The 16th Economic International Conference

New Challenges and Opportunities for the Economy 4.0

May 7, 2020 – May 8, 2020

SHADOW ECONOMY – BIBLIOMETRIC MAPPING

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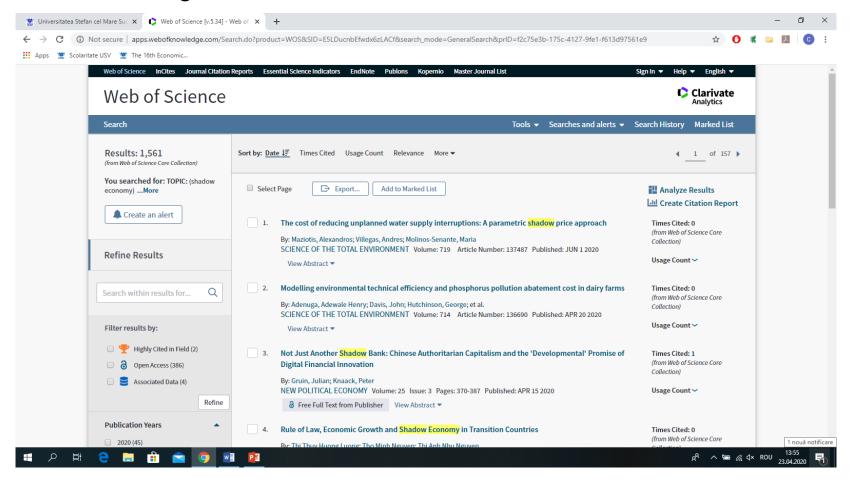
OBJECTIVES

- Main objectives:
- reviewing the scientific terminology used in connection and with regard to the shadow economy;
- establishing the most explored and researched subject areas in connection with shadow economy, as per the Web of Science database.
- The VOSviewer software, a freely available computer program that was developed for constructing and viewing bibliometric maps (van Eck & Waltman, 2010) is used.

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RESEARCH METHDOLOGY

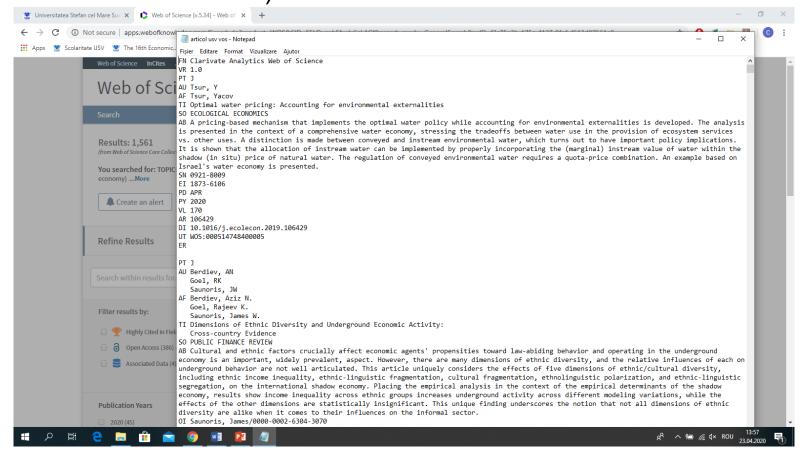
1. Retrieving bibliometric data from the Web of Science database.



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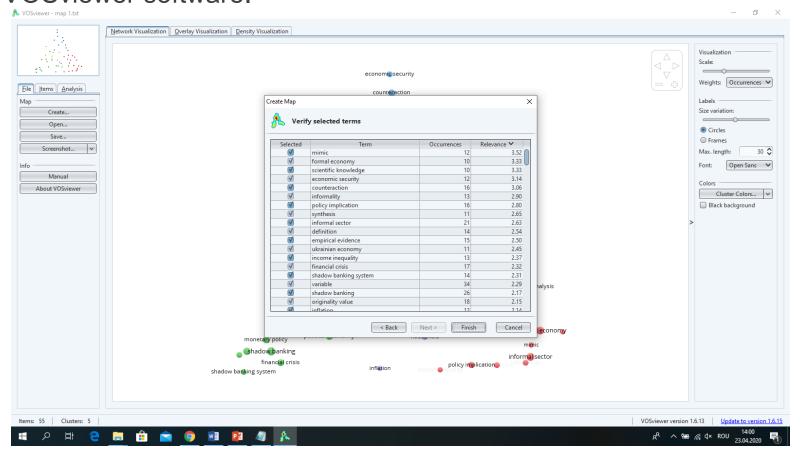
RESEARCH METHDOLOGY

2. Extracting bibliographic information (on the authors, titles, sources and abstracts).



RESEARCH METHDOLOGY

3. Creating a term co-occurrence map based on text data in the VOSviewer software.



SHADOW ECONOMY MAP

- The first term map created with regard to the topic "shadow economy" is based on a corpus of scientific documents extracted from the Web of Science database that consists of the titles and abstracts of 11.952 publications that appeared in the period 2000–2020.
- Out of the 289 noun phrases that occur in at least 10 publications in the corpus, the term map contains the 170 noun phrases that are considered most relevant.

SHADOW ECONOMY MAP

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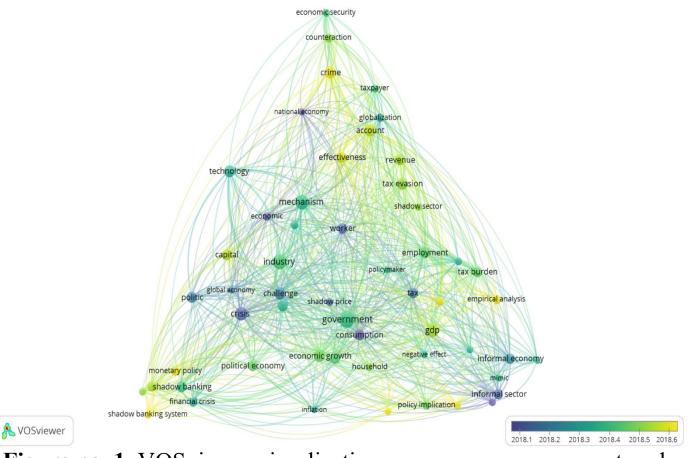


Figure no. 1: VOSviewer visualization map – co-occurrence network of terms when searching for shadow economy. Source: own generation.

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UNDERGROUND ECONOMY MAP

- The second term map created with regard to the topic "underground economy" is based on a corpus of scientific documents extracted from the Web of Science database that consists of the titles and abstracts of 13.960 publications that appeared in the period 2000–2020.
- Out of the 265 noun phrases that occur in at least 10 publications in the corpus, the term map contains the 160 noun phrases that are considered most relevant.

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UNDERGROUND ECONOMY MAP

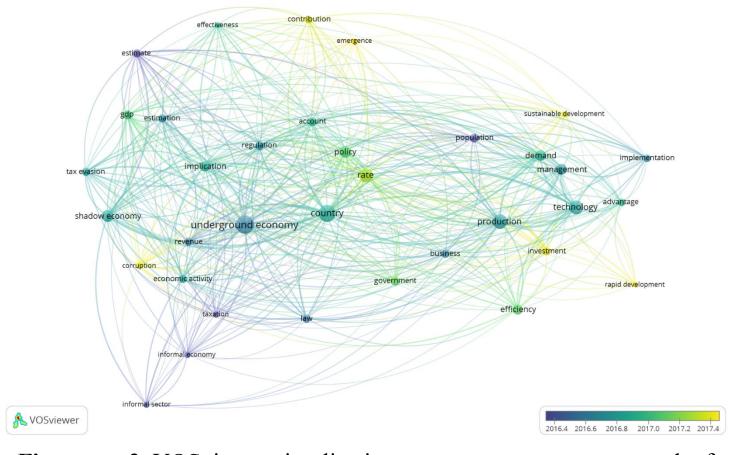


Figure no. 2: VOSviewer visualization map – co-occurrence network of terms when searching for underground economy. Source: own generation.

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INFORMAL ECONOMY MAP

- The third term map created with regard to the topic "informal economy" is based on a corpus of scientific documents extracted from the Web of Science database that consists of the titles and abstracts of 12.542 publications that appeared in the period 2000–2020.
- Out of the 292 noun phrases that occur in at least 10 publications in the corpus, the term map contains the 175 noun phrases that are considered most relevant.

INFORMAL ECONOMY MAP

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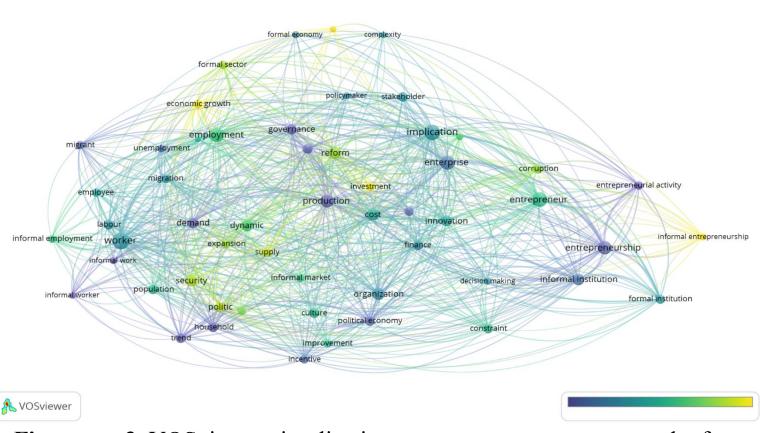


Figure no. 3: VOSviewer visualization map – co-occurrence network of terms when searching for informal economy. Source: own generation.

RESEARCH RESULTS

- Topic "shadow economy"
- five clusters;
- most occurrences in the first one are for the terms: GDP, informal economy and employment;
- most occurrences in the second one are for the terms: crisis, economic growth and challenge;
- most occurrences in the third one are for the terms: mechanism, tax evasion and crime;
- most occurrences in the fourth one are for the terms: industry, technology and worker;
- most occurrences in the fifth one are for the terms: government, consumption and household.

RESEARCH RESULTS

- Topic "underground economy"
- three clusters;
- most occurrences in the first one are for the terms: production, technology and management;
- most occurrences in the second one are for the terms: rate, implication and tax evasion;
- most occurrences in the third one are for the terms: country, shadow economy and policy.

RESEARCH RESULTS

- Topic "informal economy"
- five clusters;
- most occurrences in the first one are for the terms: production, organization and cost;
- most occurrences in the second one are for the terms: worker, employment and security;
- most occurrences in the third one are for the terms: enterprise, entrepreneur and entrepreneurship;
- most occurrences in the fourth one are for the terms: dynamic, political economy and politic;
- most occurrences in the fifth one are for the terms: implication, governance and reform.

CONCLUSIONS

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- The research revealed the scientific terminology used in connection with the shadow economy, underground economy and informal economy, as per the Web of Science database.
- The main finding was that, the terminology used with regard to the shadow economy revolves around terms and phrases such as: consumption, governance, financial crisis, crime, informal economy, unemployment, inflation, tax evasion and others.
- The research established the most explored and researched subject areas in connection with shadow economy, underground economy and informal economy as follows:

CONCLUSIONS

- 1. The size and development of the shadow economy (terms and phrases such as: size, global economy, financial crisis, rapid development, etc.);
- 2. The determinants of shadow economy (terms and phrases such as: GDP, income inequality, corruption, tax burden, culture, complexity, unemployment, etc.);
- 3. Cause and effect analysis (terms and phrases such as: negative effect, negative impact, etc.);
- 4. Counteracting measures (terms and phrases such as policymaker, governance, regulation, law, reform, etc.);
- 5. Measurement methods (MIMIC, estimation, etc.).

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CONCLUSIONS

THANK YOU FOR YOUR ATTENTION!

Questions?