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4	Interventions to Reduce Partisan Animosity
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6	Rachel Hartman* ¹ , Will Blakey ¹ , Jake Womick ¹ , Chris Bail ² , Eli Finkel ³ , Hahrie Han ⁴ , John
7	Sarrouf ⁵ , Juliana Schroeder ⁶ , Paschal Sheeran ¹ , Jay J. Van Bavel ⁸ , Robb Willer ⁹ , Kurt Gray ¹
8	
9	¹ University of North Carolina at Chapel Hill ² Duke University
10	³ Northwestern University ⁴ Johns Hopkins University
11	⁵ Essential Partners ⁶ University of California, Berkeley
12	⁷ New York University ⁸ Stanford University
13	
14	
15	
16	*Correspondence: <u>rachel.hartman@unc.edu</u>
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Abstract

Rising partisan animosity is linked to less support for democracy and more support for political 19 violence. Here we provide a multi-level review of interventions designed to improve partisan 20 animosity, which we define as negative thoughts, feelings, and behaviors towards a political 21 outgroup. We introduce the TRI framework for the three levels of interventions-Thoughts 22 (correcting misconceptions, highlighting commonalities), Relationships (building dialogue skills, 23 fostering positive contact), and Institutions (changing public discourse, transforming political 24 structures)—and connect these levels by highlighting the importance of motivation and 25 26 mobilization. Our review encompasses both interventions conducted as part of academic research projects, as well as real-world interventions led by practitioners in nonprofit organizations. We 27 also explore the challenges of durability and scalability, examine self-fulfilling polarization and 28 interventions that backfire, and discuss future directions for reducing partisan animosity. 29 Keywords: political polarization, partisan animosity, affective polarization, intervention 30 science, intergroup relations 31

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Interventions to Reduce Partisan Animosity

35	Partisan animosity in America[1-4] undermines our ability to address diverse policy		
36	issues such as pandemics[5,6], income inequality[7], and education[8], and may also reduce		
37	support for democracy[9] and the peaceful transfer of power[10]. Whereas there are several		
38	reviews of the causes and consequences of partisan animosity[1,11–13], there are no reviews of		
39	the many interventions[14-30] to reduce it. With millions of dollars invested to reduce partisan		
40	animosity across hundreds of organizations and research programs, there is a pressing need for		
41	scientific evaluation and synthesis of these interventions. After first defining partisan animosity,		
42	discussing the need to reduce it, and outlining its social and psychological mechanisms, we		
43	synthesize the interventions that researchers, as well as practitioners in bridge-building		
44	organizations, have employed to reduce partisan animosity. We introduce the TRI framework for		
45	the three levels of interventions: thoughts, relationships, and institutions. We also discuss ways		
46	to motivate people reduce their animosity and mobilize them to effect broader change. Finally,		
47	we touch on the durability and scalability of interventions.		

48

Defining Partisan Animosity

Many of the studies we reviewed have used a variant of the polysemous term political 49 polarization, which, broadly, refers to either polarization of ideas or interpersonal polarization. 50 The former is typically referred to as *ideological polarization*[4,31] or *issue polarization*[32], 51 and it reflects disagreement about political issues, policies, or values. This kind of polarization is 52 not negative per se: pluralistic societies have diverse viewpoints, and for democracies to function 53 well, it is helpful for the parties to be easily distinguishable[33]. Interpersonal polarization has, 54 most commonly, been characterized as *affective polarization*[1], which is typically restricted to 55 56 measures of warmth on a feeling thermometer. Other terms such as partyism[34] (hostility and

aversion to a political party), *social polarization*[32] (bias, anger, and activism), and *political intolerance*[35], (unwillingness to let political opponents express their views), have been used
less frequently but often address similar constructs.

Recently, the term *political sectarianism*[13] has been introduced. This term refers to "the tendency to adopt a moralized identification with one political group and against another," and it encompasses three parts: othering (viewing people on the other side as fundamentally different from one's own group), aversion (disliking and distrusting outgroup members), and moralization (viewing outgroup members as immoral).

65 While we believe political sectarianism captures much of the interpersonal polarization landscape, given its recency and specificity, the empirical studies we review have not used the 66 construct as a variable of interest. For that reason and given the diversity of measures researchers 67 *have* used in this space, we opted for what we see as a broader term: *partisan animosity*. We 68 define partisan animosity as negative thoughts, feelings, or behaviors towards a political 69 70 outgroup. This term is meant to be all-encompassing, so we can bring together under one umbrella a variety of studies that have focused on affective polarization, partyism, social 71 polarization, political intolerance, and political sectarianism, even if the study authors did not use 72 73 these specific terms.

Finally, the various types of polarization we discussed can occur at two levels: either between/towards people in the general public, or between/towards members of political parties and political elites, with the latter sometimes being referred to as *elite polarization*[36]. Whether participants are aware of the level of polarization they are asked about is a matter of ongoing concern[37]. For our purposes, we are primarily interested in the former—partisan animosity among and toward the public.

80

Why Reduce Partisan Animosity?

We believe that partisan animosity—harboring and acting upon negative feelings toward a group of people merely based on their party identity —is, itself, undesirable. But partisan animosity is not only inherently negative; it also leads to bad outcomes for individuals and society.

85 First, partisan animosity may contribute to the erosion of democracy. Partisan animosity is associated with anti-democratic attitudes [9,38] and support for partisan violence [10], although 86 causality is a matter of contention amongst polarization scholars[9,39-41]. Specifically, 87 88 animosity may drive partisans to disregard constitutional protections (such as separation of powers, checks and balances, and rejection of authoritarian tendencies) when their side is in 89 power, and support these protections when the opposition rises to power[9]. Further, 90 misperceptions about the other side, which are correlated with partisan animosity, weaken 91 commitment to democratic principles [42]. Similarly, partisan animosity may lead people to 92 reject policies they would have otherwise supported, simply because they originate from the 93 outgroup[43]. 94

In addition to its impact on democratic process, partisan animosity could contribute 95 96 towards prejudice and discrimination against marginalized groups. Because partisan identity is now strongly tied to demographics such as race, gender, and age[44,45], discriminating on the 97 basis of ideology[46–48] also impacts other identity characteristics[49,50]. Thus, another reason 98 99 to mitigate partisan animosity is because it leads to reduced demographic diversity. For example, if Republicans exclude Democrats from right-leaning spaces and jobs, they may be excluding 100 101 people of color, women, and younger people. This can perpetuate systemic inequalities in 102 society.

In people's daily lives and in their personal relationships, partisan animosity can lead to heated arguments and loss of trust, respect, and social connection. Family holiday dinners have decreased in duration, which some scholars attribute to political tensions[51]. Perhaps more troubling, people are opting for politically homogenous friendships[52] because associating with political outgroup members is too unpleasant. This can undercut critical social support systems and amplify real world echo chambers where people become increasingly isolated or segregated from others[53].

Some argue that the emphasis on reducing partisan animosity is misplaced[54], or even that reducing animosity would inhibit positive social change, since outgroup animosity may duly serve as a motivator for activism[32]. However, activism in a polarized context is likely to be met with limited legislative success, given the state of gridlock fostered by distrust of political opponents[38]. Further, it is possible to vehemently disagree about policy, while still respecting outgroup members' dignity, so the reduction of partisan animosity need not be paired with a reduction in activism.

117 Taken together, these reasons present a strong case for the importance of improving cross118 partisan relations.

119

What Causes Partisan Animosity?

Political and psychological scientists have outlined several theoretical frameworks to synthesize the causes of partisan animosity, with proposed causes ranging from individual's thoughts to the institutions that organize our society.

At the level of thoughts, partisans hold inaccurate beliefs about their political opponents[14,42,55]. They fail to understand the composition and beliefs of the other side[14,56] and overestimate the extent to which their opponents dehumanize them[42]. Moreover,

126	animosity is rooted in stereotypes that emerge from a feeling that the other side is more	
127	threatening than the data suggests[41,57]. Partisans also exhibit cognitive rigidity, making them	
128	less receptive to evidence that counters partisan narratives[58,59].	
129	At the level of relationships, one commonly discussed cause of animosity and	
130	polarization is ideological sorting-i.e., that Democrats are now mostly liberal and Republicans	
131	mostly conservative[32]. Relatedly, people's partisan identities have begun to fuse with other	
132	identities such as ideology, race, religion, gender, sexuality, geography, and so on[1,13,60].	
133	These "mega-identities" lead to stronger ingroup-outgroup dynamics and animosity toward	
134	outgroup members[60].	
135	At the level of institutions, the structures of public institutions (e.g., government[1] and	
136	social and mass media[61-65]) may amplify stereotypes, making each side seem like a caricature	
137	of itself by incentivizing provocative and outrageous rhetoric. These institutions are the	
138	platforms for public dialogue, and norms tilt towards hostility.	
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to the context of partisan animosity, and mirroring some of the causes outlined above, the 150 interventions cluster around three broad levels: thoughts, relationships, and institutions. To be 151 sure, these categories are conceptual and non-modular as some interventions may carry spillover 152 effects for multiple levels. For example, interventions that treat an individual partisan's beliefs 153 may bring partisans into contact with one another, and changes to interpersonal relationships 154 155 may shape norms in institutions and vice versa. Nevertheless, by categorizing the interventions in this way, we may gain clarity about how to properly scale and implement a given intervention 156 for reducing partisan animosity (a concept we return to in the section: From Science to Lasting 157 158 Change).

Interventions targeting thoughts, beliefs, and attitudes correct misconceptions about the 159 outgroup and highlight commonalities between ingroups and outgroups. At the next level, 160 relationship interventions focus on the way individuals interact with their political opponents in 161 their personal lives. Partisans tend to either refrain from interacting with people on the other 162 side[72], or do so in deleterious ways[73]. Relationship interventions build skills for interacting 163 positively with outgroup members, and bring people together for productive, meaningful contact. 164 Finally, institutional interventions focus on changing the institutions that shape our society, from 165 166 media to political structures. Interventions at the institutional level target the culture within which partisans are embedded, aiming to instill more positive norms and transform incentives 167 168 surrounding (in)civility.

In each section, we briefly discuss the evidence for animosity as it relates to the level at hand before introducing the various interventions researchers have tested. We also highlight realworld interventions led by practitioners in nonprofit organizations. See Figure 1 for a visual representation of these themes. In the discussion below, we have focused on some of the most

promising interventions in each level. See Box 1 for a discussion of interventions that havebackfired (i.e., increased partisan animosity).

175 Intervening on Thoughts

Partisan animosity is partially the thoughts partisans have: some people hold very negative beliefs and feelings about the opposing party. These interventions focus primarily on correcting misconceptions about outgroups and highlighting group commonalities to address the particular misconception that partisans are very different from one another.

180 Correcting Misconceptions

Political groups develop warped perceptions about each other, incorrectly thinking their opponents possess especially extreme political views (false polarization)[56,74–76], and lack key human traits (dehumanization)[77,78]. Partisans also overestimate how negatively they would feel if they interacted with their opponents[79], and have exaggerated perceptions of how much their opponents dislike and dehumanize them (inaccurate meta-perceptions)[42,80]. These misconceptions may stem from several sources, such as through the influence of political elites, mass media, and social media[81].

Correcting misconceptions is challenging in many areas (e.g., debunking online 188 189 misinformation and conspiracy theories[82]), but some interventions appear to be effective. Researchers have reduced negative partisan attitudes [19,24,40] and support for partisan 190 191 violence[57] by reducing misperceptions about the prevalence of negative partisan attitudes and 192 support for partisan violence, respectively. Further, Republicans and Democrats overestimate the extent to which the other side dehumanizes them by 50-300%, and presenting corrective 193 194 information can reduce rates of animosity[42]. Animosity can also be reduced by correcting 195 misperceptions about who is in the outgroup (e.g., only 6% of Democrats are LGBT, not 32%,

and only 2% of Republicans earn over \$250K annually, not 38%)[14], correcting misconceptions
about how humble the other side is[83], and employing metacognitive training to correct
stereotypes[22]. Exposure to opponents' thoughtful arguments and personal experiences can also
help transform people's perceptions of how thoughtful or dogmatic the other side
is[18,26,84,85]. Some media organizations (e.g. AllSidesⁱ) attempt to correct misconceptions
about the other side by exposing partisans to thoughtful representations of alternative political
worldviews.

Though our focus is specifically on interventions to reduce partisan animosity, we also 203 note that the strategy of correcting misconceptions has successfully changed other political 204 outcomes, such as reducing ideological commitment[25,56,86, cf. ,87]. Recently, scholars have 205 taken a special interest in anti-democratic attitudes[9]. Falsely believing that an opponent is not 206 committed to democratic principles is associated with one's own decreased commitment to said 207 principles[41]. However, to our knowledge, the only study that reduced misperceptions of 208 209 outgroup members' negative attitudes had no effect on anti-democratic attitudes[40]. More work in this area is urgently needed given the rise in significant threats to democracy in the US and 210 abroad[10,88,89]. 211

Correcting misconceptions is a key step in decreasing animosity and can be done relatively simply by presenting more accurate information. One particular misconception is the idea that political opponents are essentially different[90], which we turn to next.

215 Highlighting Commonalities

In recent years, partisan identities have become more salient; for example, many dating app users are now more likely to signal their partisan identity to potential matches[91,92]. When the little information that is available about a person relates to partisan identities[93], it can be

219	challenging to discover common ground. Despite recent evidence to the contrary[94], partisans		
220	are seen as living increasingly different lives[95]. People tend to see outgroup members as being		
221	fundamentally different, whether in their moral beliefs or even their pet preferences[96]. But		
222	while some partisan differences in demographics and behaviors do exist[32], partisans have		
223	much in common. For example, among Americans in the general public, there is bipartisan		
224	support for several key issues, such as bolstering social security, raising taxes on capital gains		
225	and dividends, deterring illegal immigration, and more[97]. As with other intergroup conflicts,		
226	finding common ground may be a path toward bridging divides[98].		
227	Interventions that focus on commonalities either highlight partisans' shared		
228	characteristics or reduce the salience of partisan identities. Some researchers use the common		
229	ingroup identity model[99,100] as a theoretical basis for emphasizing the American identity that		
230	Republicans and Democrats share. While these interventions often reduce negative attitudes in		
231	the moment[20,101–103], they may lack durability because people infrequently spontaneously		
232	consider broad identities like being American. Conversely, highlighting more community-based		
233	identities, like shared sports fandom[102], religious ties[104], or community arts[105] may be		
234	more successful in the long term[106], given their salience in daily life.		
235	Other scientists have reduced the salience of partisan identity without directly invoking a		
236	common ingroup. For example, partisans who engage with political campaign strategy news feel		
237	more positively toward the other side[30]. Political strategy news hides the differences between		
238	the parties as both parties engage in similar political strategy. Similarly, when partisans learn		

239 information about outgroup members that is unrelated to politics, their partisan animosity

240 lessens[93,107,108].

One large-scale initiative seeking to increase perceived similarity across the aisle is Public Agenda's "Hidden Common Ground" initiativeⁱⁱⁱ, which helps Americans recognize the commonalities they share through research, journalism, and public engagement. Recognizing some commonality between partisans may be helpful for fostering cross-cutting relationships.

245 Intervening on Relationships

246 In addition to improving people's thoughts and feelings toward outgroup members, it is important to improve the interactions between partisans. A great deal of research supports the 247 need for four conditions to be met in order for contact to most thoroughly reduce negative 248 outgroup feelings: 1) equal group status within the contact situation; 2) common goals; 3) 249 intergroup cooperation; and 4) the support of authorities, law, or custom[109-111]. A fifth 250 condition, having the potential for friendship with an outgroup member, has also yielded 251 positive results[112]. Synthesizing some of the classic work on contact theory with recent 252 insights from depolarization interventions, we propose two additional conditions that may lead to 253 greater success in the political context. In addition to the four conditions outlined above, it also 254 may be beneficial to 5) include training in dialogue skills[18,113–115], and 6) structure contact 255 interventions to highlight commonalities[29]. 256

257 Building Dialogue Skills

Most people fear talking about politics, especially with out-partisans[116–118], so they either avoid these conversations or have them online, where they can caricature and mock those on the other side[119,120]. Political moderates and those who are less polarized (the "exhausted majority")[121] are most likely to opt out of uncomfortable political conversations. This leaves only the most aggressive and least representative people to debate each other—e.g., "committed conservatives" versus "progressive activists"—creating the perception that people are more polarized than they are (called "false polarization"). It is important for less polarized people to
have discussions to minimize social proof of animosity, but they often lack the skills, interest,
and confidence to have constructive dialogue across divides[62].

Unfortunately, not many interventions focus on preparing participants for dialogue, and 267 some of the ones that do fail to measure direct effects on partisan animosity. Dialogue trainings 268 269 teach participants to intentionally inquire about their opponents' viewpoints[122–124], avoid moralizing language [125], focus on their personal experiences [18,84], use balanced 270 pragmatism[115] and signal receptiveness to opposing views[114]. In at least some of these 271 272 studies, preparing participants for constructive engagement not only made it more productive and enjoyable, but also increased positive perceptions of political opponents [18,84,123]. One useful 273 strategy is to shift intentions away from *persuasion* toward *understanding*[125]. The Listen First 274 Projectⁱⁱⁱ, for example, promotes dialogue skills by helping their affiliates proactively seek to 275 276 understand the other side rather than preach or proselytize to them. Conversational skills are 277 useful for all dialogues, but especially political discussion. By changing how we talk—and listen-we can better respect our opponents' views. 278

279 Fostering Positive Contact

Despite partisans sharing interests in common[94], they are physically isolated from each other in many ways: they frequent different restaurants, work in different careers[95], and are less likely to marry each other[126]. The extent to which geographical sorting (political opponents living in politically homogeneous communities) is occurring is a point of contention amongst political scientists[68–70,72,127–130], but more than half of Republicans and Democrats have "just a few" or "no" close friends who are members of the opposing party, and the absence of cross-party friendships is correlated with hatred for the outgroup[29]. Contact

theory[109] suggests that providing individuals with opportunities to interact with members of opposing groups may remedy negative animus. Indeed, there is a rich body of literature in social psychology detailing the positive effects that contact has for intergroup relations across barriers related to race[131], ethnicity[132], religion[133], and sexual orientation[134].

Researchers have drawn from these insights to create positive and meaningful contact between political opponents, most often through civil conversations, either about political issues or just getting to know each other. Examples include internet forums, workshops, book clubs, and more^{i-ix}. Simple contact between partisans can reduce partisan animosity[23,29,110], however, not all forms of contact are equally conducive to reducing animosity, and some forms of contact may even exacerbate animosity[15] (see Box 1 for backfire effects).

Positive intergroup contact can help partisans realize that political divide is narrower than
they believe—generating more accurate beliefs[29]. The organization Braver Angels^v does this
by hosting discussions between "blues" and "reds". The discussions focus on policy issues, but
also encourage specific forms of dialogue between partisans while highlighting the things they
share in common, such as their agreement on many key policy issues[97]. Their work reduces
animosity and even increases monetary support for depolarization initiatives[113].

303 Intervening on Institutions

The broadest level of intervention for reducing partisan animosity is institutional. Current structures and norms of social discourse and government prompt partisan animosity and need to be transformed. Impactful interventions at this level are difficult to implement effectively given their scalability (see the section below on Scalability). Contrary to the previous sections, in which there are numerous studies demonstrating the efficacy of the interventions, the evidence supporting institutional interventions is much sparser. Nonetheless, we discuss the broad kinds ofinterventions that could possibly yield positive outcomes.

311 Changing Public Discourse

We consider both social and mass media as primary components of public discourse and touch on the roles that members of the public, political pundits, and elected officials play in shaping public discourse. Public political discourse may play a role in either increasing or reducing partisan animosity, in part because public communication shapes social norms[80,137] about appropriate ways to communicate across divides.

317 In the current political climate, many norms surrounding public discourse about politics tend towards hostility and animosity [80,138]. On social media, where signaling outgroup dislike 318 increases engagement, users are incentivized to increase antagonism, facilitate the spread of 319 misinformation, and stoke both tribalism and moral outrage [120,139–144]. Although some 320 emerging evidence questions the causal relationship between the media and political 321 322 animosity[66,145], interventions could nonetheless improve the design of social media to create a depolarizing experience for users. Political elites (e.g., politicians and media figures) bear some 323 blame for hostile public discourse, in part because their aggressive and dehumanizing behavior 324 325 serves as a model for others[9,146,147].

Changing public discourse requires reshaping social norms and incentives around polarizing rhetoric. Politicians can model warmth toward one another despite policy differences[16], such as the friendship between Justices Ginsberg and Scalia. Social media platforms could nudge billions of users to be kinder towards the outgroup. This could be accomplished by slowing down people's ability to reply in anger and highlighting less polarizing content with their news algorithms[62]. However, these solutions would likely result in reduced

engagement[120], so there is little incentive for the platforms to implement such measures.
Indeed, leaked documents from Facebook provide evidence that the social media company
weights "angry" reactions five times as heavily as "likes" in deciding what content to display to
users[143]. Users could simply deactivate social media[cf. 145,148], but tech isolationism is
difficult in an interconnected world[62]. Alternatively, fine-tuning social media platforms to
promote content that receives bipartisan support may incentivize good-faith cross-partisan
engagement[62].

339 Mass media can provide powerful social proof to reduce partisan animosity^{x-}

^{xii}[80,149,150] by balancing politically extreme pundits with a more diverse and representative

set of perspectives, emphasizing people's increasing desire to reduce animosity[151,152],

342 highlighting that most Americans are not even interested in politics, let alone

polarized[93,121,153], correcting people's misinformation and exaggerations about the other

side[19,24,56,154], and encouraging norms of open mindedness[155]. Unfortunately, media

outlets are also incentivized against these measures: they themselves are often strongly polarized,

and polarization helps to draw viewers [149]. However, bipartisan and nonpartisan news

347 aggregators^{i,x,xi} offer a promising respite by presenting reasonable positions from across the

348 political spectrum.

Changing public discourse is one step toward creating a less polarized environment but its lasting success requires that we transform the political structures that incentivize partisan animosity.

352 Transforming Political Structures

To enact lasting change, many have argued that our political system (in the U.S.) needs to change[156,157]. FairVote^{xiii} is an organization doing important work to advocate for structural

change that could reduce hyper-partisanship, for example, by advancing ranked-choice voting.
Advancing democratic rights, reducing gerrymandering, and campaign finance reform are other
structural changes could potentially reduce animosity[157]. Although these structural changes
are beyond the scope of this review, we highlight how some of these proposed changes could
impact partisan animosity in Box 2.

360

Connecting the Levels: Motivate and Mobilize

The three intervention levels—reducing animosity at the levels of thoughts, relationships, 361 and institutions—have largely each been studied in isolation. Changing basic cognitions requires 362 363 different knowledge and tools a than lobbying for large-scale political change, but reducing partisan animosity requires an integrated approach that connects all three levels. It is not enough 364 to just have more accurate perceptions of the other side, or to have a few positive interactions 365 with outgroup members. To implement lasting change, once partisans alter the way they think 366 about their opponents, practitioners must *motivate* them to form relationships with outgroup 367 368 members. And once they have adopted more civil attitudes, partisans need to be *mobilized* to advocate for institutional change (See Figure 1). 369

370 Motivate

Thought-level interventions focus on changing partisan mindsets including correcting negative beliefs about opponents[77,78] and the scale of animosity[42,80]. However, there is a difference between *liking* and *wanting*[158]: feeling more favorably towards a cross-partisan does not automatically translate into enthusiasm about interacting with them. To our knowledge, no research has explored how to motivate civil cross-partisan engagement, but it likely requires more than simply correcting misconceptions and highlighting commonalities. Motivation for

behavior change may be increased by focusing on potential benefits[159], in this case rewardingcross-partisan interactions.

While social proof[160] can accelerate animosity (a concept we elaborate on in Box 3), it 379 can also motivate people to reduce animosity. People do not want miss out on social trends 380 targeted at improving the common good, as the "ice bucket challenge" for ALS research 381 382 demonstrates[161]. Perhaps there is an opportunity to create a "reducing animosity" challenge. Further, scientists and practitioners could help create positive social proof by changing the way 383 they talk about their depolarization work[80]. First, they could emphasize shifting norms: more 384 and more people are committed to reducing animosity[151]. False polarization could be another 385 point of emphasis. While a minority of Americans are very affectively polarized, most are not as 386 polarized as many assume, nor strongly interested in politics [93,121]. If the media were to 387 emphasize this lack of polarization (as some have [153]), people may be motivated to conform to 388 this descriptive norm of low partisan animosity. 389

390 Mobilize

Researchers and practitioners can reduce animosity by changing individual mindsets, 391 motivating people to engage with opponents, and providing opportunities for positive contact. 392 393 People can commit to long-term personal change by implementing commitment devices [162,163] and can translate that commitment into action by using if-then plans that 394 395 specify how to respond to opportunities (e.g., to listen while the opponent is speaking) or 396 obstacles (e.g., staying calm when opponents disparage one's opinions). However, large-scale impact requires connecting positive interpersonal experiences to broad institutional change. To 397 398 do so, people need to commit to influencing their social circles and advocating for systemic 399 change. Some organizations, such as Braver Angels^v, have infrastructure set up for expanding

their reach, for example by recruiting volunteers to be ambassadors, organizers, and event
moderators. We encourage researchers to evaluate similar approaches.

Some mobilization efforts identify easy, simple tasks that many people are willing to do, but while these efforts could scale widely, they may not lead to durable change, especially when they scale only within certain social groups. A comprehensively effective mobilization movement would also develop a base of people committed to sustained, effortful action. This could be achieved by giving people responsibility for key outcomes and enmeshing them in an ever-growing network of meaningful relationships with outgroup members[164,165].

408

From Science to Lasting Change

We note that partisan animosity is a specific example of a broader phenomenon: 409 intergroup prejudice[109]. A recent review of 418 prejudice reduction experiments, including 410 extended and imaginary contact, cognitive and emotional training, social categorization, etc., 411 found that few studies demonstrated strong evidence of success [166] (political prejudice was 412 413 excluded from the review). We suspect that some of the same issues those authors raised (e.g., publication bias, small sample sizes, short-term outcomes) may apply to the studies we discussed 414 as well. Many interventions show promise in controlled, small-scale studies, but the most 415 416 successful interventions need to be effective (have reliable, large effects), durable (have longlasting effects), broad (influence partisans across the political spectrum), and scalable (be 417 418 practically applicable in real-world settings). We describe the science behind two of these 419 elements-durability and scalability-below.

420 **Durability**

Durable interventions are long-lasting, continuing to impact behavior even in the chaotic
environment of everyday life. One potential predictor of durability is depth of engagement. Just

as memorizing new information is helped by experiential learning and personal relevance [167] 423 reductions in animosity may be more durable when they are relatively "deeper." For example, 424 just reading about one's own misconceptions[14,19,24,56] may help in the short-term, but may 425 soon creep back in after being re-immersed in partisan media coverage. Conversely, 426 interventions that involve repeated personal (and positive) connections with political opponents 427 428 are likely more durable. For example, hosting standing dinner parties with outgroup members[168] or joining a longstanding religious group with diverse political viewpoints[169] 429 430 are likely both relatively durable interventions.

Additionally, other work on "wise interventions" [170] shows that lasting treatments act 431 upon desires concordant with human nature like subjective meaning-making. For interventions to 432 be more durable, they should satisfy the three motives that guide meaning making: accuracy, 433 self-integrity, and belongingness. Interventions that guide partisans to arrive at accurate beliefs 434 about their opponents, enhance partisans' self-integrity, and instill ingroup norms of kindness 435 436 and civility may sustainably reduce partisan animosity. Importantly, interventions should not tell participants what to think, rather they should encourage internal reflection so that the change will 437 be a result of internal meaning making as opposed to controlling[171]. 438

439 Scalability

Scalable interventions are able to reach many people while remaining efficacious[172], and can involve tweaks to existing large-scale platforms[15]. For example, Twitter has a highly scalable intervention that asks its millions of users if they would actually like to read an article before sharing[173]. Another example of scalable interventions is "cellular organizations," where each chapter (or "cell") is independently organized and quasi-independent yet supported by the broader organizational infrastructure. Cellular organizations include fast-food franchises,

sororities, and Alcoholics Anonymous chapters. Bridge USA^{vi} is an example of a cellular

447 organization, because it can be initiated by any group of motivated students at any college.

448 **Durability vs. Scalability**

Highly durable interventions may be more difficult to scale, and scalable interventions 449 may not be durable. Small social media tweaks may not foster good will between partisans in 450 451 heated offline encounters, and transformative personal relationships with cross-partisans may be hard to duplicate across the country—especially without substantial resources. Researchers have 452 tried to create low-cost scalable interventions through vicarious or imagined contact between 453 454 partisans but their efficacy is unclear [28,29,174]. Positive, semi-structured cross-partisan "inperson" discussions over online platforms (e.g., Zoom) may allow greater scalability while 455 providing adequate durability^{xiv}. 456

457 Bridging Research and Practice

Relevant to the tension between durability and scalability, there is a tension between 458 459 research and practice [175]. Although many scientists and practitioners are committed to understanding partisan animosity, scientists develop novel and theoretically driven interventions 460 that target social or cognitive processes but are typically less interested in scalability or durability 461 462 in the real world. In contrast, practitioners are interested in creating powerful examples of realworld depolarization that typically prioritize either durability (deploying within a community to 463 464 stop cycles of violence) or scalability (developing a television program with national reach), but 465 are typically less interested in novelty or measuring the exact process of change.

Given the complementary interests of scientists and practitioners, partnerships might be helpful for developing effective interventions. Scientists can help evaluate real-world interventions and identify the "active ingredient" whereas practitioners can tell scientists what

469 actually works "on the ground" with diverse samples and speak to an intervention's potential for 470 durability and scalability. Challenges to collaboration include different jargon, assumptions, and 471 incentives, but overcoming these challenges is essential to developing and testing strategies that 472 will produce lasting change. Programs like the Strengthening Democracy Challenge^{xv}, which 473 invites researchers and practitioners from all areas and industries to submit interventions for 474 strengthening democracy and reducing partisan animosity, are a step in the right direction.

475

Concluding Remarks and Future Perspectives

476 In the quest to develop more effective interventions for reducing partisan animosity, we
477 highlight four considerations for future research: variation, replicability, scope, and

interdisciplinarity. See also the Outstanding Questions in Table 1 for future directions tied to thespecific intervention themes.

480 Variation: Tuning Interventions to Audiences, Issues, and Contexts

As no single intervention strategy is likely to reduce polarization for every audience and 481 482 every issue, an overarching goal for researchers will be to determine what works, for which outcomes, for whom, and under what circumstances [175,176]. Interventions (what works) 483 combine content (the strategy employed) and methods of delivery. Features of intervention 484 485 delivery include the setting (e.g., home, community center, workplace), mode (e.g., face-to-face, online), format (e.g., workbooks, discussion groups), source (e.g., researcher, community 486 487 leader), and intensity (e.g., total contact time, number of sessions). Different combinations of 488 content and methods of delivery may be suited to the outcomes we have discussed (correcting misperceptions, highlighting commonalities, building dialogue skills, and fostering positive 489 490 contact). For instance, a one-shot, online computerized task could correct key misperceptions

491 whereas building dialogue skills might require face-to-face sessions from an expert source over492 an extended period.

493 Features of the audience (whom) that warrant consideration include individual differences in cognitive rigidity[59], moral conviction[177], and curiosity[178], among many others. 494 Democrats and Republicans may also differ in their response to interventions due to dispositional 495 496 and normative differences between parties [15–17,136]. The effectiveness of interventions may also vary between issues and contexts (circumstances). Social issues elicit stronger emotional 497 reactions and are more tied to core religious or moral convictions and group identities than 498 499 economic issues and are thus liable to lead to more contentious debates [179]. Features of the context such as the point in the electoral cycle[180] or even outdoor temperature[181] could also 500 influence the intensity of initial partisanship and, in turn, the impact of an intervention. 501

Variation in the effectiveness of interventions arising from differences in content, method 502 of delivery, audience, outcome, and circumstances could seem daunting. However, heterogeneity 503 504 of intervention effects is the norm rather than the exception in behavioral trials [176]. Researchers will need to recognize, from the outset, that many interventions inevitably will fail. By 505 construing variability in effectiveness, not as a limitation of the research, but rather as a route to 506 507 specifying the parameters that govern when an intervention does not work, researchers can begin to develop a database that can answer the practical question that readily occurs to observers: Will 508 509 this intervention work for this issue, this sample, and this context?

510 Replicability and Generalization

Concerns of replicability and generalization should be a priority for researchers,
especially as they work with practitioners to implement their interventions. Some promising
interventions have failed to replicate[87,103]. In one study, the authors found that asking people

to explain complex policies reduced dogmatism[86]. In another, proximity to the 4th of July was 514 associated with less animosity[20]. Potential reasons for the failed replications range from small 515 samples, lack of preregistration, participant exclusion procedures, etc. Additionally, sometimes 516 interventions may fail to replicate because of the ever-changing political landscape, something 517 that could be examined through longitudinal studies. Testing interventions beyond the U.S.[24] 518 519 may be useful in demonstrating the generalizability of findings. Further, relating to the point above, these failed replications may be alternatively construed as indications of the contexts in 520 521 which the interventions are and are not effective.

522 Interdisciplinary Collaboration

523 So far, the research space on interventions to reduce animosity has been confined to 524 research silos in social and personality psychology, political science, sociology, and 525 communication. In addition to collaborating with organizations on-the-ground (discussed above), 526 researchers could likely draw insights from other academic disciplines that focus on intervention 527 research. For example, researchers in public health, behavioral economics, and education have 528 experience and expertise relevant to changing behavior and norms[182].

529 Conclusion

Partisan animosity is a growing concern in the U.S., prompting scientists and practitioners to examine its roots and potential solutions. We have attempted to synthesize this rich and quickly growing body of work and acknowledge that there may be other ways to structure this knowledge. Nevertheless, we hope that this review helps to make sense of the variety of interventions and prompts future research in the field. Partisan animosity is powerful, but so is the potential for interdisciplinary work between scientists and practitioners to help overcome it. Sometimes interventions backfire and end up increasing aniomsity[15,17,29,183]. We review three themes of backfiring interventions: *stereotype amplification*, *improper preparation*, and *side effects*.

Stereotype Amplification. In a recent Twitter study, participants followed bots that retweeted prominent out-party members, which the authors thought may reduce polarization by breaking down echo chambers. However, rather than reducing polarization, this intervention did the opposite—participants became more entrenched in their views[15]. One explanation for this finding is that prominent out-party members are stereotypically polarized, which confirms the idea that the other side holds very different values and beliefs. Practitioners should avoid exposing participants to extreme stereotypes of outgroups.

Improper Preparation. For interventions to succeed, participants must be prepared for them. For example, for contact to be effective, participants should first recognize the similarities with their opponents and be confident in their dialogue skills. Otherwise contact can fail or even backfire. One study found that when partisans imagined conversing with a political outgroup member, they became more anxious and less empathic, and ultimately more polarized[29]. This effect may have occurred because partisans lacked the dialogue skills and recognition of commonality necessary for engaging with opponents.

Side Effects. Sometimes interventions may reduce some aspects of polarization while creating other problems. For example, priming common identities is generally successful at reducing polarization, but some common identities can have negative side effects. In one study, priming American identity led to negative attitudes toward immigrants[183]. In another, creating a common identity between Republicans and Democrats about mistrust of a foreign power

actually reduced cooperation between them[17]. More broadly, even if interventions can promote civility, they also may inadvertently delegitimize the views on either side[184].

More Investigation Needed

Research on backfiring is limited with only a few published studies[15,17,29,183], possibly because of misaligned incentives to publish positive findings[185]. However, identifying when and why interventions fail would enable practitioners to re-allocate resources away from unhelpful strategies and toward best practices instead.

539 Box 2: Transforming Political Structures

American political institutions are structured in a way that exacerbates conflict and solidifies gridlock. Political scientists have proposed several changes to these institutions, which, in addition to promoting more efficient governance, may also reduce affective polarization among the electorate. Much of this is speculative and theoretical, as none of these changes have been fully implemented. Importantly, some political scientists are skeptical about their ability to reduce polarization[186–188], so we note them here as food for thought, rather than making definitive claims about the effects of these proposals.

Changes that could reduce polarization:

Multiparty democracy. Having multiple viable parties could encourage cooperation, as interparty coalitions would be a prerequisite for governance. Further, negative campaigning may be a riskier strategy in multiparty systems, because attacking other parties can backfire, damaging not only the party under attack but also the attacking party. If the reputations of both parties are damaged, then, in comparison, a third or fourth party would be more appealing to voters[189].

Open primaries. Open primaries allow independents to vote in primary elections, perhaps lessening the disproportionate sway that more partian voters have in closed primary systems[190].

Top two primaries. This reform would eliminate party primaries and instead would be a primary of all candidates, where the top two candidates, regardless of party, would advance to the general election. Incentives to focus on base turnout could diminish and instead shift campaign goals towards persuadable voters[190].

Proportional representation systems and ranked choice voting. Contrary to "winner take all" systems, proportional representation systems allow parties to gain seats in proportion to the number of votes cast for them. Ranked choice voting enables voters to select multiple candidates, ranking them on an ordinal scale (1st, 2nd, 3rd, etc.). This procedure could make voting for a third or fourth party less futile[191,192].

Gerrymandering reform. Gerrymandering is the process in which legislators design electoral districts in a manner that is favorable to their own party. This tends to create "safe seats" where certain candidates are virtually guaranteed electoral success. Reforming this system could establish more competitive districts where appealing to non-partisans and providing effective governance would be incentivized[193].

Campaign finance reform. This reform would limit the power of individual donors who tend to support ideologically extreme candidates and incentivize more ideologically heterogeneous candidates to run[194].

Ironically, the more that researchers, public figures, and the media lament the rise of political polarization, the more we may be contributing to the problem.

People on the left and right perceive others as more ideologically extreme than they actually are, which in turn affects the extremity of their own views[56]. Further, Americans hold wildly inaccurate stereotypes about the political outgroup (e.g., overestimating the number of LGBT Democrats or rich Republicans)[14]. These misrepresentations are associated with negative attitudes toward the outgroup. Indeed, *perceived*, as opposed to *actual* ideological polarization may be a stronger driver of negative outgroup attitudes[74].

Shifting to misconceptions about partisan animosity, Americans hold exaggerated beliefs about how negatively their political outgroup feels about their ingroup[19]. This bias leads partisans to believe the outgroup is motivated by the intent to purposefully obstruct various politically relevant scenarios. These findings have been replicated in over 10,000 participants across 26 countries[24].

Why do we observe this process of self-fulfilling polarization? One reason may be that media discussion about extreme polarization communicates descriptive norms to which people tend to conform[80,160]. In other words, hearing about a divided country causes people to believe that is the case, and then follow suit.

Researchers and practitioners studying polarization should be aware of the potential harm they may cause by enhancing perceptions of polarization and identify measures to mitigate these. See the section on highlighting commonalities for more details.

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550	

551

Resources

- 552 i. <u>https://www.allsides.com</u>
- 553 ii. https://www.publicagenda.org/programs-reports/the-hidden-common-ground-initiative/
- 554 iii. https://www.listenfirstproject.org/
- 555 iv. https://americatalks.us/
- 556 v. <u>https://braverangels.org/</u>
- 557 vi. <u>https://www.bridgeusa.org/</u>
- 558 vii. <u>https://livingroomconversations.org/</u>
- 559 viii. <u>https://narrative4.com/</u>
- 560 ix. <u>https://openmindplatform.org/</u>
- 561 x. <u>https://www.theflipside.io/</u>
- 562 xi. <u>https://ground.news/</u>
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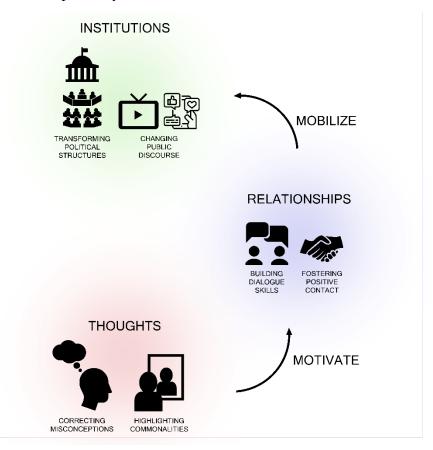
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977 Figure 1: Six Themes of Interventions for Reducing Partisan Animosity

- 978 Interventions range from Thoughts (correcting misperceptions, highlighting commonalities) to
- 979 Relationships (building dialogue skills, fostering positive contact) to Institutions (changing
- 980 public discourse and transforming political structures). To transcend between the levels, people
- 981 need to be motivated and mobilized, respectively.



	Intervention Theme	Outstanding Questions
Thoughts	Correcting Misconceptions Improving partisans' knowledge and understanding of their outgroup's attitudes, beliefs, behaviors, and composition	 What else besides motives and group composition do people have misconceptions about? Do these corrections carry more weight coming from an ingroup member, outgroup member, or a neutral observer? What are the effects of correcting misconceptions about ideological extremity on partisan animosity?
	Highlighting Commonalities Reframing partisan identity to encompass the outgroup	 Are there other common ingroup identities that might yield better results? How can common identities be incorporated into daily life? Can certain identities be de-politicized by emphasizing common attributes?
ships	Building Dialogue Skills Teaching partisans to communicate effectively across political divides	 What other dialogue skills are there to reduce partisan animosity in intergroup contact? Are dialogue skills easier to implement in person or behind a screen?
Relationships	Fostering Positive Contact Creating opportunities for partisans to engage with one another	 In what context does getting people out of their bubbles work and in what context does it not work (online vs. in person)? How can we create scalable contact interventions on the internet without it backfiring?
Institutions	Changing Public Discourse Addressing cultural and institutional factors that create hostile and polarizing environments	 How can interventions best compete against attention-grabbing narratives that polarize? How can researchers address partisan animosity without fostering exaggerated perceptions of ideological polarization?

984 Table 1: Outstanding Questions