ROI-AV

Research Output & Impact – Analyzed and Visualized

From project to local competences



Lars Lund-Thomsen Maj 2019

- > ROI-AV
 - > Scope and homepage
- **> WP2** −
 - > Strategy og results
- > Local experiences
 - > Introducing VOSviewer to librarians and researchers
- > The Future
 - Opera and vizualisations





ROI-AV Research Output & Impact – Analyzed and Visualized

- > Strategic deliver information for management
- > Practical able to support complex products
- > Competence development for colleges
- > Facilitate knowledge exchange
- ➤ ROI-AV SDU libguides





ROI-AV - WP2 Focus

> Analysis and visualization tools

The project is currently active in the part that deals with competency development of the participants, and works in smaller groups with tools like VOSviewer, Science of Science (Sci2) Tool, Tableau, Excel, Gephi, R, NVivo, OpenRefine and Google Data Studio.

➤ We developed that !!





ROI-AV - WP2 Strategy

- > Developing our competencies is best done by teaching
 - > Introductions & workshops by group members
- Outside speakers (and Advisory board)
- > Every half year we held a Brainstorm and planned ahead
 - > Products, software, tools
- > Very positive experience





VOSviewer

- > Previous experience from AIDA workshop in Leiden
- Developed to a flexible tool where you can analyze thousands of articles and find and show relations between authors, journals, subjects or words
- >Wanted to catch up on our bibliometric expertise





VOSviewer – masterclass fall 2018

- 2 days workshop lots of hands on !!
- Learned a LOT about ...
 - Underlying algorithm
 - Change of layout
 - Editing thesaurus file

Learned about VOSviewer corpus and scoresfiles





VOSviewer – arguments for visualizations

- Visualizations can be used to make complex information more accessible
- Visualizations need to be used in combination with expert knowledge:
 - Confirm expert knowledge
 - Challenge expert knowledge
 - Draw expert's attention to interesting information
- Be aware of information loss and methodological sensitivity
- Visualizations can also be used pragmatically to attract attention and to 'sell a message'





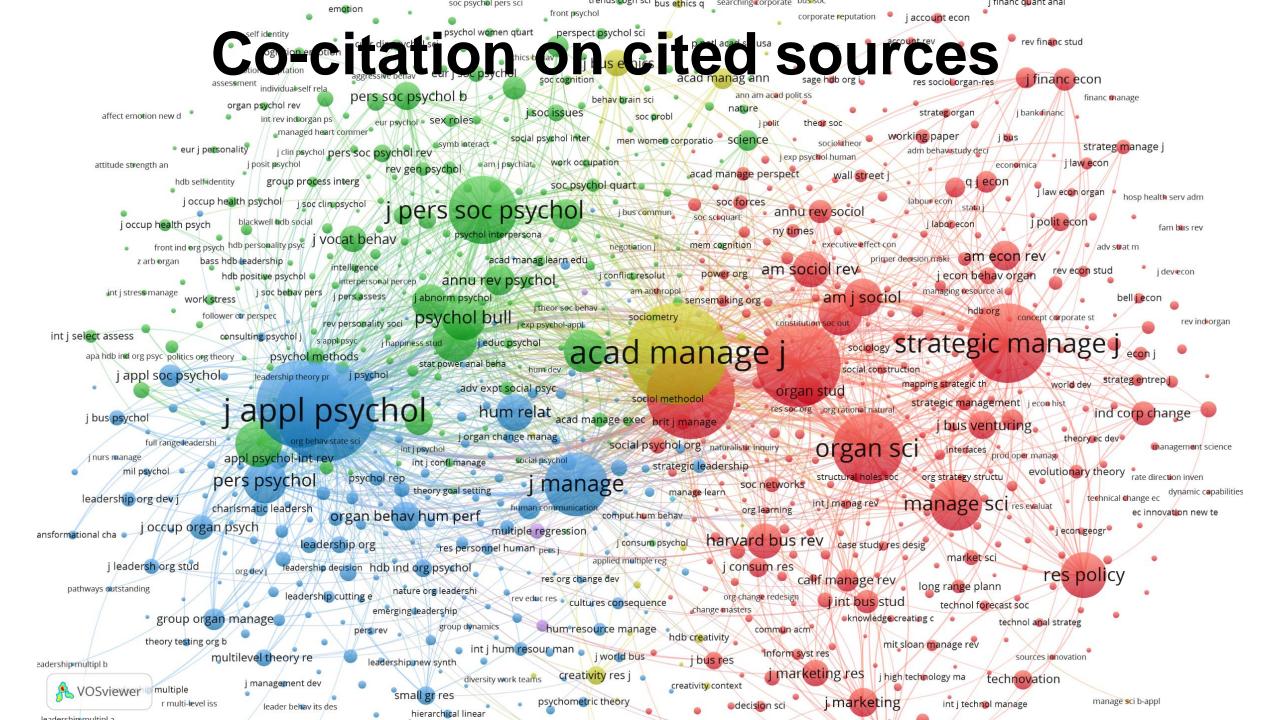
Own experiences: Innovation

- Review on innovation
- > Focus on 15 journals
- > 5000+ articles
- > All in WOS

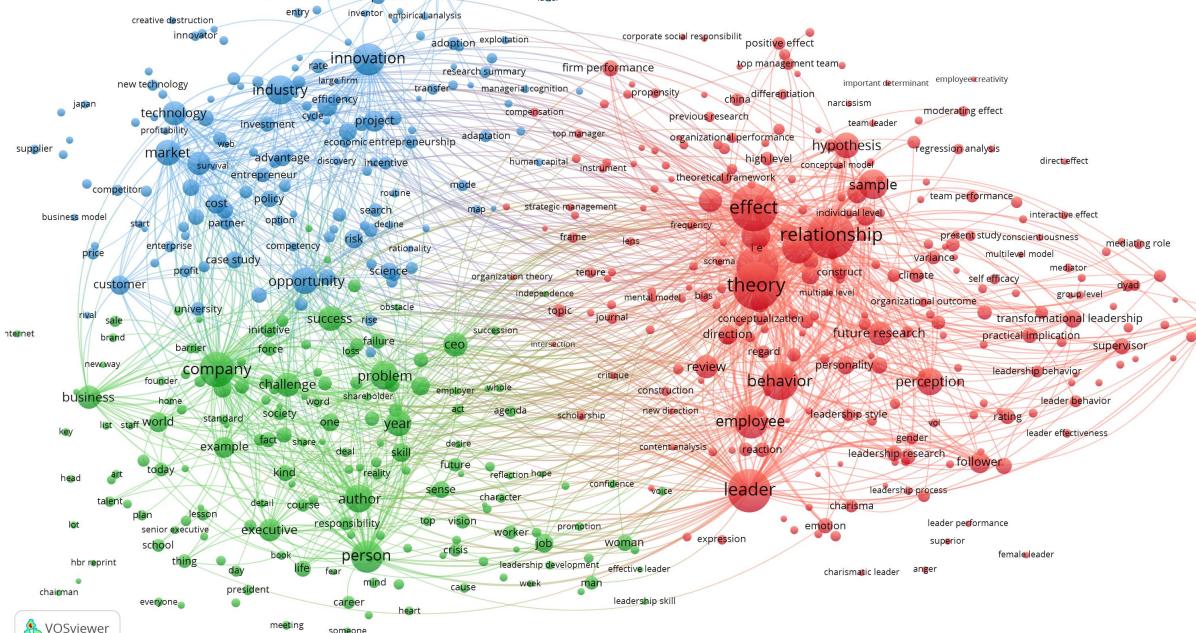
Started themself in VOSviewer





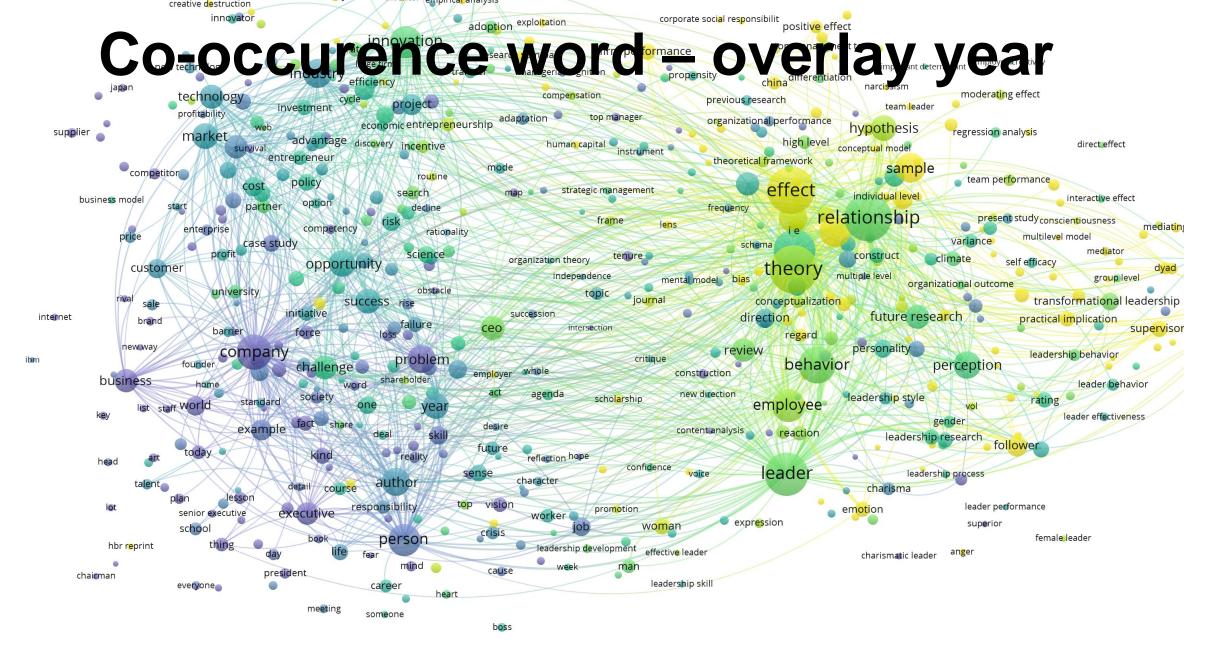


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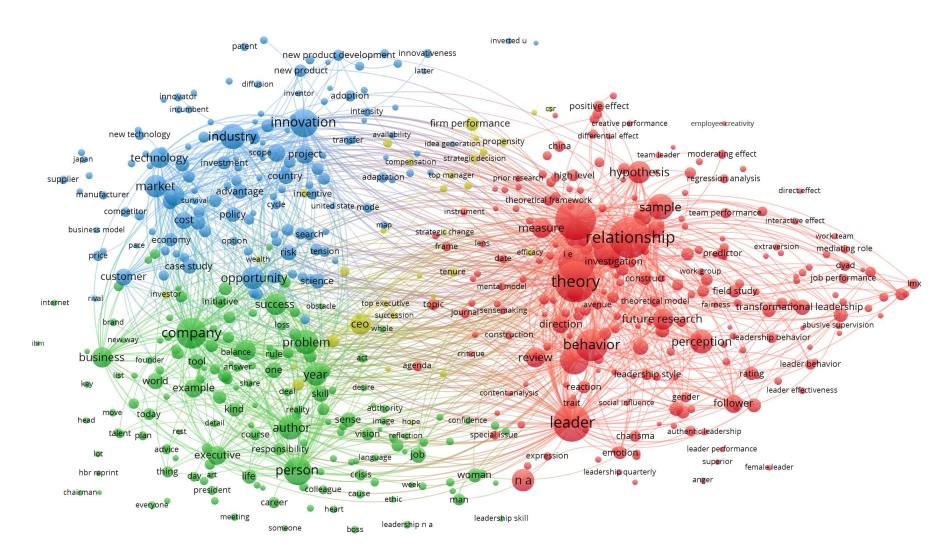
boss





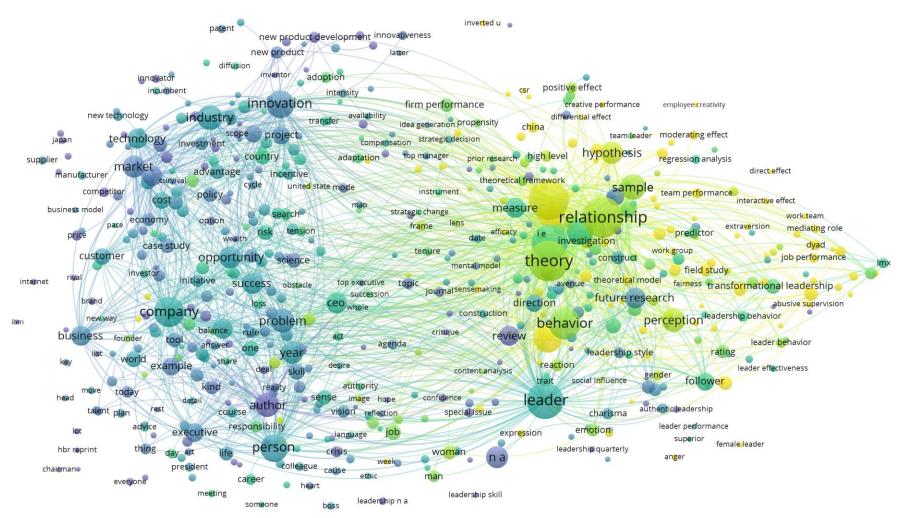
2006 2007 2008 2009 2010

Analysis VOSwiever files





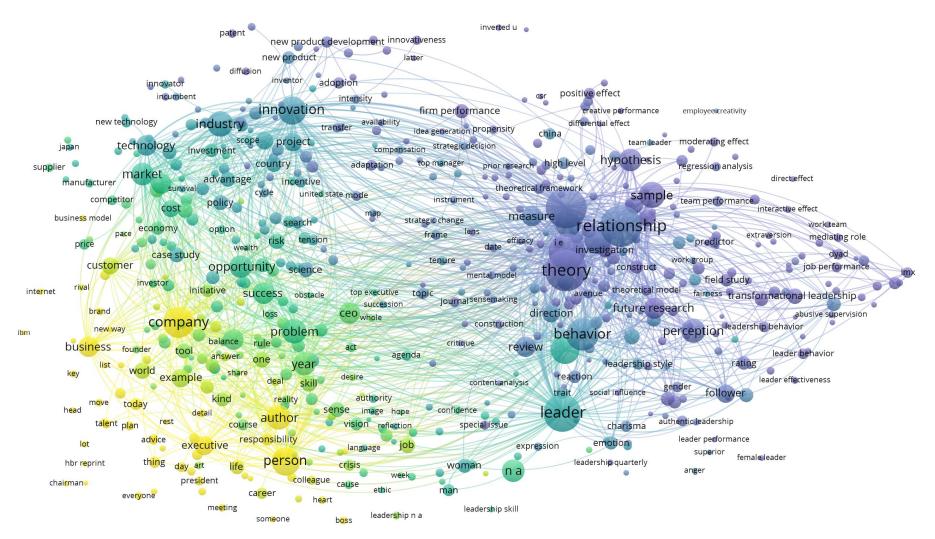
Academy of Management Journal





0.15

Harvard Business Review





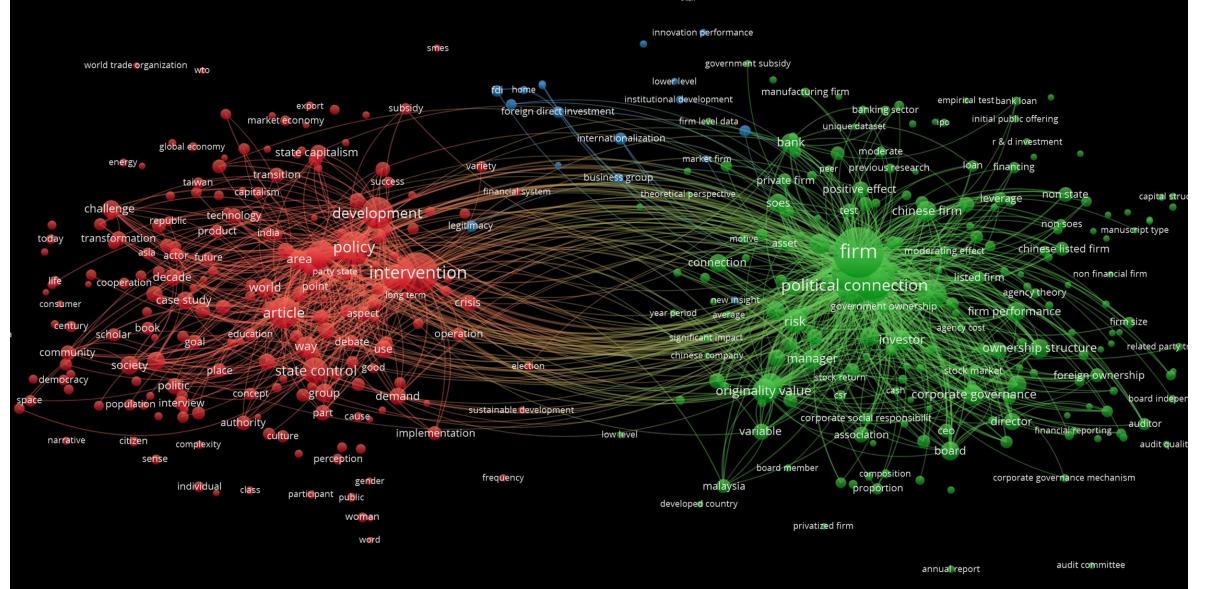
Own experiences: China search

- State Capitalism+ & strategy
- ➤ Scopus 1531 articles 2008-
- Vosviewer ended with 26015 terms
- ➤ Map: More than 10 times, 715 terms, 60% most relevant 429





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Own experiences: small map problem

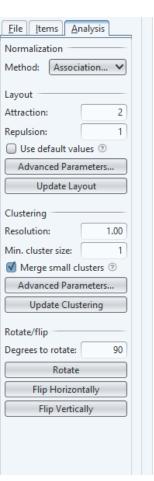
- > Small maps often look strange
- > AU, BSS researchers
- ➤ Co-authorship on authors





Co-authorship on authors

Attraction = 2, Repulsion = 1

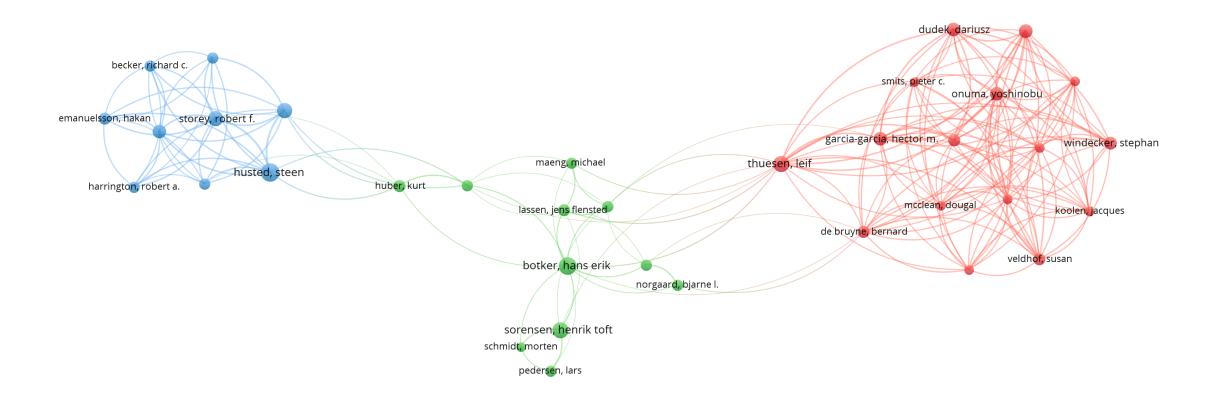






Co-authorship on authors

Attraction = 2, Repulsion = -1





Own experiences: VOSviewer teaching

- > 2 hour program (only basics)
 - >Introduction
 - >3 cases with hands on (different data)
- ➤ Positive feedback (they are critical loose control)
- ➤ Will follow up with an advanced course





What's next??

- —Work a lot with visualizations
- —Develop our compentences (long term)
 - -Text mining, API, Python, AI, ML (time consuming)
- -OPERA





OPERA - Open Research Analytics

- > Open Science, Open Science metrics, Humanities and Social Science
- https://deffopera.dk/
- > WP3: Network analysis and visualization
- > Fantastic workshop with Dimensions and Python





OPERA - partners

- > Cornel University
- > CWTS Centre for Science and Technology Studies, Leiden
- > Technical University of Delft
- > TIB Technische Informationsbibliothek, Hanover





What's important??

—Contact to researchers

-INCONECSS





Final comment

Mikael Laakso

If you ask the right question – you get the right answer

Visualizations might not give you answers – but i helps you ask the right questions







- Questions
- > Comments