fig 4 Strategic diagrams (2002-2017)

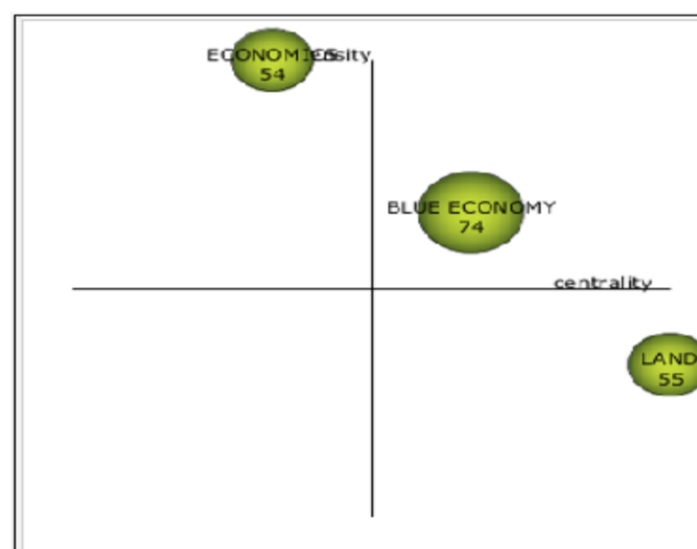
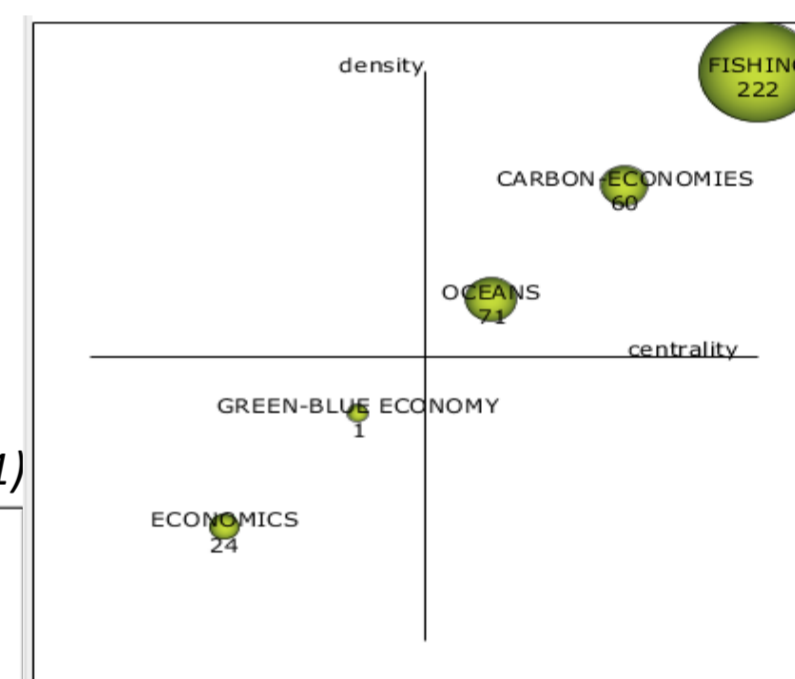


Fig 5 Strategic diagrams (2020-2021)



Fig 6. Strategic diagrams (2018-2019)



Conclusions

Among other results, it is shown: Blue Economy is a new topic - first published as articles in 2002-. From each of the periods studied. (1) 2002-2017: the most important topics are two: 'Blue economy' and 'Economics'. (2) Secondly, between 2018-2019, the most representative words are: 'Carbon-Economies', 'Fishing', and 'Oceans'. (3) Finally, in the last two years, 2020-2021 the most relevant cluster is the 'Blue Economy' itself. As limitations, 'Blue-green economy' and 'Blue economy' maybe could be merged into one category or cluster, depending on whether considering or not the same definition.

Main Reference

Cobo, M., Lopez-Herrera, A., Herrera-Viedma, E. & Herrera, F., 2012. SciMAT: A new Science mapping analysis software tool. *Journal of the American Society for Information Science and Technology*, 63(8), pp. 1609-1630.