The SEO effect.



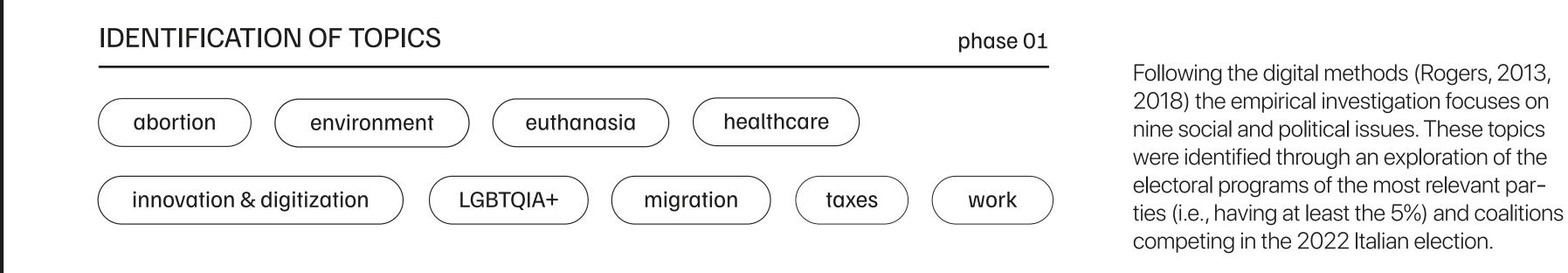
Mapping the optimized landscape around controversial policy issues in Italy

Abstract

This research investigates the use of search engine optimization (SEO) by political and non-political actors to amplify the visibility of search engine results. While there has been much theoretical speculation around the role of SEO techniques in boosting the ranking appearance of a website, few empirical studies have been undertaken to understand the extent to which SEO techniques are used to promote visibility online. This study takes Italy as a case study to map the information landscape around nine highly controversial issues during the Italian electoral campaign of 2022. Using a combination of digital methods and a tool detecting optimization in websites, our article aims at examining which actors employ SEO techniques to foster the circulation of their ideas and agendas around hot topics. Our analysis reveals that information channels, institutions, and companies are predominant, while political actors remain in the background.

Contextually, data indicate that SEO techniques are employed by several recurrent editorial groups, company owners, and institutions. Ultimately, we discuss the impact of SEO techniques on the circulation and visibility of information around relevant policy issues, contributing to shaping and influencing public debate and opinion

Methodology



KEYWORDS EXTRACTION

ANALYSIS: KEYWORDS AS QUERIES

innovation & c abortion environment euthanasia healthcare

 \downarrow keywords e.g. :

" pro life "

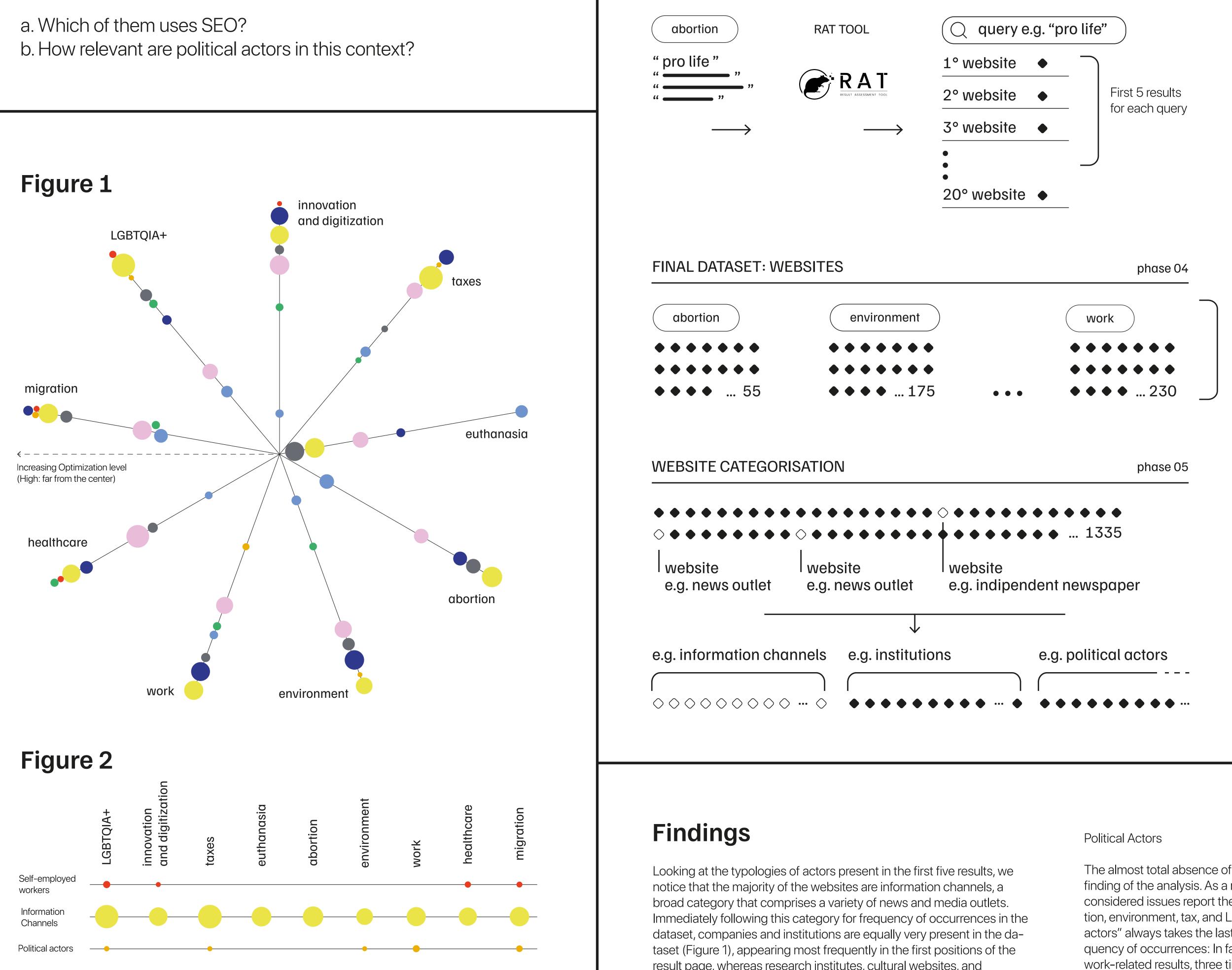
phase 02

For each topic: a list of relevant keywords was formulated

either one word or more than one (see Supplementary Material), which were manually extracted from said programs.

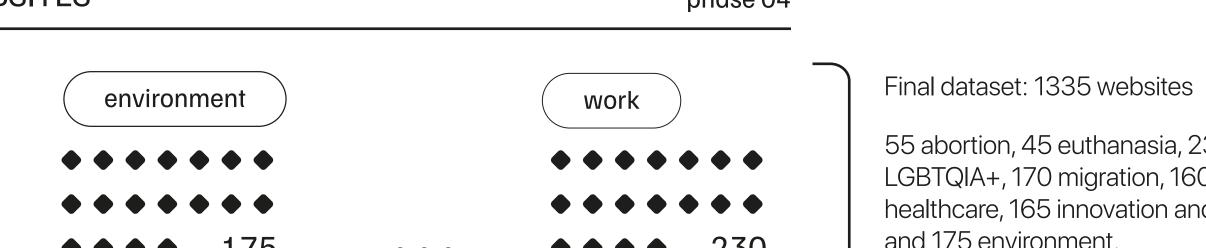
Research questions

Which actors appear in the first positions when searching for key policy issues of the Italian political elections?



phase 03

The keywords were then used as queries on software (RAT) developed by the Hamburg University of Applied Sciences (HAW Hamburg), simulating a search on Google. The output is a file including the following data: the input query, the link of the website, the position of the website in the ranking (from 1 to 20), and the probability of optimization. The analysis was limited to the first five results for each query, deeming them to be the most visually prominent on the Google result page and, thus, most likely to be seen (and visited) by users.



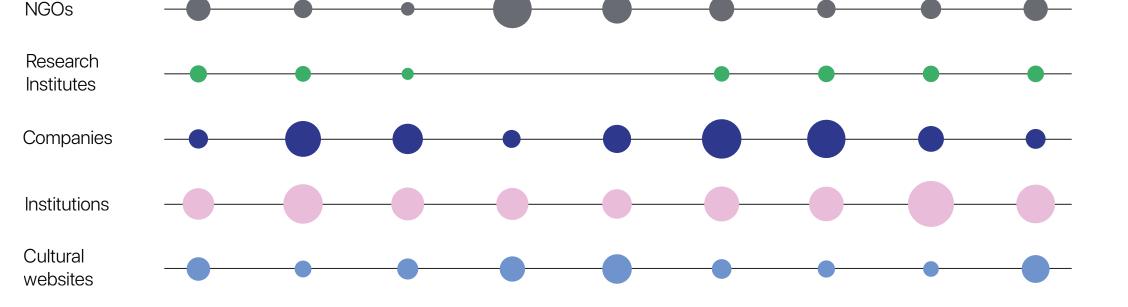
55 abortion, 45 euthanasia, 230 work, 130 LGBTQIA+, 170 migration, 160 taxes, 205 healthcare, 165 innovation and digitization, and 175 environment

The coding process involved iterative rounds of individual coding and collective discussion, the categories were not decided a priori but emerged deductively from the data, following the principles of ethnographic content analysis (Altheide, 1987; Caliandro and Gandini, 2016).

They are information channels, cultural institutions, research institutes, companies, political actors (including both pages of parties, coalitions, or individual leaders), institutions, and NGOs.

result page, whereas research institutes, cultural websites, and political actors were less significantly present.

The almost total absence of political actors is perhaps the most relevant finding of the analysis. As a matter of fact, only five out of nine of the considered issues report the presence of political actors: work, migration, environment, tax, and LGBTQIA+. Moreover, the category "political actors" always takes the last position of the players, ranked for the frequency of occurrences: In fact, political actors appear three times in work-related results, three times in the migration dataset, and one time each for the remaining searches - environment, tax, and LGBTQIA+.



It was also found that, with few exceptions (e.g., cultural websites), these categories of actors have most likely implemented search engine optimization strategies to climb to the top of the Google search result page.

Nonetheless, we can observe that political actors have a prominent role with respect to their position in the page result ranking. In addition to websites, social media pages were found in the dataset. Looking at the optimization probability level, we can observe that—with the sole exception of the website of the Democratic Party—the rest of the political actors have been classified as being probably optimized.

SOURCE (COLOR) - FIG 1, 2

Companies	Information Channels	Self-employed workers	Political actors
Cultural websites	Institutions	NGOs	Research Institutes

APPEARANCE - FIG 1, 2 (DOT DIMENSION)

Minimum appearance in Google Results 0



(DOT DISTANCE FROM CENTER) Far from the center: Near the center Far from the center:

LEVEL OF SEO OPTIMIZATION - FIG. 1

LOW Optimization HIGH Optimization HIGH Optimization

References

Altheide, D. L. (1987). Reflections: ethnographic content analysis. Qual. Sociol. 10, 65–77. doi: 10.1007/BF00988269

Caliandro, A., and Gandini, A. (2016). Qualitative Research in Digital Environments: A Research Toolkit. London: Routledge. doi: 10.4324/9781315642161

Lewandowski, D., and Schultheiß, S. (2022). Public awareness and attitudes towards search engine optimization. Behav. Inf. Technol. 11:376. doi: 10.1080/0144929X.2022.2056507

Lewandowski, D., Sünkler, S., and Yagci, N. (2021). The influence of search engine optimization on Google's results: a multi-dimensional approach for detecting SEO," in 13th ACM Web Science Conference 2021, New York, NY: Association for Computing Machinery, 12–20. doi: 10.1145/3447535.3462479

Rogers, R. (2013). Digital Methods. Cambridge, MA: MIT press. doi: 10.7551/mitpress/8718.001.0001

Rogers, R. (2018). Aestheticizing Google critique: a 20-year retrospective. Big Data Soc. 5, 2053951718768626. doi: 10.1177/2053951718768626

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The Supplementary Material for this article can be found online at: https://www.frontiersin.org/articles/10.3389/fsoc.2023. 1144669/full#supplementary-material

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