

# Bridging the Digital Democracy Divide: How Generational Differences in Technology Use and Digital Literacy Shape Political Participation in Contemporary America

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## Abstract

**Background:** The digital divide has evolved from simple access inequalities to complex usage-based disparities that fundamentally shape democratic participation. While internet access has become widespread, generational differences in digital literacy create distinct pathways to political engagement.

**Methods:** This study uses World Values Survey Wave 7 data from the United States (N=2,596) to examine how digital access, skills, and usage patterns differentially predict political participation across three generational cohorts: Millennials/Gen Z (18-29), Generation X (30-49), and Baby Boomers/Silent Generation (50+). We employ structural equation modeling and mediation analysis to test four hypotheses about generational differences in digital political engagement.

**Results:** Younger cohorts demonstrate significantly higher digital political engagement ( $\beta = 0.42$ ,  $p < 0.001$ ) but equivalent traditional political participation compared to older cohorts. Digital skills mediate 34.7% of the relationship between internet access and political participation. Among older adults, digital literacy explains 2.34 times more variance in political engagement than basic access alone ( $R^2 = 0.28$  vs.  $0.12$ ).

**Conclusions:** Digital divides have shifted to usage-based inequalities creating multiple pathways to democratic participation. Promoting inclusive democracy requires targeted digital literacy interventions rather than universal access solutions, with generation-specific approaches recognizing diverse technological integration patterns.

**Keywords:** digital divide, political participation, generational differences, democratic engagement, digital literacy

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# 1 Introduction

The digital revolution has fundamentally transformed political participation in contemporary democracies, creating new opportunities for civic engagement while generating novel forms of inequality. As internet penetration approaches universal levels in developed nations, the digital divide has evolved from simple access-based inequalities to complex usage-based disparities that shape democratic participation Van Dijk (2005). This transformation is particularly pronounced across generational lines, where differences in technology adoption and digital literacy have created distinct pathways through which citizens engage with political processes.

Contemporary digital divide research has moved beyond binary "connected" versus "disconnected" frameworks to examine second-level divides related to usage patterns, skills, and engagement quality (Hargittai, 2002). While significant progress has addressed basic access inequalities, usage-based disparities now represent the primary frontier for understanding digital inequality's democratic implications. Generational differences provide a compelling lens for examining these evolving patterns, as cohorts that came of age with ubiquitous internet access demonstrate fundamentally different political engagement strategies compared to those who adopted digital technologies later in life.

Despite extensive research documenting generational differences in technology adoption, fewer studies systematically examine how these differences translate into political participation outcomes. Most existing research treats digital engagement as unidimensional, failing to capture how different digital skills and usage patterns may differentially predict civic engagement across age cohorts. This study addresses these gaps by examining three fundamental research questions:

**RQ1:** How do generational cohorts differ in their pathways between digital engagement and political participation?

**RQ2:** To what extent do digital skills and usage quality mediate the relationship between internet access and political participation across generations?

**RQ3:** What factors best explain within-cohort variation in digital political engagement, particularly among older adults?

This research contributes new knowledge by providing the first comprehensive analysis of how second-level digital divides shape political participation across clearly defined generational cohorts using nationally representative data. Unlike previous research that focuses primarily on access-based measures, we examine how digital literacy, usage patterns, and engagement quality create differentiated pathways to democratic participation. Our findings have significant implications for understanding democratic equality in digital contexts and developing targeted interventions to promote inclusive civic engagement.

## 2 Literature Review

### 2.1 Evolution of Digital Divide Theory

Digital divide research has undergone substantial theoretical refinement since Norris’s (2001) foundational framework distinguishing global, social, and democratic divides. While early research focused on access-based inequalities, contemporary scholarship emphasizes usage-based disparities that better capture digital inequality’s complexity Van Dijk (2005). Van Dijk’s (2005) influential four-stage model—motivational, material, skills, and usage access—provided a dynamic framework recognizing that meaningful digital engagement extends far beyond basic connectivity.

Recent research has identified critical limitations in traditional digital divide conceptualizations. Hargittai (2002) demonstrated that internet access alone poorly predicts actual usage benefits, while DiMaggio et al. (2004) revealed substantial variation in digital capital—the combination of technical skills, social support, and beneficial usage patterns. These insights fundamentally challenge linear assumptions about technology’s democratizing potential, suggesting that digital tools may reproduce or amplify existing inequalities rather than automatically expanding participation opportunities.

Contemporary digital divide research increasingly emphasizes multidimensional inequality structures that intersect with traditional stratification systems. Robinson et al. (2015) found that digital inequalities closely mirror offline socioeconomic disparities, with education, income, and social capital predicting both digital engagement quality and political participation outcomes. However, generational differences introduce additional complexity, as younger cohorts may possess superior technical skills while lacking the civic engagement foundations that predict sustained political participation.

## 2.2 Generational Differences and Political Participation

Generational approaches to political engagement have gained prominence despite ongoing debates about their theoretical validity. While the "digital natives" framework has been criticized for oversimplifying complex relationships between age and technology use (Helsper and Eynon, 2009), substantial empirical evidence demonstrates meaningful generational differences in both technology adoption and political participation patterns.

Putnam (2000)'s seminal work on declining social capital identified generational replacement as a primary driver of reduced civic engagement, with younger cohorts demonstrating lower levels of traditional political participation despite higher educational attainment. However, subsequent research reveals a more nuanced picture where younger adults engage politically through different channels rather than simply participating less (Dalton, 2008). Bennett and Iyengar (2008) distinguished between "dutiful citizens" (older cohorts engaging through traditional institutions) and "actualizing citizens" (younger cohorts pursuing personalized, issue-based engagement).

Recent scholarship challenges simplistic generational narratives by emphasizing within-cohort variation and the importance of political context. Gibson (2013) found that generational differences in political participation largely disappear when controlling for socioeconomic factors and political interest. Similarly, Boulianne (2019) demonstrated that social media's political engagement effects vary more by individual characteristics than generational

membership, suggesting that digital literacy and usage patterns may be more important than age per se.

The intersection of generational differences with digital political engagement remains theoretically underdeveloped. While younger adults demonstrate higher rates of online political activity, the relationship between digital and offline political engagement varies significantly across cohorts (Vissers and Stolle, 2012). Older adults who engage digitally often demonstrate higher quality political participation, possibly reflecting stronger civic foundations developed through traditional political socialization processes.

## **2.3 Digital Technology and Democratic Participation**

The relationship between digital technology and political participation represents one of the most contested areas in contemporary political science. Early optimistic predictions about technology’s democratizing potential have given way to more nuanced understandings recognizing both facilitative and constraining effects on democratic engagement.

Theoretical frameworks for understanding digital political participation have evolved from simple mobilization versus reinforcement debates to more sophisticated models recognizing multiple pathways and contingent effects. Schlozman, Verba and Brady (2010) identified three primary mechanisms through which digital technologies influence political participation: lowering information costs, reducing coordination barriers, and expanding expressive opportunities. However, these benefits distribute unevenly across populations, with digitally skilled and politically interested individuals capturing disproportionate advantages.

The role of digital literacy in mediating political participation has emerged as crucial for understanding technology’s democratic implications. Mossberger, Tolbert and McNeal (2008) conceptualized digital citizenship as requiring not merely technical skills but also critical information evaluation abilities and strategic communication competencies. Research consistently demonstrates that higher-order digital skills predict more sophisticated political engagement, while basic computer skills show weaker associations with civic participation

(Kahne and Bowyer, 2012).

Social capital theory provides important insights for understanding digital political engagement across generational cohorts. Putnam (2000)’s framework suggests that meaningful political participation requires both bonding social capital (connections within similar groups) and bridging social capital (connections across diverse groups). Digital technologies may facilitate bonding capital formation but struggle to generate bridging capital, particularly among younger users who engage primarily with like-minded others (Sunstein, 2007).

## 2.4 Theoretical Framework and Hypotheses

Building on this literature, we propose a mediated moderation model linking digital access to political participation through digital skills and usage patterns, with generational cohort membership moderating these relationships. This framework integrates insights from digital divide theory, social capital research, and political participation scholarship to generate testable hypotheses about generational differences in digital political engagement.

Our theoretical model posits that while basic internet access represents a necessary condition for digital political engagement, the quality and sophistication of digital usage—mediated by digital literacy and civic motivation—determines actual participation outcomes. These relationships vary systematically across generational cohorts due to differences in technology socialization, civic engagement foundations, and preferred participation channels.

Four specific hypotheses emerge from this framework:

**H1:** Younger cohorts (Millennials/Gen Z) will demonstrate significantly higher levels of digital political engagement but equivalent levels of traditional political participation compared to older cohorts (Generation X, Baby Boomers/Silent Generation).

**H2:** The relationship between internet usage intensity and political participation will be stronger among younger cohorts for digital activities and stronger among older cohorts for traditional activities, reflecting generationally differentiated engagement pathways.

**H3:** Digital skills and usage quality will mediate the relationship between internet access



and political participation more effectively than access alone, with mediation effects strongest among middle-aged cohorts who bridge digital and traditional political worlds.

**H4:** Within the oldest cohort, variation in digital political engagement will be explained more by digital literacy and usage patterns than by basic internet access, reflecting the importance of second-level digital divides among older adults.

## 3 Methods

### 3.1 Data and Sample

This study utilizes data from the World Values Survey (WVS) Wave 7, conducted in the United States between 2017-2020. The WVS employs a nationally representative probability sampling design with stratification by region, urbanization, and demographic characteristics. Our analytical sample includes 2,596 respondents aged 18 and older with valid responses on key variables.

We constructed generational cohorts based on birth year rather than survey age to better capture shared historical experiences with technology adoption:

- **Millennials/Gen Z (born 1981-2002, ages 18-29):** Individuals who experienced widespread internet adoption during adolescence or early adulthood (n=624, 24.0%)
- **Generation X (born 1965-1980, ages 30-49):** Individuals who adopted internet technologies during prime adult years (n=823, 31.7%)
- **Baby Boomers/Silent Generation (born 1946-1964, ages 50+):** Individuals who encountered digital technologies later in life (n=1,149, 44.3%)

All analyses incorporate survey weights to ensure national representativeness. Missing data analysis revealed patterns consistent with missing completely at random (Little’s MCAR test:  $\chi^2=847.3$ ,  $df=832$ ,  $p=0.34$ ), allowing for listwise deletion without bias concerns.

## 3.2 Variable Measurement

### Political Participation Measures:

*Traditional Political Participation* ( $\alpha=0.71$ ): Standardized composite of voting frequency (V228), political party membership (V29), political discussion frequency (V84), and demonstration participation (V85). Items were standardized and averaged to create a 0-1 scale.

*Digital Political Participation* ( $\alpha=0.68$ ): Composite measure including online political information seeking, social media political engagement, digital political expression, and online political discussion frequency. Constructed from WVS items V226, V227, V84, and derived measures of internet political use.

### Digital Engagement Measures:

*Internet Access* (V225): Frequency of internet use ranging from 1 (daily) to 6 (never), reverse-coded for intuitive interpretation.

*Digital Skills Index* ( $\alpha=0.75$ ): Composite measure incorporating computer use confidence, internet navigation skills, and online information evaluation abilities, derived from WVS technology use items V226-V230.

*Digital Usage Quality*: Measure of sophisticated internet use including online news consumption, educational content engagement, and civic information seeking, distinct from entertainment or social uses.

### Control Variables:

Standard demographic controls including education (V248), income (V239), gender (V240), urban/rural residence (V253), and political interest (V95). Additional controls for social capital (organizational membership, V25-V32) and traditional media use (V217-V220) to isolate digital effects.

## 3.3 Analytical Strategy

We employ a multi-step analytical approach to test our hypotheses:

1. **Descriptive Analysis:** Generational comparisons of digital engagement and political participation using ANOVA with post-hoc tests and effect size calculations.

2. **Multivariate Regression:** OLS regression models predicting political participation from digital engagement measures, with full demographic controls and generational interaction terms.

3. **Mediation Analysis:** Structural equation modeling using lavaan package to test indirect effects of digital access on political participation through digital skills and usage quality, with generational moderation.

4. **Within-Cohort Analysis:** Separate regression models for each generational cohort to identify cohort-specific predictors of digital political engagement.

All models account for complex survey design using survey weights and clustered standard errors. Robustness checks include alternative generational boundary specifications and different composite measure constructions.

## 4 Results

### 4.1 Descriptive Findings

Table 1 presents generational differences in digital engagement and political participation. Consistent with H1, younger cohorts demonstrate significantly higher digital political engagement ( $M=0.67$  for Millennials/Gen Z vs.  $M=0.31$  for Boomers/Silent Generation,  $p<0.001$ ), while traditional political participation shows smaller generational differences ( $M=0.52$  vs.  $M=0.58$ ,  $p<0.05$ ).

Notes: Standard deviations in parentheses. \* $p<0.05$ , \*\* $p<0.01$ , \*\*\* $p<0.001$  for differences from youngest cohort using ANOVA with post-hoc tests.

Table 1: Generational Differences in Digital Engagement and Political Participation

	Millennials/Gen Z (n=624)	Generation X (n=823)	Boomers/Silent (n=1,149)
<b>Digital Measures</b>			
Internet Access	0.89 (0.22)	0.78 (0.31)	0.52 (0.38)***
Digital Skills Index	0.74 (0.20)	0.61 (0.25)	0.38 (0.28)***
Digital Usage Quality	0.68 (0.24)	0.54 (0.27)	0.35 (0.31)***
<b>Political Participation</b>			
Digital Political Engagement	0.67 (0.28)	0.49 (0.31)	0.31 (0.35)***
Traditional Political Participation	0.52 (0.29)	0.55 (0.31)	0.58 (0.32)*

## 4.2 Multivariate Analysis Results

Table 2 presents regression results examining generational differences in political participation pathways. Model 1 examines traditional political participation, while Model 2 focuses on digital political engagement.

Notes: Standardized coefficients with standard errors in parentheses. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ . All models include survey weights and clustered standard errors.

Supporting H1, younger cohorts demonstrate significantly higher digital political engagement ( $\beta = -0.36$ ,  $p < 0.001$  for Boomers vs. Millennials), while traditional political participation shows no significant generational differences when controlling for other factors.

H2 receives partial support through significant interaction terms. The relationship between internet access and traditional political participation strengthens with age ( $\beta = 0.18$ ,  $p < 0.05$  for Boomers  $\times$  Internet Access), while the opposite pattern emerges for digital engagement ( $\beta = -0.22$ ,  $p < 0.01$ ). These findings suggest generationally differentiated pathways to political participation.

## 4.3 Mediation Analysis

Figure 1 presents results from structural equation modeling testing H3 regarding the mediating role of digital skills and usage quality.

Table 2: Regression Models Predicting Political Participation by Generation

	Traditional Participation	Digital Engagement
<b>Digital Access Measures</b>		
Internet Access	0.12* (0.05)	0.28*** (0.06)
Digital Skills	0.08 (0.06)	0.34*** (0.07)
Digital Usage Quality	0.15** (0.05)	0.42*** (0.06)
<b>Generation (Ref: Millennials/Gen Z)</b>		
Generation X	0.03 (0.04)	-0.18*** (0.05)
Boomers/Silent Generation	0.06 (0.05)	-0.36*** (0.06)
<b>Interaction Terms</b>		
Gen X $\times$ Internet Access	0.09 (0.08)	-0.15* (0.07)
Boomers $\times$ Internet Access	0.18* (0.09)	-0.22** (0.08)
Gen X $\times$ Digital Skills	0.14* (0.09)	-0.08 (0.08)
Boomers $\times$ Digital Skills	0.23** (0.10)	-0.12 (0.09)
<b>Control Variables</b>		
Education	0.19*** (0.04)	0.16*** (0.04)
Income	0.12** (0.04)	0.09* (0.04)
Political Interest	0.45*** (0.05)	0.38*** (0.06)
Social Capital Index	0.22*** (0.05)	0.18*** (0.05)
R <sup>2</sup>	0.42	0.51
N	2,596	2,596

The mediation model demonstrates excellent fit (CFI=0.96, RMSEA=0.048, SRMR=0.052). Digital skills and usage quality partially mediate the relationship between internet access and political participation, accounting for 34.7% of the total effect (indirect effect:  $\beta=0.21$ , 95% CI [0.16, 0.26],  $p<0.001$ ).

Mediation effects vary significantly across generational cohorts:

- Millennials/Gen Z: 28.3% mediation ( $\beta=0.19$ ,  $p<0.01$ )
- Generation X: 41.2% mediation ( $\beta=0.25$ ,  $p<0.001$ )
- Boomers/Silent Generation: 29.8% mediation ( $\beta=0.18$ ,  $p<0.01$ )

The strongest mediation effects among Generation X (H3 partially supported) suggest this cohort most effectively bridges digital and traditional political engagement modalities.

## 4.4 Within-Cohort Analysis

Table 3 presents separate regression models for each generational cohort, examining predictors of digital political engagement within age groups.

Table 3: Within-Cohort Predictors of Digital Political Engagement

	Millennials/ Gen Z	Generation X	Boomers/ Silent Gen
<b>Digital Measures</b>			
Internet Access	0.24*** (0.06)	0.31*** (0.05)	0.18* (0.08)
Digital Skills	0.42*** (0.07)	0.38*** (0.06)	0.51*** (0.09)
Digital Usage Quality	0.35*** (0.06)	0.29*** (0.05)	0.43*** (0.08)
<b>Individual Characteristics</b>			
Education	0.15* (0.07)	0.18** (0.06)	0.23** (0.08)
Political Interest	0.38*** (0.08)	0.41*** (0.07)	0.35*** (0.09)
Social Capital	0.19** (0.07)	0.24*** (0.06)	0.28*** (0.08)
R <sup>2</sup>	0.35	0.43	0.48
N	624	823	1,149

Notes: Standardized coefficients with standard errors in parentheses. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$ .

Supporting H4, digital skills show the strongest association with political engagement among older adults ( $\beta = 0.51$ ,  $p < 0.001$ ), explaining 2.34 times more variance than basic internet access alone ( $R^2 = 0.28$  vs.  $0.12$  in models with access only). This pattern suggests that overcoming second-level digital divides is particularly crucial for older adults' political participation.

## 5 Discussion

These findings provide strong evidence that digital divides have evolved beyond simple access inequalities to create complex, generationally differentiated pathways to political participation. Our results demonstrate that while younger cohorts possess clear advantages in digital

political engagement, meaningful political participation increasingly depends on digital literacy and usage quality rather than mere connectivity.

## 5.1 Theoretical Implications

Our findings extend digital divide theory by demonstrating that second-level divides create distinct democratic participation patterns across generational cohorts. The strong mediation effects of digital skills and usage quality (34.7% of total effect) support Van Dijk’s multi-stage access model while revealing previously undocumented generational variations in these processes.

The differential relationship between digital engagement and traditional political participation across cohorts challenges assumptions about technology’s universally democratizing effects. Instead, our results suggest that digital technologies create parallel rather than substitute pathways to democratic engagement, with different cohorts specializing in different participation modalities.

## 5.2 Policy Implications

These findings have significant implications for digital inclusion policies and democratic participation initiatives. Traditional universal access approaches may be insufficient for promoting inclusive democratic engagement in contexts where usage-based inequalities predominate.

Our results suggest three policy priorities:

**Generation-Specific Digital Literacy Programs:** Given that digital skills predict political engagement more strongly among older adults, targeted programs could focus on civic-oriented digital literacy rather than general computer skills.

**Intergenerational Bridge-Building:** Generation X’s strong mediation effects suggest this cohort could serve as bridges between digital-native and traditional civic engagement communities.

**Platform Design for Democratic Inclusion:** Digital platforms could be designed to

accommodate diverse usage patterns and skill levels while maintaining sophisticated civic engagement opportunities.

## 6 Limitations and Future Research

Several limitations qualify these findings. First, cross-sectional data precludes causal claims about relationships between digital engagement and political participation. Longitudinal research could better establish temporal ordering and developmental trajectories.

Second, our generational cohort definitions, while theoretically motivated, represent simplified categorizations of complex age-related differences. Future research might employ more nuanced approaches to age, period, and cohort effects.

Third, political participation measures focus primarily on formal democratic engagement, potentially missing informal or alternative participation forms particularly common among younger adults.

Future research should examine:

- Longitudinal trajectories of digital political engagement across cohorts
- Cross-national variations in generational digital divides
- The role of social media platforms in shaping generational participation patterns
- Intersection of digital divides with other forms of inequality (race, class, geography)

## 7 Conclusion

This study provides the first comprehensive analysis of how second-level digital divides shape political participation across clearly defined generational cohorts. Our findings demonstrate that the digital divide has evolved from access-based inequalities to usage-based disparities that create generationally differentiated pathways to democratic engagement.



While younger cohorts demonstrate clear advantages in digital political participation, meaningful civic engagement increasingly depends on digital literacy and sophisticated usage patterns rather than basic connectivity. These patterns have important implications for democratic equality and inclusion in digital contexts.

Rather than viewing generational differences as temporary phenomena that will resolve through population replacement, our findings suggest that different cohorts may develop stable, distinctive approaches to democratic participation that persist over time. Promoting inclusive democracy in digital contexts requires recognition of these diverse pathways and targeted interventions that address usage-based inequalities rather than access alone.

The evolution of digital divides from access to usage-based inequalities represents a fundamental challenge for democratic theory and practice. As digital technologies become increasingly central to political processes, understanding and addressing these second-level divides becomes crucial for maintaining democratic legitimacy and inclusion across all segments of society.

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