

Research report

COVID-19, Disinformation and Hateful Extremism

Literature review report

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Preface

This report was produced by RAND Europe for the Commission for Countering Extremism (CCE) to examine hateful extremism within society during COVID-19. It presents the findings of a literature review that explored the links between hateful extremism and false information, and identifies associated online interventions and policy responses. **This report has been published by an independent body. The views and opinions expressed are those of the authors and do not necessarily reflect the official policy or position of the UK Government or the Commission for Countering Extremism.**

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Executive Summary

This study explores hateful extremism within society during COVID-19

The COVID-19 pandemic has provided a breeding ground for conspiracy theories, disinformation and hateful extremism. Pandemics are inherently fast-moving and information is constantly evolving, creating opportunities for hateful extremist groups to spread doubt, fear and suspicion among the public. Forums such as 4Chan and Reddit are hubs for real-time debate, conspiracy theories and disinformation. Similarly, social media platforms such as Facebook, Twitter and YouTube play a role in generating and amplifying false information. During lockdown and with rising unemployment, more people have been spending time at home and online, with greater exposure to false information and hateful extremist narratives.

Particularly in the COVID-19 context, it is important to ensure that today's digital generations are equipped to identify hateful extremism and false narratives in order to build societal resilience. As COVID-19 presents an unprecedented challenge and a catalyst for false information, this rapidly developing area requires research input. There is a need to consolidate existing research, better understand the evidence base and address gaps to inform primary research, policy planning and decision making.

In July 2020, the Commission for Countering Extremism (CCE) commissioned Ipsos MORI and RAND Europe to undertake a study to examine hateful extremism within society during COVID-19. This report presents the findings of a literature review conducted by RAND Europe on the links between hateful extremism and false information,¹ and on associated online interventions and policy responses. The study team addressed six research questions under the two review themes:

Review theme 1: Links between hateful extremism and false information

- 1.1: What impact can false information have on hateful extremist beliefs and behaviours?
- 1.2: In what ways do hateful extremist beliefs contribute to the spread of false information?
- 1.3: What trends and variations can be identified across different audience types, modes of false information, and extremist groups?

Review theme 2: Associated online interventions and policy responses

- 2.1: What insights can be identified from the literature on the effectiveness of existing interventions and policy responses?
- 2.2: What recommendations are put forward in the existing literature in relation to future interventions in this area?

¹ In this report, we use 'false information' as a catch-all term to refer collectively to online misinformation, disinformation and conspiracy theories. An overview of key definitions is provided in Section 1.2, and a more detailed glossary of terms is presented in Annex A.

- 2.3: What transferrable lessons/'good practices' from successful interventions in related policy areas can be identified?

The research questions were addressed through a Rapid Evidence Assessment (REA), which involved a review of 93 relevant papers across disciplines including psychology, political science, sociology and law.

False information can shape hateful extremist beliefs and behaviours by leading to the growth of echo chambers and a rise in hate incidents (Q1.1)

The literature offers several hypotheses on the links between false information and hateful extremism, but the quality and quantity of the literature is not sufficient to provide strong, empirical evidence of these associations. The literature indicates that false information can lead to the growth of echo chambers, cementing hateful extremist attitudes by desensitising group participants to hateful language and narratives. As part of this process, echo chambers attract a concentration of extremists, without the presence of more moderate users to challenge their perspectives. False information has also been associated with increasing levels of hate crime and blame on minority groups for the current pandemic, although the direction of these relationships is not known. In the COVID-19 context – and with the increasing reach of false information – minority groups including Jewish, Chinese and Muslim communities have been blamed for the spread of the virus by hateful extremists.

Hateful extremists are incentivised to spread disinformation and conspiracy theories by increased exposure and recruitment benefits (Q1.2)

While hate groups are not the only actors to disseminate false information, it is in the interests of hateful extremists to spread disinformation and conspiracy theories. The dissemination of this type of false information may give hateful extremist groups increased exposure, including through mainstream media reporting and public officials' statements. Hateful extremist narratives are also used as a recruitment tool and are tailored to appeal to people struggling from a lack of prospects in the current COVID-19 climate, in an effort to attract new supporters and sympathisers who might be susceptible to the influence of false information. Hateful extremist narratives typically incorporate disinformation by focusing on specific groups of people as 'out-groups', whether by expressing superiority over other groups, criticism of their opponents or victimisation by others. These types of narratives are increasingly shared by hateful extremists via automated social media accounts ('bots'), and dissemination techniques are shifting to more sophisticated online interactions through impersonation and amplification of organic posts. Using these techniques, hateful extremists are incentivised to spread false information by the allure of publicity and new supporters.

Hateful extremist actors typically direct their narratives against ‘out-groups’, but these narratives frame the pandemic in different ways (Q1.3)

Common trends and variations can be identified in relation to how hateful extremist groups have framed the pandemic in their narratives. Many different types of hateful extremist actor operate online, ranging from far-right extremists to Islamist hate actors. While these various actors have exploited the current pandemic to advance their interests, they have taken different approaches in doing so. Far-right groups often blame migration, globalisation or the government for the virus, while some Islamist extremist actors instead see the pandemic as a form of divine punishment against unbelievers. However, all groups tend to direct hostile narratives at ‘out-groups’, leveraging public fear and uncertainty surrounding the global pandemic. As more people – particularly young people – have been consuming online content during lockdown, this is likely to have exposed a greater cross-section of the population to hateful extremist recruitment.

While empirical evidence on the effectiveness of online interventions is limited, the literature highlights that fact-checking, counterspeech, takedowns and education appear to work (Q2.1)

The review identified four categories of online initiatives for countering false information and hateful extremism: fact-checking, counterspeech, takedowns and education. While the reviewed literature does not offer rigorous empirical evaluations of such interventions, papers identify several promising practices promoted by civil society, government, media and social-media-company actors in terms of reducing the spread of false information and building societal resilience. The ‘good practices’ identified in this report are those highlighted in the reviewed literature as being effective, timely and relevant in curbing the online spread of false information and in building societal resilience to hateful extremism. For example, the UK-based organisation Stop Funding Fake News is working to prevent disinformation sites from earning advertising revenues. Policy interventions have also offered value in terms of holding social media platforms to account for removing false information, as evident in the 2018 German NetzDG Act. Media organisations counter hateful extremist disinformation by avoiding clickbait and maintaining transparency in factchecking, and social media companies contribute by modifying algorithms to avoid ‘recommending’ harmful content. It is worth noting that this report presents the findings and recommendations of the relevant literature, rather than offering an independent analysis of the effectiveness of counter measures.

The reviewed literature offers a number of recommendations for the design and delivery of future interventions (Q2.2)

COVID-19 presents a unique challenge for policymakers and organisations seeking to tackle false information. Reviewed sources offer recommendations for decision makers tasked with designing and implementing future interventions and policy responses, though it should be noted that these recommendations are typically not based on robust empirical evaluations. For governments, sources highlight a need to dedicate more resources to combat false information in order to build societal

resilience, as well as to conduct or commission further research into the impacts of hateful extremist narratives. Social media companies and media organisations are also urged to take more responsibility, respectively by managing the content on their platforms and ensuring that outlets adhere to good journalist practices (e.g. avoiding clickbait headlines).

This report offers multidisciplinary findings on hateful extremism, but reviewed sources offered limited insight from other policy areas (Q2.3)

Successful online interventions in alternative policy areas were not identified in the reviewed papers and are accordingly not explored in this report. While one source referred to gang violence, the reference was made solely to distinguish this threat from extremism (Baldauf et al. 2019). The paper observed a link between criminal biker gangs and right-wing hate groups, but noted that the former lacks an ideology to legitimise their acts of violence, limiting the transferability of insights from this group to right-wing hate groups. Beyond this source, there was limited reference to other policy areas in the reviewed papers. It should nonetheless be noted that the interventions and policy responses presented in this report are identified from papers across a wide range of disciplines – including psychology, political science, sociology and law – offering a diverse range of perspectives and approaches.

This report presents a set of policy considerations for CCE

The report sets out policy considerations for CCE based on the literature insights identified:

- **Investing in research could help address evidence gaps and strengthen responses to false information and hateful extremist narratives.** As outlined below, there is a need for further evaluations of existing interventions, as well as research on directional motivations and studies with a wider reach in terms of geography, languages and online content. Developing a more comprehensive understanding of the issue of false information and its use in hateful extremist messaging should help inform effective responses.
- **Holding tech companies to account could increase their responsiveness to false information and hateful extremism.** As the implementation of the 2018 NetzDG Act exemplifies, levying large fines on tech companies that do not remove false information and hateful extremist content in a timely way can increase companies' responsiveness in removing this content from their platforms.
- **Investing in education could help raise awareness of the dangers of false information and hateful extremism.** Particularly in light of review findings that younger people are more likely to encounter false information and to accept its presence online, investing in education and training is important in increasing public awareness of false information. Given increased exposure of online users to this content during COVID-19, there is a pressing need to educate the public about the threat of false information and its use by hateful extremists, and about public actions to support individual resilience.
- **Collecting and publishing information regarding indicators of hateful extremism could help improve policy responses.** The literature highlights a need for governments to collate and publish information on hateful extremism. There is a need to broaden the type of information collected (e.g. looking beyond text-based content to include images, audio, memes and other content), make greater use of computational advances (e.g. machine learning), and to ensure the quality of statistics (e.g. via independent peer review). A better understanding of the nature and scale of the threat could help enhance policy responses and improve public resilience.

- **Exploring the use of ‘good’ bots could support the spread of positive narratives online.** It is evident from online activity during major political events (e.g. the 2016 US presidential election) that the use of trolls and bots has manipulated voter behaviour and deepened societal divides. Noting the persuasiveness of these tactics, there could be scope to explore the adaptation of such techniques to instead promote democratic values of tolerance, acceptance and diversity on social media, as well as to constrain the reach and influence of online hate speech.
- **Collaborating across sectors could ensure that interventions are mutually reinforcing.** Coordination across UK policy officials, social media moderators, educators, journalists, civil society organisers, research experts, legislators and other national governments could help ensure that HMG policy and guidance reflects an understanding of the scale and nature of the challenge from hateful extremists’ use of false information, and complements activities that are being delivered elsewhere.

The study also identifies essential avenues for further research

Based on the evidence gaps identified, the study highlights areas that would benefit from further analysis and exploration:

- **Independent and robustly designed evaluations of existing interventions.** To inform a better understanding of the effectiveness of existing counter-measures, there would be merit in conducting independent evaluations of interventions dedicated to tackling hateful extremism and false information. Evaluations could focus on measuring the effectiveness of factchecking, counterspeech, takedowns or educational initiatives for countering false information and its use by hateful extremist actors. The results of these evaluations should be made publicly available to help inform effective future interventions.
- **Research on ‘directional motivations’ (an individual’s propensity to hold onto existing attitudes).** By focusing on ‘directional motivations’, future studies could improve understanding of the characteristics of individuals who are more prone to hateful extremist beliefs and behaviours. This could also help enhance awareness of the way these individuals respond to false information. This research could shape new interventions, informing an understanding of conditions under which particular responses to false information will be more (or less) effective.
- **Studies with broader coverage in terms of geography, languages and online content.** To develop a fuller evidence base for policy and decision makers, future studies should analyse a wider range of: (i) countries and regions, noting the Euro- and US-centric focus of the current literature;² (ii) languages, to understand non-English-language false information; and (iii) types of online content, moving beyond text-based content to images, audio files, memes, GIFs or videos. Researchers could rely more on automated processes and machine learning approaches to analyse large volumes of online content, allowing for larger and more varied datasets.

² It should be noted that this report has been written to inform CE policy in England and Wales. Our review of the literature nonetheless revealed that there is a broader shortage of empirical studies with a focus on geographical areas beyond Europe and the US, which could be of interest for future work.

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Abbreviations

BNP	British National Party
CCDH	Center for Countering Digital Hate
CCE	Commission for Countering Extremism
CoE	Council of Europe
CST	Community Security Trust
CVE	Countering Violent Extremism
EU	European Union
ICCT	International Centre for Counter-Terrorism
ISIS	Islamic State of Iraq and Syria
MENA	Middle East and North Africa
NHS	National Health Service
PVE	Preventing Violent Extremism
REA	Rapid Evidence Assessment
STREET	Strategy to Reach, Empower, and Educate Teenagers
UK	United Kingdom
UN	United Nations
UNESCO	The United Nations Educational, Scientific and Cultural Organisation
US	United States

1. Introduction

In July 2020, the Commission for Countering Extremism (CCE) commissioned Ipsos MORI and RAND Europe to undertake a study to understand and respond to hateful extremism within society during the COVID-19 pandemic. This document presents the findings of a literature review conducted by RAND Europe on the links between extremism and false information, and on associated online interventions and policy responses.³

1.1. Background

The current COVID-19 crisis has seen the spread of conspiracy theories, disinformation and hateful extremist narratives.⁴ Recent research indicates that a significant proportion of the UK population believes in conspiracy theories relating to COVID-19.⁵ According to one survey, at the beginning of the pandemic some 3 in 10 respondents believed that COVID-19 was created in a lab, while 1 in 8 saw the pandemic as part of a global effort to force the public to be vaccinated.⁶ Certain conspiracies surrounding COVID-19 are more sinister, deriving from false information around ethnic and religious minorities, particularly the Chinese, Jewish and Muslim communities. Harmful narratives can lead to hate crime and discriminatory behaviour, with such false narratives including disinformation that links COVID-19 to a fabricated Jewish plot to initiate a new world war,⁷ blames Chinese communities for spreading the virus,⁸ and accuses Muslims of flouting social distancing rules.⁹

During lockdown, more people are spending time online and on social media – a domain in which conspiracy theories, misinformation and disinformation thrive and multiply.¹⁰ While false

³ The findings presented in this report derive from the reviewed literature analysed by RAND Europe researchers and do not necessarily reflect the views of the CCE.

⁴ ‘Hateful extremism’ refers to behaviours that ‘incite and amplify hate, or engage in persistent hatred, or equivocate about and make the moral case for violence’, drawing on hateful, hostile or supremacist beliefs directed at an out-group, ‘who are perceived as a threat to the wellbeing, survival or success of an in-group’; which can cause harm to individuals, communities or wider society as a whole. CCE (2019) (see Annex A).

⁵ King’s College London (KCL) & Ipsos MORI (2020).

⁶ KCL & Ipsos MORI (2020).

⁷ CST (2020).

⁸ Pei and Mehta (2020).

⁹ Ariza (2020).

¹⁰ Ziems et al. (2020); EC (2018); Jones (2020); Polyakova & Fried (2019); Ayad (2020); ‘Misinformation’ refers to the distribution of incorrect information without the intention to mislead, while ‘disinformation’ refers to the deliberate dissemination of misleading information, Brennen et al. (2020) (see Annex A).

information can be shared offline through family, social networks, books or newspapers, the online domain presents a considerable challenge. A lack of traditional media gatekeepers has made online platforms fertile ground for false information, where any internet user can broadcast their opinions, memes, doctored images or conspiracy films. As of June 2020, over 1 billion students worldwide were no longer at school and spent more time online,¹¹ providing hateful extremists with the opportunity to engage audiences with false-information-based propaganda on an unprecedented scale.¹²

Within this wider context, the UK faces particular challenges. A high proportion of far-right extremists with an extensive social media reach are UK citizens,¹³ and there are gaps in the UK's response to hateful extremism. Unlike terrorism¹⁴ – for which there is a more developed response under CONTEST¹⁵ – hateful extremism is defined by its focus on inciting and amplifying hate, and making the moral case for violence.¹⁶ Furthermore, hateful extremist narratives direct hostile or supremacist beliefs at other groups, with the potential to cause harm to individuals, communities and wider society. Hateful extremism falls under the 'umbrella' of extremism, but is distinct from violent extremism – which includes the use of terrorist tactics and/or violence.¹⁷ While there are generally structured responses to terrorism and violent extremism, there is not such a developed framework to deal with hateful extremism.

The COVID-19 pandemic has provided a breeding ground for hateful extremism. Pandemics are inherently fast-moving contexts in which information – even from credible expert sources – is constantly evolving.¹⁸ This can create opportunities for extremist groups to sow seeds of doubt and suspicion among the public. By leveraging heightened public fear and hijacking COVID-19 content, extremists can spread hateful views, particularly on race.¹⁹ Forums such as 4Chan and Reddit have become hubs for real-time debate, conspiracy theories and mis/disinformation;²⁰ while social media platforms – such as Facebook, Twitter and YouTube – similarly play a role in hosting and amplifying false information.²¹ An empirical study measuring the diffusion of falsehoods and truth on Twitter over a decade suggests that lies spread faster than truth online, due in part to such false information being novel, or invoking fear or disgust.²² Furthermore, despite increasing moderation by social

¹¹ UN (2020).

¹² UN (2020).

¹³ Lowles and Levene (2019).

¹⁴ 'Terrorism' can refer to the use or threat of action to intimidate the public and further political, religious, racial or ideological goals, CPS (2019) – though it should be noted that a range of differing definitions exist.

¹⁵ HM Government (2018).

¹⁶ CCE (2020).

¹⁷ CCE (2020).

¹⁸ Colliver and King (2020).

¹⁹ Colliver and King (2020).

²⁰ Marwick and Lewis (2017).

²¹ ISD (2020).

²² See, for example, Vosoughi et al. (2018).

media companies, there have been sustained increases in traffic to far-right websites, and in the number of followers of far-right social media accounts.²³

The ongoing pandemic has been conducive to the spread of hateful narratives, and lockdown conditions have seen an increase in online searches for extremist content.²⁴ In the US, for example, Moonshot CVE found a 21 per cent average increase in engagement with violent extremist content in states with lockdown measures in place for 10 or more days.²⁵ Similarly, in Canada, there has been a significant increase in extremist-related search traffic during COVID-19, with an average increase of 18.5 per cent across the country.²⁶ There has not yet been a comparable study published in the UK, though such a publication could provide important insights. In the UK, referrals to Prevent saw a 50 per cent decrease between 23 March 2020 (early lockdown) and 22 April 2020, because the usual in-person school or local authority referral channels had been disrupted by COVID-19. This prompted concerns that those who might otherwise need and receive a Prevent intervention were being targeted by extremist Islamist or right-wing radicalisation tactics, making them increasingly vulnerable to hateful extremist influences.²⁷

Social media creates conditions for hateful extremist actors to mobilise by broadcasting false information, harassing opponents, and coordinating activity – including protests and publicity stunts.²⁸ Prominent online trolls, conspiracy theorists and ideologues are significant nodes within networks, holding disproportionate influence among other actors with the ability to amplify narratives and manipulate media.²⁹ Terrorist actors are similarly leveraging social media, particularly given that lockdown has reduced the effectiveness of common tactics – such as attacks on crowded spaces³⁰ – and disrupted their global and national supply chains.³¹ In a shift away from physical attacks, many such groups have concentrated their efforts online.

As argued by Briant (2018), many of the online methods employed by hateful extremists reflect training and knowledge acquired in the military or intelligence.³² While it is important to note that the vast majority of those posting hateful content do not have such backgrounds or training, it is possible that some of the methods are borrowed from military or intelligence playbooks. The evolution of sophisticated tactics – including deception techniques, demoralisation tactics and the exploitation of psychological weaknesses – requires governments, social media companies, news/media organisations and civil society to remain equipped to tackle these developments. Particularly in the COVID-19 context, the proliferation of hateful extremist propaganda and conspiracy theories surrounding the pandemic requires an urgent response, and there is a need to

²³ Lowles and Levene (2019).

²⁴ Avis (2020).

²⁵ Avis (2020); Moonshot (2020a).

²⁶ Moonshot (2020b).

²⁷ Dodd (2020).

²⁸ Davey et al. (2020). For further analysis of the benefits that disinformation offers hateful extremist actors, see Section 3.1.

²⁹ Marwick and Lewis (2017).

³⁰ UN (2020).

³¹ UN (2020).

³² Briant (2018); Jones (2020).

ensure that today's digital generations are equipped with the tools to identify hateful extremism and false narratives in order to build societal resilience. As the COVID-19 pandemic presents an unprecedented challenge and a catalyst for false information, this rapidly developing area requires research input. There is a need to consolidate existing research, better understand the evidence base and address evidence gaps to inform primary research, policy planning and decision making.

1.2. Purpose and scope

The purpose of this report is to present the findings of the REA to address research questions under each review theme, as presented below.

Review theme 1: Links between hateful extremism and false information

- 1.1: What impact can false information have on hateful extremist beliefs and behaviours?
- 1.2: In what ways do hateful extremist beliefs contribute to the spread of false information?
- 1.3: What trends and variations can be identified across different audience types, modes of false information, and extremist groups?

Review theme 2: Associated online interventions and policy responses

- 2.1: What insights can be identified from the literature on the effectiveness of existing interventions and policy responses?
- 2.2: What recommendations are put forward in the existing literature in relation to future interventions in this area?
- 2.3: What transferrable lessons/'good practices' from successful interventions in related policy areas can be identified?

Definitions and caveats

For the purposes of this review, we refer to '**hateful extremism**' as behaviours that 'incite and amplify hate, or engage in persistent hatred, or equivocate about and make the moral case for violence', drawing on hateful, hostile or supremacist beliefs directed at an out-group, 'who are perceived as a threat to the wellbeing, survival or success of an in-group'; which can cause harm to individuals, communities or wider society as a whole.³³ In this report, we use '**false information**' as a catch-all term to refer collectively to online misinformation, disinformation and conspiracy theories.³⁴ We draw a distinction between '**misinformation**' and '**disinformation**', based on the intent of an individual or group to spread that information. Misinformation refers to the distribution of incorrect information without the intention to mislead, whereas disinformation refers to the deliberate

³³ CCE (2019).

³⁴ Kumar and Shah (2018); Brennen et al. (2020).

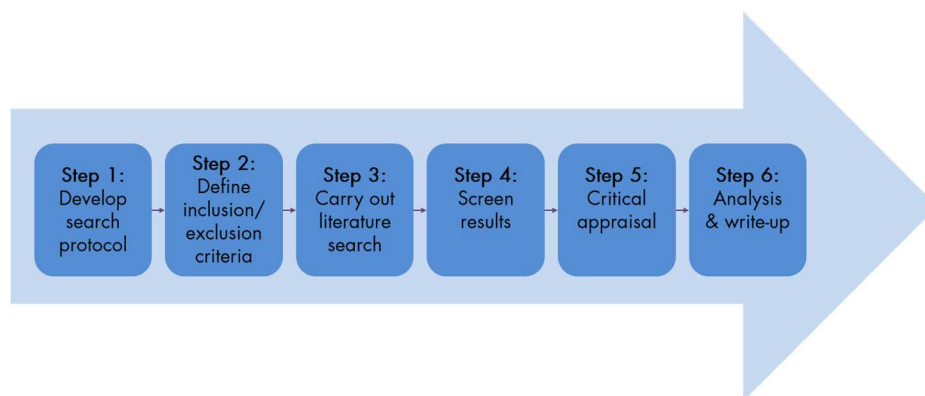
dissemination of misleading information.³⁵ In this report, ‘conspiracy theories’ can be understood as narratives created to infer that an event or situation is the result of a secret plan made by powerful individuals or groups.³⁶ An expanded set of definitions for the key terms used in this report is presented in Annex A.

There are several scoping considerations and caveats to note when considering the findings of this report. As outlined in Section 1.3 and Annex B, our literature review was based on a Rapid Evidence Assessment (REA)³⁷ approach. An REA was considered to be the most appropriate methodology for this study, offering a structured and robust approach within the constraints of the study. However, the review is not intended to be exhaustive or to include all papers on the topic of hateful extremism, false information and associated interventions. A further consideration to note is that when discussing existing and future interventions, this document reports on the findings and recommendations of reviewed sources rather than offering an independent assessment of their effectiveness. Reflecting the focus of the wider study, the review focused on interventions and policy responses with an online and social media dimension.

1.3. Research approach

The study team used an REA-based approach to deliver the literature review. The REA approach followed the six steps presented in Figure 1-1 and expanded on below.

Figure 1-1: REA approach



- **Step 1 – Develop search protocol:** RAND Europe developed a search protocol with a focus on the two review themes: (i) links between hateful extremism and false information; and (ii) associated online interventions and policy responses. The protocol involved the use of four search strings – combinations of terms to yield search results – covering the review themes from a general standpoint and with a focus on COVID-19. Sources were gathered via

³⁵ Ball and Maxmen (2020).

³⁶ Bolsen and Druckman (2018); Connolly et al. (2019); Douglas et al. (2019a); Vegetti & Levente (2020); ISD (2020); Fangen and Holter (2020); Holbrook (2020).

³⁷ A Rapid Evidence Assessment (REA) is a form of literature review that provides an overview of the quantity and quality of evidence in a particular field, but is not as exhaustive as a systematic review.

academic database searches (Academic Search Complete, Policy File Index, Scopus and Google Scholar), snowballing and targeted searches, as well as via sources provided by CCE and Ipsos MORI.

- **Step 2 – Define inclusion/exclusion criteria:** With a focus on the two review themes, the inclusion criteria were as follows:
 - **Geographic location:** UK (primary); rest of world (secondary);
 - **Source types:** academic, grey (research papers, evaluations, policy documentation), polling data;
 - **Language:** English-language sources;
 - **Publication date:** 2010–2020 (searches 2 and 4); 2020 (searches 1 and 3).
- **Step 3 – Carry out literature search:** An initial database search by RAND’s Knowledge Services across Academic Search Complete, Policy File Index, Scopus and Google Scholar yielded 793 sources, which were loaded onto an EndNote database.
- **Step 4 – Screen results:** The 793 sources from the database search were screened against the inclusion criteria and narrowed down to 29 sources, which were added to the sources shared by CCE (29), provided by Ipsos MORI (5), identified through snowballing (14), and identified through targeted searches (16), resulting in a total of 93 sources.
- **Step 5 – Critical appraisal:** A full-text review of the 93 sources was then undertaken. For each source, data was extracted into a spreadsheet, with the content mapped against a set of categories including definitions and scope (e.g. country focus, type of hateful extremism); links between hateful extremism and false information; interventions and policy responses; and the research methods underpinning each reviewed source.
- **Step 6 – Analysis & write-up:** An Internal Synthesis Workshop was held on 11 August 2020, at which researchers from RAND Europe and Ipsos MORI discussed the emerging findings from the literature review and their implications for potential future research. Findings were then written up in a narrative synthesis and integrated into this report.

For a fuller description of the research approach, please refer to Annex B.

1.4. Structure of the report

In addition to this introduction, this report contains four substantive chapters:

- **Chapter 2** characterises the evidence base by providing an overview of the reviewed papers according to their geographic focus, underlying research methods and the type of hate/extremism examined.
- **Chapter 3** presents findings in relation to the first review theme, and describes how hateful extremism is linked to false information in the literature.
- **Chapter 4** outlines the findings of the second review theme, and presents a range of associated online interventions and policy responses.
- **Chapter 5** summarises the key findings of the review, identifies policy considerations for CCE and highlights areas for future research.

The report contains three annexes that complement and add further supporting detail to the core report chapters:

- **Annex A** provides expanded definitions of the key terms identified in the literature review, elaborating on those included in this chapter.
- **Annex B** describes the research methods used to undertake this study, expanding on the summary presented in Section 1.3.
- **Annex C** (separate) presents the underlying research methods that form the basis of the reviewed papers, expanding on Section 2.1.4 and offering clarity on the strength of the evidence base.

2. Characterising the evidence base

This chapter provides an overview of existing research on the links between hateful extremism and false information, and on associated online interventions and responses. The sections below are intended to provide the reader with a contextual understanding of the evidence base before considering the core findings of the review, which are presented in Chapters 3 and 4.

2.1. Overview of reviewed sources

The study team reviewed a total of 93 sources as part of the literature review, drawing on papers across disciplines including psychology, political science, sociology and law to offer a rich range of insights. The paragraphs below describe the geographic focus of the papers (Section 2.1.1); the type of hate or extremism described by sources (Section 2.1.2); the number of sources focusing specifically on COVID-19 (Section 2.1.3); and the distribution of underlying research methods used in the reviewed sources (Section 2.1.4).

2.1.1. The majority of papers focus on European countries, of which more than half examine the UK context

Of all the sources reviewed, 70 papers (75 per cent of all 93 papers) state an explicit geographic focus. Among these, the majority focus on the European context, with 26 papers (28 per cent) focusing on European countries or regions. Further to this, 23 papers (25 per cent) have a global focus spanning a wide range of countries. Remaining papers with an explicit geographic focus are concerned with the US (14; 15 per cent), Canada (2; 2 per cent), Australia (2; 2 per cent), the MENA³⁸ region (2; 2 per cent) and the Maldives (1; 1 per cent).

Of the papers focusing on the European context, a quarter cover the European Union (EU) or Europe as a whole; of these, four (4 per cent) focus on the EU only and three (3 per cent) consider Europe or the EU alongside other parts of the world. Of the EU-specific sources, 73 per cent focus on individual countries or comparisons between individual countries. Among these, 14 (15 per cent) focus on the UK, half of which cover the UK alone while the other half examine the UK in comparison with other countries. Six papers (6 per cent) focus on Germany, with five of these papers (5 per cent) covering Germany only and a single paper considering Germany alongside five other democracies: Sweden, Denmark, Austria, the UK and the US. The three remaining European papers focus respectively on Denmark, Finland and the Czech Republic.

³⁸ MENA: Middle East and North Africa.

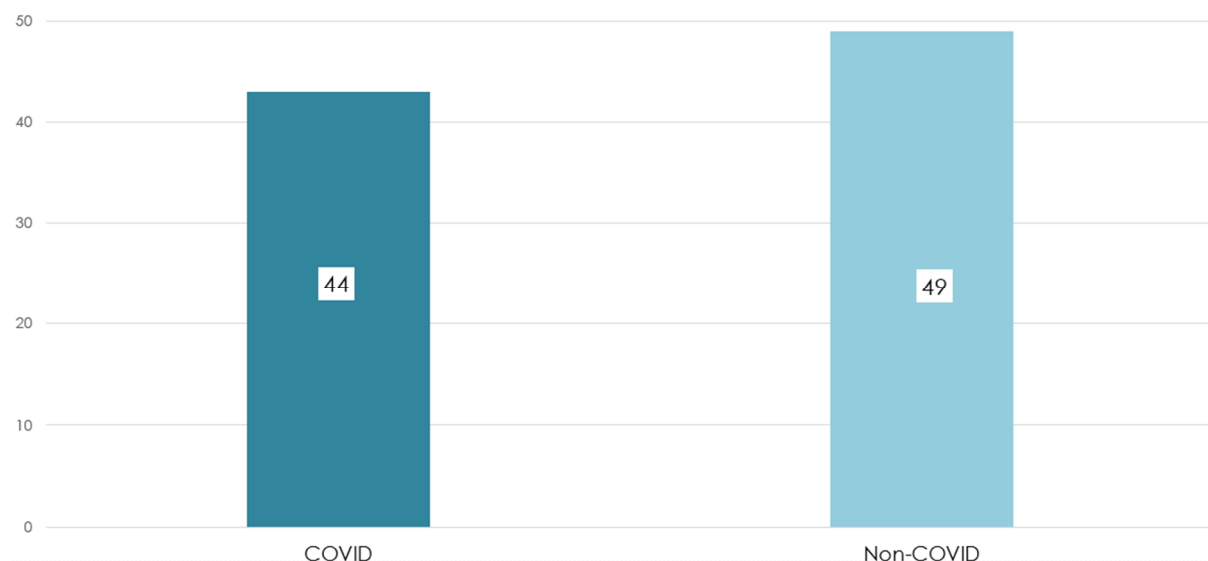
2.1.2. Most sources do not focus on specific types of hateful extremism but instead explore false information or hateful extremism more generally

Most of the reviewed sources do not focus on any specific type of hateful extremism, and instead explore broader trends relating to false information (35; 38 per cent). Other sources refer to hate speech in general (10; 11 per cent); (violent) extremism in general (9; 10 per cent); several types of extremism in combination (8; 9 per cent); xenophobia (4; 4 per cent); or conspiracy theories (2; 2 per cent). Where hateful extremist types *are* specified and focused on one area, the sources mostly focus on racism. With 24 papers (26 per cent) explicitly covering racism, this represents more than half of the sources focusing on a specific type of hateful extremism. Among the remaining papers, eight sources (9 per cent) exclusively cover right-wing extremism, five (5 per cent) exclusively cover Islamist extremism and four (4 per cent) exclusively examine antisemitism. While we have identified the above categories in the interests of clearly presenting the distribution of sources across hateful extremist ‘types’, it should nonetheless be noted that some reviewed papers conflate or identify links between different categories, particularly with regard to overlaps between racist narratives and right-wing extremism.

2.1.3. Of the reviewed sources, almost half focus on the COVID-19 context

As discussed in Chapter 2 and in Annex B of this document (see Section B.2), search strings were designed to identify papers that explicitly focused on the COVID-19 context, as well as those that explored false information, hateful extremism and associated responses more generally (i.e. outside of the COVID-19 context). Among the 93 reviewed sources, 44 papers (47 per cent) focus specifically on the COVID-19 context. Figure 2-1 illustrates the split between reviewed sources related to and not related to COVID-19.

Figure 2-1: Distribution of sources related vs not related to COVID-19



Source: RAND Europe (2020)

Papers that do not focus on the COVID-19 context represent a small majority of all reviewed sources (49 sources; 53 per cent). The focus of these sources, while diverse, can be grouped under three main themes:

- Around half of the non COVID-related sources describe policy and set out recommendations for governments and social media companies in relation to countering online hate, radicalisation and violent extremism.
- Around a third of non COVID-related papers present research on types of false information and how they further extremist agendas.
- Remaining sources provide mostly an analysis on the origins of different conspiracy theories and other types of false information.

2.1.4. The majority of reviewed papers are based on literature reviews

When examining the research methods used in the reviewed sources, the majority of papers rely on literature reviews. As shown in Table 2-1, 80 papers (86 per cent) are based on narrative literature reviews – which present a general, non-extensive assessment of relevant literature without disclosing selection methods – while three (3 per cent) are based on systematic literature reviews, offering a more thorough review approach with explicit selection criteria and extraction methods.³⁹

Sources relying on other methods make up less than half of the reviewed sources. Three papers (3 per cent) are based on interviews, six on workshops/focus groups (6 per cent), five on analysis of secondary data (5 per cent) and 11 (12 per cent) on surveys. There were 19 papers (20 per cent) based on other methods, which included social media analysis, discourse analysis and case study analysis. As there are some overlaps (some sources employ more than one methodology), the figures exceed the 93 sources in the literature review. The distribution of reviewed papers according to underlying research methods is presented in Table 2-1.

³⁹ Ferrari (2015).

Table 2-1: Distribution of reviewed sources according to underlying research method

Literature review (systematic)	Literature review (narrative)	Survey	Interviews	Workshops/ focus groups	Economic/ econometric analysis	Analysis of secondary data / management information	Other (please specify)

Literature review (narrative)	Literature review (systematic)	Workshops/ focus groups	Interviews	Analysis of secondary data	Survey	Other
80	3	6	3	5	11	19

Source: RAND Europe (2020)

Most of the reviewed sources are based on a single research method, particularly for those based on literature reviews and surveys. However, approximately 30 per cent of papers are based on a combination of methods:

- Some 27 per cent of sources based on narrative literature reviews and one source based on systematic literature reviews combine these methods with others, including workshops/focus groups, interviews, primary data analysis or surveys.
- The majority of papers relying on ‘other’ research methods (i.e. social media analysis, discourse analysis and case study analysis) are based on a combination of methods, including analysis of secondary data and, in a few cases, a literature review or interviews.

The literature review draws on a mixture of empirical analyses and expert opinions. As shown in the distribution of research methods in Table 2-1, a significant proportion of the research is based on secondary research. This highlights the importance of conducting primary research on this topic to generate new and timely evidence to inform policymaking, particularly as the COVID-19 pandemic continues to evolve and affect the spread of false information and hateful extremist behaviour. While the reviewed sources offer diversity in terms of geography, types of hateful extremism and COVID/non-COVID analytical framing, many papers are not robust in terms of providing strong, empirical evidence of the links between hateful extremism and false information, or offering policy recommendations based on tried and tested methods.⁴⁰ Nonetheless, as explored in Chapters 3

⁴⁰ For a more detailed overview of the methods used in the sources reviewed, please refer to the separate Annex C.

and 4, the findings presented in this report provide a number of plausible hypotheses regarding associations and the effectiveness of online interventions and policies.

The 'good practices' identified in Chapter 4 are those identified in the reviewed literature as being effective, timely and relevant in curbing the online spread of false information and in building societal resilience to hateful extremism. It is worth noting, however, that the literature review examines material across several disciplines (including sociology, political science, psychology and law), and that some of the measures are implemented in different countries with distinct cultural, social, historical and legal contexts – meaning that what is reportedly effective in one context might not be in another. While measures to prevent hateful extremist speech might be accepted in one context, such efforts could be rejected elsewhere.

3. Links between hateful extremism and false information

This chapter presents findings in relation to the first review theme, which explores links between hateful extremism and false information. A summary of key findings in relation to the research questions set out in Chapter 1 is first presented in Box 2. The chapter then examines the incentives for hateful extremist groups and prominent individuals or influencers to share false information (Section 3.1), the content of hateful extremist narratives (Section 3.2), methods of circulating false information (Section 3.3), and how false information can shape hateful extremist beliefs and behaviours (Section 3.4). Finally, Section 3.5 outlines evidence gaps identified by the reviewed sources.

Key findings relating to review theme 1

1.1: What impact can false information have on hateful extremist beliefs and behaviours?

- Overall, the literature sets out a number of hypotheses about the links between hateful extremism and false information, but there is limited empirical evidence that proves direct causality.
- The spread of conspiracy theories, misinformation and disinformation is associated with increasing levels of hate crime and blame on minority groups for COVID-19.
- The proliferation of false information has also led to the emergence of hateful extremist echo chambers, cementing hateful extremist attitudes by desensitising group participants to hateful content.

1.2: In what ways do hateful extremist beliefs contribute to the spread of false information?

- False information might serve extremist causes by:
 - Increasing exposure by infiltrating the mainstream, via the media or public officials who repeat hateful extremist messaging to a wider audience.
 - Supporting recruitment and fuelling violence by leveraging fear and blaming out-groups for crises (e.g. accusing Jews of orchestrating COVID-19).

1.3: What trends and variations can be identified across different audience types, modes of false information, and extremist groups?

- There is a shortage of research on the characteristics of individuals who are prone to hateful extremism, and a lack of evidence on the behavioural impacts of false information.

- During lockdown, a broader cross-section of the population – particularly young people – is consuming online content and potentially coming into contact with hateful extremist content.
- Far-right groups seek to blame migration, globalisation or the government for the virus, whereas Islamist extremists might see the pandemic as divine punishment against Westerners or infidels.
- Across different types of hateful extremists, groups tend to direct hostile narratives at ‘out-groups’, leveraging public fear and uncertainty surrounding COVID-19.

3.1. Benefits of false information for hateful extremist groups

As elaborated on below, hateful extremists are incentivised to spread false information by the heightened exposure and recruitment benefits afforded to them by doing so. With increasing social media engagement and time at home during lockdown, COVID-19 has also enabled hateful extremists to increase the reach of their false narratives and, in turn, increased opportunities for extremists to incite violence.

False information serves extremist groups by offering them increased exposure, particularly when it relates to COVID-19. The current pandemic provides an opportunity for hateful extremist actors to capitalise on public fears surrounding COVID-19, particularly when their narratives are featured in mainstream media.⁴¹ Infiltrating the mainstream media provides hateful extremist actors with a platform to frame current issues, set agendas and spread their narratives to a wider audience.⁴² The use of COVID-19 hashtags can also raise public visibility of hateful extremist messages, allowing extremist narratives to enter public debate.⁴³ The extremist narratives being reported are often deliberately shocking in their nature, generating clicks and drawing users to content. As individuals are increasingly relying on online channels for news content, this can have a damaging impact. Islamist extremist actors, such as ISIS, have been known to co-opt relevant hashtags and trending topics, creating so-called ‘coronavirus pages’ that funnel users to extremist content. Islamist extremist groups disguise content as ‘health and wellbeing’, where they celebrate the death toll in the West and link followers to extremist content, such as *The Punishment*, an Islamist extremist outlet.⁴⁴

Disinformation is a known tool for hateful extremist recruitment.⁴⁵ As well as offering hateful extremists increased exposure, false information is also used to appeal to new recruits. Topics such as feminism and political correctness are examples of some of the ‘gentle entries’ to more extremist disinformation, and are used by hateful extremist recruiters to gauge how receptive potential

⁴¹ Wilson (2020); Lewis & Marwick (2017).

⁴² Lewis & Marwick (2017).

⁴³ Colliver and King (2020).

⁴⁴ Colliver and King (2020).

⁴⁵ Wallner (2020); Lewis & Marwick (2017).

supporters might be to more extreme narratives.⁴⁶ Disinformation on such topics is often touted as a ‘red pill’, revealing the underlying, unpleasant truths of the world, rather than the ‘blue pill’, which allows the majority of consumers to maintain ‘blissful ignorance’.⁴⁷ Among far-right supporters, being ‘red-pilled’ refers to believing in narratives that go against the mainstream, such as Holocaust denial, the oppression of men by feminism, or white supremacy.⁴⁸ Becoming a believer in an issue such as Men’s Rights Activism reportedly makes an individual more likely to become ‘red-pilled’ on another more extreme belief.⁴⁹

Conditions for hateful extremist recruitment via hateful disinformation are better than ever before in the COVID-19 context, with more people unemployed, housebound, online and consuming social media content.⁵⁰ The loss of social status and livelihoods has created an opportunity for hateful extremist actors to exploit individuals with a perceived or real lack of prospects. In this context, narratives of restored agency and purpose are used by hateful extremists to support recruitment and radicalisation.⁵¹ Among children and young people, unsupervised screen time allows extremists to exploit their grievances during an uncertain period for families and communities.⁵²

Disinformation has also been used by hateful extremists to fuel hostility and strengthen resentment in the COVID-19 context, which can lead to violence.⁵³ There has been a recent spike in online discussions around the ‘boogaloo’, a far-right term used to describe an impending ‘second civil war’ in the US, with calls for supporters to deliberately infect politicians, journalists and ethnic minorities.⁵⁴ A memo by the FBI notes how far-right groups have been urging followers to deliberately infect Jews with COVID-19, encouraging the use of spray bottles filled with infectious body fluids to be used in areas where Jews congregate, such as ‘markets, political offices, businesses and places of worship’.⁵⁵ Targeted disinformation could accordingly lead followers to perceive minority groups as a threat, and subsequently encourage violence and hostility against such groups.

The spread of disinformation during COVID-19 appears to have been beneficial for hateful extremists. Pandemics could accelerate existing prejudices, contributing to the spread of hateful extremist beliefs and behaviours. This trend is evidenced by the historical association of infectious diseases with ‘othering’,⁵⁶ with late 19th-century US public officials blaming Asian immigrants for infectious diseases – including smallpox, leprosy and bubonic plague – referring to them as the ‘disease ridden’ carriers of sicknesses.⁵⁷ Today, narratives around COVID-19 have seen an increase in anti-Asian and antisemitic discourse, promoting harmful messaging about Chinese and Jewish communities.

⁴⁶ Baldauf et al. (2019).

⁴⁷ Baldauf et al. (2019); ‘red pill’, ‘blue pill’, was coined by The Matrix, a science-fiction action-film franchise.

⁴⁸ Lewis and Marwick (2017).

⁴⁹ Lewis and Marwick (2017).

⁵⁰ Avis (2020).

⁵¹ Avis (2020).

⁵² Naseer (2020).

⁵³ Schwarz and Holnburger (2019).

⁵⁴ Colliver and King (2020).

⁵⁵ Malik (2020).

⁵⁶ Devakumar et al. (2020).

⁵⁷ Liz (2020).

Allegations of ‘networked complicity’ have been present for centuries, asserting that the Jewish community holds excessive financial resources, political power and influence over media institutions.⁵⁸ During COVID-19 there has been more messaging of this type, in some cases depicting the pandemic as a Jewish hoax, a plot to depopulate the world or a scheme to start a new world war.⁵⁹

3.2. Hateful extremist narratives and the use of false information

As explored in more detail below, hateful extremist narratives tend to incorporate false information by focusing on ‘othering’ and victimhood; targeting minority groups, political opponents and other ‘out-groups’; and highlighting perceived societal problems. COVID-19-related disinformation features in recent Islamist and far-right extremist narratives, and non-hateful or non-extremist narratives are also used to widen the support base for extremists.

Hateful extremist narratives typically incorporate disinformation by focusing on ‘the other’. A 2019 report produced by the UK-based organisation Hope not Hate identifies several elements that are central to hateful extremist disinformation. First, hateful extremist narratives use disinformation to criticise other groups,⁶⁰ using these narratives to distinguish between the in-group (‘us’) and the undesirable out-group (‘them’). Second, hateful extremist narratives use disinformation to highlight an unwillingness to mix or integrate with other groups, which is often coupled with a sense of victimisation by other groups.⁶¹ Finally, these false narratives carry specific intentions, including the use or support of violence to achieve political goals.⁶² Due to the generalist nature of hateful extremist narratives – as seen in their tendency to portray complex issues in simplistic terms – the disinformation shared by hateful extremists on issues such as COVID-19 is often focused on entire communities, interpreting the world via these simplistic understandings and stereotypes.⁶³

Far-right and Islamist extremists both use disinformation to promote narratives of victimhood and ‘othering’. For example, just as far-right extremists often spread disinformation referring to immigrants and Muslims as ‘invaders’ who seek to actively destroy European ethnocultural homogeneity, Islamist extremists portray ‘nonbelievers’ as their aggressors.⁶⁴ Some commentators highlight that the messaging of far-right extremists and Islamists is often interdependent, and that the activity of one group can ignite a reaction in the other.⁶⁵ Islamists have been shown to react strongly to far-right demonstrations and political activity, reinforcing narratives that the West is anti-Muslim. Similarly, there are reported spikes in the volume of anti-Muslim disinformation on social media following Islamist terror attacks.⁶⁶ Nonetheless, the narratives of the far right and Islamist

⁵⁸ Holbrook (2020).

⁵⁹ CST (2020).

⁶⁰ Lowles and Levene (2019).

⁶¹ Lowles and Levene (2019); Holbrook (2020); Guhl & Ebner (2018).

⁶² Lowles and Levene (2019).

⁶³ Holbrook (2020); Ariza (2020); UNESCO (2020).

⁶⁴ Holbrook (2020)

⁶⁵ Guhl and Ebner (2018).

⁶⁶ Guhl and Ebner (2018).

extremist groups also overlap at times, with both groups focusing on common topics that are likely to draw media and public attention (e.g. transphobic narratives). Hateful extremist actors accordingly use disinformation in similar ways to generate a sense of ‘otherness’ and, in the case of far-right groups and Islamist extremists, the narratives often fuel one another.

Extremist narratives and conspiracy theories often blame political institutions for societal problems.⁶⁷ The ‘out-groups’ that feature in hateful extremist narratives can also be political, with such narratives fuelling animosity towards institutions, procedures and key public actors.⁶⁸ For example, the statements developed by Uscinski (2016) to identify conspiracy thinking among survey respondents are designed to capture feelings of insecurity, political helplessness and a rejection of political institutions:

- ‘Much of our lives are being controlled by plots hatched in secret places.’
- ‘Even though we live in a democracy, a few people will always run things anyway.’
- ‘The people who really “run” the country, are not known to the voters.’⁶⁹

These sentiments can manifest in an unwillingness to engage with representative democracy or, at an extreme, attempts to overthrow democratic institutions.⁷⁰ In their empirical study, Jolley and Douglas (2014) found that exposure to false information affected focus group participants’ intentions to engage in political processes, including voting.⁷¹ This could be exploited by hateful extremist actors or adversary states in order to disrupt the democratic process or garner support from sceptics.⁷² Indeed, hateful extremist actors often seek to alienate citizens from political institutions. For example, the German far-right group *Der Dritte Weg* (*the Third Way*), has stoked further distrust in politicians by publishing the narrative that German leaders have exploited the pandemic as a ‘diversionary tactic’ to distract from the oncoming ‘flood’ of refugees and migrants.⁷³

Far-right extremists have woven COVID-19 into their narratives, hoping to exploit the global situation to create divisions and sow fear.⁷⁴ The far right has been highly responsive to COVID-19, prompting several studies on their narratives and activities during lockdown.⁷⁵ Far right conspiracy theories about COVID-19 often follow two trains of thought: (1) the belief that the virus is a hoax to justify imposing a totalitarian state; and (2) the view that the virus has been manufactured as a bioweapon.⁷⁶ The nuances of online far right narratives were examined by the International Centre for Counter-Terrorism in an analysis of the Telegram statements released by six far-right groups

⁶⁷ Vegetti and Levente (2020); Wilson (2020).

⁶⁸ Vegetti and Levente (2020); Douglas et al. (2019a).

⁶⁹ Uscinski (2016).

⁷⁰ Lowles and Levene (2019); Jolley & Douglas (2014); Wilson (2020).

⁷¹ Jolley & Douglas (2014).

⁷² Lewis & Marwick (2017).

⁷³ Colborne (2020b); *Der III. Weg* (2020).

⁷⁴ UN (2020).

⁷⁵ McNeil-Willson (2020); Velasquez et al. (2020); Lu & Sheng (2020).

⁷⁶ Ariza (2020).

between 22 February 2020 to 22 April 2020.⁷⁷ The study categorises these narratives according to six frames:

1. **Migration** is a core driver of the spread of COVID-19;
2. **Globalisation** and multiculturalism have allowed COVID-19 to spread;
3. **Bad governance** is at the centre of the impact of COVID-19;
4. **Liberty** is at risk during COVID-19, as evidenced by the expansion of a 'security state';
5. Far-right groups create **resilience** to COVID-19, by emphasising engagement in activities designed to build community resilience;
6. COVID-19 is a **conspiracy** or a deliberate distraction from more important issues.⁷⁸

COVID-19 similarly features in recent Islamist extremist narratives, particularly in formal public statements issued by al-Qaeda and the so-called Islamic State providing guidelines to prevent the spread of COVID-19 within Islamist-controlled territory, with al-Qaeda highlighting that 'Islam is a hygiene-oriented religion'.⁷⁹ In this case, Islamist extremists are not discrediting COVID-19 as a hoax, but are instead treating the pandemic with caution. Islamist extremists also use the virus to target their enemies in disinformation campaigns, but they have taken a somewhat different tack to far-right extremists in weaponising the pandemic and attributing causation. Two potential narratives could emerge, depending on the trajectory of the pandemic: (1) if the virus spreads within Muslim-majority areas, there could be a rise in conspiracy theories blaming the West or Jews; and (2) if the spread of the virus does not reach Muslim-majority areas, especially regions under Islamist control, the pandemic could be framed as divine punishment against out-groups.⁸⁰

By contrast to these narratives, extremists also use non-hateful narratives to attract support and to create favourable impressions of these groups. These tactics can help extremist groups generate sympathy for 'the cause',⁸¹ potentially affording some legitimacy to the hateful narratives and actions of these actors. During the pandemic, for example, far-right groups have volunteered and delivered supplies to citizens,⁸² with these actions forming part of a broader narrative that falsely positions hate actors as champions of the people.⁸³ In Germany, members of *Die Rechte* (the Right) have delivered supplies to low-income households with notes calling them the 'backbone' of the country in attempts to enlist recruits.⁸⁴ In the UK, the far-right group Britain First has similarly shared videos of members volunteering for the NHS.⁸⁵ In this way, McNeil-Willson (2020) states that

⁷⁷ McNeil-Willson (2020).

⁷⁸ McNeil-Willson (2020).

⁷⁹ Wilson Centre (2020).

⁸⁰ Campbell (2020); Avis (2020).

⁸¹ Ariza (2020).

⁸² Ariza (2020).

⁸³ Colborne (2020a).

⁸⁴ Ariza (2020).

⁸⁵ Ariza (2020).

extremist groups seek to win over the public by presenting themselves as public champions and service providers.⁸⁶

These non-hateful narratives and approaches could win over those who are not convinced by hateful narratives alone, attracting sympathy from a wider selection of the population. While building support is a key goal for hateful extremist groups, there is little evidence to suggest that these hateful extremist efforts to attract public sympathies lead directly to a greater public following. Nonetheless, hateful extremist framing to build sympathy could prove problematic for policymakers; by emphasising the shortcomings of mainstream centrist parties and their responses to the pandemic, such narratives could potentially sow greater division within societies. Furthermore, it is difficult to frame a response to far-right groups volunteering in communities, as preventing them from helping communities could confirm the narrative that the government does not prioritise public interests.⁸⁷

3.3. Hateful extremist methods of circulating false information

As this section will explore in more detail, hateful extremists are making increasing use of social media – particularly via ‘bots’ or automated accounts – to spread false information, relying both on explicit calls for violence and more ambiguous language to influence online users.

Hateful extremist actors are increasingly using social media to spread false information. Through analysis of over 600 million tweets and comparison against data from five years ago,⁸⁸ a 2020 Moonshot study found that there has been a clear spike in antisemitic and anti-Chinese narratives stemming from false information.⁸⁹ For example, some hate actors associate COVID-19 with a fictitious Jewish plot to initiate civil wars,⁹⁰ or blame Chinese communities for spreading the virus.⁹¹ In addition, UK hate actors are using hashtags such as #GermJihad to target Muslim groups.⁹² Hateful narratives circulated on social media are often expressed in subtle terms; in a 2019 analysis of 5.2 million tweets from British National Party (BNP) supporters, Vidgen et al. find that 10.8 per cent of content contains implicit Islamophobia, while 5.3 per cent of tweets are explicitly Islamophobic.⁹³ According to experts at the European Commission (2018), online hateful extremist content seeks to attract the support of ‘out-groups’⁹⁴ to foster societal tensions, polarisation and suspicion, often in support of radical ideas and activities.⁹⁵

Hateful extremist disinformation is often disseminated via ‘bots’ (automated social media accounts), and techniques are shifting to more sophisticated interaction with users through impersonation and

⁸⁶ McNeil-Willson (2020).

⁸⁷ Colborne (2020a).

⁸⁸ Manavis (2020).

⁸⁹ Manavis (2020).

⁹⁰ CST (2020).

⁹¹ Pei and Mehta (2020).

⁹² CCDH (2020).

⁹³ Vidgen et al. (2019b).

⁹⁴ ‘Out-group’ is a group to which a person does not identify themselves as belonging (Abbink and Harris 2019).

⁹⁵ EC (2018b).

amplification of organic posts.⁹⁶ During the May 2019 European elections, for example, foreign state disinformation campaigns amplified European extremist messaging, undermining centrists and establishment parties.⁹⁷ Coordinated inauthentic behaviour, particularly via bots and fake social media accounts, was used as an attempt to subvert the elections, posing a significant challenge to authorities and social media moderators.⁹⁸ Such techniques allow for fringe debates to enter the mainstream discussion, providing a platform for extremist messaging. ‘Triggering’ – the use of provocative language to cause an overreaction in mainstream reporting – is another method used by extremist actors to increase such engagement.⁹⁹ Alternatively, ‘doxxing’ is used to intimidate journalists by disclosing their personal information online;¹⁰⁰ and ‘source-hacking’ entails sharing disinformation with credible media analysts so that this hateful extremist content is quoted by reputable sources and further pushed into the mainstream.¹⁰¹

Hateful extremists rely both on explicit calls for violence and more ambiguous, coded language.¹⁰²

‘Dog whistling’ or cloaking language is often used online, whereby content uses coded or suggestive words or phrases, with a hidden meaning understood by some but not all groups. For example, the term ‘Cultural Marxism’ has antisemitic connotations in British politics,¹⁰³ similarly to how references to ‘Zionist agents’ is problematic.¹⁰⁴ It is difficult for governments, social media companies and civil society to navigate responses to such content, as these narratives are often not explicit in their hateful content, and hence may not violate social media terms of use. However, disguised hate could cause harm, as these can incorporate inflammatory content and a susceptible audience – two elements required for narratives to be dangerous.¹⁰⁵

3.4. Implications of false information for hateful extremism

As this section explores in more detail below, false information is associated with increasing levels of hate crime, blame on minority groups for COVID-19, poor mental and physical health outcomes, and the emergence of hateful extremist echo chambers.

A rise in hate incidents at a time when xenophobic language based on false information is used by certain elected politicians across the world is noted in the reviewed literature, although not all sources agree there is a causal relationship.¹⁰⁶ Political rhetoric has been shown to influence public opinions and behaviour, with this rhetoric impacting on public perceptions of a foreign country, for example.¹⁰⁷ Some commentators argue that in addition to being misleading, the use of language such as ‘China

⁹⁶ Polyakova and Fried (2019); ‘Organic posts’ refer to those made by real people, as opposed to bot activity.

⁹⁷ Polyakova and Fried (2019).

⁹⁸ EC (2019).

⁹⁹ Baldauf et al. (2019).

¹⁰⁰ Baldauf et al. (2019).

¹⁰¹ Baldauf et al. (2019).

¹⁰² Benesch et al. (2020).

¹⁰³ Antisemitism Policy Trust (2020).

¹⁰⁴ BBC (2019).

¹⁰⁵ Benesch et al. (2020).

¹⁰⁶ Cabanatuan (2020); Jeung (2020) cited in Gover et al. (2020).

¹⁰⁷ Silver (2016); Lu and Sheng (2020).

Virus’ or ‘Chinese Virus’ by certain public officials can exacerbate the ‘othering process’ in the COVID-19 context.¹⁰⁸ A US-based analysis of the tweets of prominent political figures mentioning both China and COVID-19 has argued that there could be a spike in ‘racial animus’ on days when the tweets of such officials mention both China and COVID-19.¹⁰⁹

Higher exposure to false information in lockdown is associated with increased targeting of minorities. In the US, there has been an increase in discriminatory behaviours during COVID-19, with the New York City Commission on Human Rights reporting a 92 per cent increase in anti-Asian discrimination incidents between March and May 2020, compared to the same three-month period in the previous year.¹¹⁰ Similarly, in the UK, hate crime directed at South and East Asian communities increased by 21 per cent from March to May 2020 during the beginning of COVID-19, a surge believed to be driven by the increased use of social media and other online platforms during lockdown, exposing more people to false information.¹¹¹ Pei and Mehta (2020)’s analysis of 174,488 tweets with the hashtags #Chinesevirus and #Chinavirus finds that – amid the spread of false information – immigrant, ethnic and religious minority groups (e.g. Jewish, Chinese and Muslim communities) have been blamed for the spread of the virus by some members of the public.¹¹²

False-information-driven discrimination has been linked to negative health outcomes in the literature, particularly in the COVID-19 context. According to Priest et al. (2020), poor mental and physical health is linked to experiences of racial discrimination driven by false information. In this source, experiences of racial discrimination are associated with depression, behavioural difficulties, anxiety, sleep disruption, and a higher risk of suicide among children.¹¹³ The same study also finds growing evidence that racial discrimination is associated with obesity, high blood pressure and inflammation, as well as epigenetic ageing among children and young people who are targeted by discrimination fuelled by false information.¹¹⁴ A 2020 study from the University of Oxford identifies another way in which false information is linked to poor physical health, finding that people who hold conspiracy beliefs relating to COVID-19 are less likely to comply with social distancing guidelines or accept future vaccines.¹¹⁵ These are two very different ways in which false information can have a negative effect on health.

False information has also been associated with an increase in echo chambers, in which extremist views reverberate with little opposition or exposure to alternate views. Exposure to hate has been linked to the normalisation and indoctrination of violent themes.¹¹⁶ Hateful extremist groups often experience ‘polarisation effects’: as more moderate or sceptical users opt out of these chambers, the circle closes, leaving a concentration of like-minded believers without exposure to differing

¹⁰⁸ Gover et al. (2020).

¹⁰⁹ Lu and Sheng (2020).

¹¹⁰ Liz (2020).

¹¹¹ Grierson (2020).

¹¹² Pei and Mehta (2020).

¹¹³ Priest et al. (2020).

¹¹⁴ Priest et al. (2020).

¹¹⁵ University of Oxford (2020).

¹¹⁶ Allington (2020).

views.¹¹⁷ In general, people with more extreme political views engage with a smaller number of individuals than those who hold more moderate views.¹¹⁸ For example, on Facebook, content is posted in private groups, side-stepping social media moderators, which rely on users to flag false information or hateful extremist content.¹¹⁹ These private groups act as echo chambers, in which misleading information is not reported as often due to inherent agreement and mutual support among members of the group. Furthermore, such chambers on mainstream platforms can act as a ‘funnel’, pulling individuals into less moderated platforms, such as 4Chan or Telegram.¹²⁰

3.5. Evidence gaps

The reviewed sources highlighted two key gaps in relation to the first review theme: (1) a shortage of empirical evidence on the characteristics of individuals who are particularly vulnerable to the influence of conspiracy theories and hateful extremism; and (2) a lack of research on the behavioural impacts of online hateful extremist speech.

Shortage of empirical research on characteristics of individuals who are susceptible to the influence of conspiracy theories and hateful extremism

Research on conspiracy theories tends to focus on online content rather than the motivations behind it. Fangen and Holter (2020) point out that research has, until now, ‘largely focused on analysing digital content and not its producers’, and note that the field could benefit from more studies on the self-perceptions and self-understanding of individuals who believe and spread conspiracy theories.¹²¹ With regards to conspiracy theories in particular, Radnitz and Underwood (2015) suggest that current research neglects a large portion of believers entirely. According to those authors, the stigma attached to conspiracy theories prevents many individuals prone to conspiratorial thinking to admit it, leading to the exclusion in current research of so-called ‘ordinary believers’, in favour of louder voices. The lack of focus on these individuals could prevent a better understanding of conspiracy theories and their ubiquity.¹²²

These evidence gaps are echoed by Connolly et al. (2019), who call for more research on how conspiracy theories spread through the information environment and on investigating which individuals are most at risk of adopting them.¹²³ In addition, several studies point to a lack of understanding regarding the dynamics behind directional motivations – that is, the individual’s motivation to hold on to existing convictions and attitudes. Nyhan and Zeitzoff (2018) suggest that future studies should consider the role of individuals’ media exposure in directional motivations. The same study recommends that future research should consider experimental manipulation of

¹¹⁷ Marwick and Lewis (2017).

¹¹⁸ CoE (2017a).

¹¹⁹ Ball and Maxmen (2020).

¹²⁰ Ball and Maxmen (2020).

¹²¹ Fangen and Holter (2020).

¹²² Radnitz and Underwood (2015).

¹²³ Connolly et al. (2019).

directional motivations in an ethical way to better understand the dynamics behind them.¹²⁴ Given the literature finding that susceptibility to conspiracy theories is linked to susceptibility to hateful extremist beliefs,¹²⁵ addressing this research gap could improve understanding of individuals who are vulnerable to the influence of both conspiracy theories and hateful extremism.

Lack of evidence on the behavioural impacts of online misinformation and hateful extremist speech

Beyond links between misinformation and hateful extremist speech – which Ziems et al. (2020) see as an essential area for further study – some of the reviewed studies point to a lack of research on the direct behavioural impact of online false information. Albadi et al. (2019) see the impact of bot-disseminated content on human behaviour as an important field for future research. In particular, the study points to the need for investigation on whether hateful content disseminated by bots influences individuals' participation in hateful discourse.¹²⁶ In addition, Schild et al. (2020) highlight the need to develop new techniques to understand changes of online behaviour in the context of COVID-19, and to understand and prevent real-world violence resulting from these online behaviours.¹²⁷

¹²⁴ Nyhan and Zeitzoff (2018)

¹²⁵ Douglas et al. (2019); McNeil-Willson (2020).

¹²⁶ Albadi et al. (2019).

¹²⁷ Schild et al. (2020).

4. Interventions and policy responses

The previous chapter set out the implications of false information and explored how hateful narratives can further the agendas of extremist groups. In this chapter, we present findings in relation to the second review theme, examining online interventions and policy responses for countering false information. As noted in Section 1.2, when discussing interventions, this report presents the findings and recommendations of reviewed sources rather than offering an independent assessment of their effectiveness.

A summary of key findings in relation to the research questions set out in Chapter 1 is presented in Box 3. An overview of existing and recommended future interventions and policy responses is then presented (Section 4.1), before the chapter describes ‘good practices’¹²⁸ and challenge areas for actors involved in the delivery of initiatives to counter false information and hateful extremism as reported in the literature (Section 4.2). Finally, Section 4.3 outlines evidence gaps highlighted in the reviewed sources.

Key findings relating to review theme 2

2.1: What insights can be identified from the literature on the effectiveness of existing interventions and policy responses?

- Four main types of online response to false information were identified in the literature review – factchecking, counterspeech, takedowns and education – and there is a shortage of existing empirical evidence on the impact of existing interventions.
- While the reviewed literature does not offer rigorous evaluations, papers identify several promising practices promoted by the following core actors with responsibility for tackling false information:

¹²⁸ ‘Good practices’ are those identified in the reviewed literature as being effective, timely and relevant in curbing the online spread of false information and in building societal resilience to hateful extremism. It is worth noting, however, that the literature review examines material across several disciplines (including sociology, political science, psychology and law), and that some of the measures are implemented in different countries with distinct cultural, social, historical and legal contexts – meaning that what is reportedly effective in one context might not be in another. Furthermore, it should be noted that the quality of source data varies across the reviewed papers: while some sources offer empirical evidence with a narrow focus on addressing a specific problem, others offer untested commentary, observations and broader recommendations from recognised experts (see Annex C).

- **Government** – reviewed sources observed for example that government actors have effectively held social media companies to account (e.g. 2018 German NetzDG Act), in addition to engaging in wider counter-extremism efforts.
- **Social media companies** – papers highlighted the contribution of these actors to tackling false information by reconfiguring algorithms to ensure that hateful content is not promoted.
- **Civil society** – papers noted the role of these actors in educating and raising awareness of false information in relation to hateful extremism.
- **Media organisations** – sources focused on good journalism practices, including the avoidance of ‘clickbait’ headlines and maintaining transparency in factchecking.

2.2: What recommendations are put forward in the existing literature in relation to future interventions in this area?

- The ‘good practices’ identified below are those highlighted in the reviewed literature as being effective, timely and relevant in curbing the online spread of false information and in building societal resilience to hateful extremism.
- Approaches that are recommended in the reviewed papers include:
 - Cooperation between social media companies;
 - National government dedication of resources to combating false information;
 - Increased education to build societal resilience;
 - Greater accountability for news organisations and use of responsible headlines;
 - Increased research into implications of online false information; and
 - Greater investment in education programmes to enhance critical thinking skills.

2.3: What transferrable lessons/‘good practices’ from successful interventions in related policy areas can be identified?

While this review set out to address this question, we did not identify successful interventions from other policy areas as they did not appear in the reviewed literature. Although there are no direct lessons or good practices to be transferred from other policy areas identified from the review, this report benefits from a multidisciplinary approach, drawing from literature across psychology, political science, sociology and law.

4.1. Categories of counter-measures

This section sets out current and potential counter-measures and interventions to mitigate the spread of hateful extremist false information, and to build societal resilience. Reflecting the focus of the reviewed literature – which spans the fields of psychology, sociology, communication studies and political science – these counter-measures are presented in relation to four areas of work: (1) **factchecking**; (2) **counterspeech**; (3) **takedowns**; and (4) **education**. The sections below describe insights from the reviewed literature on recommended approaches to designing and delivering each type of

counter-measure, as well as associated limitations. However, it is worth noting that the impact of false information and of associated counter-measures differs from one society to another, depending on factors such as education levels, trust in institutions, inclusiveness of electoral systems and socio-economic inequalities¹²⁹ – so what is ‘recommended’ or ‘effective’ in one setting might not be in another. These factors have not been evaluated in this study, as it is beyond the scope of this report.

4.1.1. Factchecking

Factchecking refers to activities to assess the veracity of content, particularly political claims.¹³⁰ Factchecking seeks to prevent the further dissemination of false information by a range of actors including hateful extremists, and to build resilience among consumers of online content. In many cases, factchecking can be understood as a type of persuasion that requires attitude change, to convince readers that the information they previously consumed is factually false.¹³¹

Insights from the literature on recommended approaches for factchecking

Clarity and transparency are frequently referred to as important features for successful factchecking, as this builds trust among readers.¹³² At a minimum, Humprecht (2019) finds that organisations should aim to provide the background information of sources used for factchecking, to build credibility and reach those who might be susceptible to the influence of false information.¹³³ In addition, Thorson (2016) posits that it is important to explain the reason for false information being generated in the first place, although this might not always be understood by readers or indeed be possible to determine.¹³⁴ Furthermore, Thorson observes that affirmations are particularly likely to persuade readers.¹³⁵ For example, with reference to the Obama ‘birther’ conspiracy,¹³⁶ Thorson (2016) finds that the statement ‘Obama is a Christian’ is more likely to influence popular opinion than the negation ‘Obama is not a Muslim’.¹³⁷

Independent factchecking rating scales could increase the effectiveness of correction among readers.

Empirical research undertaken by Amazeen et al. (2018) suggests that when independent factchecking organisations use rating scales, the effectiveness of correction among readers can be increased.¹³⁸ Rating scales illustrate the degree of veracity of content by colour-coding or allocating a numerical rating. According to this empirical research, these scales are demonstrated to be more effective for correcting non-political views than information that goes against the prior-held beliefs

¹²⁹ EC (2018b).

¹³⁰ Amazeen et al. (2018).

¹³¹ Amazeen et al. (2018).

¹³² Humprecht (2019); Brandtzaeg & Folstad (2017); Poynter (2019).

¹³³ Humprecht (2019).

¹³⁴ Thorson (2016).

¹³⁵ Thorson (2016).

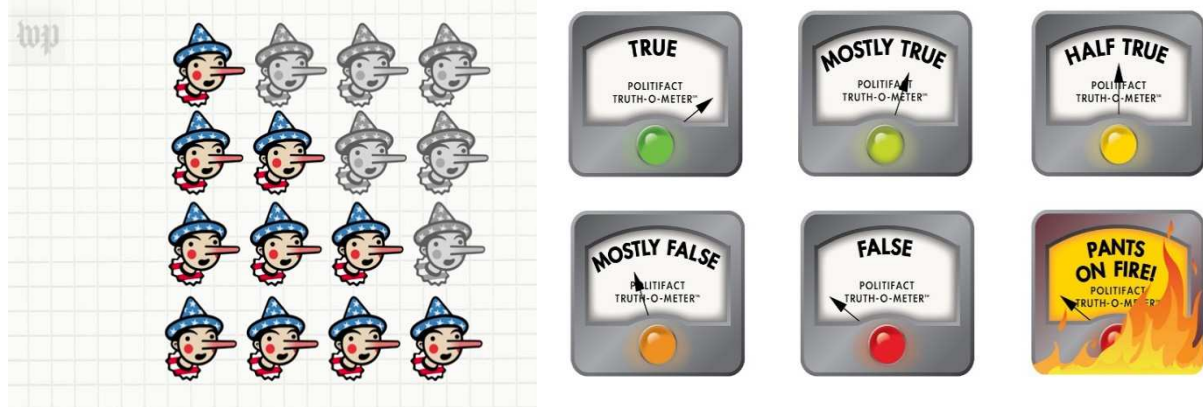
¹³⁶ The ‘birther’ conspiracy alleged that former President Barack Obama was born outside the US and ineligible to serve as president, with an ethnic and religious element injected into the conspiracy via the allegation that Obama was a Muslim.

¹³⁷ Thorson (2016).

¹³⁸ Amazeen et al. (2018).

of readers.¹³⁹ Figure 4-1 presents two examples of rating scales to illustrate different ways of visualising factchecking.

Figure 4-1: Examples of rating scales (Washington Post and PolitiFact)¹⁴⁰



Big data and automation have the potential to enhance accuracy and reduce the human burden of factchecking.¹⁴¹ Human factcheckers face challenges in keeping up with the sheer volume and speed at which false information is proliferated online.¹⁴² There have been many calls from communication specialists to automate factchecking.¹⁴³ Indeed, certain elements of factchecking are already being automated. For example, UK charity Full Fact has built a system to run factchecking tasks by identifying content that might be untrue, matching the language to facts within its database and subsequently publishing results online.¹⁴⁴ Similarly, the Duke Reporters' Lab and Chequedo have developed automated factchecking tools.¹⁴⁵ So far, these systems are only reported to be capable of identifying simple declarative statements, rather than implied claims or those embedded in more complex sentences.¹⁴⁶ For further progress to be possible, Graves (2018) note that governments will need to provide continued support for basic research and real world experiments, and cooperate with civil society organisations towards establishing open data standards. Furthermore, Graves notes that news organisations will have to become more active in this area, both by contributing their vast factchecking resources and expertise, and seeking to benefit from advances in this field.¹⁴⁷ In the future, entirely automated factchecking platforms could detect content in real time and rate its accuracy.

¹³⁹ Amazeen et al. (2018).

¹⁴⁰ Poynter (2019).

¹⁴¹ Thorne & Vlachos (2018).

¹⁴² Humprecht (2019).

¹⁴³ Cohen et al. (2011); Graves (2018); Thorne & Vlachos (2018).

¹⁴⁴ Full Fact (2020).

¹⁴⁵ Poynter (2018).

¹⁴⁶ Graves (2018).

¹⁴⁷ Graves (2018).

Literature findings on the limitations of factchecking

Despite the reported benefits of factchecking, it is evident that such measures have inherent limitations and have to be designed carefully to avoid certain pitfalls.

When readers already hold a particular belief, they are reportedly less likely to accept corrections,¹⁴⁸ particularly when such views relate to political content.¹⁴⁹ This is often leveraged by extremist actors, who capitalise on political events to push forward their narratives. Here it is worth noting that populist undercurrents have politicised issues that have traditionally been apolitical or nonpartisan. COVID-19 has been politicised, with public officials and the media across the UK, Europe and the US highlighting funding cuts to healthcare, political leaders' handling of the virus, and the impact of lockdown measures on civil liberties.¹⁵⁰ 'Political content' is therefore a 'bigger basket' than ever, presenting a significant challenge to factcheckers as readers now hold political opinions on a larger range of topics. An empirical study conducted by Barrera et al. (2020) also finds that where factchecking is successful, it merely updates the factual knowledge of readers, but does not necessarily affect their policy conclusions or their support for the political candidate espousing false information.¹⁵¹ The long-term effects of continuous factchecking and holding the statements of political candidates to account is an area in need of further academic input, to fully assess the impact and importance of factchecking.

The evidence is mixed on whether acknowledging conspiracy beliefs tempers or contributes to such views.

Bolsen and Druckman (2018) emphasise the importance of engaging with readers, and report that acknowledging alternative beliefs is more likely to persuade readers than denying such beliefs. According to those authors, individual views can be changed when their beliefs in a conspiracy theory are recognised while also offering scientific consensus information.¹⁵² While the acknowledgment of conspiracy beliefs can temper the impact of these beliefs, validation could also imply legitimacy and contribute to the spread of false information.¹⁵³ Further research is needed to assess how acknowledgment of false information can affect other beliefs and readers' openness to other information.

4.1.2. Counterspeech

Counterspeech entails the use of narratives to counter and offer alternative narratives to false or misleading information. While counterspeech can take various forms, online counterspeech is considered an important way to directly refute or challenge hateful extremist use of false information. Actors who engage in counterspeech include individual members of the public, civil society organisations or public sector officials.

¹⁴⁸ Flynn et al. (2017); Amazeen et al. (2018); Barrera et al. (2020).

¹⁴⁹ Amazeen et al. (2018).

¹⁵⁰ KHN (2020).

¹⁵¹ Barrera et al. (2020).

¹⁵² Bolsen and Druckman (2018).

¹⁵³ Bolsen and Druckman (2018).

Insights from the literature on recommended counterspeech approaches

Sources note the need to design counterspeech in a nuanced way that taps into underlying public concerns.

To use counterspeech against hate actors, the response must be designed carefully.¹⁵⁴ If used successfully, counterspeech can undermine the authority of hateful extremist false information, as well as highlight to the public that there are organised movements working to actively counter hateful extremism and false information.¹⁵⁵ In addition to providing wide-ranging intervention programmes, for example, the UK's Prevent strategy and STREET (Strategy to Reach, Empower, and Educate Teenagers) focus on counternarrative messaging that deconstructs extremist narratives and promotes mainstream, moderate perspectives.¹⁵⁶ Similarly, Article 19 – a UK organisation focusing on human rights and freedom of expression and information – emphasises the importance of public officials condemning hateful extremist narratives online, establishing that the most effective responses are nuanced and provide persuasive counter-narratives that appeal to, and potentially challenge, underlying concerns and anxieties of the public.¹⁵⁷ To this end, the organisation encourages equality education and awareness raising for public officials, so that they are better equipped to respond to hateful narratives and false information online or offline (see Section 4.2). This could be facilitated by increased cooperation between government and civil society.¹⁵⁸

The Council of Europe (CoE) emphasises that framing counterspeech from a human rights perspective is important, avoiding 'dichotomous and adversarial framing'.¹⁵⁹ For example, the slogan 'do not hate the migrants, hate the bankers' simply shifts the object of hate. Instead, the CoE proposes three core rules for counterspeech:

1. Counternarratives should not include hate, violence and discrimination;
2. Counternarratives should foster equality, respect and solidarity; and
3. Counternarratives should promote an understanding of the equal dignity of all human beings, and promote critical thinking, fair dialogue and correct information.¹⁶⁰

Counterspeech is also seen as more effective when refutations are concise. While lengthier responses can allow for a greater degree of refutation, there are significant diminishing returns on the length of a refutation regarding its impact on observers, as many readers will not bother to digest the full response.¹⁶¹ Allington (2020) argues that digital generations are moving towards a new type of learning and multitasking, which reduces their ability to write or read lengthy refutations online¹⁶² – meaning that shorter responses are more likely to resonate. Similarly, participants in a 2014 survey agreed that YouTube videos offering counternarratives in response to Al-Qaeda-related content

¹⁵⁴ Allington (2020); CoE (2017b).

¹⁵⁵ CoE (2017b).

¹⁵⁶ Bilazarian (2020); Barclay (2011).

¹⁵⁷ Article 19 (2018).

¹⁵⁸ Article 19 (2018).

¹⁵⁹ CoE (2017b).

¹⁶⁰ CoE (2017b).

¹⁶¹ Allington (2020).

¹⁶² Allington (2020).

should remain short and to the point, as the inclusion of additional, potentially unnecessary information could ‘lose’ the viewer.¹⁶³ Excessive online engagement with hateful extremist actors – both in terms of time and word count – could prove counterproductive, attracting more attention to the messages of these actors.¹⁶⁴

The evidence is mixed on the effectiveness of using emotionally evocative counternarratives. On the one hand, emotional responses could be viewed by hateful extremist actors and bystanders as ‘taking the bait’, and heightened emotional reactions to ‘dog-whistling’¹⁶⁵ could also be viewed as disproportionate by bystanders unaware of the underlying meaning of the messaging,¹⁶⁶ highlighting the importance of using neutral, non-emotional language. On the other hand, some scholars posit that emotionally evocative counternarratives can surpass logical arguments when used as part of video-based counternarratives.¹⁶⁷ For example, ISIS defector videos featuring interviews with former extremists are often edited to highlight the most ‘damaging, denouncing and derisive content’.¹⁶⁸ These counternarrative-based videos are subsequently uploaded with pro-ISIS titles, so that individuals seeking out ISIS recruiting material are instead directed to anti-ISIS content.¹⁶⁹

Similarly to factchecking (Section 4.1.1), **automating counterspeech is presented as a promising avenue** for further investigation in the reviewed literature. Indeed, there has been considerable research into automated counterspeech, and how this can be done rapidly and effectively.¹⁷⁰ Natural language generation is presented by Tekiroglu et al. (2020) as a feasible automation strategy towards generating text responses to hateful extremist content, noting that there is still a need for verification systems to check responses.¹⁷¹ In the coming years, automated counterspeech could become more effective, presenting a possible solution in tackling online false information and hateful extremist content. For now, this remains a promising area for further investment and research.

Literature findings on the limitations of counterspeech

There are nonetheless several challenges and limitations associated with counterspeech, particularly given the sheer quantity of content being generated every day and noting the use of bots in spreading hateful extremist narratives and false information across platforms. As established above, counterspeech can be less effective when refutations are overly lengthy or excessively emotional. According to a recent study (Allington, 2020), in some cases counterspeech can cause backlash or

¹⁶³ Hedayah & ICCT (2014).

¹⁶⁴ Allington (2020).

¹⁶⁵ Content that uses coded or suggestive words or phrases, with a hidden meaning that is often understood by some groups but not others.

¹⁶⁶ Allington (2020).

¹⁶⁷ Tuck & Silverman (2016).

¹⁶⁸ McDowell-Smith et al. (2017).

¹⁶⁹ McDowell-Smith et al. (2017).

¹⁷⁰ Tekiroglu et al. (2020).

¹⁷¹ Tekiroglu et al. (2020).

appear defensive and reactive, playing into the intentions of hateful extremist actors who seek to capture wider attention and generate further debate in order to spread their narratives.¹⁷²

4.1.3. Takedowns

On major social media platforms, moderators often take down abusive posts – particularly content associated with automated accounts, pages and content working to actively manipulate discourse on social media (so-called ‘inauthentic activity’).¹⁷³ When it comes to hateful or misleading narratives espoused by prominent public figures, platforms take varying approaches. While some networking sites issue factchecking notices under inaccurate posts of public figures, others, such as Facebook, have argued that they should not be an ‘arbiter of truth’.¹⁷⁴

Insights from the literature on recommended approaches relating to takedowns

Takedowns can prevent exposure to hateful extremist content, making it harder for extremists to recruit followers or influence debates. Social media companies often rely on users to report comments, which are subsequently reviewed and potentially removed. However, implementing takedowns at the same rate as bots and human actors spreading hateful content is a significant task.

Automated systems for reviewing and actively removing content can offer efficiencies for social media companies when managing large volumes of data. The Global Internet Forum to Counter Terrorism, which brings together large US tech firms, has created a vast database of terrorist content, allowing companies to identify and remove content faster than otherwise possible.¹⁷⁵ More broadly, this forum offers an example of cooperation between social media and tech companies to share good practices, highlighting the value of collectively leveraging technology and collaborating to ensure that hateful extremist content is removed from online platforms in a timely manner.¹⁷⁶

National governments can lead the way in enforcing takedowns. As explored in more detail in Section 4.1.4, Germany brought in its Network Enforcement Act, the 2018 NetzDG Act, which issues large fines to tech companies that do not remove hateful extremist content within 24 hours. Such measures can increase companies’ responsiveness in removing hateful extremist content and false information from their platforms.

Literature findings on the limitations of takedowns

Social media ‘takedown rules’ do not always ensure that false information is removed. In relation to COVID-19, a recent study found that social media platforms had failed to remove 95 per cent of anti-vaccination misinformation reported to them.¹⁷⁷ A 2017 investigation by ProPublica, a US-based non-profit news organisation, analysed over 900 reported Facebook posts and reported that the social network giant applied its hate speech rules inconsistently, allowing content to slip through the net

¹⁷² Baldauf et al. (2019).

¹⁷³ Polyakova and Fried (2019).

¹⁷⁴ Colliver and King (2020).

¹⁷⁵ Gibbs (2017).

¹⁷⁶ GIFCT (2020).

¹⁷⁷ CCDH & Restless Development (2020).

despite being reported by users.¹⁷⁸ Indeed, several social media companies have repeatedly failed to remove false information and hateful content, to the extent that consumer-goods giant Unilever recently removed its advertising from Facebook, Instagram and Twitter in the US, citing that ‘in the areas of divisiveness and hate speech [...] continuing to advertise on these platforms at this time would not add value to people and society’.¹⁷⁹ Some 1,000 other companies joined the pledge led by Stop Hate for Profit, an initiative seeking to temporarily boycott advertising on Facebook due to hate and disinformation.¹⁸⁰

There has also been criticism that social media sites have historically applied takedown measures inconsistently. Activists and journalists in several countries and disputed territories – such as the Palestinian territories, Kashmir and Crimea – have reported having their posts deleted, prompting criticism.¹⁸¹ A ProPublica report analysed the rules used to train Facebook content reviewers, finding that there was a distinction between ‘protected categories’ and ‘subsets’. Using an algorithm that viewed all ethnicities and genders equally, ‘protected categories’ – based on race, sex, gender identity, religious affiliation, nationality, ethnicity, sexual orientation and disability – include white men, as both characteristics are protected, but not female drivers or black children, who fall into the ‘subset’ group, as one of their traits is not protected.¹⁸² Such criticism highlights the difficulty of taking down harmful content without curbing free speech. While human moderators alone cannot filter the sheer multitude of online posts, algorithms are likely to exhibit flaws as they are developed and refined. This is therefore an area in need of significant further research and investment.

4.1.4. Education

Educational approaches are designed to help build societal resilience to false information. These approaches constitute an important long-term measure and are targeted towards young people – a cohort who are particularly vulnerable to the influence of false information given the time they spend online consuming social media.¹⁸³

Insights from the literature on recommended educational approaches

Education is generally recognised as important in building societal resilience to false information and in preventing radicalisation,¹⁸⁴ particularly among young people in schools.¹⁸⁵ In general, younger people are reportedly more likely to encounter false information and to accept its presence online.¹⁸⁶ Noting the heightened vulnerability of younger generations, education can prevent the spread of false information in several ways¹⁸⁷:

¹⁷⁸ Tobin et al. (2017).

¹⁷⁹ Hern (2020).

¹⁸⁰ Stop Hate for Profit (2020).

¹⁸¹ Angwin et al. (2017).

¹⁸² Angwin et al. (2017).

¹⁸³ Ofcom (2020).

¹⁸⁴ ‘Radicalisation’ refers to the process an individual goes through towards becoming involved in extremism.

Department for Education (2017).

¹⁸⁵ Flynn et al. (2017).

¹⁸⁶ Ofcom (2020).

¹⁸⁷ Wallner (2020).

- Education can promote historical awareness, values of citizenship and civic participation;
- Education can play a part in developing the critical thinking skills of young people, creating a 'safe' environment for discussing controversial topics and allowing for a range of views; and
- The 'contact hypothesis' suggests that by facilitating contact between different population groups, education programmes can reduce prejudice between majority and minority groups.

'Critical literacy' measures the ability of individuals to assess the soundness and credibility of arguments, respond to arguments and come to conclusions by analysing information.¹⁸⁸ A 2018 report into fake news and critical literacy in British schools by the National Literacy Trust found that only 2 per cent of children and young people in the UK possessed the critical literacy skills to assess whether a news story is true or false.¹⁸⁹ Education in itself is not guaranteed to build critical thinking skills, but teachers can help by facilitating discussion on challenging or controversial topics, allowing for a plurality of opinions and revealing different perspectives.¹⁹⁰

Finland offers an example of how countering false information has been incorporated into educational approaches. In Finland, educators integrate teaching on false information into all subject areas from a young age.¹⁹¹ In art, history, maths and language lessons, students learn how messaging can be manipulated, by analysing how the meaning of images can be misconstrued, studying historical propaganda campaigns, learning about how statistics can be used to deceive, and being educated on how language is used to confuse and mislead.¹⁹² Such initiatives are likely to build more robust societies, in which fake news does not find as ready a foothold.¹⁹³ Some researchers suggest that using a theatre format¹⁹⁴ to address sensitive and controversial issues can prove particularly effective, pointing to several studies highlighting the effectiveness of 'entertainment-education'¹⁹⁵ in increasing knowledge, generating favourable attitudes and influencing positive behaviours.¹⁹⁶

Overall, education is a method for countering false information that can foster critical thinking and societal resilience, and combat the perceived legitimacy of political violence.¹⁹⁷ Furthermore, educational programmes can help shape how students think without policing their thoughts and beliefs.¹⁹⁸ As an intervention method for preventing the proliferation of false information, Wallner

¹⁸⁸ Machete & Turpin (2020).

¹⁸⁹ National Literacy Trust (2018).

¹⁹⁰ Wallner (2020).

¹⁹¹ Henley (2020).

¹⁹² Henley (2020).

¹⁹³ In 2019, Finland topped the Media Literacy Index, a ranking of 35 countries where each country was allocated scores based on indicators relating to media freedom, levels of education, trust in others and use of the Internet. In contrast, the UK was ranked in 12th place (Lessenski 2019).

¹⁹⁴ A theatre format could see a speaker deliver a monologue that has been prepared with the help of a professional theatre company (Parker & Lindekilde 2020).

¹⁹⁵ 'Entertainment education' includes addressing sensitive topics in a play or musical (Parker & Lindekilde 2020).

¹⁹⁶ Parker & Lindekilde (2020).

¹⁹⁷ Parker & Lindekilde (2020).

¹⁹⁸ Wallner (2020).

(2020) recommends further investment in education, as well as a move away from traditional learning styles, where the teacher imparts knowledge to students and the former's authority is not to be questioned, towards a more interactive model of learning.¹⁹⁹

Literature findings on the limitations of educational approaches

The reviewed literature appears to be largely supportive of educational approaches, with relatively few limitations and challenges highlighted. It should nonetheless be noted that while education can promote historical awareness, values of citizenship and civic participation, such education programmes can be counterproductive where they deliver restrictive narratives relating to national identity and history, which could alienate parts of the population.²⁰⁰ A further consideration to note when developing educational measures is that extremist narratives tend to target individuals with different levels of education in various ways – using monetary incentives and intellectual narratives to target (respectively) those from areas with lower quality and higher quality education.²⁰¹ By extension, it could be beneficial to tailor education programmes to these different cohorts in recognition that individuals are targeted by hateful extremists in different ways.²⁰²

4.2. Actors involved in the design and delivery of interventions

The literature sets out a number of reported 'good practices', challenges and considerations in relation to online interventions for countering false information and its use by hateful extremists. When exploring the 'good practices' and challenges identified in the reviewed papers, this section distinguishes between several actors involved in the design and delivery of online interventions:

- **National governments**
- **Social media companies**
- **Civil society organisations**
- **News/media organisations**

The counter-measure 'types' explored in Section 4.1 are implemented by different actors, often with overlaps. While roles are unlikely to be as clear-cut in practice, Table 4-1 provides an indicative overview of actors' roles in delivering the various measures. The measures outlined below are already being taken by governments, social media companies, civil society actors and media organisations, though the literature also contains recommendations to build on and improve such measures.

Table 4-1: Actors and interventions

¹⁹⁹ Wallner (2020).

²⁰⁰ Wallner (2020).

²⁰¹ Wallner (2020); Ghosh et al. (2016).

²⁰² It is not clear from the reviewed literature whether this is an approach that has been taken by educational institutions to date.

Actors	Factchecking	Counterspeech	Takedowns	Education
Governments	x	x	x	x
Social media companies	x		x	
Civil society	x	x		x
News/media organisations	x			x

The sections below explore some of the reported ‘good practices’, challenges and considerations across different actor types as regards the implementation of interventions to counter false information and its use by hateful extremists, according to the reviewed source material.

4.2.1. National governments

Table 4-2 summarises some of the reported ‘good practices’, challenges and considerations for national governments in tackling the spread of hateful extremist false information, as set out in the reviewed papers.

Table 4-2: National government: reported ‘good practices’, challenges and considerations

Reported ‘good practices’	Challenges and considerations
<ul style="list-style-type: none"> • Taking action to hold social media companies to account. • Investing in education and prevention programmes to reduce the spread of false information and to build societal resilience (see also Section 4.1.4). • Speaking out against hateful narratives, and refraining from engaging in hate speech. • Monitoring disinformation dynamics and their impacts on society. 	<ul style="list-style-type: none"> • Relying on tech/social media companies to prioritise the wellbeing of their platform users over advertising revenues. • A need to increase the quality and public availability of statistics on hateful extremism and hate crime. • Budgetary challenges – particularly in the COVID-19 context – and a need for greater investment in education and awareness-raising programmes.

National governments have promoted policy initiatives to hold social media companies to account, as the pursuit of advertising revenues could compromise the integrity of online content. In Germany, the 2018 NetzDG Act forces tech companies to remove hate speech from their platforms within 24

hours of it being reported, to avoid a €20 million fine.²⁰³ With this law in place, one in six Facebook moderators now operates from Germany to ensure that hate speech is removed in a timely way, which can be viewed as an indicator of success for the NetzDG Act.²⁰⁴ Many large tech/social media platforms only provide headline statistics about the targets and perpetrators of online hate speech, showing only the breakdowns by country, while other websites such as Google and BBC News provide no such information.²⁰⁵ In addition, each platform varies in its frameworks, guidelines, moderation processes and reported-content takedowns, meaning that there is a lack of consistency and comparability across platforms. For example, Facebook currently reports on the number of abusive posts while, Twitter logs the number of abusive users.²⁰⁶ Vidgen et al. (2019a) encourage standardised reporting to allow for comparison across platforms, recommending that governments impose reporting requirements on large tech companies. However, such an initiative could be difficult to implement practically across all companies, as tech companies vary greatly in size.

UK organisation Article 19 calls for public officials to speak out against hateful narratives, and to refrain from engaging in hateful speech themselves.²⁰⁷ Members of the 'No Hate Parliamentary Alliance' at the Council of Europe also pledge to raise awareness and take action against hatred and intolerance by exchanging information on best practices, engaging in campaigning activities and speaking out. In terms of educating public officials, further equality training to educate officials on countering discrimination and hate speech could be beneficial, particularly when such training is clearly communicated to the public in order to build trust and ensure transparency.²⁰⁸

The European Commission (2018) emphasises the need for governments to monitor disinformation dynamics and their impacts on society.²⁰⁹ To this end, Vidgen et al. (2019a) recommend that governments consider collating statistics on the different types of illegal online abuse – including hate speech and online harassment – and publish these in a single bulletin.²¹⁰ The Equality and Human Rights Commission takes an active role in reporting hateful extremist narratives, collecting data on hate speech online and offline.²¹¹ Every October, the Home Office issues a response to the annual Hate Crime statistics. These resources could provide a good starting point for a regular bulletin to provide an overview of online harm. Vidgen et al. (2019a) recommend further efforts to improve the coverage, comparability (across years as well as with other countries) and quality of government statistics, which could include the reinstatement of the UK Home Office's reporting of online hate crime.²¹² In the Home Office's 2018/19 hate crime report, concerns about the quality of statistics meant that no figures were provided for online hate.²¹³ In general, there is a need for

²⁰³ Digital, Culture, media and Sports Committee (2019).

²⁰⁴ Digital, Culture, media and Sports Committee (2019).

²⁰⁵ Vidgen et al. (2019a).

²⁰⁶ Vidgen et al. (2019a).

²⁰⁷ Article 19 (2018).

²⁰⁸ Article 19 (2018).

²⁰⁹ European Commission (2018).

²¹⁰ Vidgen et al. (2019a).

²¹¹ Article 19 (2018).

²¹² Vidgen et al. (2019a).

²¹³ Vidgen et al. (2019a).

continued support for research and real world experiments, in addition to cooperation with civil society organisations to establish open data standards.²¹⁴

Furthermore, according to Vidgen et al. (2019a) a publicly accessible monitoring platform could be established to provide real-time insight into online abuse; and researchers should leverage recent computational advances including machine learning models, deep neural networks,²¹⁵ and contextual word embeddings.²¹⁶ Hatemeter, an EU-funded initiative, uses natural language processing, machine learning and big data analytics to monitor and analyse anti-Muslim content from social media, flagging hate speech in real time.²¹⁷ This system was established to understand the patterns in online Islamophobia, develop effective strategic and tactical response plans, and produce a counterspeech framework for tackling anti-Muslim hatred.²¹⁸ Government funding for such initiatives could provide further insights for researchers and practitioners alike.

Bilazarian (2020) highlights a need for greater public sector investment in education and training to raise awareness and develop societal resilience.²¹⁹ Article 19 (2018) recommends increased investment in digital literacy skills to enable the public to understand the benefits of digital engagement, particularly the opportunities to foster pluralism, which could encourage people to engage in counterspeech.²²⁰ As noted in Section 4.1.4, education on false information is integrated into subject areas including art, history, maths and language lessons in Finnish schools.²²¹ Such initiatives can help increase critical literacy and raise awareness of the impact of false information.

Beyond training and education, reviewed papers suggest that governments can cooperate with civil society to develop counterspeech tactics to educate bystanders while combating online false information (see also Section 4.1.2). For example, the US government response to al-Qaeda-inspired online propaganda – referred to as ‘Think Again’ – saw State Department officials use social media to spread counternarratives, directly challenging the portrayal of ISIS published by its supporters.²²² Some of the reviewed literature explores the question of whether such narratives hold greater sway if they are shared by official government accounts rather than by independent organisations, but the review did not identify a strong, empirical body of literature to provide conclusive evidence on this topic. The strengths and shortcomings of counterspeech are discussed in Section 4.1.2.

²¹⁴ Graves (2018).

²¹⁵ ‘Deep neural networks’ are artificial deep learning systems that allow the recognition of patterns and the sophisticated interpretation of data.

²¹⁶ Vidgen et al. (2019a); ‘contextual word embeddings’ allow systems to independently encode words from a document.

²¹⁷ Hatemeter (2020).

²¹⁸ Hatemeter (2020).

²¹⁹ Bilazarian (2020).

²²⁰ Article 19 (2018).

²²¹ Henley (2020).

²²² Bilazarian (2020).

4.2.2. Social media companies

Table 4-3 summarises the reported ‘good practices’, challenges and considerations for social media companies in relation to countering hateful extremist false information as articulated in the reviewed literature.

Table 4-3: Social media companies: reported ‘good practices’, challenges and considerations

Reported ‘good practices’	Challenges and considerations
<ul style="list-style-type: none"> • Adopting the use of upvote/downvote systems that potentially reduce the visibility of misleading or hateful content. • Using ‘good’ bots to share positive narratives on social media and online platforms. • Taking down abusive posts and comments (see Section 4.1.3). • Factchecking content, including that published by public officials (see Section 4.1.1). 	<ul style="list-style-type: none"> • Oversights in ‘recommendation’ algorithms can direct users to harmful online content. • A need to provide transparency regarding any algorithm changes. • A need for faster and stronger action against malicious bots.

False information poses a significant challenge for social media companies.²²³ Nonetheless, there is some consensus within the reviewed literature that companies should take greater responsibility for the content hosted on their platforms.²²⁴ To this end, Carter (2020) suggests that social media companies should monitor content and change algorithms to avoid the ‘recommendation’ of extreme or harmful content on their platforms.²²⁵ Notably, Ribeiro et al. (2019)’s study suggested the existence of a ‘radicalisation pipeline’ on YouTube, positing that the recommendation algorithm was pointing users to increasingly extreme content.²²⁶ The Council of Europe (2017) suggests that any changes to algorithms that could down-rank content should be accompanied by transparent criteria to avoid claims of bias and censorship from content producers.²²⁷ Jones (2020) also advocates for the use of algorithmic ‘throttling’, or a system of down-ranking of misleading or hateful content.²²⁸ Reddit, for example, uses an upvote/downvote system, which encourages users to moderate forums by raising (and lowering) the profile of certain content. However, it remains to be seen whether an upvote/downvote system would reduce the visibility of false information on a larger platform such as Facebook. In addition, upvoting/downvoting approaches evidently require careful policing – these systems have been manipulated on forum boards such as 4Chan and 8Chan by right-wing extremists to upvote extreme content, while downvoting ‘tamer’ content that is

²²³ Ariza (2020).

²²⁴ CoE (2017a); Caplan (2017); Ockenden (2020); Digital, Culture, media and Sports Committee (2019).

²²⁵ Carter (2020).

²²⁶ Ribeiro et al. (2019).

²²⁷ CoE (2017a).

²²⁸ Jones (2020).

subsequently removed after 24 hours. A further issue to consider is the potential risk for automated manipulation if the visibility of content is determined by consensus voting.

According to the Council of Europe (2017), social media companies need to take stronger and faster action against automated accounts (bots) that amplify content.²²⁹ During the 2016 US election, for example, Twitter reported that nearly 1.4 million human accounts interacted with content created by bots or trolls.²³⁰ Bots are used by hate actors to rapidly amplify and multiply false information, allowing harmful narratives to have a wider reach. Given that bots have such an effect on hate speech, Albadi et al. (2019) ask whether ‘good’ bots could be used to promote tolerance, acceptance and diversity values, in order to decrease online hate speech.²³¹ To this end, in 2018 the Fundamental Rights Agency of the European Union unveiled its pilot project ‘FRAbot’, an automated Twitter account that responds to hateful extremist content online.²³² However, it remains to be seen whether such an initiative could be rolled out on a large scale, and whether this could be implemented by social media platforms themselves. Overall, Carter (2020) recommends that social media companies take a more active role in promoting positive counternarratives and ensuring that these are actively shared by online influencers.²³³

4.2.3. Civil society

Table 4-4 summarises reported ‘good practices’, challenges and considerations for civil society organisations with regard to countering false information and its use by hateful extremists, according to the reviewed literature.

²²⁹ CoE (2017a).

²³⁰ Albadi et al. (2019).

²³¹ Albadi et al. (2019).

²³² Fundamental Rights Agency (2018).

²³³ Carter (2020).

Table 4-4: Civil society: reported ‘good practices’, challenges and considerations

Reported ‘good practices’	Challenges and considerations
<ul style="list-style-type: none"> • Acting as an ‘honest broker’ to bring together different actors to generate discussion and foster collaborative solutions against false information. • Providing direct support to victims of hateful extremism (e.g. via hotlines). • Raising awareness and petitioning for the removal of false information. • Providing educational material and educating the public. 	<ul style="list-style-type: none"> • Lack of awareness among companies regarding the placement of advertisements (e.g. on disinformation sites) and a need for greater transparency. • A need for more resources and funding to tackle false information on a greater scale.

Civil society organisations can act as ‘honest brokers’, bringing together different actors in the fight against false information, and creating fora for engagement between social media companies, news organisations, research institutes and governments.²³⁴ A number of civil society organisations are also playing an active role in supporting victims of hateful extremism; for example, Stop Hate UK offers a hotline for victims who wish to seek advice and guidance. Furthermore, these organisations actively report online abuse, highlight areas for the attention of governments and social media companies, and raise public awareness of disinformation. For example, the UK-based organisation Stop Funding Fake News has pointed out that companies advertising via Google are often unaware of the placement of their advertisements, and has called for greater transparency from Google. Stop Funding Fake News aims to raise awareness of this issue and petition companies to remove their advertising from websites that it deems as hosting disinformation or stories that are inaccurate and sensationalist.²³⁵ These petitions have resulted in action by large brands such as Sky, eBay and WWF to remove their advertising from certain sites.²³⁶

There is a need to educate the public on an ongoing basis about the threat of disinformation and the persuasive techniques used by hateful extremist actors.²³⁷ Commentators have identified a need to raise awareness about the risks of disinformation to society, including growing public distrust in official sources and the deepening of societal divisions.²³⁸ Disinformation can cast doubt on government communications, scientific consensus and historical facts.²³⁹ This can be particularly detrimental at a time when there is a global health pandemic, with the spread of disinformation sparking concerns

²³⁴ CoE (2017a).

²³⁵ Stop Funding Fake News (2020).

²³⁶ Stop Funding Fake News (2020).

²³⁷ CoE (2017a).

²³⁸ CoE (2017a).

²³⁹ Connolly et al. (2019).

regarding societal divisions in countries across the globe.²⁴⁰ Ultimately, it is the goal of some hateful extremist actors to bring about the collapse of society so that they can build a ‘new world’ based on their belief system.²⁴¹ In the context of this threat, it is particularly important to educate the public about the dangers of disinformation.

According to the European Commission, enhancing education and public awareness is a role that could be taken on by civil society.²⁴² Already, civil society fills in the gaps left by government educational initiatives (Section 4.2.1), providing educational material to schools and educators to build societal resilience, improve detection of racism and antisemitism, and enable students to critically assess how they consume online media.²⁴³ As civil society actors are independent, they could also be seen as relatively non-political or ‘more trustworthy’ by some members of the public.²⁴⁴ To inform educational programmes and provide further insight, some commentators suggest that civil society and/or government could administer a dedicated annual representative survey to understand the online abuse experienced by people in the UK.²⁴⁵

4.2.4. News/media organisations

Table 4-5 summarises reported ‘good practices’, challenges and considerations for news/media organisations, according to the reviewed literature.

Table 4-5: News/media organisations: reported ‘good practices’, challenges and considerations

Reported ‘good practices’	Challenges and considerations
<ul style="list-style-type: none"> • Good journalism practices (e.g. avoiding clickbait) to reduce the spread of false information. • Demonstrating integrity in calling out misleading statements from prominent public figures and other sources. • Maintaining transparency in factchecking. 	<ul style="list-style-type: none"> • Reporting on news issues when increased exposure feeds into extremist agendas. • Avoiding clickbait and misleading headlines. • Ensuring that quality control is sufficient and avoiding reliance on post-publication correction.

It is important for news/media organisations to take responsibility for headlines and to avoid ‘clickbait’, particularly amid a global pandemic.²⁴⁶ Outrage attracts readers and generates revenue; and news publications accordingly post clickbait headlines containing sensationalist and misleading information in order to increase views.²⁴⁷ Furthermore, many news sources similarly report on cases

²⁴⁰ Banjo & Lung (2019).

²⁴¹ Wilson (2020).

²⁴² EC (2018b).

²⁴³ Vidgen et al. (2019a).

²⁴⁴ CoE (2017a).

²⁴⁵ Vidgen et al. (2019a). OxIS and Ofcom’s ‘Adult Media Use and Attitudes’ survey offers a good starting point.

²⁴⁶ CoE (2017a).

²⁴⁷ Marwick and Lewis (2017).

of false information they consider newsworthy, unintentionally giving such content more exposure.²⁴⁸ For this reason, the Council of Europe (2017) recommends that news and media organisations should consider cooperating to agree on when to hold ‘strategic silence’.²⁴⁹ In addition, the Council recommends that news organisations should ensure that they pursue good journalism practices and ensure internal quality control.²⁵⁰ As many organisations rely on outrage, sensationalism or clickbait to generate revenue, there is a need to carefully establish good journalism practices and determine how these can be adhered to without incurring losses.

In light of the difficulties outlined in Section 4.1.1 regarding persuading readers of corrections, it is essential that external post-publication corrections do not substitute internal processes of quality control.²⁵¹ Furthermore, despite running the risk of alienating supporters, Brennen et al. (2020) suggest that news/media organisations should take a more active role in calling out false information from prominent politicians.²⁵² Finally, Amazeen et al. (2018), Thorson (2016) and Douglas et al. (2019a) suggest that news organisations should maintain transparency in how they factcheck, using credible sources and data, and making them accessible to audiences.²⁵³

4.3. Evidence gaps

The reviewed papers identified two key gaps in relation to the second review theme: (1) a lack of research on the impact of existing interventions and empirical evidence on ‘what works’; and (2) a lack of varied datasets used in primary data analysis regarding hateful extremist activity online and associated responses.

Lack of evidence on the impact of existing interventions and ‘what works’

With regards to research on the impact of interventions, Amazeen et al. (2018) and Thorson (2016) emphasise the need for a better understanding of the effectiveness of factchecking, counterspeech, takedowns and other such techniques used to counter false information. This is echoed by Douglas et al. (2019a), who call for researchers to evaluate these techniques to address false information and their potential effects in relation to the spread of conspiracy theories.²⁵⁴ Similarly, research focusing on hate speech highlights current gaps in understanding effective ways to tackle this challenge. With a focus on the backlash caused by some counterspeech campaigns against hate speech, Baldauf et al. (2019) call for research into innovative alternatives, echoed by Muller and Schwarz (2020), who highlight the need to demonstrate effective techniques against hate speech.²⁵⁵ Finally, studies by Parker and Lindekilde (2020) and by Wallner (2020) highlight the need for robust

²⁴⁸ Marwick and Lewis (2017).

²⁴⁹ CoE (2017a). Further research is needed to establish what the threshold for a ‘strategic silence’ could be.

²⁵⁰ CoE (2017a).

²⁵¹ Cherilyn and Posetti (2018).

²⁵² Brennen et al. (2020).

²⁵³ Graves (2013); Poynter (2019); Humprecht (2019); Douglas et al. (2019a).

²⁵⁴ Amazeen et al. (2018); Thorson (2016); Douglas et al. (2019a).

²⁵⁵ Baldauf et al. (2019); Mueller and Schwarz (2020).

impact assessments and public evaluations of existing PVE and CE/CVE²⁵⁶ interventions to inform future policy and interventions.²⁵⁷

Limited variation in datasets used in primary data analysis

Several studies point to the need for more varied datasets to analyse false information, hateful extremist content online and associated interventions. This lack of diversity concerns both the format of content as well as its origins. Regarding format, several studies highlight the need for further analysis of multimodal content: Alan Turing Institute (2019) points to the ‘severe restriction’ in terms of the lack of research into non-text based abusive content online, including the risk of neglecting other forms of content like images, audio files, memes, GIFs or videos in a multimedia environment.²⁵⁸ This is echoed in a study by Ziems et al. (2020) on racism online, and in Schwarz and Holnburger (2019)’s study on the dissemination of disinformation online.²⁵⁹ Studies also highlight the need for an extended geographical and linguistic scope of research. Regarding conspiracy theories, Nyhan and Zeitsoff (2018) point out that most research focuses on Europe and the US, with little focus on the developing world. This reflects our study finding regarding the Eurocentric focus of the reviewed literature on false information and hateful extremism online (see Section 2.1.1). On online abuse, Vidgen et al. (2019) also note the lack of focus on non-English language abuse.²⁶⁰ Research in this area could be important in England and Wales, particularly among communities where English is not the first language. Finally, Albadi et al. (2019) comment on the lack of research on bot behaviour on Arabic social media.²⁶¹ Research into this area could potentially shed light on immigrant communities based in the UK and their experiences of exposure to hateful extremist disinformation. This narrow understanding of hateful content online – which does not appear to cover multimodal hateful online content across countries and languages – could limit the ability of governments, social media companies and other actors to develop effective interventions and policy responses.

²⁵⁶ PVE: Preventing Violent Extremism; CVE: Countering Violent Extremism.

²⁵⁷ Parker and Lindekilde (2020); Wallner (2020).

²⁵⁸ Alan Turing Institute (2019).

²⁵⁹ Ziems et al. (2020); Schwarz and Holnburger (2019).

²⁶⁰ Alan Turing Institute (2019).

²⁶¹ Albadi et al. (2019).

5. Key findings and next steps

This chapter presents an overview of the main study findings in order to address the research questions set out in Chapter 1 and presented in the box below (Section 5.1). Based on these findings, Section 5.2 then sets out policy insights for the consideration of CCE. Finally, Section 5.3 outlines areas for recommended future research to help address the evidence gaps identified in Chapters 3 and 4.

Review theme 1: Links between hateful extremism and false information

- 1.1: What impact can false information have on hateful extremist beliefs and behaviours?
- 1.2: In what ways do hateful extremist beliefs contribute to the spread of false information?
- 1.3: What trends and variations can be identified across different audience types, modes of false information and extremist groups?

Review theme 2: Associated online interventions and policy responses

- 2.1: What insights can be identified from the literature on the effectiveness of existing interventions and policy responses?
- 2.2: What recommendations are put forward in the existing literature in relation to future interventions in this area?

2.3: What transferrable lessons/'good practices' from successful interventions in related policy areas can be identified?

5.1. Summary of findings

Review theme 1: Links between hateful extremism and false information

The literature review draws on a combination of expert opinion and empirical analysis by the authors of selected sources. The findings presented here provide a number of plausible hypotheses identified in the literature, but the quality and quantity of the literature is not sufficient to provide strong, empirical evidence of the links.

False information can enable the spread of hateful extremist attitudes and beliefs, as extremist narratives circulate online and pick up traction among those who might not usually consume such

content. This report has also identified how false information can lead to the emergence of echo chambers, which can strengthen existing hateful attitudes by further desensitising group participants to hateful language and narratives. In this process, moderate users drop off, leaving a concentration of extremists and no opposing views to challenge their perspectives.

Hateful extremist beliefs can contribute to false information by leveraging such narratives to serve their causes. Hateful extremist narratives are used as a recruitment tool and claim to offer a ‘red pill’²⁶² to people struggling from a lack of prospects in light of the current COVID-19 crisis, in an effort to make the extremist narratives seem more appealing. Furthermore, false information gives hateful groups increased exposure – including through the statements of public officials and mainstream media reporting – and can attract sympathy for their causes. In combination, recruitment benefits and increased exposure present considerable incentives for such groups to spread their narratives.

Many different types of hateful extremist actor operate within the online domain. While these actors have made use of the current pandemic to further their interests, they have taken different approaches in doing so. While far-right groups seek to blame migration, globalisation or the government for the virus, Islamist actors might see the pandemic as a form of divine punishment against infidels. However, all groups seek to direct hostile narratives at ‘out-groups’, leveraging public fear and uncertainty amid the global pandemic. As more people – particularly young people – have consumed online content during lockdown, this has exposed a greater cross-section of the population to recruitment by hateful extremist groups.

Review theme 2: Associated online interventions and policy responses

According to the reviewed source material, several existing measures offer promise in terms of reducing the spread of false information and building societal resilience. Civil society is playing an important part in raising awareness and campaigning to prevent false information. However, the review did not identify any interventions that have been subject to rigorous empirical evaluation. The UK-based organisation Stop Funding Fake News, for example, has taken on the task of preventing disinformation sites from earning advertising revenues. In terms of policy interventions, the 2018 German NetzDG Act has shown promise in holding social media platforms to account and offering a radical solution to stem the spread of false information. News/media organisations support the fight against hateful extremism by adhering to good journalistic practices (e.g. avoiding clickbait), while social media companies can contribute by modifying their algorithms to prevent the ‘recommendation’ of harmful content.

COVID-19 presents a unique challenge for policymakers and organisations seeking to tackle false information. In terms of the role of governments, the reviewed sources highlight a need to dedicate more resources to combat false information in order to build societal resilience, and to support

²⁶² The ‘red pill’ is a concept coined by *The Matrix*, a science-fiction action film franchise, wherein the underlying, unpleasant truths of the world are revealed to the consumer, rather than the ‘blue pill’, which allows the majority of consumers to maintain ‘blissful ignorance’. Baldauf et al. (2019).

further research into the impacts of hateful extremist narratives. Social media companies and news/media organisations are also urged to take more responsibility by the authors of reviewed papers, respectively by managing the content on their platforms and ensuring that outlets adhere to good journalism practices and avoid clickbait headlines.

This report set out to address all research questions presented in Section 1.2, including Q2.3: '*What transferrable lessons/good practices from successful interventions in related policy areas can be identified?*'. While this report initially set out to answer this question, the study team did not identify successful interventions from alternative policy areas, as this area was not revealed in the reviewed papers. While one source referred to gang violence, the reference was made solely to distinguish this threat from extremism. The paper observed a link between criminal biker gangs and right-wing hate groups, but noted that the former lacks an ideology to legitimise their acts of violence, limiting the transferability of insights from this group to right-wing hate groups.²⁶³ Beyond this source, there was limited reference to other policy areas in the reviewed papers. It should nonetheless be noted that the range of approaches presented in this report are drawn from a wide range of disciplines, including psychology, political science, sociology and law, which offers a range of views and approaches. Although the review did not identify direct lessons or transferrable practices from other policy areas, insights on interventions in this report benefit from a multidisciplinary approach across a broad scope of literature.

5.2. UK policy considerations

Based on the review findings of this report, we present some policy insights for the consideration of CCE:

- **Investing in some of the notable research gaps in the field of false information.** As identified in the previous section, there are significant research gaps requiring further input. There is a need for further evaluation of existing interventions, as well as research on directional motivations and a wider range of studies in terms of geography, languages and online content. Regarding appropriate responses to false information, there is a need to develop a better understanding of the issue and its wider context. Furthermore, there is a need for additional research into 'what works', to understand intervention effects.
- **Holding tech companies to account can increase their responsiveness to false information.** As the implementation of the 2018 NetzDG Act shows (see Section 4.2.1), large fines may incentivise tech companies to remove hateful extremist content in a timely manner, increasing companies' responsiveness in removing false information from their platforms.
- **Investing in education programmes can help raise awareness of the dangers of hateful extremism.** As noted in Section 4.2, there is a role for government and civil society to play in developing education and training to increase public awareness of hateful extremist uses of false information. Given the large volume of false information online and the increased exposure

²⁶³ Baldauf et al. (2019).

of online users to this content during COVID-19, there is a pressing need to educate the public about the threat of false information, persuasive techniques used by hateful extremist actors, and actions to support individual resilience.

- **Collecting and publishing information regarding indicators of hateful extremism could help improve policy responses.** The literature highlights a need for governments to collate and publish information on hateful extremism. As outlined in Section 5.2, there is a need to broaden the type of information collected (e.g. looking beyond text-based content to include images, audio, memes and other content), make greater use of computational advances (e.g. machine learning), and to ensure the quality of statistics (e.g. via independent peer review). A better understanding of the nature and scale of the threat could help enhance policy measures and improve public resilience.
- **Exploring the use of ‘good’ bots to support the spread of positive narratives online.** It is evident from online activity during major political events (e.g. the 2016 US presidential election) that trolls and bots have manipulated voter behaviour and deepened societal divides. Noting the persuasiveness of these tactics, there could be scope to explore the adaptation of such techniques to instead promote democratic values of tolerance, acceptance and diversity on social media, as well as to constrain the reach and influence of online hate speech.
- **Collaborating across sectors can ensure that interventions are mutually reinforcing.** Engagement between UK policy officials, social media moderators, educators, journalists, civil society organisers, research experts, legislators and other national governments could help ensure that HMG policy and guidance reflects an understanding of the scale and nature of the challenge from hateful extremists’ use of false information, and complements activities that are being undertaken elsewhere.

5.3. Avenues for further research

In light of the evidence gaps identified in the reviewed sources (see Sections 3.3 and 4.3), we propose several areas for future research:

- **Independent and robustly designed evaluations of existing interventions and ‘what works’.** To inform a better understanding of the effectiveness of existing counter-measures, there would be merit in conducting independent evaluations of interventions dedicated to tackling hateful extremism and false information. Public authorities should consider this need when designing or commissioning interventions and collaborating with private sector platforms. Evaluations could focus on measuring the effectiveness of factchecking and other techniques used to counter false information – such as counterspeech and takedowns – and assess interventions that are delivered online and those implemented in physical environments, such as schools or universities. The results of these evaluations should be made publicly available to help inform the development of innovative and effective future interventions.

- **Future research on ‘directional motivations’.** By focusing on ‘directional motivations’ – i.e. the individual’s motivation to hold on to existing convictions and attitudes – future studies could help improve understanding of the characteristics of individuals who are more prone to hateful extremist beliefs and behaviours. This could also help enhance awareness of the way these individuals respond to online content and false information. Research on this topic could support the development of new interventions, informing an understanding of the circumstances under which false information corrections will be more (or less) effective.
- **Studies with a wider reach in relation to geography, languages and online content.** To equip policy and decision makers with a fuller evidence base, future studies should analyse a wider range of: (i) countries and regions, shifting away from the Euro- and US-centric focus of the literature to incorporate a broader cross-section of countries and regions across the globe;²⁶⁴ (ii) languages, in order to understand non-English language hate speech and misinformation, particularly among immigrant communities in England and Wales; and (iii) types of online content, moving beyond text-based content to other types of content including images, audio files, memes, GIFs or videos. Researchers could rely to a greater extent on automated processes and machine learning approaches to analyse large volumes of online content, allowing for larger and more varied datasets. Vidgen et al. (2019a) also observe that researchers have made little use of freely available Google Trends data, with scope for this data to inform future research.²⁶⁵

²⁶⁴ While this report has been written to inform CVE policy in England and Wales, our review of the literature revealed that there is a shortage of empirical studies with a focus on geographical areas beyond Europe and the US.

²⁶⁵ Vidgen et al. (2019a).

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Annex A. Glossary of key terms

Table A-1 provides expanded definitions of the key terms identified in the literature review.

Table A-1: Glossary of key terms

Term	Definition	Source
Abusive content	'Abusive content' encompasses harmful content, which often does not abide by platforms' regulation guidelines.	Vidgen et al. (2019a)
Activation	'Activation' refers to the first publication of either a hate or a counter-hate message on Twitter.	Ziems et al. (2020)
Alt-right	'Alt-right' refers to a neologism coined in 2008 to define right-wing political supporters misaligned with conservatives. It is sometimes understood as a new way to designate 'white nationalists' and 'white supremacists' to introduce their discourse into mainstream media.	Marwick & Lewis (2017)
Antisemitism	'Antisemitism' refers to a perception in relation to the Jewish community that can be expressed as hate against Jews, Jewish institutions and religious facilities.	Allington (2020); UNESCO (2020)
Belief Persistence	'Belief persistence' refers to an insistence in maintaining misperceptions even after they have been proved to be false.	Thorson (2016)
Civil monitoring	'Civil monitoring' refers to voluntary activities conducted online by individuals or groups to monitor online actions they consider to be harmful to societies.	Hatakka (2019)
Confirmation bias	'Confirmation bias' is a tendency for individuals to favour information that aligns with their pre-existing views rather than be exposed to other points of view.	Mueller & Schwarz (2020)
Conspiracy belief	'Conspiracy beliefs' are held by those who recognise a conspiracy theory (see below) as being true.	Douglas et al. (2019a)
Conspiracy theory	'Conspiracy theories' are narratives created to infer that an event or	Bolsen & Druckman (2018); Connolly et al. (2019); Douglas et al.

	situation is the result of a secret plan made by powerful individuals or groups.	(2019a); Vegetti & Levente (2020); ISD (2020); Fangen & Holter (2020); Holbrook (2020)
Dangerous speech	‘Dangerous speech’ refers to forms of expression that are likely to prompt an audience to support hateful activities and commit violence. Dangerous speech, unlike hate speech (see below) does not target a particular individual or group.	Benesch et al. (2020)
Disinformation	‘Disinformation’ refers to false information that is intentionally shared and disseminated in an organised fashion to mislead the audience and satisfy political, financial, psychological or social motivations. Coined by Stalin, the term comes from the Russian ‘dezinformatsiya’ to label Soviet propaganda campaigns. Disinformation is different from misinformation and malinformation (see below).	ISD (2020); Ball & Maxmen (2020); Ockenden (2020); Digital, Culture, Media and Sports Committee (2019); European Commission (2018b); Cheryl & Posetti (2018); Jones (2020); Schwarz & Holnburger (2019)
Ethnonationalism	‘Ethnonationalism’ refers to a form of nationalism where ethnicity is the link between all nation members in addition to a shared heritage and culture.	Davey & Hart (2020)
Extremism	‘Extremism’ is a system of belief that opposes democratic values, establishes a hierarchy between members of a group that are superior over those who do not belong and wish to remain separated from them. Extremists advocate for societal change that aligns with their beliefs and are willing to use violent means to achieve their goals.	Baldauf et al. (2019); Lowles & Levene (2019)
Fact-checking	‘Fact-checking’ refers to journalistic activities focused on the assessment of public claims, including political claims, to identify whether they are true or false/misleading.	Amazeen et al. (2018)
False amplifier	‘False amplifier’ refers to coordinated action online by inauthentic accounts, primarily on social media, to distort and manipulate political debates.	Council of Europe (2017a)
False information	‘False information’ is used in this report as a catch-all term to refer collectively to online misinformation, disinformation and conspiracy theories (see definitions of these terms).	Kumar and Shah (2018); Brennen et al. (2020)
Fake news	‘Fake news’ refers to a type of false information that can contain misinformation (see below) or disinformation (see above), and can be	Marwick & Lewis (2017); Digital, Culture, Media and Sports Committee (2019); Jones (2020);

	spread in the media and online.	Schwarz & Holnburger (2019)
Far-right	‘Far-right’ refers to those on the political spectrum that gather around at least three of the following features: nationalism, racism, xenophobia, antidemocracy and strong-state advocacy. They are likely to support white supremacy and adhere to conspiracy theories (see above).	ISD (2020); Fangen & Holter (2020)
Hate crime	‘Hate crime’ consists of a criminal act motivated by the perpetrator’s bias against their real or perceived identity, e.g. in relation to race, religion, nationality, origin, gender or sexual orientation.	Gover et al. (2020)
Hate speech	‘Hate speech’ refers to those forms of expression that aim to discriminate against one group of people to alienate them based on their identity – real or perceived by the author according to their bias – according to their religion, nationality, ethnicity, gender or sexual orientation. Hate speech should be differentiated from dangerous speech (see above).	Baldauf et al. (2019); DePaula et al. (2018)
Hateful extremism	‘Hateful extremism’ refers to hateful language, narratives and behaviours that ‘incite and amplify hate, or engage in persistent hatred, or equivocate about and make the moral case for violence’, drawing on hateful, hostile or supremacist beliefs directed at an out-group, ‘who are perceived as a threat to the wellbeing, survival or success of an in-group’; which can cause harm to individuals, communities or members of that out-group or wider society as a whole.	CCE (2019)
Hyper partisan sites	‘Hyper partisan sites’ are those sites deeply rooted in an ideology used as a lens through which they disseminate false information and decontextualised information to create misleading views.	Marwick & Lewis (2017)
Malinformation	‘Malinformation’ refers to the publication of private information to deliberately cause harm to an individual or an organisation. Malinformation is different from disinformation (see above) and misinformation (see below).	Council of Europe (2017a); Cherilyn & Posetti (2018)
Misinformation	‘Misinformation’ refers to false or incorrect information that is spread	Ball & Maxmen (2020); Ockenden (2020); Digital, Culture, Media and

	without necessarily involving the intention to mislead an audience. Misinformation is different from disinformation (see above) and malinformation (see above). The term is sometimes used to define any type of false information regardless of motivations.	Sports Committee (2019); Brennan et al. (2020); Cherilyn & Posetti (2018); Jones (2020)
Misperceptions	‘Misperceptions’ are associated with errors in human judgements and decision making, particularly when these are caused by bias due to existing beliefs, expectations, context, needs, motives and desires.	Pronin (2007)
Prejudices	‘Prejudices’ refer to those negative unjustified attitudes held against members of a designated group.	Barderi (2018)
Preventing violent extremism (PVE)	‘Preventing violent extremism’ refers to preventative approaches to reduce the likelihood of individual radicalisation and of violent extremist beliefs and behaviours (see below).	Wallner (2020)
Radicalisation	‘Radicalisation’ is a process through which an individual is drawn to violent extremism (see below).	Avis (2020)
Religious hate speech	‘Religious hate speech’ (also referred to as religious hatred) refers to a type of hate speech (see above) that specifically targets and discriminates against individuals or groups with different or no religious beliefs.	Albadi et al. (2019)
Violent extremism	‘Violent extremism’ refers to the adoption and the use of violence as a means to achieve political, economic or social goals.	Avis (2020)
Zoombombing	‘Zoombombing’ refers to the intrusion of virtual meetings held on video conferencing platforms to disseminate hateful speech.	CST (2020)

Source: RAND Europe (2020) review of sources listed in Table A-1.

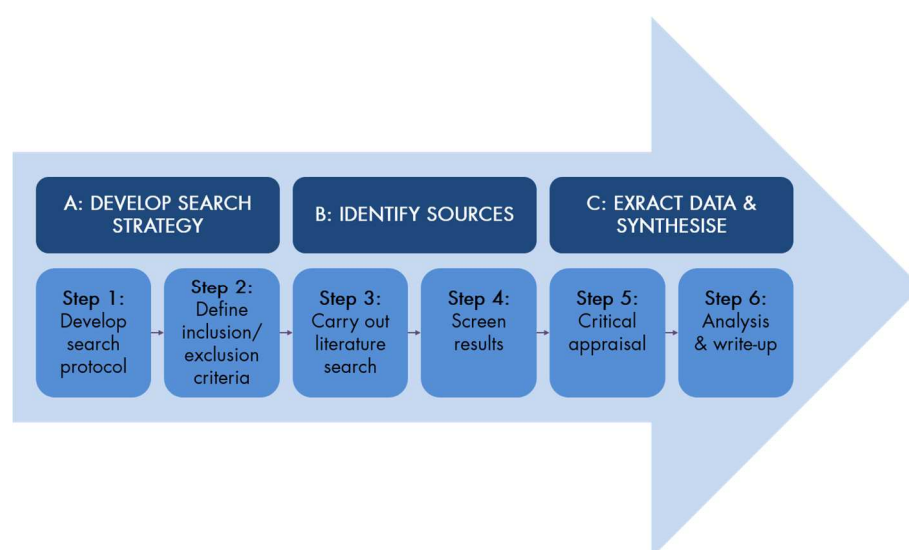
Annex B. Research approach

This annex describes the research methods used to undertake this study, a summary of which is presented in Section 1.3.

B.1. Overview of approach

The study team used a Rapid Evidence Assessment (REA) approach to deliver the literature review. As presented in Figure B-1, the REA approach followed three stages: (A) Developing a search strategy; (B) Identifying sources; and (C) Data extraction and final synthesis.

Figure B-1: REA approach



B.2. Develop search strategy

The first task involved developing a search strategy in order to set out the parameters of the REA. This was developed with the input and guidance of a RAND Librarian and in consultation with CCE. The search protocol included details regarding search terms, selected databases and inclusion and exclusion criteria.

To develop the search strategy, a number of indicative search terms were piloted and relevant databases were identified. Pilot testing of search terms was conducted to help ensure that the terms were broad enough to include a range of relevant studies, but narrow enough that the search citation numbers were manageable.

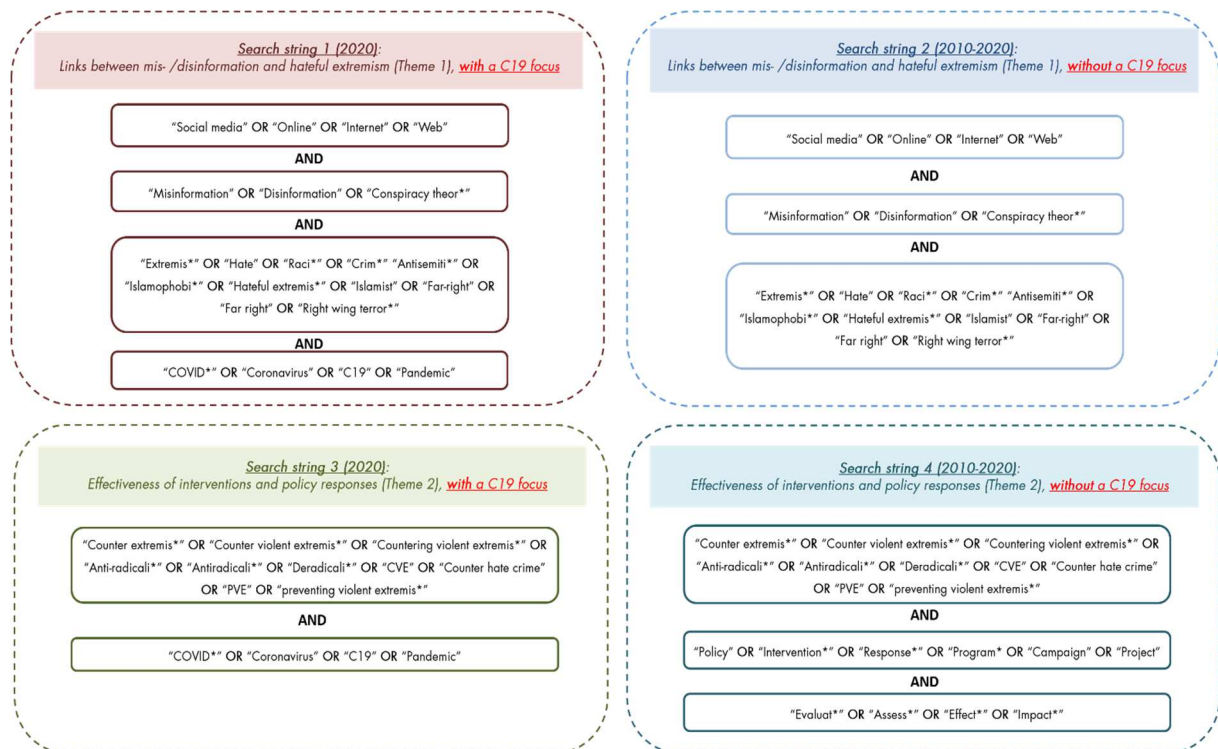
The protocol involved the use of four search strings, covering the two review themes from both a general standpoint, and with a focus on sources that considered the effect of COVID-19:

- **Search string 1:** Theme 1 (links between hateful extremism and false information), with a COVID-19 focus.

- **Search string 2:** Theme 1 (links between hateful extremism and false information), without a COVID-19 focus.
- **Search string 3:** Theme 2 (associated online interventions and policy responses), with a COVID-19 focus.
- **Search string 4:** Theme 2 (associated online interventions and policy responses), without a COVID-19 focus.

The final search strings are presented in Figure B-2 below.

Figure B-2: Search strings



A set of inclusion and exclusion criteria was developed and applied to the REA. These criteria are presented in Table B-1.

Table B-1: Inclusion and exclusion criteria

	Inclusion criteria	Exclusion criteria	Rationale
Research focus	Literature that focuses on the two review themes: 1. Links between hateful extremism and false information. 2. Associated interventions and policy responses.	Research not concerned with the review themes specified in the inclusion criteria.	Focusing on the thematic areas discussed and agreed with CCE at the beginning of the study.
Geographic location	UK (primary focus) Rest of world (secondary).	None.	Focusing on the UK as the country of primary interest; including other country-focused sources to identify practices, insights and lessons from other contexts.
Source type	Academic research. Grey literature (research papers, evaluations, policy documentation, polling data). <i>[Media sources – secondary focus].</i>	Documents without clear organisational authorship, letters, editorials, comments, book reviews.	Optimising the quality of sources in the literature search.
Language	English-language sources.	Non-English language sources.	Expectation that English-language sources would yield a sufficient volume of literature within the study time constraints.
Publication date	2020 (searches 1; 3). 2010-20 (searches 2; 4).	Research published before 2020 (1; 3); before 2010 (2; 4).	2020 selected for 1 & 3 as C19 is specific to this year; 2010–2020 selected for 2 & 4 to ensure relevance and timeliness of papers while keeping the range broad enough to capture sufficient results.

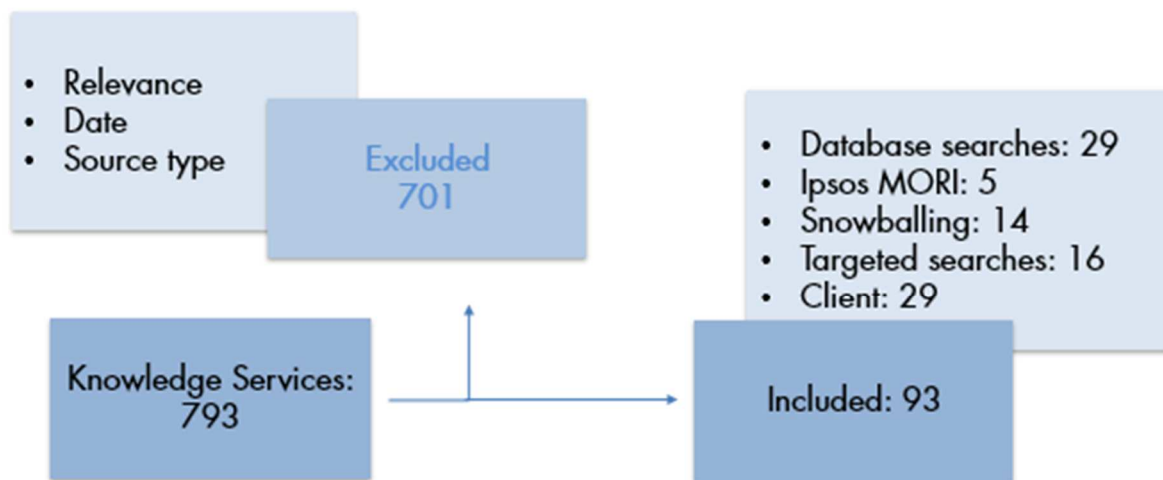
The literature search was conducted in July 2020 in the following databases:

- Academic Search Complete;
- Policy File Index;
- Scopus;
- Google Scholar.

The search strings presented in Figure B-2 were used in the Academic Search Complete, Policy File Index and Scopus searches, with searches applied to the title, abstract or subject fields of source records. A simplified approach was used in Google Scholar given the more limited search combinations the latter database is able to process, and the searches were applied to source titles only.

Figure B-3 presents the number of resulting papers from the initial database search.

Figure B-3: REA study selection



With duplicates removed across databases and search strings, the initial literature review identified 793 sources. After the titles and abstracts of these records were scanned for relevance (see ‘Step 3’), 701 were removed. Records were excluded due to their lack of relevance to the study scope, and sources were also excluded where the publication data preceded 2010 (for searches 2 and 4) or preceded 2020 (for searches 1 and 3), or where the search type did not meet the inclusion criteria (see Table B-1).

Further to the database searches, the RAND team undertook targeted searches of organisational publications and ‘snowball’ searches; that is, searching the reference lists of the academic papers and grey literature identified through the database searches. The targeted searches focused on webpages and publications from the following organisations:

- Brookings Institution;
- Carnegie Endowment for International Peace;
- Chatham House;
- Council of Europe;
- European Commission;
- EU vs. Disinfo;

- IGLA Europe;
- Social Observatory for Disinformation and Social Media Analysis;
- Stop Funding Fake News;
- Stop Hate UK;
- Teaching Tolerance;
- UNESCO.

Finally, as presented in Figure B-3 RAND Europe included 33 sources recommended by CCE (28) and Ipsos MORI (5). As Figure B-3 illustrates, 93 sources were found to be relevant to the themes of the review and the inclusion criteria, and were therefore included in the full-text review.²⁶⁶

B.3. Identify sources

Applying the final search terms presented in Figure B-2, the study team performed the searches on the titles, abstracts and subject fields of records within Academic Search Complete, Policy File Index and Scopus; and on the source titles of records in Google Scholar. All search results were then loaded into EndNote bibliographic software before titles and abstracts of these records were screened for relevance against the criteria specified in Table B-1. When screening the titles and abstracts of records, a researcher coded whether records should be included or excluded from the full text review. Records were excluded if the titles and abstracts did not meet the inclusion criteria.

B.4. Data extraction and synthesis

A full-text review of the 93 sources was then undertaken. For each source, data was extracted into an Excel spreadsheet, with content mapped against the following categories:

- Bibliographic information;
- Country focus;
- COVID-19 vs. non-COVID-19 focus;
- Type of hateful extremism;

²⁶⁶ It should be noted that an additional 10 sources were included in the review, following submission of the Draft Final Report, in order to address final areas of interest highlighted by CCE and to add further supporting evidence. These papers were identified through a targeted Google search: Banjo et al. (2019); Barclay (2011); CCDH & Restless Development (2020); CoE (2017b); GIFCT (2020); Gibbs (2017); Hedayah & ICCT (2014); KHN (2020); McDowell-Smith et al. (2017); Tuck & Silverman (2016). Please note that these sources are *additional to* (rather than included in) the source numbers quoted in this annex, Chapter 2 and the additional Annex C.

- Target population (i.e. for disinformation efforts and/or interventions);
- Focus on mis- and/or disinformation;
- Key definitions (e.g. misinformation, disinformation, hateful extremism);
- Key findings for review theme 1 (nature of links between hateful extremism and false information; impact of these links; insights from neighbouring policy areas);
- Key findings for review theme 2 (nature of existing online interventions and policy responses; effectiveness of these counter-measures; any source recommendations for future policy and practice);
- Underlying research methods and evidence gaps identified by source;
- Additional content of relevance for review write-up.

To collate and summarise the REA findings, an Internal Synthesis Workshop was held on 11 August 2020, at which researchers from RAND Europe and Ipsos MORI discussed the emerging findings from the literature review and their implications for primary research design. Findings were then written up in a narrative synthesis that was structured in relation to the two review themes and the supporting research questions, and then integrated into this report. A quantitative overview of reviewed sources was also produced through an analysis of the included and excluded studies at the initial searching, screening and data-extraction stages.