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Appendix

Table 1. OLS regression estimates predicting campaign sophistication on Meta platforms (federal candidates)

Dependent variable: sophistication index		ie: sophistication index
	(1)	(2)
Senate	0.019***	0.024***
	(0.002)	(0.004)
Race competitiveness	0.006***	0.005***
	(0.001)	(0.001)
Democratic	0.007***	0.013***
	(0.002)	(0.003)
Third party	-0.004	-0.000
	(0.004)	(0.012)
TV ad spending (logged)		0.001
		(0.001)
Image	0.007***	0.010***
	(0.002)	(0.003)
Intercept	-0.006***	-0.026**
	(0.002)	(0.010)
Observations	1022	537
R ²	0.159	0.191
Adjusted R ²	0.154	0.182
Residual Std. Error	0.026 (df=1016)	0.032 (df=530)
F Statistic	38.308 ^{***} (df=5; 1016)	20.881 ^{***} (df=6; 530)
Note: *p<0.1; **p<0.05; ***p<0.01		

Dependent variable: sophistication index

Notes: Model 2 only analyzed the subset of candidates who invested in TV ads.

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Table 2. OLS estimates predicting campaign sophistication on Meta platforms (all House and Senate race sponsors)

Dependent variable: sophistication index

	(1)	(2)
Senate	0.005***	0.024***
	(0.001)	(0.003)
Party	-0.009***	-0.000
	(0.001)	(0.000)
Group	-0.009***	-0.014
	(0.000)	(0.015)
Other sponsor type	-0.006***	-0.014***
	(0.001)	(0.005)
Race competitiveness	0.001***	0.004***
	(0.000)	(0.001)
Democratic	0.001***	0.012***
	(0.000)	(0.003)
Third party	-0.002	-0.001
	(0.002)	(0.011)
TV ad spending (logged)		0.001
		(0.001)



Image	0.001*	0.010***
	(0.000)	(0.003)
Intercept	0.006***	-0.021**
	(0.001)	(0.009)
Observations	4284	593
R ²	0.105	0.199
Adjusted R ²	0.103	0.188
Residual Std. Error	0.014 (df=4275)	0.031 (df=584)
F Statistic	62.457 ^{***} (df=8; 4275)	18.101 ^{***} (df=8; 584)
Note:	*p<0.1; **p<0.05; ***p<0.01	

Notes: 1) Model 2 only analyzed the subset of sponsors who invested in TV ads. 2) Ads placed by non-campaign sponsors such as national parties and groups were included separately for each race where they sponsored ads. 3) "Other sponsors" include government offices and coordinated efforts between a group and campaign or party.

Table 3. OLS estimates predicting campaign sophistication on Google platforms (candidates)

	Dependent variable: sophistication index	
	(1)	(2)
Senate	0.034***	0.029***
	(0.005)	(0.007)
Race competitiveness	0.007***	0.006***
	(0.002)	(0.002)
Democratic	0.010**	0.011**
	(0.004)	(0.005)



Third party	0.048***	-0.008
	(0.017)	(0.027)
TV ad spending (logged)		0.005***
		(0.002)
Video	0.026***	0.045***
	(0.009)	(0.013)
Image	0.011***	0.013**
	(0.004)	(0.005)
Intercept	-0.011*	-0.078***
	(0.005)	(0.023)
Observations	430	315
R ²	0.165	0.194
Adjusted R ²	0.153	0.175
Residual Std. Error	0.042 (df=423)	0.045 (df=307)
F Statistic	13.964 ^{***} (df=6; 423)	10.543 ^{***} (df=7; 307)
Note:	*p<0.1; **p<0.05; ***p<0.01	

Notes: Model 2 only analyzed the subset of sponsors who invested in TV ads.

Table 4. OLS regression estimates predicting campaign sophistication on Google platforms (all sponsors of Senate and House races)

	Dependent variable: sopi	histication index
	(1)	(2)
Senate	0.013***	0.015***
	(0.002)	(0.003)



Party	-0.021***	0.014*
	(0.003)	(0.008)
Group	-0.020***	0.016**
	(0.002)	(0.007)
Other sponsor type	-0.014**	0.024**
	(0.006)	(0.011)
Race competitiveness	0.004***	0.003***
	(0.001)	(0.001)
Democratic	0.003*	0.004*
	(0.002)	(0.002)
Third party	0.047***	-0.010
	(0.012)	(0.019)
TV ad spending (logged)		0.004***
		(0.001)
Video	0.008***	0.014***
	(0.003)	(0.004)
Image	0.008***	0.010***
	(0.002)	(0.003)
Intercept	0.007***	-0.040***
	(0.003)	(0.009)



Observations	1120	743
R ²	0.157	0.205
Adjusted R ²	0.150	0.194
Residual Std. Error	0.029 (df=1110)	0.032 (df=732)
F Statistic	23.012 ^{***} (df=9; 1110)	18.866 ^{***} (df=10; 732)
Note:	*p<	<0.1; **p<0.05; ***p<0.01

Notes: 1) Model 2 only analyzed the subset of sponsors who invested in TV ads. 2) Ads placed by non-campaign sponsors such as national parties and groups were included separately for each race where they sponsored ads. 3) "Other sponsors" include government offices and coordinated efforts between a group and campaign or party.