Social Media, Digital News Consumption and Polarization

Case Study of the 2018 Ontario General Election

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Methods

- Ontario Provincial Election Study, produced by LISPOP
- Available for public use at https://doi.org/10.5683/SP3/VFGL0E
- Online consumer sample from SSI, weighted by gender, age and education
- Campaign survey fielded between May 28-June 07, 2018
- Rich set of questions on news consumption and social media usage
 - observational, cross-sectional and self-reports, so limited

Sample Validation

Table 1: Vote intention of all respondents compared with actual vote results

OPES	Election
14%	20%
29%	40%
36%	34%
5%	5%
16%	NA
	14% 29% 36% 5%

Headline Findings

- Partial evidence for polarization by social media and online news consumption.
- ▶ heavy social media use →slight increase in affective polarization
- Online news media consumption →slight increase in policy polarization
- Caution: self-reported, observational, cross-sectional data from Ontario 2018
- Polarization by social media use and digital news consumption mostly occurs amongst low interest voters
- Contra Dubois and Blank (2018) political interest is directly, positively correlated with affective and policy polarization.

Key Independent Variables

- ▶ **Primary media source**: respondents were asked how they primarily received news about the 2018 Ontario election
 - Respondents grouped into legacy (TV, radio, print newspapers) online (news aggregators, blogs, online newspaper) and social media (facebook or twitter feeds); otherwise mixed.
- ➤ **Social media usage**: How often respondents use social media from **never** to **multiple times a day**
 - No reference to news consumption

Key Dependent Variables

Affective polarization

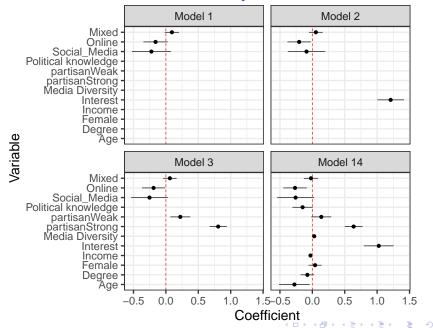
- Increasing dislike of out-partisans
 - Problem with multi-party democracies; weight by vote share (Wagner 2021).
 - Calculates the average weighted difference between a respondent's average like score and their like score for each party, weighted by party vote share

Key Dependent Variables

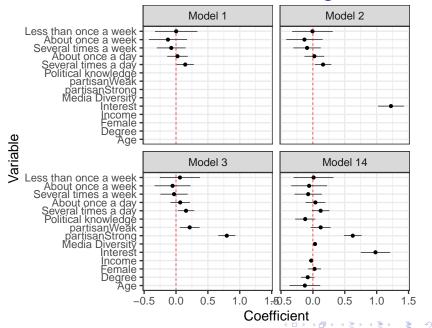
Policy polarization

- Index of 11 policy items (see Appendix in the paper).
- ➤ Two measures of policy polarization (See (Lelkes 2016; Levendusky and Pope 2011)
- bimodality coefficient to examine bimodality of a distribution of policy preferences (Pfister et al. 2013).
- ▶ the overlap coefficient to examine overlap between two distributions of policy preferences (Pastore and Calcagnì 2019).

Affective Polarization and Primary Media Source



Affective Polarization and Social Media Usage



Interaction of social media use, interest and affective polarization

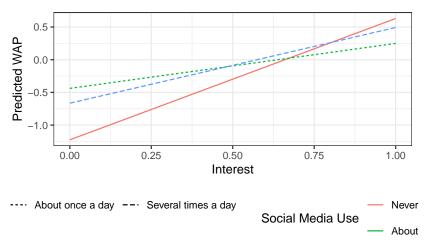


Figure 1: Predicted values of affective polarization by selected levels of social media use and interest in politics.

Policy Polarization and Primary Media Source - Bimodality Coefficient

Primary_media	Bimodality
Legacy	0.31
Mixed	0.35
Online	0.39
Social_Media	0.31

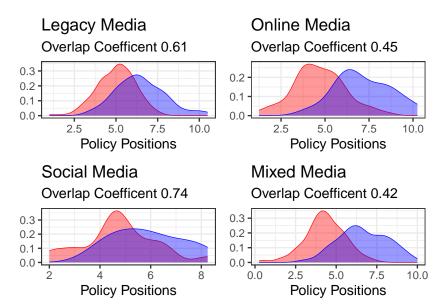
Policy Polarization and Primary Media Source - Bimodality Coefficient

Primary_media	Bimodality
Low	
Legacy	0.28
Mixed	0.39
Online	0.56
Social_Media	0.29
High	
Legacy	0.58
Mixed	0.40
Online	0.60
Social_Media	NaN

Policy Polarization and Social Media Usage - Bimodality Coefficient

Social_Use2	Bimodality
Never	0.33
Less than once a week	0.33
About once a week	0.29
Several times a week	0.27
About once a day	0.35
Several times a day	0.33

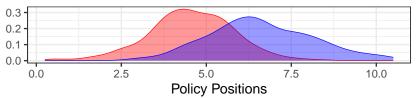
Policy Polarization - Overlap Coefficent



Policy Polarization - Overlap Coefficent

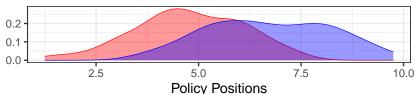
Uses Social Media Often

Overlap Coefficent 0.47



Uses Social Media Rarely

Overlap Coefficent 0.57



Discussion & Conclusion

- Some mild direct evidence for polarization
- Interacts with interest in politics even after controlling for partisanship.
- Consistent with Merkely (2022) who finds moderate increases in affective polarization, albeit we find increases amongst those with low levels of political interest
- Inconsistent with Merkely (yesterday) who finds limited role for digital news consumption increasing affective polarization
- Contra Dubois and Blank (2018), political interest →polarization, social media usage and digital media consumption moderates this relationship.

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