UNCONVENTIONAL VOICES Alternative Media Trends in Europe and the US





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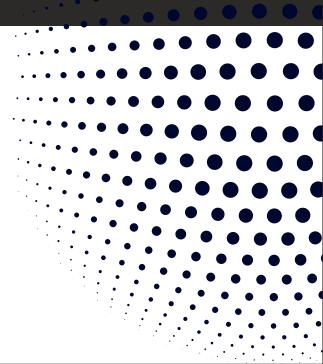
Unconventional Voices: Alternative Media Trends in Europe and the US

Table of Contents

| Summary | 4 |
|--|----|
| Methodical note | 7 |
| Challenges in defining alternative media outlets | 11 |
| Results | 14 |
| Study One: User profiles: Consumers of alternative media outlets & social media platforms | 15 |
| Alternative media outlets | 16 |
| Social Media Platforms | 22 |
| Study Two: <i>Alternative media outlets</i> : communication strategies on Facebook and Twitter | 26 |
| Content Type | 27 |
| User Engagement | 29 |
| Communication Style | 32 |
| Content Analysis | 39 |
| Content Analysis by Country | 43 |
| Appendix | 62 |



Summary



The digital age has given citizens access to an unprecedented abundance of news sources. Next to traditional media, so-called alternative media outlets are now readily available online. At the same time, these outlets and other actors can make use of social media platforms to disseminate their content directly to their users. THREATPIE assessed these non-traditional media environments with two studies: a survey addressing alternative media use in 18 countries and a content analysis of Facebook and Twitter communication strategies of selected alternative media outlets in these countries in 2021 and 2023.

Key findings

ALTERNATIVE MEDIA USERS:

- In total, around 42% of the respondents report using alternative media. News sources of that kind are most popular in Greece, Romania, Spain, and Sweden. On the other hand, these are least popular in Belgium, Germany, and the UK.
- The majority of alternative media users report using both left-leaning and right-leaning outlets.
 - On average, alternative media users tend to be male, younger, more right-leaning, and more politically interested than non-users.

SOCIAL MEDIA USERS:

- Facebook and Facebook Messenger are widely used across most countries while Telegram was consistently the least popular service.
- Significant variations in platform popularity can be observed across countries: For example, Facebook and Facebook Messenger are less popular in German-speaking countries than in the rest of our sample. Conversely, WhatsApp is more popular in German-speaking countries but is less widely used in Nordic countries.
- Facebook users are predominantly female, younger, and more interested in politics.
- X/Twitter users share most characteristics of Facebook users, except being predominantly male.

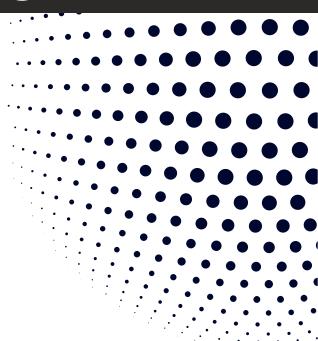
CONTENT AND STYLE:

- The social media content posted by alternative sources and actors is vastly dominated by links to other sites and generally consists of shorter (graffiti-style) messages. Yet, user engagement is on average higher for posts that include photos, videos or consist of longer text..
- With regard to style, rhetorical questions are most frequently used, and emojis are used the least frequently. User engagement is the highest for rhetorical questions.
- In terms of topics, references to political institutions and government actors, the COVID-19 pandemic, and law and order were most prominent in 2021; By 2023, the war in Ukraine was the most frequently mentioned topic.





Methodological note



The report builds on the two studies focusing on non-traditional media ecosystems. The first study originates from a representative survey but for the purpose of this report focuses on the users of 'alternative media' in 18 countries. The second study is based on traced data from social media profiles provided by Sotrender and focuses on the evolution of online discourse between 2021 and 2023.¹ The data are gathered from popular non-traditional or nonmainstream ("alternative media") outlets identified for this study (full list in Appendix²Table A11).

Study One

The survey data come from an online panel run in all countries on a representative sample (N=1500, except for Belgium and Switzerland N=1000). The fieldwork was coordinated and conducted by Kantar/Lightspeed between May 3 and June 24, 2022. Quotas on sex, age, and education were applied to ensure accurate estimations of the populations of interest.

Alternative media use as a source of information

The respondents were asked the following question: "Aside from traditional or mainstream news media, some people use alternative media. How often do you use alternative media, as listed below, to inform yourself about politics?" They could select from two separate items: "Politically left-leaning news outlets," and "politically right-leaning news outlets." For each, the frequency of use was assessed using a nine-point scale going from "Never" to "7 days a week." The responses were recoded into a binary variable where 0="Never use alternative media" and 1="use alternative media."

Usage of the social media platforms

The respondents were asked about their use of social media platforms with a simple question: *"How often do you use the following social media platforms? Note that this refers to your general use of these platforms, not just news use."* A follow-up question measured platform-specific use for the following apps: Facebook, Facebook Messenger, Twitter, Instagram, YouTube, WhatsApp, and Telegram. Respondents could assess their usage of each by saying that they "Do not have an account," "Have an account but never use it," or by their frequency of use using the following items: "Monthly or less, Weekly, Daily, or Several times a day." Respondents who did not use their account were recoded into "0" and others were recoded into a"1."



^{1 2022} is omitted on purpose as the results were strongly skewed by the war in Ukraine. Data for 2023 represents the period till July for Twitter, due to data access restriction.

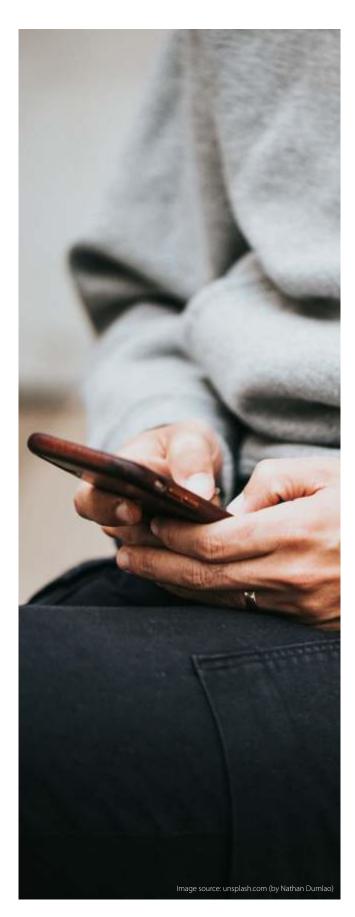
² The list was completed at the end of 2020, so it is possible that some of the outlets changed their character.

³ Sotrender (www.sotrender.com) is a research company specializing in social media analytics, founded by experienced social researchers from the University of Warsaw.

Study Two

The traced data study focuses on a comparative analysis of communication on social media platforms, particularly on Facebook and Twitter/X. The project covers 18 countries and spans the period of 2021 and 2023. The study followed the Facebook and Twitter/X profiles of 137 alternative media sources, 53 of which were present on both platforms. A full list is provided in Table A11 in the Appendix, indicating also the activity of the profile and engagement from users. This list is not exclusive, but it is a dynamic mapping of the alternative media outlet environment.

The study aims to delve into various aspects of media communication, focusing on the impact of content type, communication style, and overall content of media profiles. The data is provided by <u>Sotrender</u>.³



3 Sotrender (www.sotrender.com) is a research company specializing in social media analytics, founded by experienced social researchers from the University of Warsaw.



Analytical Axes:

CONTENT TYPE

Analyses of content type (Link, Video, Photo, Text only) as the strategic communication choices employed by profile owners. Determining post category is quite difficult, as the content may be mixed (for example Photo with Text).

THE RELATIVE INTERACTIVITY INDEX (RIni)

RINI is a proprietary metric developed by Sotrender and widely used since 2011 to measure relative user activity per post on Facebook. RINI indicates user engagement (reactions, shares, comments) rate per 1,000 fans of the page. The mean RINI allows to measure which post types receive the highest levels of response from the audience.

COMMUNICATION STYLE

Post Length

Posts are divided into six categories: No text (0 characters); Very short text (1 - 25 characters); Short text (to 499 characters); Average text length (to 999 characters); Longer text (to 4 999 characters); Very long text (more than 5 000 characters). Posts may contain different types of content (e.g., Photo with Text), here we control for the length of text irrespective of other content elements.

Signs

Profile owners may decide to use additional punctuation signs in their communication, often to enhance engagement or to intensify the emotional dimension of a post. We analyze four different elements: [?] Rhetorical questions intended to make the recipient further reflect on a topic; [!]

Exclamation points intended to attract the attention of usersor to emphasize the importance of the content published;

Emojis used to attract the attention and interest of users; [#] Hashtags, meant to provide easier further engagement with conversations on related topics.



Content Analysis

Natural Language Processing (NLP) analyses of post content using the following procedure: non-English content is translated into English using the Google language mode, the content is simplified through lemmatization (nouns, adjectives, and proper names are kept), the content is screened for key topics. Additionally, network maps of the most popular themes are created using network analysis methods and igraph. The size of nodes reflects the number of occurrences, and links show positive correlations between keywords. Unconventional Voices: Alternative Media Trends in Europe and the US

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Challenges in defining *alternative media outlets*

Determining the scope and nature of "alternative media outlets" is a difficult task that has led to a plethora of answers. Alternative news media are typically contrasted with mainstream news media. The phrase 'mainstream media' generally refers to news sources that are both perceived as hegemonic and congruent with one another in terms of news coverage, framing, audience, and even tone or journalistic values. Mainstream media regularly battle against the presumption of liberal bias. The presumed homogeneity of mainstream media, and their promotion of dominant societal views, contrasts with the more diverse set of sources that have been labeled as alternative.

In the US, the term "alternative media outlets" has become quasi-synonymous with partisan, or right-wing media. However, this view is relatively narrow, as the concept has also been more broadly construed to include outlets that supply more diverse content to their audience, irrespective of ideology. This diversity may manifest itself through more heterogeneous news agendas, or greater visibility given to more diverse voices. Alternative media outlets may also be characterized by a different emphasis placed on journalistic norms and values. In the best cases, this may include investigative journalism, or open publishing journalism that may offer counter-narratives to mainstream news. On the other hand, this difference in journalistic norms may lead to the spread of democratically corrosive or unsubstantiated content.

The distinction between alternative and mainstream news media is multifactorial. It may be contingent on national contexts, and the label "alternative" may capture several ways that a media can depart from the media that are perceived as dominant in a given country. Alternative media are defined not just by editorial orientation but also by news content, distribution, and audience engagement.

While the editorial orientation of a given news outlet can be more or less evident, <u>research by scholars from the</u> <u>University of Antwerpen</u> finds systematic differences between left-wing and right-wing alternative media. Left-wing alternative media stand out from mainstream news for giving voice to a greater set of societal actors, often from civil society, but they do not always stand out in terms of ideological radicalness. On the other hand, right-wing alternative media may focus on giving more exposure to radical right-wing voices, with less concerns for societal representation.

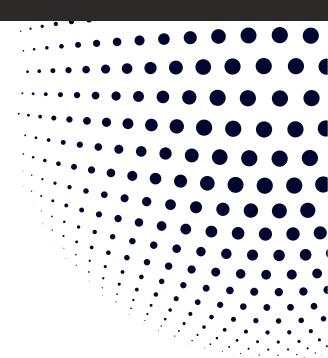
Distribution is often a key feature of alternative media outlets. The flexibility that the internet and social media platforms offer plays a large role in their reputation of independence from mainstream news. This perception may be the result of the more horizontal or participatory nature of online media, but also of their more dysregulated aspects. With less stringent control over who can publish and what can be published online, online media may lower barriers to entry to a wide range of viewpoints, including those marginalized or simply ignored by mainstream news.

In this report the 'alternative media' are used for the ease of describing a variety of outlets that depart from mainstream media in different ways. The report employs data from Facebook and Twitter profiles of more than 130 alternative media outlets (there is no data from any traditional or mainstream media outlets). This includes platforms focusing on investigative journalism and independent reporting, partisan media that offer ideologically slanted content (e.g., conservative bias in France's Valeurs Actuelles or progressive bias in Daily Kos in the US), conspiratorial or alternative narratives (e.g., Epoch Times in Romania and the US, or ExpressZeitung in Switzerland), sensationalist or tabloid-style reporting (e.g., okdiario.com in Spain, or AC24cz in the Czech Republic), New Age or spiritual topics (e.g., Vēk Svētla in the Czech Republic, or Segnidalcielo in Italy), economic analysis with distinctive viewpoints (e.g., Alternatives Économiques in France, or Deutsche Wirtschafts Nachrichten in Germany), and cultural, satirical, unionist, or otherwise niche media (e.g., המקום הכי חם בגיהנום in Israel for cultural). These alternative media sources often provide distinct perspectives, serving as a counterpoint to the mainstream media's coverage of events and issues, and catering to audience segments with specific interests or viewpoints.





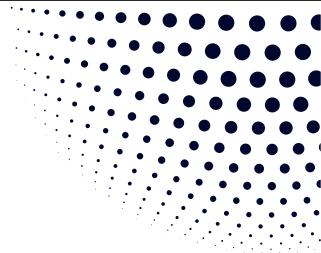
Results





Study One

User profiles: Consumers of alternative media outlets & social media platforms



The popularity of alternative media outlets is difficult to measure due to issues with defining their scope, but also country or regional differences.

In the countries under investigation, 42% of respondents declared using alternative media outlets. In

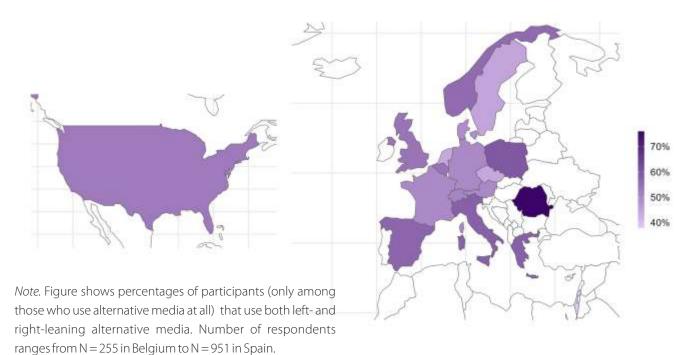
Greece, Romania, and Spain non-mainstream media appear more popular, with 60% of the population declaring using it. Alternative media were least popular in Belgium, Germany, and the UK with only 25 % of respondents reporting to use such outlets (Figure 1).

Figure 1

Percentage of alternative media users per country



Focusing only on those participants who stated to use alternative media, around 50% of them declared to use *both* left-leaning and right-leaning outlets. However, there are differences between the countries included in the study (Figure 2). A comparatively high percentage of alternative media users using both left-leaning and right-leaning outlets were found in Romania at 76%. This behavior is less common in Israel, for example, with only 38% of respondents using sources from both sides of the aisle.



Percentage of alternative media users that use both left-leaning and right-leaning sources

Using alternative media from only one side of the political spectrum is a less common behavior among our respondents. On average, only 20% report using only left-leaning alternative media outlets; 27% of respondents consume only right-leaning alternative media sources.

Focusing on individual countries, the highest share of respondents using only left-leaning sources was found in Austria, Germany, and France with around 30% of respondents in each country (Figure 3). Using only right-leaning outlets was most common in Czech Republic, the Netherlands, and Israel, with up to 51% of respondents (Figure 4).

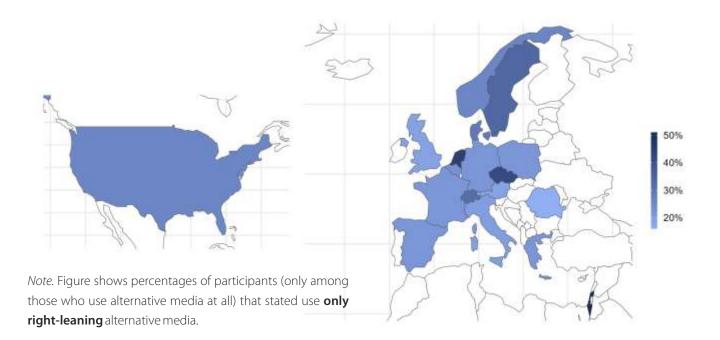


Note. Figure shows percentages of participants (only among those who use alternative media at all) that stated use only.

Percentage of alternative media users that use only left-leaning media

Figure 4

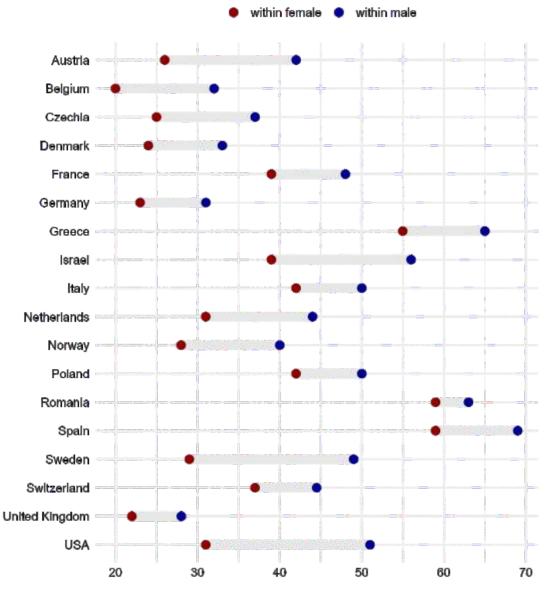
Percentage of alternative media users that use only right-leaning media

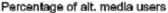


Alternative media users can further be described in terms of certain socio-demographic characteristics. As Figure 5 indicates, alternative media users are predominantly male across all countries under study. However, the gender gap in alternative media users varies across countries ranging from 20 percentage points in the US to only 4 percentage points in Romania.

Figure 5

Gender differences in alternative media users per country (%)





Moreover, with a mean age of 40, alternative media users tend to be younger than non-users (mean age: 43) (Figure 6, left panel). This trend was found in the vast majority, with the exception of Czech Republic and Greece.. However, the difference in mean age between alternative media users and non-users is only statistically significant in a handful of countries (Israel, Netherlands, Romania, UK, and the US, please see Appendix).

In terms of political leaning, users of alternative media lean more to the right than non-users (Figure 6, center panel). Again, this finding is consistent across most countries. In the few cases where alternative media

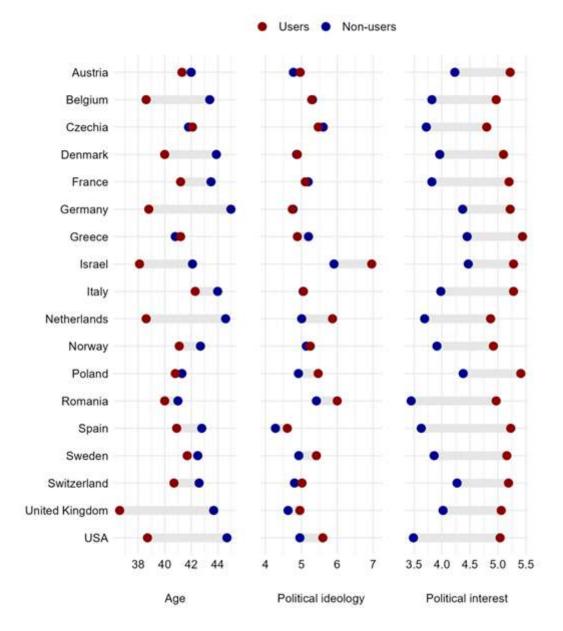


users lean to the left of non-users (Belgium, Czechia, Germany, Greece, and France), the difference in political ideology between the two groups was negligible. In contrast to age, the difference in ideological leaning between alternative media users and non-users was statistically significant in most countries, with the exceptions of Czech Republic, Israel and France.

Finally, alternative media users and non-users differ significantly in terms of political interest in all countries (Figure 6, right panel). Users of alternative media describe themselves as more interested in politics, with a difference of up to 1.6 scale-points between users and non-users in Spain, Sweden, and the UK.

Figure 6

Mean age, political interest, and political ideology for alternative media users and non-users by country



Note. Age was measured in years; political ideology on a 10-point scale (0 = "left" to 10 = "right"), political interest on a 7-point scale (1 = "not interested at all" to 7 = "very interested"). Please refer to the Appendix for statistical significance of differences

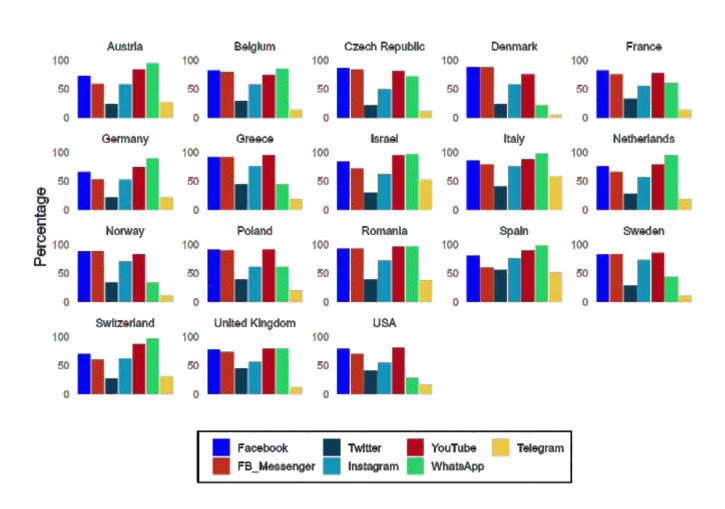
Social Media Platforms

The next section of the report presents the usage of social media platforms and messenger services in the countries under study.

Figure 7 displays the shares of participants who use each social media platform or messaging services at least once a month. While Facebook and Facebook Messenger were among the most used in the vast majority of countries, and Telegram the least popular service in all countries, there are striking differences between countries. For example, Facebook and Facebook Messenger are less popular in Germanspeaking countries, while WhatsApp is much more widely used. WhatsApp is, on the other hand, less popular in Nordic countries.

Figure 7

Percentage of users on selected social media platforms and messenger services



Note. Bars present the percentage of the social media platform in each country, indicating respondents who declared using the platform at least once a month.



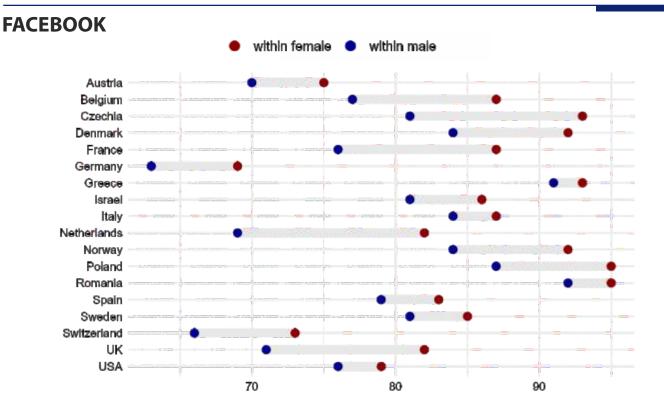
23

Turning to Facebook and X (formerly known as Twitter), we find that Facebook users are predominantly female (Figure 8). Facebook users are also younger and more politically interested than non-users in most countries (Figure 9). We find no conclusive difference in ideological leaning between Facebook users and non-users. While in some countries (e.g., Belgium, Greece, or Romania) Facebook users lean more to the right than non-users, the opposite is true in other countries (e.g., the Czech Republic, Israel, or Sweden). Overall,

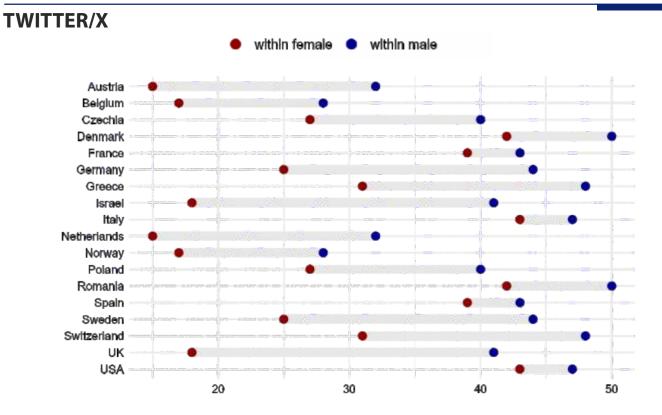
differences in political leaning between Facebook users and non-users are rather small (Figure 9).

We find very similar trends for X users in terms of age and political interest. Again, we find no consistent pattern between the 18 countries in terms of user ideological lean (Figure 10). The most striking difference between Facebook and X has to do with user gender. In contrast to Facebook users, X users are predominantly male (Figure 8).

Facebook and Twitter users by Gender per country (%)



Percentage of Facebook users

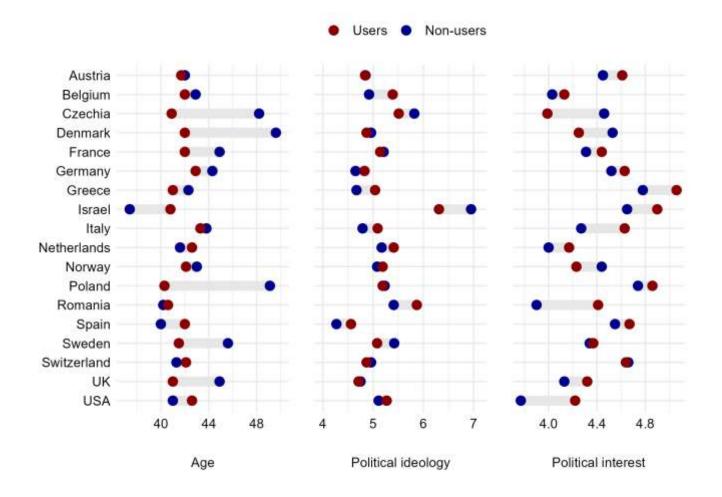


Percentage of Twitter users

Note. Bars present the percentage of the social media platform in each country, indicating respondents who declared using the platform at least once a month.

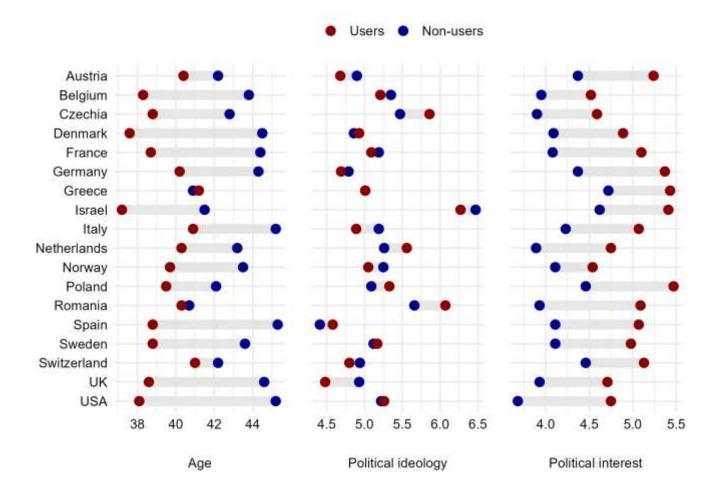


Facebook users and non-users by Age, Political interest, Political ideology per Country (%)



Note. Age was measured in years; political ideology on a 10-point scale (0 = "left" to 10 = "right"), political interest on a 7-point scale (1 = "not interested at all" to 7 = "very interested"). Please refer to the Appendix for the statistical significance of the differences

Twitter users and non-users by Age, Political interest, Political ideology per Country (%)



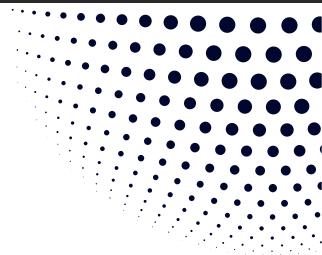
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Tables with similar statistics for Facebook Messenger, YouTube, WhatsApp, Instagram, and Telegram can be found in the Appendix.



Study Two

Alternative media outlets: communication strategies on Facebook and Twitter

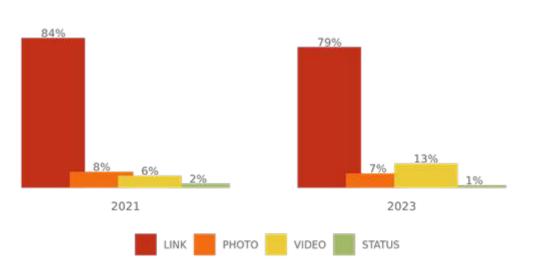


Content Type

In 2021 and 2023, Links to external content represented the majority of posts from alternative media Facebook pages, despite a five-percentage point drop in 2023 (Figure 11). On the other hand, Videos went from 8% of all posts to 13% in 2023. Status posts (containing text only) are rarely employed on Facebook.

Figure 11

Content type share (all countries)



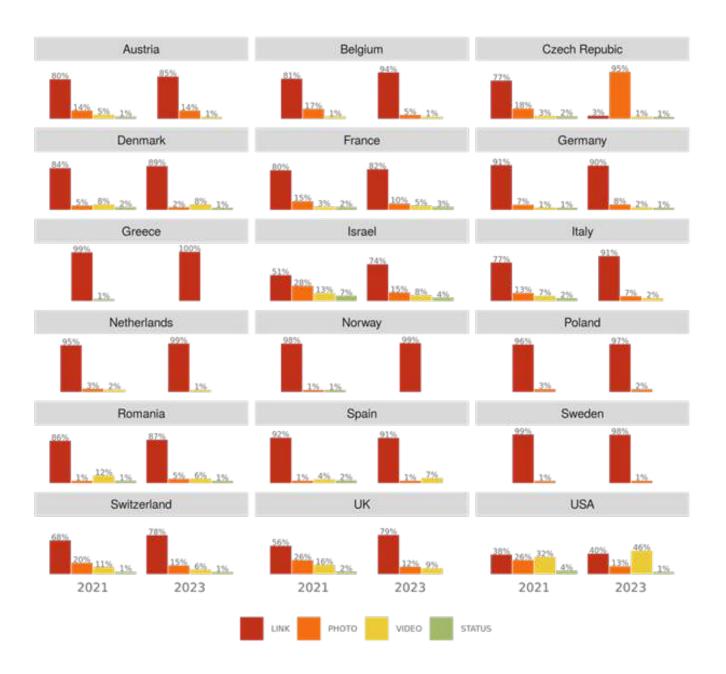
EXAMPLE

One example of how communication has changed is the UK site Guido Fawkes, which in 2021 only published content in the form of graphics, with links to articles appearing in the text. The communication strategy of this site changed dramatically in just two years, and by 2023, as much as 60% of the content published on the site was links.

Looking at the distribution of content types per country reveals interesting outliers (Figure 12). For example, in Greece, Norway, the Netherlands, Sweden, and Poland, almost all (>95%) content shared by alternative media outlets were Links to outside articles. The only country with more equal distribution of content type is the US, where Links constitute around 40% of all content, which suggests that the rest of the content (Videos 46% or Photos 13%) is specifically created for/by those nontraditional media outlets. If we consider differences between 2021 and 2023, the Czech Republic stands out for its 74 percentage-point drop in Link-based content which was associated with Photo-based content becoming dominant in 2023. We observe no such radical changes in the type of content shared for any other country, save for the increased popularity of link-based content in Belgium, Israel, Italy, Switzerland, and the UK.



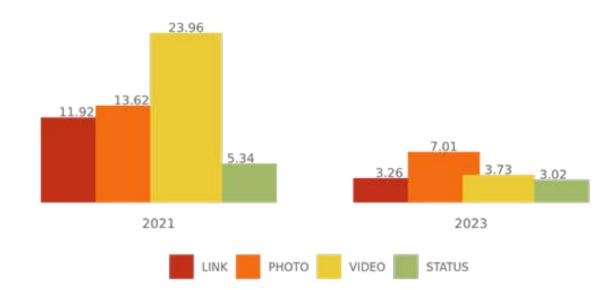
Content types share by country (%)



User Engagement

From our data, it is clear that non-traditional media outlets generated more interest and interactions with their Facebook content in 2021 than in 2023. Not only the total amount of interactions dropped between both years, but the structure of reactions across content types also changed. While Video-based content grew from 6% to 13% of all posts in 2023 (see Figure 13), mean engagement towards Video-based posts decreased drastically, from 24 to 4 of mean interactions. Lastly, photo-based content drew the most interactions in 2023, as opposed to video in 2021.

Figure 13



Mean RInI by content type







A similar drop in overall engagement with nontraditional media content is observable in almost all countries and for almost all content types (Figure 14). This decrease is most pronounced for France, Austria

and Romania. We note two exceptions: Belgium, where reactions to Video-based content increased in 2023, and the Czech Republic, where reactions to Video-based content and Text-only content increased substantially).



Source: http://www.facebook.com/53638966652/posts/10158100775476653



Source: http://www.facebook.com/53638966652/posts/10157632065061653

EXAMPLE

Video-based posts that were responsible for the highest RInI in France in 2021.

In the first post, Idriss Aberkane (controversial French essayist) criticizes what he calls 'evidence-based medicine,' questions the safety of COVID-19 vaccines, and suggests ivermectin and hydroxy-chloroquine are effective treatments against COVID-19 infections. Aberkane also makes unsubstantiated claims that the French state is the primary vector of disinformation and explains that mainstream media use the label "fake news" as a way to delegitimize and censor alternative viewpoints. He concludes that only "the people," not professional media or the elite, should be allowed to determine the facticity of information. The video concludes with Aberkane suggesting that the media have the power to deliberately choose who wins elections.

In the second video, actor Patrick Mille addresses the Minister of Economy Bruno Le Maire, and reads an open letter he wrote to President Emmanuel Macron. In his letter, Mille criticizes the government's lockdown policy by putting himself in the shoes of a financially struggling student, a restaurant owner, a domestic violence survivor stuck at home with her abuser, and others. The letter calls for reopening and concludes with a scathing criticism of the government's COVID-19 policy, denounces the lack of resources in hospitals, and the sacrifice of young people's freedoms to protect the elderly.



Communication style

Another important aspect of Facebook communication is the format of the content that gets published. In this

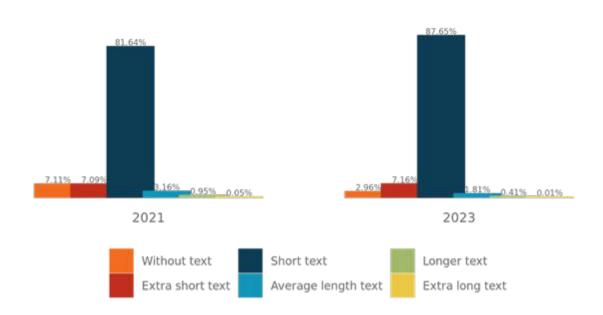
section, we examine how different aspects related to text-based posts changed between 2021 and 2023.

POST LENGTH

The vast majority of the content published is short (up to 499 characters), and their share increased between 2021

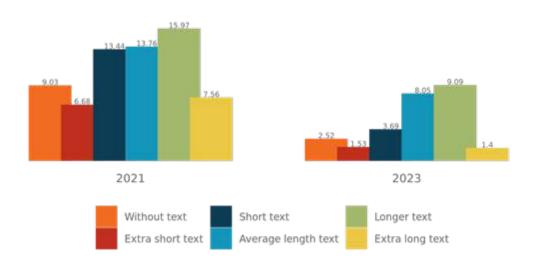
and 2023. Simultaneously, we note a significant drop in content posted without any commentary (Figure 15).

Figure 15



Distribution of content by Post length

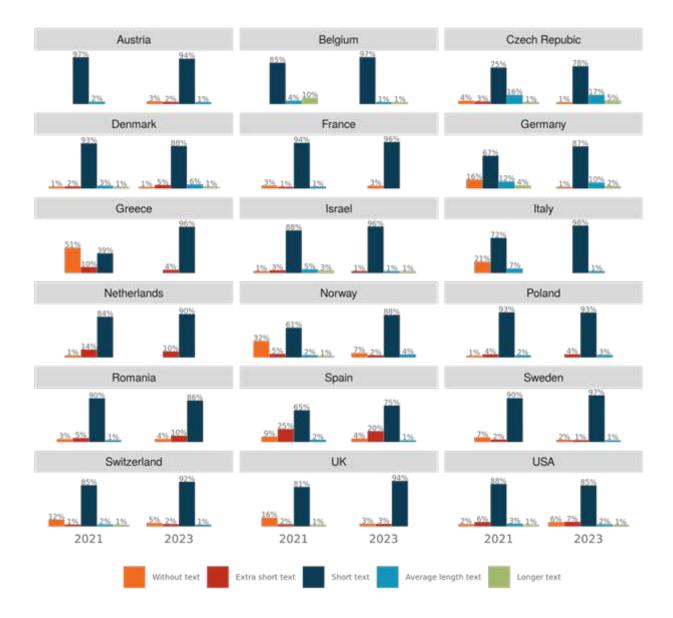
Mean RInI by post length



Focusing on engagement, we observe a sharp decline in interactions with content from alternative media between 2021 and 2023 (Figure 16). The most drastic decrease in interactions concerns posts consisting of short text–by almost 10 percentage points. This may be

reflective of a saturation with this type of content. Interestingly, the highest average engagement in both 2021 and 2023 was recorded for content between 1,000 and 5,000 characters, suggesting a real appetite for more substantive content, as opposed to graffiti-like posts.



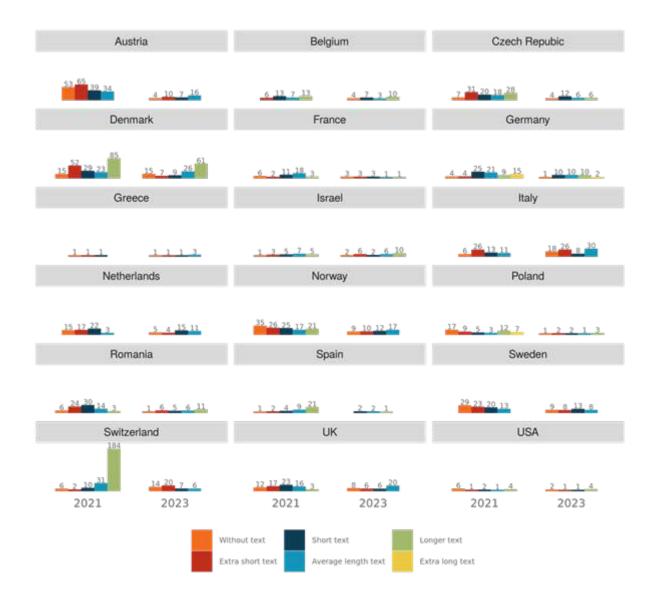


Distribution of content by Post length per Country

The results of the distribution of text length by country show an interesting configuration of the posts within countries (Figure 17). In some countries, there is no employment (or it completely disappeared in 2023) of longer, more elaborated texts (for example, in France, Greece, Netherlands, Romania, and the UK). On the contrary in some countries, longer posts remain a mode of communication (for example in the Czech Republic, Denmark, and Germany). The most significant change occurred in Greece, where, in 2021, posts were mostly without text or only with extra short text (61% were mostly links), whereas in 2023 as much as 96% of published content had a short description.

Figure 18

Mean RInI by post length and by country



Looking at mean engagement broken down by post length and by country, we observe that long-text posts proportionally garnered the greatest amount of interactions compared to other posts in Denmark and Belgium (for both years), in Spain and Switzerland (for 2021), and in Romania and Israel (for 2023) (Figure 18). In general, posts consisting of short messages also generated fewer interactions in 2023 than in 2021, except for Italy and Switzerland. Lastly, publications without textual content generated the highest engagement in Norway and Sweden for the year 2021, though this was not the case by 2023 anymore. This suggests that pages seeking higher engagement need to bet on richer content.





Source: http://www.facebook.com/1378045312483970/posts/2961229564165529

Of the posts considered, one stands out for receiving unprecedentedly high RInI, for a post with both long text and long video.

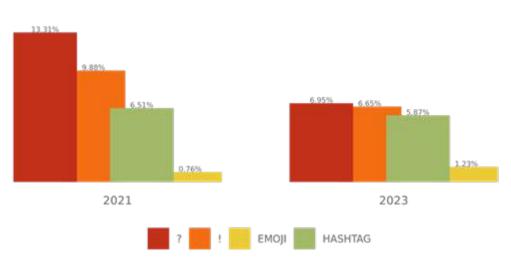
EXAMPLE

Example: In 2021, in Switzerland, one post (with more than 1,000 characters gained high engagement) accompanied by a longer ('14) video received a high engagement. The post by ExpressZeitung offers a so-called alternative guide for finding data on deaths allegedly linked to COVID-19 vaccinations. The video misconstrues an EU public database of adverse reactions and side effects and claims that thousands of vaccine-related deaths are being covered up by mainstream news. The infographics shown in the video regularly include captions saying "information not guaranteed" and "follow the facts on Telegram."

EMPLOYMENT OF SIGNS

The use of signs, emojis, and special characters provides further insights into how alternative media utilize social media to disseminate messages. In this section, we examine the prevalence of signs, emojis, and special characters in Facebook posts, and how their use influences user engagement.

Figure 19



Employment of signs

Engagement around posts containing special characters was especially high in 2021–the RInI for posts containing question marks was higher than for any other category except for posts containing videos (Figure 20).

However, while in 2021 question marks attracted the most attention from Facebook users, exclamation marks did in 2023 by a small margin.

In 2021, more than one-third of the content published

on the Facebook pages of alternative media contained

special characters with rhetorical question marks being

used the most frequently (Figure 19). By 2023, their use

had receded to about one-fifth of all the content. Emojis are the only type of special character that saw an

increase in use from 2021 to 2023.

Figure 20

Mean RInI by Posts containing signs

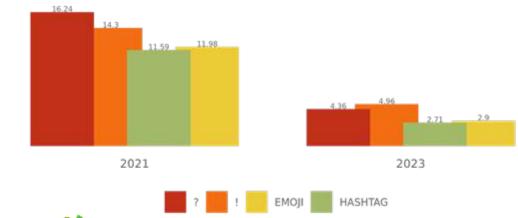
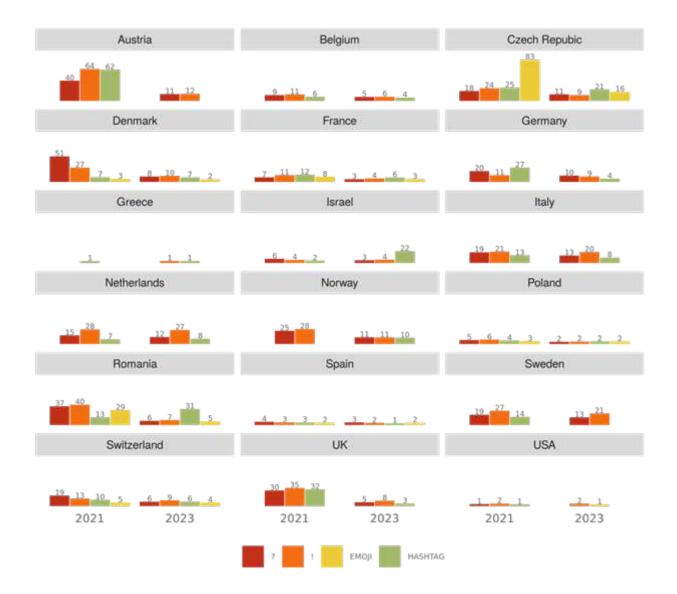




Figure 21





Examining country variations between both years reveals three tendencies: low or no change (Belgium, France, Greece, Poland, Spain, and the USA), medium change for all signs (Switzerland, Germany, Italy, Netherlands, Norway, Sweden), or a drastic change for all or some of the signs (Austria, Czech Republic, Denmark, Romania, and the UK) (Figure 21). The most change concerns the use of emojis in Czech alternative media. Posts that contain emojis had a mean RInI score of 83 in 2021. That score fell to only 16 by 2023.

Content analysis

In 2021, the most recurring words in the Twitter and Facebook posts of alternative media revolved around three clusters: political actors and institutions (e.g., minister, government, president, court), the COVID-19 pandemic (e.g., vaccinations, corona, covid, vaccine), and law and order (e.g., law, police, attack, border). In 2023, attention expectedly but overwhelmingly turned to the war in Ukraine (e.g., Ukraine, war, Russian, Russia, Poland). References to institutions and law and order remain significant in 2023, with the addition of

references to electoral contests (e.g., election, change, support, Biden). This likely reflects elections that were held in the Czech Republic in January and Poland in October, and the start of the Republican primaries in the US. Furthermore, the war in Ukraine may have prompted additional conversations around the 2024 US elections, and what a potential return of a Trump administration could mean for the resolution of the Russia/Ukraine conflict.

Figure 22

Facebook: Top 20 words in 2021 and 2023 (number of occurrences)

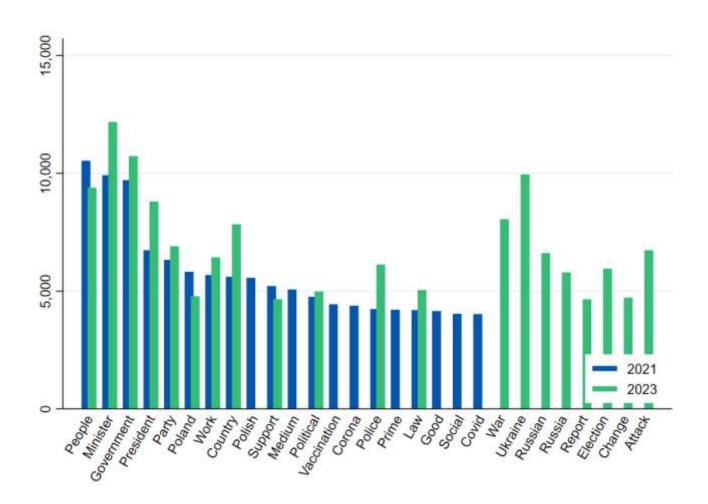
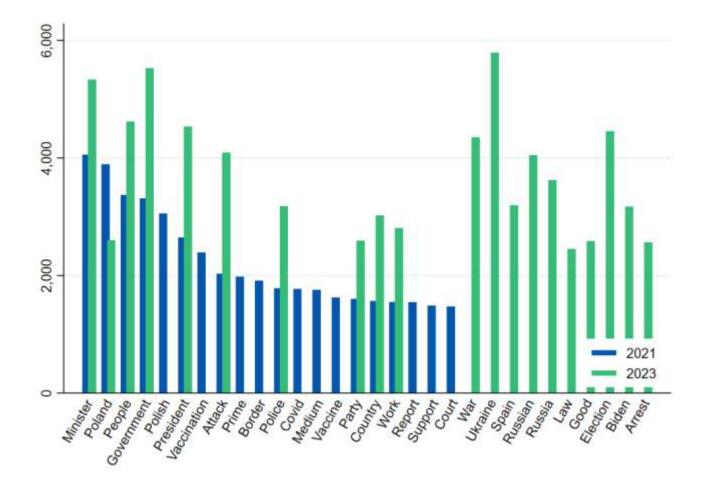
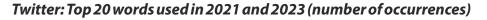




Figure 23





Conversations on Twitter did not differ substantially from those on Facebook. One difference concerns the word 'border,' which received significant attention on Twitter but is not within the top 20 words used on Facebook in 2021. References to the word "border" may be related to a border conflict involving Poland and Belarus, which started during the summer of 2021. Alternatively, it may be associated with increased stress at the southern US border. Interestingly, the word Biden only appears within the top 20 words used on Twitter, but not on Facebook, and "elections" ranks higher in the list, too.

Alternative visualization

FACEBOOK

| 2021 | 2023 |
|----------------------|--------------------|
| People | 12175 Minister |
| Minister 9919 | 10729 Goverment |
| Goverment 9705 | 9951 Ukraine |
| President | 9387 People |
| Party 6319 | 8800 President |
| Poland 5819 V | 8049 War |
| Work | 7832 Country |
| Country | 6905 Party |
| Support 5212 V | 6736 Attack |
| Medium 5063 🔻 | 6607 Russian |
| Political 4758 | 6427 Work |
| Vaccination 4440 | 6121 Police |
| Corona 4380 🔻 | 5945 Election |
| Police 4236 | 5792 Russia |
| Prime 4210 🔻 | 5042 Law |
| Law 4190 🔺 | 4981 Political |
| Good 4152 🔻 | 4785 Poland |
| Social 4037 🔻 | 4722 Change |
| Covid 4019 🔻 | 4650 Support |
| Attack | 4647 Report |
| Change 📃 📥 | – Covid |
| Report | – Medium |
| War | – Polish |
| Russia | - Vaccination |
| Ukraine — 🖊 | Prime |
| Russian 📃 🗕 | – Social |
| Election | Corona |
| | Good |

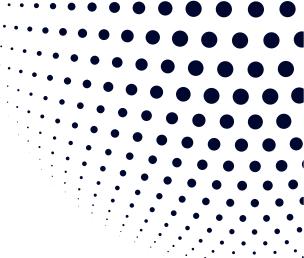
TWITTER/X

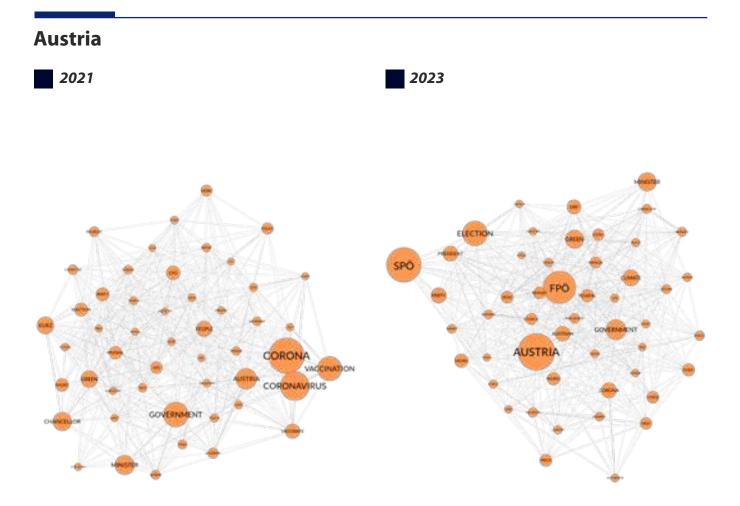
| 2021 | 2023 |
|----------------------|---------------------|
| Minister 4055 | 5793 Ukraine |
| Poland 3892 | 5526 Goverment |
| People 3371 V | 5334 Minister |
| Goverment 3313 | 4620 People |
| Polish | 4535 President |
| President 2464 | 4455 Election |
| Vaccination 2390 | 4352 War |
| Attack 2030 | 4090 Attack |
| Prime 1979 🔻 | 4046 Russian |
| Border 1912 V | 3623 Russia |
| Police 1782 | 3195 Spain |
| Covid 1770 🔻 | 3180 Police |
| Medium 1755 🔻 | 3171 Biden |
| Vaccine 1627 🔻 | 3021 Country |
| Party 1600 🔺 | 2809 Work |
| Country 1565 | 2603 Poland |
| Work 1548 🔺 | 2593 Party |
| Report 1547 🔻 | 2585 Good |
| Support 1489 | 2563 Arrest |
| Court 1471 🔺 | 2452 Law |
| Election 📃 🗕 | – Border |
| Biden 🗛 📥 | – Court |
| Law | – Medium |
| Russian | Polish |
| War 🗛 📥 | – Support |
| Spain — 🔺 | – Report |
| Ukraine | – Vaccine |
| Russia | - Vaccination |
| Arrest | – Covid |
| Good 📥 | – Prime |







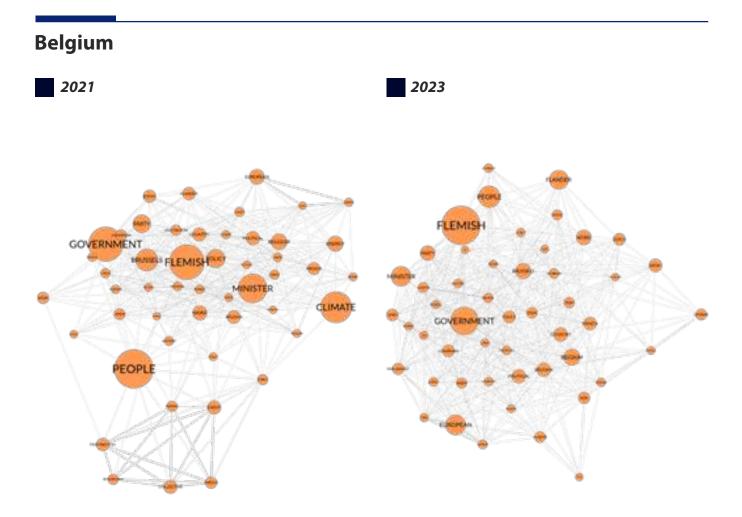




In 2021, the discussion focused on COVID-19 and vaccination, which was a contested topic at the time, with anti-vax movements and also the strongest opposition party, the FPÖ, Austria's main opposition and right-wing populist party, which campaigned aggressively against vaccinations. By 2023, conversations had shifted away from COVID-19 and focused on the internal election of a new chairman for the SPÖ, the Social Democratic Party of Austria. This gathered a lot of attention, as the FPÖ is split into two

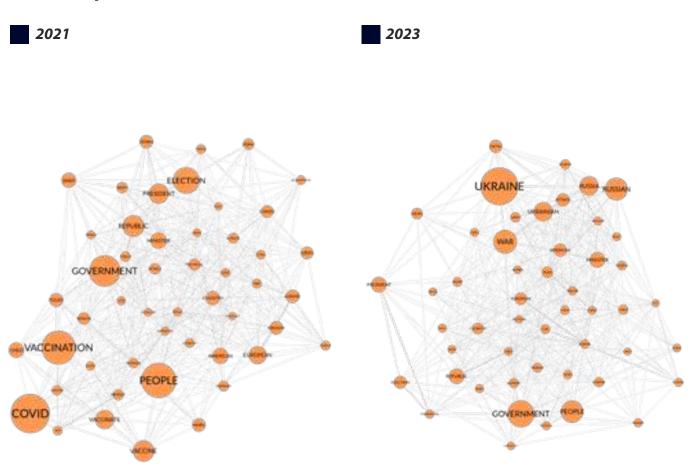
factions, a conservative wing and a more progressive wing. After announcing that the conservative candidate had won, party officials admitted irregularities in the vote count and reversed their statement on the new party leader. This led to a great deal of satire by the other parties, particularly the FPÖ. Climate change also gained prominence due to street blockades by radical environmentalists. Strikingly, echoes from the COVID-19 pandemic still gathered more attention in 2023 than the war in Ukraine.

THREATPIE 🗲



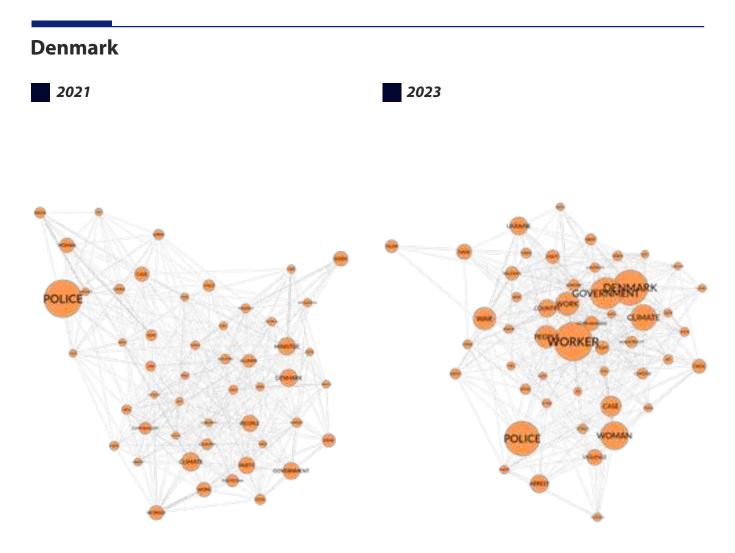
In 2021, Belgian alternative media mostly discussed government officials and institutions, climate change, and energy. Proportionally, references to the pandemic were quite modest, though references to "corona," "health," and "vaccinations" do appear. References to the war in Ukraine appear by 2023, though the topic only gathered modest attention. Similarly, references to climate largely receded between 2021 and 2023.

Czech Republic

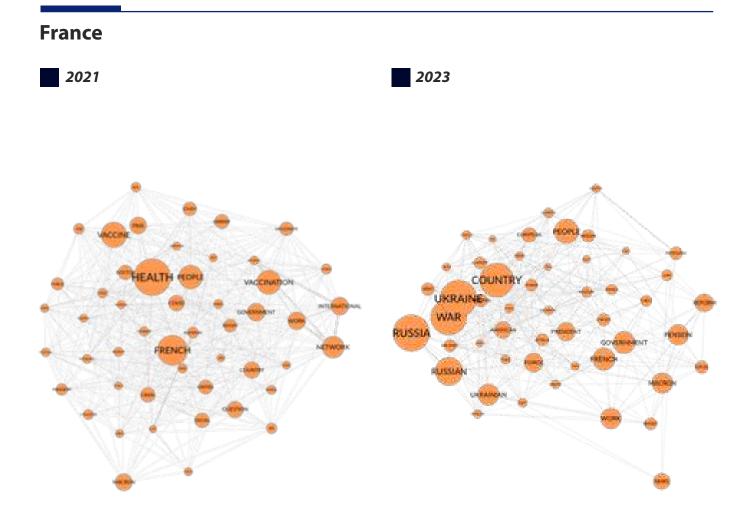


In 2021, the agenda of Czech alternative media was primarily driven by the ongoing Covid-19 pandemic, and the government's vaccination program, which was vehemently opposed by right-wing disinformation websites, especially about the vaccination of children. The October 2021 general election, which led to a change of majority, also gathered substantial attention. By 2023, the Ukraine-Russia war was the primary driver of alternative media content, with right-wing disinformation outlets adopting a pro-Russian stance, unlike Denik Referendum or Alarm, which were supportive of Ukraine.





Denmark's alternative media agenda in 2021 featured crime and law enforcement (e.g., police, arrest, prison, charge, court), climate change (e.g., climate, Copenhagen, agreement), as well as general references to political institutions (e.g., government, prime, minister, party). These topics all persisted throughout 2023, with the addition of the Ukraine-Russia war (e.g., war, Ukraine, military, defense, united). What appears from the data is that the vocabulary used to describe these topics was far more fragmented in 2021 than in 2023.



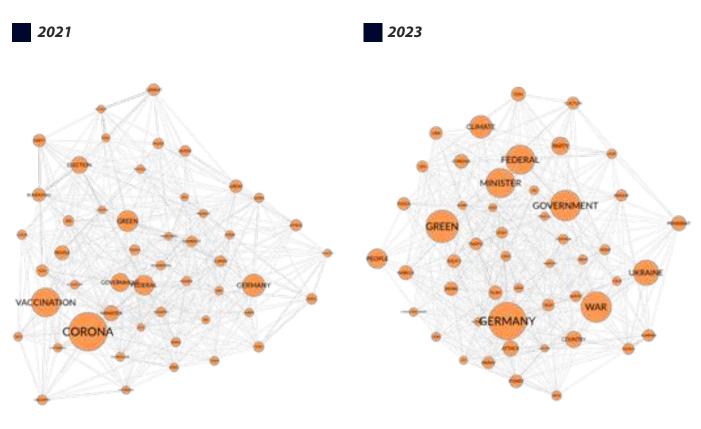
In 2021, the focal point of attention was "health," with significant emphasis on "vaccine," "COVID," and "doctor." This is indicative of the global health crisis during that period. Terms like "vaccination," "law," and "pass," suggest an important focus on health policy and regulations—in particular the government's establishing of a vaccine pass for access to various public venues. There are also references to "French," "government," and "Macron," indicating discussions surrounding the actions of the French president and government in response to the pandemic.

By contrast, the 2023 network map prominently features

two topic clusters. One gravitates around "Russia," "Ukraine," and "War," suggesting a high and sustained focus on the geopolitical tensions related to the Russian invasion of Ukraine in 2022. The terms "operation" and "West" are featured in that topic cluster. This is significant as Russian propaganda attempted to reframe the invasion of Ukraine as a mere "military operation," and to frame "the West" as the enemy. The other notable cluster gravitates around "government," "reform," "pension," and "work," which reflects the tensions and controversies around the French government's passing of its retirement pension reform.

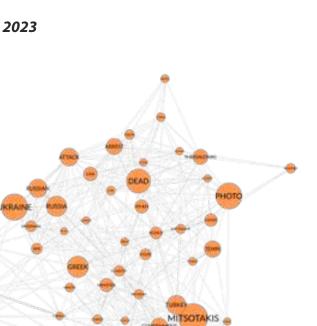






In 2021, the central and largest node was "corona," closely followed by "vaccination." This suggests the dominant topic of discussion was the COVID-19 pandemic. Associated closely with this cluster were references to "government," "federal" and "minister," suggesting significant discussions around vaccination campaigns, government responses, and public health discourse. Another important topic cluster revolves around words like "election," "green," "SPD" (Social Democratic Party of Germany) "CDU" (Christian Democratic Union), and "Bundestag," likely relating to the federal elections that took place in 2021. In 2023, a new cluster appears related to the Russian invasion of Ukraine and energy. Another important topic is climate change and the government's related policies. In addition to being anti-government, there is a tendency in both years to make a bogeyman out of the Green Party in Germany in discussions about climate change policies. Interestingly, the phrase "China Welt News" pops up in the network graph for 2023, apparently connected to terms like "energy," "economic," and "attack."

Greece

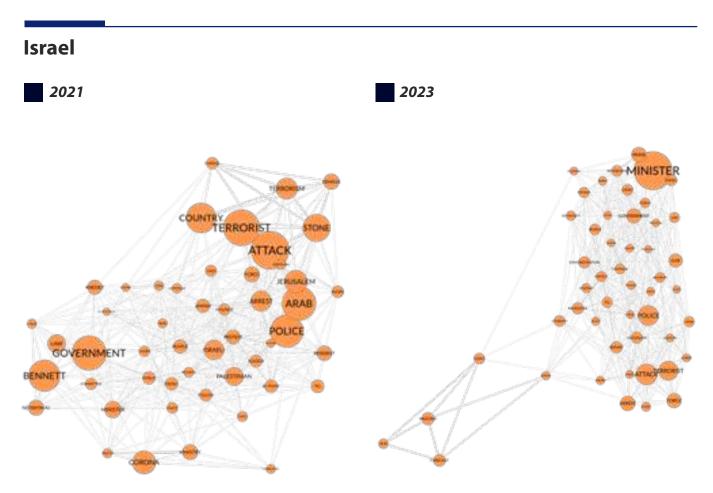


The primary cluster revolves around nodes representing references to the June 2023 parliamentary elections (e.g., election, Syriza, Mitsotakis, Tsipra, house). Another focal point is related to a train crash in the Tempe valley (e.g., Tempi, Thessaloniki, dead, tragedy). The accident cost the lives of 57 passengers. The deadliest accident involving a passenger train in Greek history, the incident exposed long-standing issues in the country's railway infrastructure. The crash triggered strong protests, vigils, and clashes with police forces, along with furious reactions from the public regarding the state of public infrastructure in the country and the state's dismissal of warnings from railway labor unions regarding safety issues. The issue reverberated throughout the year and is said to have affected the approval ratings of New Democracy, the governing party, in the 2023 legislative election. The war in Ukraine forms another cluster (e.g., Russian, Russia, Ukraine, Ukrainian, attack, war), along with economic issues (e.g., bank, Euro, European, market) and relations with Turkey, exacerbated by the magnitude 7.8 earthquake that hit Turkey and Syria on February 6.

ELECTION

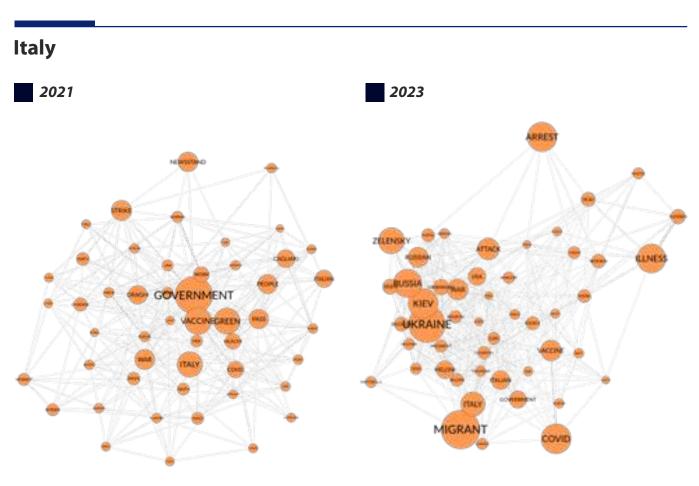






The 2021 agenda of Israeli alternative media unsurprisingly reflects the broad range of security threats that have continuously faced the country, including terrorist attacks from the West Bank, missile strikes from the Gaza Strip, and internal riots among the Israeli-Arab population (e.g., terrorist, attack, terrorism, vehicle, damage, protest, Palestinian, Gaza, violence). Two more clusters stand out. The first is related to the COVID-19 pandemic (e.g., corona, health, ministry, condition). The second is related to the 2021 Israeli legislative elections, which were held after the Knesset, Israel's house of representatives, failed to pass the 2020 state budget, prompting the dissolution of Benjamin Netanyahu's government and the establishment of a rotation government led by Naftali Bennett (e.g., government, Bennett, Netanyahu, Likud, minister, Knesset).

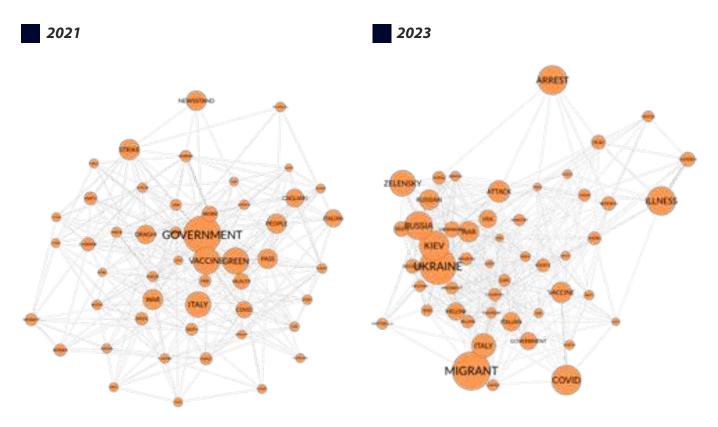
The 2022 return of Benjamin Netanyahu as Israel's prime minister is reflected in our 2023 data. References to Naftali Bennett have completely disappeared. Along with the expected references to the Israeli-Palestinian conflict, and the terrorist attacks that occurred in late 2023, our data shows a significant amount of references to Netanyahu's efforts to overhaul the national judicial system. This initiative heightened polarization and political tensions, sparking widespread civil demonstrations throughout the country and escalating conflicts between protesters and law enforcement.



The central node in 2021 was "government," suggesting high scrutiny following the 2021 elections, which led to Mario Draghi's appointment as President of the Council of Ministers after the collapse of the Conte government, and the ongoing pandemic, which had catastrophic consequences for the country's rapidly aging population in 2020. Prominent nodes feature keywords such as "vaccine," "war," "green" and "pass," referring to Italy's public health policy, which was at the time regularly described as "war-like," the government's vaccination campaign, and Italy's Green Pass. In 2023, COVID-19 remained a significant topic cluster, with references to unsubstantiated claims about the safety of vaccines (e.g., covid, vaccine, sudden, illness, dead, death, risk). Also prominent are references to the Italian government led by Georgia Melonia, who was appointed by President Matarella in 2022 (e.g., Meloni, president, Matarella), in connection to both migrants at the Italian border (e.g., migrant, arrive) and the war in Ukraine (e.g., Russia, Kiev, Ukraine, Zelensky, Putin, attack, Biden, war).

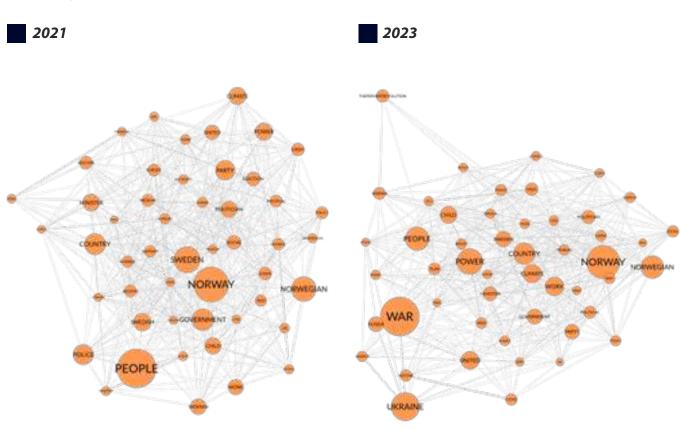


Netherlands



"Cabinet" was the central node in 2021. This node is closely associated with references to prominent political figures: "Wilder," likely referring to right-wing populist Geert Wilders; "Rutte," referring to Prime Minister Mark Rutte; "Jonge," referring to Hugo de Jonge, housing minister and short-lived leader of the Christian Democratic Appeal party; and "Baudet," referring to Thierry Baudet, far-right leader and self-declared conspiracy theorist. The COVID-19 pandemic received substantial attention as well, with a strong focus on the Netherlands' policy and related policies (e.g., lockdown, corona, policy, health, vaccination, care, Christmas). The 2023 legislative elections, which saw Geert Wilder's PVV party come in first place, garnered significant attention as well (e.g., election, government, Rutte, cabinet, prime, minister, Wilder). Interestingly, "Wilder" received less attention than "Rutte" or "Baudet," partly reflecting how unexpected the PVV's strong showing was. Another prominent topic in the agenda of Dutch alternative media was the unprecedented farmer protests around nitrogen regulation, following the government's decision to curtail emissions of nitrogen, on which large segments of Dutch agriculture rely (e.g., nitrogen, farmer, crisis). These protests were largely exploited by the Dutch far right.

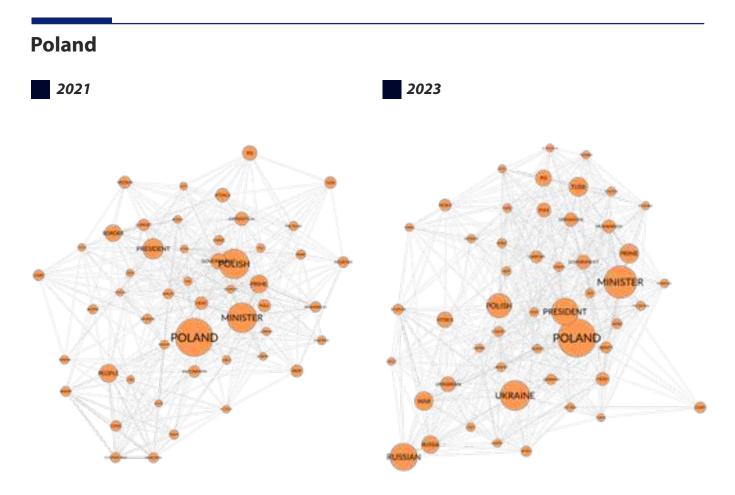
Norway



In 2021, the agenda of Norwegian alternative media included references to the September parliamentary election, which put an end to eight years of center-right rule. Several keywords make references to immigration (e.g., immigration, migrant, border, crisis). Additionally, the global pandemic gathered substantial attention, with references to vaccines, but also comparisons to Norway's neighboring country, which adopted much fewer restrictions during the pandemic (e.g., vaccine, Swedish, Sweden, Norway, crisis).

Like in most countries, 2023 was marked by the war in Ukraine, with "war" being the largest node. We also observe significant attention to the phrase "thepervertrevolution," connected to the words "woman" and "society." This may refer to backlash against gender inclusivity and social change.





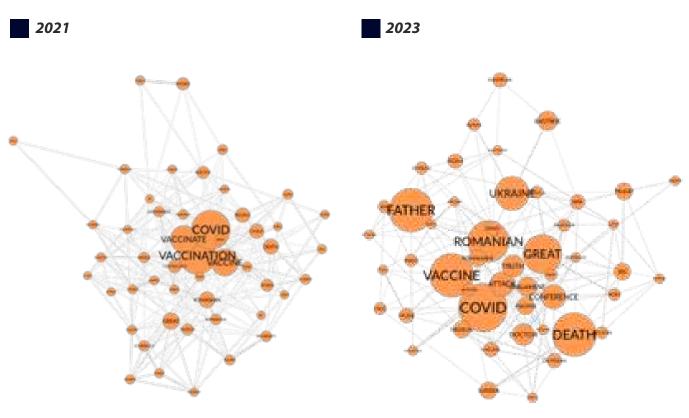
Our findings for 2021 show a prevalence of domestic news and a clear tendency towards the domestication of foreign affairs in 2023. Polish alternative media were mostly focused on domestic politics (e.g., ministry, decision, talk, change), and relations between the government and opposition (e.g., government, prime, minister, PIS, Tusk, Sejm, opposition).

Two other major topics attracted the attention of alternative media in 2021: the refugee crisis at the Polish-Belarusian border, and the state of emergency that was

subsequently declared (e.g., border, Belarus), and the COVID-19 pandemic (e.g., COVID, coronavirus, infection, health, vaccination, vaccinate).

The war in Ukraine became a prominent driver of the alternative agenda in 2023 (e.g., Russian, Russia, war, Ukraine, Ukrainian, Putin). That being said, much of the agenda still revolved around domestic politics (e.g., Tusk, donaldtusk, PIS, Kaczynski, opposition, president, prime, minister, Morawiecki).

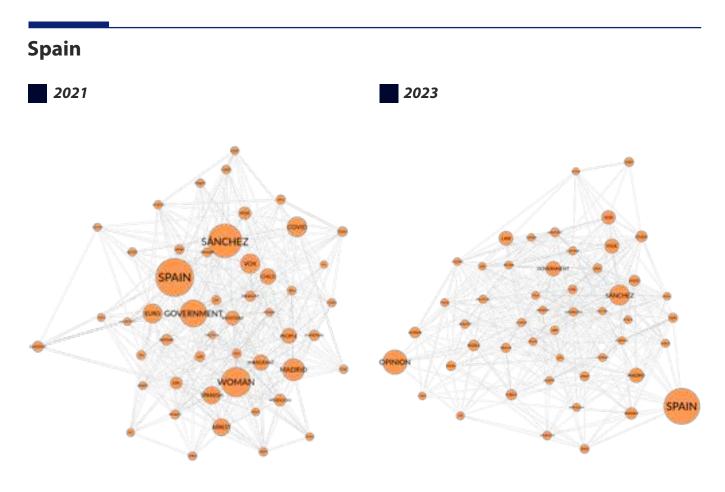
Romania



The 2021 agenda of Romanian alternative media clusters very strongly around COVID-19, reflecting an overwhelming preoccupation with the pandemic and skepticism surrounding vaccine mandates (e.g., COVID, vaccinate, vaccine, vaccination, certificate, passport, impose, conspiracy, death, doctor, hospital). If, at the beginning of the year, vaccination seemed to be reserved for the "happy few" who qualified to get the jab, arousing envy among the general population, by the end of the year, Romania became one of the most vaccine-hesitant countries in Europe, partly due to many conspiracy theories about vaccination circulating in non-mainstream and social media. Specific political figures are named in the network map, alongside references to the pandemic. The most visible are the incumbent president, Klaus Iohannis, the government, and one of the staunchest promoters of anti-vax conspiracy theories in Romania, lawyer Gheorghe Piperea.

The COVID-19 pandemic remained very prominent in the agenda of Romanian alternative media throughout 2023 (e.g., Pfizer, COVID, vaccine, doctor, death, medical). In addition to these persisting topics, the war in Ukraine became another focal point of attention (e.g., Ukraine, war). We also note the curious presence of Donald Trump in the network, connected to the words "war" and "Ukraine," possibly due to his comments on the matter, and his promise to end the war within 24 hours, should he be elected again in 2024.

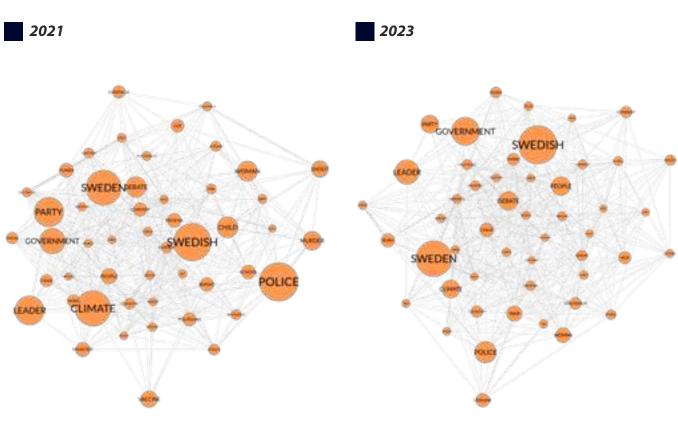




In 2021, Spanish alternative media seemed to gravitate around a few topics: domestic politics, gender issues, immigration, and COVID-19. References to domestic political actors and organizations appear central (e.g., Sánchez, Vox, Iglesia, PSOE, government). The prominence of Vox is remarkable, being only the thirdlargest political party. Gender issues appear particularly salient, with "woman" being the third-largest node in the network just behind "Spain" and "Sánchez," but before "government." The node is connected to other related terms (e.g., girl, gender, feminist, rape). Immigration is another central theme. This may be explained by the diplomatic crisis between Spain and Morocco, which led to a controversial shift in policy (e.g., immigrant, Moroccan). In contrast, 2023 was an electoral year. Paradoxically, politics seems to matter less in an electoral year - with President Sánchez, the leader of the opposition Feijóo, their respective parties, and Vox having a more peripheral role in the network of topics.

In 2023, no topics appear central to the network and simultaneously large in size.





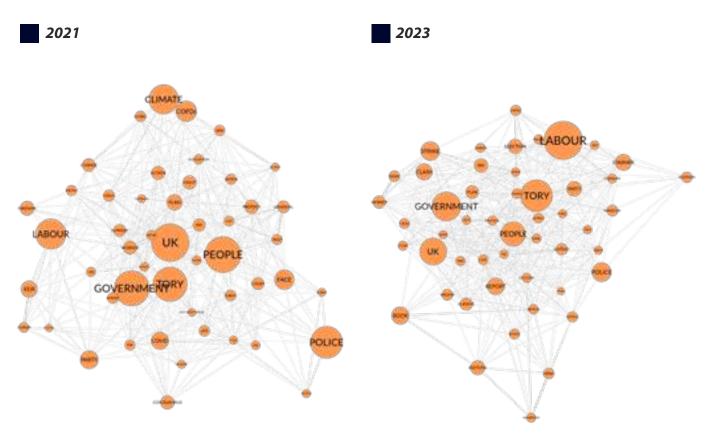
Swedish alternative media stand out for devoting relatively little attention to COVID-19 in 2021. The country's idiosyncratic response to the pandemic and the rejection of coercive public health policies may explain this. Instead, more attention is dedicated to crime (e.g., rape, crime, murder, shoot, attack), immigration (e.g., afghan, immigrant), and the 2022 election (e.g., election, SVT, Löfven, debate).

The 2023 alternative agenda also devotes more attention to domestic issues. The war in Ukraine

occupies little space within the network, with the terms "war" and "Ukraine" remaining relatively small. On the other hand, crime remains very present in the network–although scattered in terms of vocabulary (e.g., police, shoot, attack, criminal, crime, rape). While in 2021, the word "price" was very strongly like to "electricity," the word is not connected to "high," possibly reflecting generalized concerns about inflation and the cost of living. Another idiosyncracy is references to Korankrisen, i.e., Quran burnings (e.g., koran, burn).



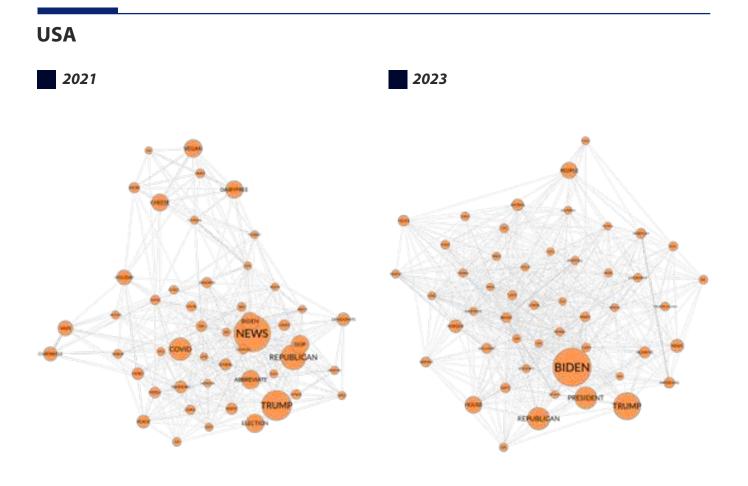
United Kingdom



In 2021, British alternative media devoted attention to government and party politics (e.g., government, party, Tory, Labour, Starmer Keir), elections, and advocacy, possibly related to local elections or speculations regarding potential snap elections (e.g., election, campaign, activist, protest), and climate change and Glasgow's COP26 (e.g., COP26, climate, change, crisis, global, action, plan). The pandemic also received some attention (e.g., coronavirus, COVID, health, care), although much less than the aforementioned topics. Law and order received substantial attention–primarily via the word"police," secondarily via"murder,""officer" and "court."

The network map for 2023 is remarkable. The word 'war' gathers very little attention, and the network map

contains no single explicit reference to the geopolitical situation in Ukraine, or to Russia. 2023 is also characterized by great continuity in the prevalence of party politics and government (e.g., government, party, Labour, Tory, Starmer Keir) in the agenda of alternative media. Climate change still appears, though less prominently. The greatest difference between 2021 and 2023 is the subnetwork of terms–all significant in size–related to labor and worker strikes (e.g., worker, work, strike, claim, pay, union). The other interesting cluster that emerged between 2021 and 2023 deals with journalism and the press (e.g., news, newspaper, article, book, edition, report, exclusive). This cluster is less connected to the rest of the network. It is therefore difficult to trace its origins.



In 2021, conversations in US alternative media largely gravitated around two clusters of topics. The first consisted of the 2020 election, Donald Trump and the Republican party. The other revolved around the COVID-19 pandemic, vaccines, deaths, and the omicron variant. A few references to courts, the house, and abortion should be noted, even though the Dobbs decision on abortion rights only leaked in 2022. Additionally, a significant cluster revolves around lifestyle and dietary choices, with terms like "vegan," "cheese," and "dairyfree."

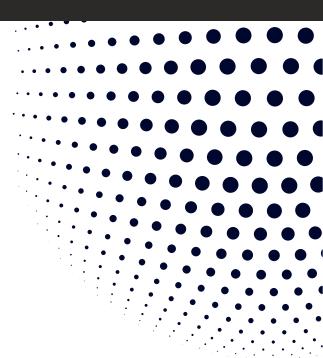
By 2023, attention overwhelmingly revolved around Joe Biden, Donald Trump, and the Republican party. Other public figures garnered some attention, like Ron Desantis and Tucker Carlson, possibly due to Desantis' presidential bid and Carlson's unexpected departure from Fox News. A major difference from 2021 is the rise of crime and immigration as significant topic clusters in 2023, with keywords like "police," "shoot," "arrest," "charge," "law," "border," and "migrant."







Appendix



Study One

Table A1

Percentages of alternative media users per country and political leaning of the alternative outlets

| | General populatior | ו | Alte | rnative media | users |
|----------------|--------------------------|-----|------------------------|---------------|---------------|
| | Any Alternative Media | Ν | Both Left and Right | Only Left | Only Right |
| Austria | 34 | 503 | 503 | 503 | 503 |
| Belgium | 26 | 255 | 255 | 255 | 255 |
| Czech Republic | 31 | 466 | 466 | 466 | 466 |
| Denmark | 28 | 423 | 423 | 423 | 423 |
| France | 43 | 651 | 651 | 651 | 651 |
| Germany | 27 | 397 | 397 | 397 | 397 |
| Greece | 60 | 896 | 896 | 896 | 896 |
| srael | 47 | 711 | 711 | 711 | 711 |
| Italy | 46 | 686 | 686 | 686 | 686 |
| Netherlands | 37 | 553 | 553 | 553 | 553 |
| Norway | 34 | 505 | 505 | 505 | 505 |
| Poland | 46 | 682 | 682 | 682 | 682 |
| Romania | 61 | 915 | 915 | 915 | 915 |
| Spain | 63 | 951 | 951 | 951 | 951 |
| Sweden | 39 | 581 | 581 | 581 | 581 |
| Switzerland | 41 | 407 | 407 | 407 | 407 |
| UK | 25 | 375 | 375 | 375 | 375 |
| USA | 41 | 607 | 607 | 607 | 607 |

Note. Displayed are percentages. N=1,500 (except for Belgium and Switzerland N=1,000)

1 Share of the general population of respondents that stated to use any alternative media

2 Share of respondents among those using alternative media that use them from both sides left and right political leaning

3 Share of respondents among those using alternative media that use only left-leaning alternative media.

 $4 \quad \text{Share of respondents among those using alternative media that use only right-leaning alternative media.}$



Mean age, political interest, and political ideology for alternative media users and non-users by country

| | Age | | Political i | nterest | Political ideology | | | |
|----------------|-----------|----------|-------------|---------|--------------------|------|-----|--|
| | non-users | users | non-users | users | non-users | usei | ſS | |
| Austria | 42.0 | 41.3 | 4.23 | 5.22 | 4.78 | 4.97 | *** | |
| Belgium | 43.4 | 38.6 | 3.82 | 4.97 | 5.31 | 5.29 | *** | |
| Czech Republic | 41.8 | 42.1 | 3.72 | 4.80 | 5.61 | 5.47 | | |
| Denmark | 43.9 | 40.0 | 3.96 | 5.10 | 4.87 | 4.89 | *** | |
| France | 43.5 | 41.2 | 3.82 | 5.20 | 5.19 | 5.11 | | |
| Germany | 45.0 | 38.8 | 4.37 | 5.22 | 4.77 | 4.75 | *** | |
| Greece | 40.8 | 41.2 | 4.45 | 5.44 | 5.20 | 4.89 | *** | |
| Israel | 42.1 | 38.1 * | 4.47 | 5.28 | 5.91 | 6.96 | | |
| Italy | 44.0 | 42.3 | 3.98 | 5.28 | 5.05 | 5.06 | *** | |
| Netherlands | 44.6 | 38.6 * | 3.69 | 4.87 | 5.01 | 5.87 | ** | |
| Norway | 42.7 | 41.1 | 3.91 | 4.92 | 5.14 | 5.25 | *** | |
| Poland | 41.3 | 40.8 | 4.38 | 5.41 | 4.92 | 5.47 | ** | |
| Romania | 41.0 | 40.0 * | 3.45 | 4.97 | 5.42 | 6.00 | ** | |
| Spain | 42.8 | 40.9 | 3.63 | 5.23 | 4.28 | 4.61 | *** | |
| Sweden | 42.5 | 41.7 | 3.86 | 5.16 | 4.93 | 5.42 | *** | |
| Switzerland | 42.6 | 40.7 | 4.27 | 5.19 | 4.81 | 5.02 | ** | |
| UK | 43.7 | 36.6 * | 4.02 | 5.06 | 4.63 | 4.96 | ** | |
| USA | 44.7 | 38.7 *** | 3.49 | 5.04 | 4.96 | 5.60 | *** | |

Note. Age was measured in years; political ideology on a 10-point scale (0 = "left" to 10 = "right"), political interest on a 7-point scale (0 = "not interested at all" to 7 = "very interested"). Mean difference significance was assessed by independent t-tests. *p<.05, **p<.01, ***p<.001.

Percentages of alternative media users by gender categories per country

| | within female | within male |
|---------------|---------------|-------------|
| Austria | 26 | 42 |
| elgium | 20 | 32 |
| zech Republic | 25 | 37 |
| enmark | 24 | 33 |
| ance | 39 | 48 |
| ermany | 23 | 31 |
| reece | 55 | 65 |
| ael | 39 | 56 |
| ly | 42 | 50 |
| therlands | 31 | 44 |
| rway | 28 | 40 |
| land | 42 | 50 |
| mania | 59 | 63 |
| ain | 59 | 69 |
| veden | 29 | 49 |
| vitzerland | 37 | 45 |
| < | 22 | 28 |
| SA | 31 | 51 |

Note. Displayed are percentage of alternative media users by gender and per country.



Percentage of users for selected social media platforms and messenger services

| | Facebook | FB Messenger | Twitter | Instagram | YouTube | WhatsApp | Telegram |
|----------------|----------|-----------------|---------|-----------|---------|----------|----------|
| Austria | 73 | 73 | 23 | 58 | 84 | 94 | 27 |
| Belgium | 82 | 82 | 29 | 58 | 74 | 85 | 14 |
| Czech Republic | 87 | 87 | 22 | 49 | 81 | 72 | 11 |
| Denmark | 88 | 88 | 24 | 58 | 75 | 22 | 5 |
| France | 82 | 82 | 33 | 55 | 78 | 61 | 14 |
| Germany | 66 | 66 | 22 | 52 | 74 | 89 | 22 |
| Greece | 92 | 92 | 45 | 75 | 95 | 44 | 18 |
| Israel | 84 | 84 | 30 | 62 | 94 | 97 | 52 |
| Italy | 86 | 86 | 41 | 75 | 88 | 98 | 58 |
| Netherlands | 76 | 76 | 28 | 57 | 79 | 95 | 18 |
| Norway | 88 | 88 | 34 | 71 | 82 | 33 | 11 |
| Poland | 91 | 91 | 39 | 61 | 91 | 61 | 20 |
| Romania | 93 | 93 | 39 | 72 | 96 | 96 | 38 |
| Spain | 81 | 81 | 56 | 76 | 89 | 98 | 51 |
| Sweden | 83 | 83 | 29 | 73 | 85 | 44 | 11 |
| Switzerland | 70 | 70 | 27 | 62 | 87 | 96 | 31 |
| UK | 77 | 77 | 45 | 56 | 79 | 79 | 12 |
| USA | 78 | 78 | 41 | 55 | 81 | 28 | 16 |

Characteristics of <u>Facebook</u> users

| | Gen | der | Ag | ge | Political | interest | Political ideology | |
|----------------|--------|------|-----------|----------|-----------|----------|--------------------|----------|
| | Female | Male | non-users | users | non-users | users | non-users | users |
| Austria | 75 | 70 | 42 | 41.7 *** | 4.23 | 5.22 | 4.78 | 4.97 *** |
| Belgium | 87 | 77 | 42.9 | 42 *** | 3.82 | 4.97 | 5.31 | 5.29 *** |
| Czech Republic | 93 | 81 | 48.2 | 40.9 * | 3.72 | 4.80 | 5.61 | 5.47 |
| Denmark | 92 | 84 | 49.6 | 42 | 3.96 | 5.10 | 4.87 | 4.89 *** |
| France | 87 | 76 | 44.9 | 42 *** | 3.82 | 5.20 | 5.19 | 5.11 |
| Germany | 69 | 63 | 44.3 | 42.9 *** | 4.37 | 5.22 | 4.77 | 4.75 *** |
| Greece | 93 | 91 | 42.3 | 41 * | 4.45 | 5.44 | 5.20 | 4.89 *** |
| Israel | 86 | 81 | 37.4 | 40.8 *** | 4.47 | 5.28 | 5.91 | 6.96 |
| Italy | 87 | 84 | 43.8 | 43.3 * | 3.98 | 5.28 | 5.05 | 5.06 *** |
| Netherlands | 82 | 69 | 41.6 | 42.6 * | 3.69 | 4.87 | 5.01 | 5.87 ** |
| Norway | 92 | 84 | 43 | 42.1 *** | 3.91 | 4.92 | 5.14 | 5.25 *** |
| Poland | 95 | 87 | 49.1 | 40.3 * | 4.38 | 5.41 | 4.92 | 5.47 ** |
| Romania | 95 | 92 | 40.2 | 40.6 * | 3.45 | 4.97 | 5.42 | 6.00 ** |
| Spain | 83 | 79 | 40 | 42 *** | 3.63 | 5.23 | 4.28 | 4.61 *** |
| Sweden | 85 | 81 | 45.6 | 41.5 | 3.86 | 5.16 | 4.93 | 5.42 *** |
| Switzerland | 73 | 66 | 41.3 | 42.1 *** | 4.27 | 5.19 | 4.81 | 5.02 ** |
| UK | 82 | 71 | 44.9 | 41 * | 4.02 | 5.06 | 4.63 | 4.96 ** |
| USA | 79 | 76 | 41 | 42.6 *** | 3.49 | 5.04 | 4.96 | 5.60 *** |

Note. Gender is displayed in percentages. Age was measured in years; political ideology on a 10-point scale (0 = "left" to 10 = "right"), political interest on a 7-point scale (0 = "not interested at all" to 7 = "very interested"). Mean difference significance was assessed by independent t-tests. *p<.05, **p<.01, ***p<.001.



Characteristics of <u>Twitter</u> users

| | Gen | der | Ag | le | Political i | nterest | Political interest | |
|----------------|--------|------|-----------|---------|-------------|---------|--------------------|--------|
| | Female | Male | non-users | users | non-users | users | non-users | users |
| Austria | 15 | 32 | 42.2 | 40.4 | 4.37 | 5.24 | 4.9 | 4.68 |
| Belgium | 23 | 37 | 43.8 | 38.3 | 3.95 | 4.52 | 5.35 | 5.21 |
| Czech Republic | 17 | 28 | 42.8 | 38.8 * | 3.9 | 4.59 | 5.47 | 5.86 |
| Denmark | 15 | 32 | 44.5 | 37.6 | 4.09 | 4.89 | 4.86 | 4.93 |
| France | 27 | 40 | 44.4 | 38.7 | 4.08 | 5.1 | 5.19 | 5.09 |
| Germany | 15 | 30 | 44.3 | 40.2 | 4.37 | 5.37 | 4.79 | 4.69 * |
| Greece | 42 | 50 | 40.9 | 41.2 | 4.72 | 5.43 | 5.01 | 5.01 |
| Israel | 18 | 43 | 41.5 | 37.2 | 4.62 | 5.41 | 6.47 | 6.27 |
| Italy | 39 | 43 | 45.2 | 40.9 | 4.23 | 5.07 | 5.19 | 4.89 |
| Netherlands | 20 | 37 | 43.2 | 40.3 | 3.89 | 4.75 | 5.26 | 5.56 * |
| Norway | 25 | 44 | 43.5 | 39.7 * | 4.11 | 4.54 | 5.25 | 5.05 |
| Poland | 33 | 45 | 42.1 | 39.5 | 4.46 | 5.47 | 5.09 | 5.33 |
| Romania | 31 | 48 | 40.7 | 40.3 | 3.93 | 5.09 | 5.66 | 6.07 |
| Spain | 53 | 59 | 45.3 | 38.8 | 4.11 | 5.07 | 4.41 | 4.58 |
| Sweden | 18 | 41 | 43.6 | 38.8 | 4.11 | 4.98 | 5.12 | 5.17 |
| Switzerland | 21 | 35 | 42.2 | 41 | 4.46 | 5.13 | 4.94 | 4.8 * |
| UK | 43 | 47 | 44.6 | 38.6 | 3.93 | 4.71 | 4.93 | 4.48 * |
| USA | 32 | 52 | 45.2 | 38.1*** | 3.68 | 4.75 | 5.22 | 5.26 |

Note. Gender displayed in percentages. Age was measured in years; political ideology on a 10-point scale (0 = "left" to 10 = "right"), political interest on a 7-point scale (0 = "not interested at all" to 7 = "very interested"). Mean difference significance was assessed by independent t-tests. *p<.05, **p<.01, ***p<.001.

Users in percent on selected social media platforms and messenger services by gender

| | FB Mes | senger | Instagram | | YouTube | | WhatsApp | | Telegram | |
|----------------|--------|--------|-----------|------|---------|------|----------|------|----------|------|
| | Female | Male | Female | Male | Female | Male | Female | Male | Female | Male |
| Austria | 63 | 54 | 61 | 54 | 85 | 84 | 95 | 93 | 24 | 30 |
| Belgium | 85 | 75 | 62 | 54 | 70 | 78 | 87 | 83 | 10 | 19 |
| Czech Republic | 91 | 78 | 53 | 45 | 82 | 80 | 75 | 68 | 8 | 15 |
| Denmark | 93 | 98 | 69 | 47 | 74 | 75 | 21 | 24 | 2 | 8 |
| France | 83 | 66 | 59 | 50 | 79 | 78 | 62 | 60 | 10 | 18 |
| Germany | 57 | 49 | 55 | 48 | 70 | 78 | 92 | 86 | 22 | 24 |
| Greece | 95 | 90 | 80 | 71 | 95 | 95 | 43 | 44 | 15 | 23 |
| Israel | 76 | 68 | 64 | 59 | 93 | 96 | 97 | 98 | 42 | 63 |
| Italy | 81 | 76 | 79 | 71 | 87 | 90 | 99 | 98 | 56 | 60 |
| Netherlands | 73 | 57 | 61 | 53 | 79 | 78 | 96 | 94 | 16 | 20 |
| Norway | 92 | 84 | 77 | 64 | ₹8 | 87 | 29 | 37 | 8 | 15 |
| Poland | 93 | 83 | 70 | 52 | 91 | 90 | 64 | 57 | 18 | 21 |
| Romania | 94 | 91 | 73 | 71 | 96 | 96 | 97 | 95 | 31 | 45 |
| Spain | 63 | 58 | 80 | 71 | 89 | 89 | 99 | 98 | 55 | 48 |
| Sweden | 85 | 80 | 79 | 68 | 82 | 88 | 40 | 47 | 7 | 17 |
| Switzerland | 65 | 53 | 67 | 57 | 86 | 89 | 97 | 96 | 27 | 35 |
| UK | 80 | 64 | 66 | 46 | 80 | 78 | 84 | 72 | 10 | 14 |
| USA | 71 | 69 | 54 | 57 | 76 | 86 | 21 | 35 | 10 | 23 |



Mean age of users of selected social media platforms and messenger services

| | FB Messenger | Instagram | YouTube | WhatsApp | Telegram |
|----------------|-----------------|-----------|---------|----------|----------|
| Austria | 41.6 | 37.3 | 40.3 | 41.4 | 41.1 |
| Belgium | 41.4 | 38.1 | 39.2 | 41.4 | 37 |
| Czech Republic | 40.3 | 37.1 | 40.5 | 41.2 | 39 |
| Denmark | 41.7 | 38.6 | 40.4 | 41.1 | 34.7 |
| France | 40.9 | 37.5 | 40.1 | 40.4 | 36.8 |
| Germany | 42.4 | 38.1 | 41.2 | 42.5 | 39.6 |
| Greece | 40.6 | 39.4 | 40.6 | 40.5 | 39.1 |
| Israel | 40.7 | 38.4 | 39.9 | 40.4 | 38.1 |
| Italy | 43.1 | 41.2 | 42.4 | 43.3 | 40.6 |
| Netherlands | 42.3 | 38 | 39.7 | 42 | 37.2 |
| Norway | 41.9 | 39.9 | 40.8 | 40.9 | 37.8 |
| Poland | 39.9 | 37.5 | 40.1 | 41.2 | 38.7 |
| Romania | 40.5 | 38.7 | 40.4 | 40.4 | 38.6 |
| Spain | 41.7 | 39.3 | 40.7 | 41.5 | 39.1 |
| Sweden | 41.4 | 39.8 | 40.8 | 40.7 | 38.5 |
| Switzerland | 41.6 | 38.5 | 40.9 | 41.5 | 40.5 |
| UK | 40.5 | 36.8 | 39.9 | 40.6 | 34.8 |
| USA | 41.9 | 38 | 40 | 38.5 | 35.9 |

Note. Age was measured in years.

Table A9

Political ideology of users of selected social media platforms and messenger services

| | FB Messenger | Instagram | YouTube | WhatsApp | Telegram |
|----------------|-----------------|-----------|---------|----------|----------|
| Austria | 4.61 | 4.56 | 4.63 | 4.55 | 4.82 |
| Belgium | 4.11 | 4.18 | 4.19 | 4.11 | 4.42 |
| Czech Republic | 3.97 | 4.06 | 4.11 | 4.08 | 4.31 |
| Denmark | 4.24 | 4.27 | 4.33 | 4.56 | 5.15 |
| France | 4.43 | 4.57 | 4.52 | 4.61 | 5.13 |
| Germany | 4.68 | 4.65 | 4.77 | 4.55 | 4.79 |
| Greece | 5.04 | 5.07 | 5.06 | 5.29 | 5.41 |
| Israel | 4.91 | 4.86 | 4.86 | 4.86 | 5.06 |
| Italy | 4.66 | 4.6 | 4.65 | 4.59 | 4.74 |
| Netherlands | 4.16 | 4.2 | 4.22 | 4.13 | 4.59 |
| Norway | 4.23 | 4.13 | 4.35 | 4.53 | 4.72 |
| Poland | 4.84 | 4.85 | 4.9 | 5 | 5.34 |
| Romania | 4.41 | 4.52 | 4.42 | 4.39 | 4.91 |
| Spain | 4.77 | 4.72 | 4.71 | 4.66 | 4.94 |
| Sweden | 4.35 | 4.29 | 4.43 | 4.59 | 5.17 |
| Switzerland | 4.61 | 4.63 | 4.73 | 4.62 | 4.78 |
| UK | 4.31 | 4.36 | 4.38 | 4.29 | 5.04 |
| USA | 4.24 | 4.36 | 4.24 | 4.7 | 4.94 |

Note. Political interest was measured on a 7-point scale (0 = "not interested at all" to 7 = "very interested").



Table A10

Political interest of users of selected social media platforms and messenger services

| | FB Messenger | Instagram | YouTube | WhatsApp | Telegram |
|----------------|-----------------|-----------|---------|----------|----------|
| Austria | 4.85 | 4.7 | 4.81 | 4.85 | 5.01 |
| Belgium | 5.39 | 5.18 | 5.18 | 5.34 | 5.49 |
| Czech Republic | 5.48 | 5.71 | 5.6 | 5.65 | 5.97 |
| Denmark | 4.85 | 4.8 | 4.86 | 5.04 | 4.84 |
| France | 5.2 | 5.12 | 5.1 | 5.14 | 5.24 |
| Germany | 4.85 | 4.74 | 4.75 | 4.78 | 5.05 |
| Greece | 5.03 | 5.05 | 5.04 | 5.15 | 5.12 |
| Israel | 6.33 | 6.34 | 6.41 | 6.4 | 6.48 |
| Italy | 5.13 | 5.05 | 5.07 | 5.06 | 4.96 |
| Netherlands | 5.44 | 5.45 | 5.38 | 5.38 | 5.69 |
| Norway | 5.18 | 5.18 | 5.13 | 5.29 | 5.64 |
| Poland | 5.16 | 5.15 | 5.19 | 5.08 | 5.68 |
| Romania | 5.87 | 5.91 | 5.87 | 5.88 | 5.93 |
| Spain | 4.74 | 4.56 | 4.53 | 4.5 | 4.68 |
| Sweden | 5.09 | 5.02 | 5.15 | 5.27 | 5.6 |
| Switzerland | 4.92 | 4.73 | 4.87 | 4.87 | 5.02 |
| UK | 4.73 | 4.58 | 4.66 | 4.71 | 5.27 |
| USA | 5.29 | 5.27 | 5.24 | 5.65 | 6.41 |

Note. Political ideology was measured on a 10-point scale (0 = "left" to 10 = "right").

Study Two

Table A11

Profiles used for the Study Two (Sotrender)

Austria

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---------------------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Das Magazin für Patrioten | www.facebook.com/102501421318169 | 2021 | 557 | 6900 | | |
| kontrast.at | www.facebook.com/1079650008770485 | 2021/23 | 1030 | 1291255 | 532 | 300620 |
| unzensuriert.at | www.facebook.com/61474458710 | 2021/23 | 1808 | 496246 | 1588 | 130746 |
| Zack Zack | www.facebook.com/674089153034374 | 2021/23 | 1885 | 475620 | 1200 | 62526 |
| Twitter | | | | | | |
| Kontrast_at | www.twitter.com/Kontrast_at | 2021/23 | 325 | 26235 | 271 | 32248 |
| RedaktionZack | www.twitter.com/RedaktionZack | 2021/23 | 1460 | 113680 | 1045 | 44823 |
| unzensuriert | www.twitter.com/unzensuriert | 2021/23 | 1333 | 10319 | 983 | 7559 |

Belgium

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|------------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Apache | www.facebook.com/325029089769 | 2021 | 1039 | 41144 | 619 | 12987 |
| De Wereld Morgen | www.facebook.com/339983370468 | 2021/23 | 769 | 34795 | 645 | 13139 |
| Doorbraak | www.facebook.com/131309180245958 | 2021/23 | 1764 | 81813 | 2188 | 56022 |
| PAL NWS | www.facebook.com/319022301765098 | 2021/23 | 1743 | 401582 | 2405 | 219196 |
| Twitter | | | | | | |
| Apache_be | www.twitter.com/Apache_be | 2021/23 | 826 | 10708 | 582 | 11062 |
| dewereldmorgen | www.twitter.com/dewereldmorgen | 2021/23 | 885 | 3286 | 421 | 1354 |
| DoorbraakBe | www.twitter.com/DoorbraakBe | 2021/23 | 1323 | 11731 | 2544 | 19450 |
| PALNWS | www.twitter.com/PALNWS | 2021/23 | 1544 | 30357 | 1831 | 47308 |



Czech Republic

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|--|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| AC24 | www.facebook.com/176546515755264 | 2021/23 | 1795 | 126922 | 2894 | 12987 |
| AE News | www.facebook.com/309989579534424 | 2021 | 22 | 3 | | |
| Alarm | www.facebook.com/623521487687579 | 2021/23 | 1344 | 145903 | 832 | 56022 |
| Deník Referendum | www.facebook.com/203833483473 | 2021/23 | 960 | 43442 | 822 | 21342 |
| halonoviny.cz | www.facebook.com/379600488789567 | 2021 | 952 | 7433 | | |
| New World Order Opposition Organization | www.facebook.com/61731121893 | 2021/23 | 100 | 387 | 24 | 129 |
| ParlamentníListy.cz | www.facebook.com/135144949863739 | 2021/23 | 2042 | 502725 | 1573 | 224971 |
| Věk Světla | www.facebook.com/1781861465420457 | 2021/23 | 3 | 97 | 3 | 52 |
| Twitter | | | | | | |
| A2larm | www.twitter.com/A2larm | 2021/23 | 591 | 11268 | 163 | 5299 |
| AC24cz | www.twitter.com/AC24cz | 2021/23 | 1730 | 5390 | 1817 | 1650 |
| aeronet_cz | www.twitter.com/aeronet_cz | 2021/23 | 203 | 5209 | 167 | 4562 |
| DReferendum | www.twitter.com/DReferendum | 2021/23 | 572 | 3220 | 737 | 5861 |
| pravyprostor | www.twitter.com/pravyprostor | 2021/23 | 2212 | 5075 | 2460 | 6386 |

Denmark

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|----------------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| 180Grader | www.facebook.com/175052915862375 | 2021/23 | 776 | 21569 | 395 | 1395 |
| 24NYT | www.facebook.com/100628908746085 | 2021/23 | 296 | 715 | 2302 | 4007 |
| Dagbladet Arbejderen | www.facebook.com/107312505953273 | 2021/23 | 1032 | 29204 | 819 | 16685 |
| DEN KORTE AVIS | www.facebook.com/152904881482813 | 2021/23 | 893 | 293397 | 638 | 76803 |
| Indblik.dk | www.facebook.com/458650074898193 | 2021/23 | 1823 | 274438 | 103 | 1191 |
| Konfront | www.facebook.com/2003892889833891 | 2021/23 | 170 | 2354 | 29 | 191 |
| Netavisen Pio | www.facebook.com/2003892889833891 | 2021/23 | 1605 | 178882 | 1100 | 30334 |
| Socialt Indblik | www.facebook.com/103238548473026 | 2021/23 | 23 | 80 | 62 | 1599 |
| Solidaritet | www.facebook.com/158777500848771 | 2021/23 | 653 | 15533 | 238 | 4578 |
| Twitter | | | | | | |
| 24NYTdk | www.twitter.com/24NYTdk | 2021/23 | 1693 | 1282 | 913 | 800 |
| Arbejderen | www.twitter.com/Arbejderen | 2021/23 | 610 | 3300 | 650 | 2729 |
| indblik | www.twitter.com/indblik | 2021 | 489 | 5476 | | |
| Solidaritetdk | www.twitter.com/Solidaritetdk | 2021/23 | 246 | 580 | 8 | 20 |

| | 6 |
|---|---|
| 4 | ~ |

| Fran | ice |
|------|-----|
|------|-----|

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---------------------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Alternatives économiques | www.facebook.com/219062948053 | 2021/23 | 1741 | 92619 | 2713 | 40605 |
| Dreuz.info | www.facebook.com/151923394829668 | 2021/23 | 1740 | 101395 | 534 | 8793 |
| FranceSoir | www.facebook.com/53638966652 | 2021/23 | 1712 | 666846 | 1371 | 140893 |
| La vérité sur notre monde | www.facebook.com/1736804423252746 | 2021 | 3 | 165 | | |
| Minute Hebdo | www.facebook.com/525189537573978 | 2021 | 2 | 0 | | |
| Valeurs actuelles | www.facebook.com/299111843523312 | 2021/23 | 2043 | 691512 | 5496 | 1006914 |
| Twitter | | | | | | |
| AlterEco_ | www.twitter.com/AlterEco_ | 2021/23 | 1569 | 54364 | 163 | 40933 |
| canardenchaine | www.twitter.com/canardenchaine | 2021/23 | 142 | 34936 | 1817 | 359953 |
| EetR_National | www.twitter.com/EetR_National | 2021/23 | 1058 | 9757 | | |
| france_soir | www.twitter.com/france_soir | 2021/23 | 3250 | 1197756 | 973 | 285756 |
| reseau_internat | www.twitter.com/reseau_internat | 2021/23 | 953 | 8156 | 3811 | 58570 |
| voltairenetFr | www.twitter.com/voltairenetFr | 2021/23 | 45 | 33 | 104 | 1132 |
| Dreuz_1fo | www.twitter.com/Dreuz_1fo | 2023 | | | 1684 | 2544 |

Germany

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|-------------------------------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Achgut.com - Die Achse des Guten | www.facebook.com/180481025298371 | 2021/23 | 1743 | 753809 | 1209 | 1395 |
| Deutsche Wirtschafts Nachrichten | www.facebook.com/254235937994328 | 2021/23 | 1741 | 121207 | 2015 | 4007 |
| JUNGE FREIHEIT | www.facebook.com/13479664941 | 2021/23 | 1737 | 665197 | 2060 | 16685 |
| junge Welt | www.facebook.com/123292927706635 | 2021/23 | 1842 | 73161 | 4518 | 76803 |
| NachDenkSeiten | www.facebook.com/215636828626 | 2021/23 | 1802 | 379318 | 1538 | 1191 |
| Tichys Einblick | www.facebook.com/716555961791942 | 2021/23 | 1747 | 887254 | 3819 | 191 |
| Twitter | | | | | | |
| Achgut_com | www.twitter.com/Achgut_com | 2021/23 | 1263 | 94955 | 1105 | 800 |
| COMPACTMagazin | www.twitter.com/COMPACTMagazin | 2021/23 | 1656 | 77046 | 1851 | 2729 |
| DWN_de | www.twitter.com/DWN_de | 2021 | 2705 | 5781 | 1233 | 1125 |
| EpochTimesDE | www.twitter.com/EpochTimesDE | 2023 | | | 2566 | 13863 |
| Junge_Freiheit | www.twitter.com/Junge_Freiheit | 2021/23 | 1980 | 147873 | 2278 | 647384 |
| jungewelt | www.twitter.com/jungewelt | 2021/23 | 703 | 7219 | 3039 | 76656 |
| NachDenkSeiten | www.twitter.com/NachDenkSeiten | 2021 | 1007 | 18435 | 1060 | 81707 |
| RolandTichy | www.twitter.com/RolandTichy | 2021/23 | 828 | 295114 | 2221 | 2195514 |



Greece

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|-----------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| liberal.gr | www.facebook.com/1645903788996329 | 2021/23 | 1804 | 73415 | 38710 | 634791 |
| ProNews.gr | www.facebook.com/1672296909720895 | 2021/23 | 455 | 11831 | 2 | 60 |
| TV Χωρίς Σύνορα | www.facebook.com/126096294070106 | 2021/23 | 1745 | 103477 | 15611 | 587556 |
| Twitter | | | | | | |
| LiberalGr | www.twitter.com/LiberalGr | 2023 | | | 26255 | 52341 |
| pronewsgr | www.twitter.com/pronewsgr | 2023 | | | 27424 | 13380 |
| tvxs | www.twitter.com/tvxs | 2023 | | | 14128 | 14582 |

Israel

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---|--|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| 404 | https://www.facebook.com/www.0404.co.il/ | 2021/23 | 2145 | 654046 | 11305 | 3351173 |
| مטלוויזיה החברתית Social TVالتلفزيون الاجتماعي | https://www.facebook.com/israelsocialtv/ | 2021/23 | 116 | 2702 | 21 | 3280 |
| המקום הכי חם בגיהנום | https://www.facebook.com/hottestplaceinhell/ | 2021/23 | 500 | 117584 | 299 | 37198 |
| מידה | https://www.facebook.com/MidaMag | 2021/23 | 653 | 97228 | 764 | 21169 |
| רוטר.נט - סקופים וחדשות | https://www.facebook.com/scoops.rotter.net/ | 2021/23 | 1924 | 659295 | 1151 | 675678 |
| שיחה מקומית | https://www.facebook.com/mekomit/ | 2021/23 | 1091 | 60345 | 579 | 27975 |
| Twitter | | | | | | |
| 0404news | www.twitter.com/0404news | 2021/23 | 1852 | 15501 | 6052 | 52387 |
| ha_makom | www.twitter.com/ha_makom | 2021/23 | 290 | 15465 | 279 | 18308 |
| IsraelSocialTV | www.twitter.com/IsraelSocialTV | 2021/23 | 4 | 2 | 23 | 24 |
| mekomit | www.twitter.com/mekomit | 2021/23 | 882 | 15553 | 1182 | 21097 |
| MidaWebsite | www.twitter.com/MidaWebsite | 2021/23 | 351 | 26653 | 666 | 34590 |

Italy

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| il manifesto | www.facebook.com/61480282984 | 2021/23 | 1716 | 306331 | 2502 | 205934 |
| Imola Oggi | www.facebook.com/1845903395506673 | 2021/23 | 1744 | 175474 | 8352 | 634121 |
| La Verità | www.facebook.com/1583832781922269 | 2021/23 | 1748 | 858278 | 6001 | 1834669 |
| No Islam Italia | www.facebook.com/2053633971516461 | 2021/23 | 1754 | 24368 | 5043 | 25768 |
| Segnidalcielo - Segni di una Nuova Era | www.facebook.com/157049077711928 | 2021/23 | 50 | 2265 | 4 | 87 |
| Twitter | | | | | | |
| fiomnet | www.twitter.com/fiomnet | 2023 | | | 4 | 56 |
| ilmanifesto | www.twitter.com/ilmanifesto | 2021/23 | 1015 | 33718 | 1611 | 108632 |
| ImolaOggi | www.twitter.com/ImolaOggi | 2023 | | | 5413 | 569637 |
| sadefenza | www.twitter.com/sadefenza | 2021/23 | 408 | 3006 | 927 | 3350 |
| UilmNazionale | www.twitter.com/UilmNazionale | 2023 | | | 2 | 7 |
| segnidalcielo | www.twitter.com/segnidalcielo | 2021 | 8 | 14 | | |

Netherlands

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|-------------------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| De Dagelijkse Standaard | www.facebook.com/107534521556106 | 2021/23 | 1719 | 25775 | 3079 | 38361 |
| GeenStijl | www.facebook.com/329195620509055 | 2021/23 | 1739 | 272286 | 1623 | 129164 |
| Joop | www.facebook.com/162969583760518 | 2021/23 | 1748 | 115597 | 3241 | 78684 |
| Twitter | | | | | | |
| DDStandaard | www.twitter.com/DDStandaard | 2021/23 | 478 | 26891 | 1998 | 134679 |



| Norway | | | | | | |
|----------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
| Facebook | | | | | | |
| Agenda Magasin | www.facebook.com/428193907379911 | 2021/23 | 661 | 62377 | 459 | 22679 |
| Document.no | www.facebook.com/147969189459 | 2021/23 | 14 | 715 | 6706 | 1324756 |
| Radikal Portal | www.facebook.com/291928694261801 | 2021/23 | 95 | 2816 | 1 | 4 |
| Resett | www.facebook.com/266169710462617 | 2021/23 | 1742 | 524511 | 4063 | 470260 |
| Rights.no | www.facebook.com/482291515135453 | 2021/23 | 906 | 295890 | 566 | 115821 |
| steigan.no | www.facebook.com/569511213242047 | | 1798 | 185166 | 2497 | 132122 |
| Twitter | | | | | | |
| AgendaMagasin | www.twitter.com/AgendaMagasin | 2021/23 | 342 | 1440 | 304 | 1298 |
| DocumentNo | www.twitter.com/DocumentNo | 2021/23 | 638 | 2971 | 1275 | 9158 |
| HRSnorge | www.twitter.com/HRSnorge | 2021/23 | 575 | 4798 | 393 | 2210 |
| PSteigan | www.twitter.com/PSteigan | 2021/23 | 397 | 1927 | 1487 | 13667 |

Poland

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|--------------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Krytyka Polityczna | www.facebook.com/74863922834 | 2021/23 | 661 | 62377 | 459 | 22679 |
| Lewica.pl | www.facebook.com/245985269840 | 2021/23 | 14 | 715 | 6706 | 1324756 |
| Najwyższy CZAS! | www.facebook.com/111700175525543 | 2021/23 | 95 | 2816 | 1 | 4 |
| Niezalezna.pl | www.facebook.com/108917389163070 | 2021/23 | 1742 | 524511 | 4063 | 470260 |
| Racjonalista.pl | www.facebook.com/114368419365 | 2021/23 | 906 | 295890 | 566 | 115821 |
| wPolityce.pl | www.facebook.com/121020967939615 | 2021/23 | 1798 | 185166 | 2497 | 132122 |
| Twitter | | | | | | |
| GPtygodnik | www.twitter.com/GPtygodnik | 2021/23 | 13 | 172 | 7 | 231 |
| idzpodpradpl | www.twitter.com/idzpodpradpl | 2021/23 | 1652 | 78804 | 1089 | 44951 |
| NCZAS1 | www.twitter.com/NCZAS1 | 2021/23 | 1289 | 11803 | 2839 | 90207 |
| niezaleznapl | www.twitter.com/niezaleznapl | 2021/23 | 14352 | 136434 | 6433 | 158201 |
| Ordoluris | www.twitter.com/Ordoluris | 2021/23 | 4 | 232 | 2 | 75 |
| RacjonalnaPL | www.twitter.com/RacjonalnaPL | 2021/23 | 182 | 4305 | 1 | |
| RepublikaTV | www.twitter.com/RepublikaTV | 2021/23 | 21 | 168 | 20 | 308 |
| wPolityce_pl | www.twitter.com/wPolityce_pl | 2021/23 | 23004 | 864688 | 11823 | 505958 |

Romania

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---------------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| 4media.INFO | www.facebook.com/114460923709287 | 2021/23 | 1738 | 742236 | 2326 | 248795 |
| ActiveNews | www.facebook.com/391427597626940 | 2021/23 | 1688 | 91964 | 5369 | 162158 |
| aktual24.ro | www.facebook.com/776571519096433 | 2021/23 | 4056 | 3206494 | 4937 | 1013356 |
| Epoch Times Romania | www.facebook.com/321280267596 | 2021/23 | 5009 | 3510698 | 8658 | 1450995 |
| Ziariştii | www.facebook.com/2164135647137716 | 2021/23 | 1783 | 230481 | 2056 | 73551 |
| Twitter | | | | | | |
| ActiveNewsRo | www.twitter.com/ActiveNewsRo | 2021/23 | 308 | 819 | 348 | 1504 |

Spain

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|---------------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| El Correo de España | www.facebook.com/546698988685649 | 2021/23 | 1750 | 4549 | 2785 | 3005 |
| El Salto | www.facebook.com/116863160468 | 2021/23 | 1781 | 131295 | 3670 | 151761 |
| InfoHispania | www.facebook.com/1236322346509192 | 2021/23 | 260 | 533 | 13 | 3 |
| infoLibre | www.facebook.com/431636473553401 | 2021/23 | 1743 | 279554 | 7842 | 543502 |
| Libertad Digital | www.facebook.com/141423087721 | 2021/23 | 8447 | 523261 | 12025 | 543356 |
| okdiario.com | www.facebook.com/376573025871689 | 2021/23 | 16783 | 3366397 | 35028 | 4235777 |
| Periodista Digital | www.facebook.com/376573025871689 | 2021/23 | 1667 | 367584 | 5453 | 528724 |
| Twitter | | | | | | |
| ElSaltoDiario | www.twitter.com/ElSaltoDiario | 2023 | | | 9134 | 142506 |
| Endesa | www.twitter.com/Endesa | 2023 | | | 1 | 3 |
| Info_Hispania | www.twitter.com/Info_Hispania | 2021/23 | 331 | 191 | 146 | 100 |
| _infoLibre | www.twitter.com/_infoLibre | 2023 | | | 8989 | 227302 |
| libertaddigital | www.twitter.com/libertaddigital | 2023 | | | 6093 | 289147 |
| MediterraneoDGT | www.twitter.com/MediterraneoDGT | 2021/23 | 1762 | 98899 | 1251 | 249617 |
| ntvespana | www.twitter.com/ntvespana | 2021/23 | 1007 | 3052 | 3146 | 6068 |
| periodistadigit | www.twitter.com/periodistadigit | 2021/23 | 371 | 7014 | 3078 | 34953 |
| rielcano | www.twitter.com/rielcano | 2023 | | | | |



Sweden

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|-----------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Flamman | www.facebook.com/316462188971 | 2021/23 | 559 | 18791 | 459 | 13867 |
| FriaTider.se | www.facebook.com/112400195443617 | 2021/23 | 643 | 203469 | 326 | 49228 |
| Nyheter Idag | www.facebook.com/647421441984111 | 2021/23 | 1745 | 591705 | 1090 | 174243 |
| Samhällsnytt | www.facebook.com/1916606461940878 | 2021/23 | 1743 | 302658 | 1301 | 156817 |
| Twitter | | | | | | |
| AgnesWold | www.twitter.com/AgnesWold | 2023 | | | 1 | 34 |
| ETC_redaktionen | www.twitter.com/ETC_redaktionen | 2021/23 | 1556 | 7451 | 1819 | 30168 |
| Flamman_ | www.twitter.com/Flamman_ | 2021/23 | 377 | 2477 | 376 | 6889 |
| friatider | www.twitter.com/friatider | 2021/23 | 783 | 59841 | 760 | 58728 |
| samhallsnytt | www.twitter.com/samhallsnytt | 2021/23 | 1810 | 89870 | 1907 | 121660 |

Switzerland

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|----------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| DIE WELTWOCHE | www.facebook.com/38916537049 | 2021/23 | 1790 | 94872 | 1790 | 72060 |
| ExpressZeitung | www.facebook.com/1378045312483970 | 2021/23 | 45 | 4858 | 16 | 295 |
| INFO Schweiz | www.facebook.com/201684812063 | 2021/23 | 757 | 86787 | 343 | 119541 |
| Infosperber | www.facebook.com/159492510740242 | 2021/23 | 962 | 14436 | 750 | 4835 |

United Kingdom

| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|----------------|-----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Byline Times | www.facebook.com/1281269518681542 | 2021/23 | 1558 | 185293 | 1027 | 48995 |
| Guido Fawkes | www.facebook.com/160128910791789 | 2021/23 | 1745 | 272690 | 2183 | 75648 |
| Heaver News | www.facebook.com/1070954163040450 | 2021/23 | 834 | 220898 | 316 | 19428 |
| Novara Media | www.facebook.com/404716342902872 | 2021/23 | 798 | 272515 | 2919 | 489689 |
| The Canary | www.facebook.com/933818496656944 | 2021/23 | 1874 | 329844 | 2737 | 74908 |
| WorldTruth.Tv | www.facebook.com/367730457538973 | 2021/23 | 1373 | 1512 | 421 | 131 |
| Twitter | | | | | | |
| BylineTimes | www.twitter.com/BylineTimes | 2023 | | | 1528 | 178984 |
| ChathamHouse | www.twitter.com/ChathamHouse | 2023 | | | 2 | 125 |
| GuidoFawkes | www.twitter.com/GuidoFawkes | 2023 | | | 4921 | 573975 |
| HeaverNews | www.twitter.com/HeaverNews | 2023 | | | 3 | 633 |
| novaramedia | www.twitter.com/novaramedia | 2021/23 | 1108 | 126273 | 2414 | 198181 |
| TheCanaryUK | www.twitter.com/TheCanaryUK | 2021/23 | 1807 | 50172 | 2024 | 24066 |

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| Name of outlet | Link | Year | Posts 2021 | Likes 2021 | Posts 2023 | Likes 2023 |
|------------------|----------------------------------|---------|---------------|---------------|---------------|---------------|
| Facebook | | | | | | |
| Breitbart | www.facebook.com/95475020353 | 2021/23 | 965 | 6546600 | 4878 | 11060601 |
| Daily Kos | www.facebook.com/43179984254 | 2021/23 | 1703 | 586039 | 828 | 135881 |
| Occupy Democrats | www.facebook.com/346937065399354 | 2021/23 | 3013 | 4285445 | 15110 | 86353474 |
| The Daily Caller | www.facebook.com/182919686769 | 2021/23 | 1739 | 6 | 17925 | 8380452 |
| The Epoch Times | www.facebook.com/92239399265 | 2021/23 | 1504 | 3066614 | 19299 | 3022079 |
| The Young Turks | www.facebook.com/210277954204 | 2021/23 | 1483 | 5320037 | 26158 | 5829950 |
| Twitter | | | | | | |
| bennyjohnson | www.twitter.com/bennyjohnson | 2023 | | | 1 | 3443 |
| BreitbartNews | www.twitter.com/BreitbartNews | 2023 | | | 7119 | 2659934 |
| DailyCaller | www.twitter.com/DailyCaller | 2023 | | | 14654 | 2337389 |
| dailykos | www.twitter.com/dailykos | 2021/23 | 1060 | 28565 | 327 | 9583 |
| FollowYourHeart | www.twitter.com/FollowYourHeart | 2021/23 | 231 | 4703 | 40 | 493 |
| MZHemingway | www.twitter.com/MZHemingway | 2023 | | | 2 | 379 |
| OccupyDemocrats | www.twitter.com/OccupyDemocrats | 2023 | | | 4205 | 13968505 |
| SpheraNetwork | www.twitter.com/SpheraNetwork | 2023 | | | 2 | 2 |
| ViolaNewYork | www.twitter.com/ViolaNewYork | 2021/23 | 2 | 0 | 9 | 19 |

Note. Posts refer to the number of posts on Facebook and tweets on Twitter, respectively.









Grant Agreement No 822166