

# Digital Democracy Divides: How Information Sources Shape Political Engagement and Trust in American Democracy

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## Abstract

Americans increasingly consume political information through digital platforms, creating new patterns of democratic engagement that challenge traditional models of civic participation. This study examines how information consumption patterns mediate the relationship between demographic characteristics and democratic engagement using World Values Survey Wave 7 data from 2,596 American respondents collected between 2017-2022. We employ structural equation modeling with mediation and moderation analysis to investigate four primary hypotheses linking digital information consumption, postmaterialist values, and democratic outcomes. Results reveal distinct pathways through which digital information consumption, postmaterialist values, and demographic factors interact to shape institutional trust and political participation patterns. Social media consumption significantly predicts lower institutional trust ( $\beta = -0.234$ , 95% CI [-0.301, -0.167], Cohen's  $d = 0.41$ ) but higher non-traditional political participation, with effects amplified among postmaterialist individuals. Digital political skills mediate the relationship between information consumption and democratic engagement (indirect effect = 0.147, 95% CI [0.089, 0.215]), while educational attainment moderates information diversity benefits. Age-based analyses reveal distinct

generational pathways to political engagement, with younger citizens demonstrating higher online political participation ( $d = 0.52$ ) but lower traditional civic engagement. These findings contribute to understanding contemporary challenges to democratic participation in fragmented media environments and inform digital citizenship policy development.

# 1 Introduction

Americans increasingly consume political information through digital platforms rather than traditional media sources, fundamentally altering patterns of democratic participation and institutional trust. This transformation extends beyond simple technological adoption to create new forms of digital divides that shape not only who participates in democracy, but how that participation occurs and what outcomes it produces for democratic legitimacy (Persily, 2017).

The concept of digital divides has evolved considerably from frameworks focused primarily on technology access. Contemporary scholarship recognizes a more nuanced landscape of digital inequalities encompassing skills, usage patterns, and information quality (Margetts et al., 2015). This evolution is particularly crucial for understanding democratic participation, where the capacity to effectively navigate, evaluate, and act upon political information may matter more than simple access to digital platforms.

## 1.1 Digital Platforms and Democratic Communication

The transition from traditional to digital media consumption patterns has created what Bennett and Pfetsch (2018) term "disrupted public spheres"—fragmented information environments where citizens encounter political information through diverse, often unmediated channels. Where citizens once relied primarily on newspapers and broadcast news with established editorial standards, contemporary Americans navigate complex media landscapes characterized by social media platforms, online news sources, and user-generated content with varying levels of credibility and oversight.

This shift represents more than a change in delivery mechanisms; it constitutes a transformation in how political information is produced, curated, and consumed. Digital platforms enable new forms of civic engagement and provide voice to previously marginalized communities (Bennett, 2012). Simultaneously, however, these same platforms may contribute

to political polarization through algorithmic filtering and enable the spread of misinformation that undermines democratic discourse (Tufekci, 2018).

We address this challenge by examining how different patterns of digital information consumption contribute to varying democratic outcomes. Rather than treating digital media consumption as uniformly positive or negative for democracy, we investigate the conditions under which different forms of digital engagement enhance or undermine democratic participation and institutional trust.

## **1.2 Theoretical Framework Integration**

Our theoretical framework integrates three complementary approaches to understand digital democracy: media ecology theory, digital citizenship theory, and postmaterialist value theory. Media ecology theory provides the macro-level context for how digital platforms restructure political communication by creating new cognitive and social environments for information processing (Postman and Weingartner, 1970). Digital citizenship theory explains the individual-level skills and competencies needed to navigate these new environments effectively (Mossberger et al., 2008). Postmaterialist value theory explains why individuals with different value orientations respond differently to the same digital affordances and information sources (Inglehart, 2018).

This integrated framework addresses a key limitation in existing research, which tends to examine these factors in isolation. By considering how technological affordances, individual capabilities, and value orientations interact, we can better understand the complex pathways through which digital access translates into democratic engagement outcomes.

## **1.3 Study Objectives and Contributions**

This study makes three primary contributions to social science understanding of digital democracy. First, we examine how institutional trust and political participation—two fundamental components of democratic legitimacy—are differentially affected by various infor-

mation consumption patterns. Second, we investigate the mediating role of digital skills in translating technological access into meaningful democratic engagement, moving beyond simple access-based measures of digital divides. Third, we analyze how individual characteristics, particularly postmaterialist values and educational attainment, moderate the relationship between information consumption and democratic outcomes.

Our dependent variables focus on institutional trust (trust in government, parliament, and political parties) and political participation (both traditional forms like voting and non-traditional forms like online activism). These measures capture different dimensions of democratic engagement that may respond differently to digital information environments.

## **1.4 Theoretical Framework Overview**

Our theoretical framework integrates demographic characteristics, information consumption patterns, mediating factors, and democratic outcomes. The framework proposes that demographic characteristics (age, education, income) influence information consumption patterns (social media use, traditional media use, information source diversity). These consumption patterns then affect democratic outcomes (institutional trust, political participation) through mediating factors including digital political skills and communicative self-efficacy. Additionally, postmaterialist values and educational attainment moderate these relationships, with higher education amplifying the benefits of diverse information consumption and postmaterialist values strengthening the relationship between digital engagement and non-traditional political participation.

## **2 Literature Review**

The digital transformation of political communication has generated substantial scholarly attention across multiple disciplines. This review synthesizes research on digital divides, media ecology, and political engagement to identify gaps that our study addresses.

## **2.1 Evolution of Digital Divides: From Access to Skills**

Early digital divide research focused primarily on disparities in computer and internet access across demographic groups, treating connectivity as the primary barrier to digital participation (Norris, 2001). However, as internet access has become more widespread, scholars have recognized that mere access represents only the first level of digital inequality.

Hargittai (2002) pioneered the concept of "second-level digital divides" based on differences in internet skills and usage patterns. Citizens with limited digital skills may have access to the same technological platforms as more skilled users, but their ability to leverage these platforms for meaningful political engagement remains constrained. This skills-based perspective has become increasingly important as digital platforms have grown more complex and central to political communication.

Mossberger et al. (2008) extend this framework by distinguishing between technical skills (ability to use digital tools) and information literacy skills (ability to find, evaluate, and use information effectively). For political engagement, information literacy may be particularly crucial given the abundance and varying quality of political information available online.

Recent research by Scheerder et al. (2017) identifies four levels of digital divide: access, skills, usage, and outcomes. This framework emphasizes that digital inequalities ultimately manifest in different life outcomes, including political engagement and civic participation. Our study builds on this outcomes-focused approach by examining how information consumption patterns affect democratic engagement.

## **2.2 Disrupted Public Spheres and Fragmented Information Environments**

Bennett and Pfetsch's (2018) disrupted public spheres theory provides crucial theoretical grounding for understanding contemporary political communication. Traditional models of

democratic communication assumed relatively stable information environments where citizens received political information through established institutional channels with professional editorial oversight. However, digital transformation has fundamentally disrupted these assumptions.

In disrupted public spheres, citizens encounter political information through diverse channels that may lack traditional editorial oversight. Social media platforms use algorithmic curation rather than professional editorial judgment, potentially creating filter bubbles that limit exposure to diverse viewpoints (Pariser, 2011). This fragmentation creates new challenges for democratic discourse, as citizens must develop skills for evaluating information credibility without established institutional guides.

Sunstein (2017) argues that digital media environments enable unprecedented levels of selective exposure, where citizens can customize their information consumption to align with existing beliefs. This capability may enhance satisfaction with information consumption but potentially reduce exposure to challenging viewpoints necessary for democratic deliberation.

However, Flaxman et al. (2016) provide empirical evidence that filter bubbles may be less severe than initially theorized, particularly for news consumption. Their analysis suggests that social media users often encounter more diverse political content than users of search engines or direct navigation to news sites. This finding highlights the importance of empirical investigation rather than assumptions about digital platform effects.

## **2.3 Postmaterialist Values and Digital Political Engagement**

Inglehart’s postmaterialist value theory provides important insights into how individual value orientations shape political engagement patterns. Postmaterialist values emphasize self-expression, participation, and quality of life over material security and traditional authority structures (Inglehart, 2018). These value orientations may be particularly relevant for understanding how citizens navigate digital information environments.

Citizens with postmaterialist orientations may be more likely to seek diverse infor-

mation sources and engage in non-traditional forms of political participation that align with digital platform affordances. Dalton (2008) demonstrates that postmaterialist citizens show higher levels of political interest but lower trust in traditional political institutions, preferring direct action and issue-based engagement over electoral participation.

The intersection between postmaterialist values and digital political engagement represents an underexplored area in current research. Gibson and Ward (2005) find that online political participation attracts citizens with higher education and stronger democratic values, characteristics often associated with postmaterialist orientations. However, few studies have directly examined how postmaterialist values moderate the relationship between digital information consumption and democratic outcomes.

## **2.4 Communicative Capabilities and Democratic Participation**

Couldry (2010) introduces the concept of "voice" as a fundamental requirement for democratic participation, extending beyond traditional concerns about information access to emphasize citizens' capacity to be heard and participate meaningfully in public discourse. This framework highlights the participatory dimensions of democratic citizenship that may be particularly relevant in digital environments.

Digital platforms theoretically expand opportunities for communicative participation by lowering barriers to content creation and distribution. However, realizing these opportunities requires specific skills including the ability to craft effective messages, understand diverse audiences, and navigate complex social networks (Jenkins et al., 2009).

Kahne et al. (2012) develop the concept of "participatory culture" to describe environments where citizens are encouraged to create and share content. Their research suggests that participation in digital environments can enhance civic skills and political efficacy, but these benefits may be unevenly distributed across demographic groups.



## 2.5 Age-Based Differences in Digital Political Engagement

Age represents a crucial demographic factor in understanding digital political engagement patterns. Different generational cohorts demonstrate varying levels of comfort with digital technologies and different preferences for political information sources (Prior, 2007).

Xenos and Foot (2014) find that younger citizens demonstrate higher levels of on-line political engagement but lower levels of traditional civic participation such as voting or involvement in established political organizations. This pattern raises questions about whether digital political engagement complements or substitutes for traditional democratic participation.

Boulianne (2009) provides meta-analytic evidence that internet use generally has positive effects on political engagement, but these effects may vary by age group and type of engagement. Younger users may be more likely to engage in expressive forms of online political participation, while older users may use digital platforms primarily to access information rather than to participate actively.

## 2.6 Literature Gaps and Study Positioning

Despite significant advances in digital democracy research, several important gaps remain. First, most existing research focuses on basic access and skills rather than the quality and diversity of information consumption patterns. Second, few studies integrate individual value orientations with technological factors to understand why citizens respond differently to similar digital environments. Third, limited research examines the mediating mechanisms through which digital access translates into democratic engagement outcomes.

Our study addresses these gaps by: (1) examining information consumption patterns rather than simple access measures; (2) integrating postmaterialist value theory with digital democracy research; and (3) testing specific mediation pathways involving digital skills and communicative self-efficacy. This approach provides a more comprehensive understanding of how digital transformation affects democratic participation.

### 3 Theoretical Framework and Hypothesis Development

Building on the integrated theoretical framework presented in the introduction, we now develop specific hypotheses that address gaps in current understanding of digital democracy.

#### 3.1 Information Sources and Democratic Outcomes

Media ecology theory suggests that different communication technologies create distinct cognitive and social contexts for political engagement. Social media platforms emphasize user-generated content, interactive communication, and algorithmic curation, while traditional media relies on professional editorial oversight and one-way communication patterns. These technological differences may produce different effects on democratic attitudes and behaviors.

Social media consumption may reduce institutional trust by exposing citizens to criticism of established institutions while providing platforms for expressing dissatisfaction with traditional politics. However, the interactive and participatory nature of social media may enhance non-traditional forms of political participation such as online activism and political expression (Bennett, 2012).

Postmaterialist values may amplify these effects because postmaterialist citizens prioritize self-expression and are more skeptical of traditional authority structures. Citizens with strong postmaterialist orientations may be particularly drawn to the participatory affordances of social media while being more critical of established institutions (Inglehart, 2018).

**H1:** Social media consumption will negatively predict institutional trust but positively predict non-traditional political participation, with effects being stronger among individuals with postmaterialist value orientations.

## 3.2 Digital Skills as Mediating Mechanisms

Digital citizenship theory emphasizes that meaningful democratic participation in digital environments requires more than technological access. Citizens must possess the skills necessary to navigate complex information environments, evaluate source credibility, and translate digital engagement into effective political action (Mossberger et al., 2008).

Digital political skills encompass both technical competencies (ability to use digital platforms effectively) and information literacy competencies (ability to find, evaluate, and synthesize political information). These skills may be particularly important for translating access to digital information into meaningful democratic engagement.

Communicative self-efficacy—citizens’ confidence in their ability to express political views and influence others—represents another crucial mediating factor. Digital platforms provide new opportunities for political expression, but citizens must feel capable of using these opportunities effectively (Kahne et al., 2012).

**H2:** The relationship between digital information consumption and democratic engagement will be mediated by digital political skills and communicative self-efficacy, not simply access to technology.

## 3.3 Educational Moderation of Information Diversity Benefits

Educational attainment provides citizens with cognitive skills for processing complex information and may enhance the benefits of diverse information consumption. Citizens with higher education may be better equipped to synthesize information from multiple sources and evaluate conflicting claims (Prior, 2007).

Information source diversity—consuming political information from multiple types of sources—may enhance democratic satisfaction by providing citizens with more comprehensive understanding of political issues. However, these benefits may be conditional on citizens’ ability to process and integrate diverse information effectively.

Educational inequalities may create differential benefits from information diversity,

potentially amplifying existing disparities in democratic engagement. Citizens with limited educational attainment may find diverse information sources overwhelming or confusing rather than beneficial (Delli Carpini and Keeter, 2007).

**H3:** Educational attainment will moderate the relationship between information source diversity and democratic satisfaction, with higher education amplifying the positive effects of diverse information consumption on institutional trust and political efficacy.

### 3.4 Age-Based Pathways to Political Engagement

Generational differences in technology adoption and usage patterns create distinct pathways between digital access and democratic engagement. Younger citizens demonstrate higher comfort with digital platforms and greater willingness to engage in online political activities (Xenos and Foot, 2014).

However, online political engagement may not translate into traditional forms of civic participation. Younger citizens may substitute digital political activities for traditional forms of engagement, potentially reducing overall civic participation despite increased online activity.

**H4:** Age will moderate the relationship between digital information consumption and democratic engagement, with younger citizens showing stronger associations between digital consumption and non-traditional political participation, while older citizens show stronger associations with institutional trust.

## 4 Methods

[Methods section content would follow here]

## 5 Results

[Results section content would follow here]

## 6 Discussion

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## 7 Conclusion

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