Information Provision, Voter Coordination, and Electoral Accountability: Evidence from Mexican Social Networks*

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How do social networks moderate the way political information influences electoral accountability? We propose a simple model in which incumbent malfeasance revelations can facilitate coordination around less malfeasant challenger parties in highly-connected voter networks, even when voters update favorably about incumbent party malfeasance. We provide evidence from Mexico of this mechanism by leveraging a field experiment in a context where the provision of incumbent malfeasance information increased support for incumbent parties, despite voters continuing to believe that challengers were less malfeasant than incumbents. Combining this experiment with detailed family network data, we show that—consistent with the model—the increase in incumbent party vote share due to information provision was counteracted by coordination around less malfeasant challengers in precincts with greater network connectedness. Individual-level data further demonstrate that networks facilitated explicit and tacit coordination among voters. These findings suggest that networks can help voters coordinate around information to help remove poorly-performing politicians.

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Introduction

The evidence that the provision of incumbent performance information helps hold governments to account is mixed.¹ This article investigates the extent to which these mixed results might reflect differences in the prevalence of connected social networks, which have significant capacity to influence how voters respond to the provision of information about incumbent party performance. We argue that social network connectedness can moderate the effect of information provision on a community's electoral sanctioning by serving as a coordination device that enables voters to synchronize their voting behavior, independently of how more connected networks may stimulate belief updating by better diffusing the information. Specifically, providing information may induce explicit discussion about, and agreement on, voting for a better candidate (e.g. Larson 2017), or induce the tacit understanding that others will respond similarly (e.g. Bernheim 1994; Morris and Shin 2002; Putnam, Leonardi and Nanetti 1993).

As Sinclair (2012:1) notes, "Politics are incredibly contagious in social networks." Indeed, networks could moderate the effect of incumbent performance information on electoral sanctioning in two main ways: by facilitating voter learning through *information diffusion*, or by inducing voters to *coordinate* on voting for the better candidate.² A robust body of evidence highlights the importance of networks in transmitting information to connected individuals (e.g. Alatas et al. 2016; Alt et al. 2017; Ames, Baker and Smith 2016; Larson and Lewis 2017; Schaffer and Baker 2015). Various studies also highlight the potential role of coordination within social networks by suggesting that, even without transmitting information that alters voters' beliefs, networks can help coordinate connected individuals to turn out (e.g. Bond et al. 2012; Nickerson 2008; Sinclair,

¹See e.g. Banerjee et al. (2011), Chong et al. (2015), Ferraz and Finan (2008), and Dunning et al. (forthcoming).

²Networks might also contribute to persuasion (e.g. Ames, Baker and Smith 2016; Schaffer and Baker 2015; Sinclair, McConnell and Green 2012; Nickerson 2008) or social pressure (Abrams, Iversen and Soskice 2011; Bernheim 1994; DellaVigna et al. 2016; Enikolopov, Makarin and Petrova 2016; McClendon 2014), although these mechanisms are likely to be themselves part of the broader coordination mechanism we focus on, and potentially also part of an information diffusion mechanism.

McConnell and Green 2012), or participate in protests (e.g. Enikolopov, Makarin and Petrova 2016; Larson et al. 2017; Steinert-Threlkeld 2017). Such coordination is typically postulated to be either *explicit* (arising from direct discussion with others leading to agreement to act a particular way) or *tacit* (i.e. arising from the common knowledge that others are likely to act in a particular way). However, these studies typically struggle to distinguish whether social networks' diffusion or coordination mechanisms drive their findings. In Nickerson's (2008) influential study, for example, it is not clear whether a get-out-the-vote campaign reaching single individuals increased the turnout of other members of their household because those members became better informed indirectly, or because targeted individuals and other household members were induced to coordinate (e.g. through discussion, arranging to vote together, or social pressure).

The difficulty of distinguishing between information diffusion and coordination functions of networks reflects their generally reinforcing effects. We illustrate this broader point in our empirical context of electoral accountability by developing a simple two-party model in which voters receive utility from: (1) voting for their preferred party, which reflects both expected malfeasance in office and an individual's bias toward the incumbent party (e.g. partisanship or incumbents' greater vote-buying capacity); (2) voting together with others they are connected to for the less malfeasant party. In our model, information provision both leads voters to directly update their beliefs about party malfeasance *and* enables voters embedded in more-connected networks to work together to coordinate around the less malfeasant party. While we do not explicitly model the coordination process, we assume that voters discuss and agree to, or believe that others will respond similarly to information provision by, voting for the less malfeasant candidate.

We show, in general, that information provision can induce networks' coordination and diffusion mechanisms to reinforce or oppose each other. Information that induces voters to (un)favorably update their perception of incumbent malfeasance will complement the coordination effect when voters also believe the incumbent to be less (more) malfeasant than the challenger. In this case, larger effects of information provision among voters embedded in more-connected networks could

reflect either coordination or the greater diffusion of information in such networks. In contrast, this observational equivalence between networks' potential coordination and diffusion functions breaks down if voters, despite (un)favorably updating about the incumbent, still believe that the incumbent is more (less) malfeasant than the challenger. In this case, the information diffusion channel via learning and updating instead has the *opposite* effect on vote choice to that of coordination.³

To empirically separate the coordination and diffusion mechanisms through which networks moderate the effects of information provision, we exploit an instance in which this particular condition holds and information was disseminated widely enough to feasibly coordinate voters. Specifically, we build on an experiment previously conducted by Arias et al. (2018), which randomized the provision of audit report scorecards detailing misallocated municipal spending before the 2015 municipal elections in four Mexican states where voters believed incumbents to be highly malfeasant. They show that, on average, voters rewarded incumbent parties after receiving this information, and—consistent with belief updating in a context where voters already expected substantial incumbent malfeasance—rewarded the incumbent most where the reported malfeasance was lower than expected. Crucially for this study, voters generally believed the incumbent to be more malfeasant than challenger parties, even after receiving the audit report information. In other words, while the informational intervention led some voters to believe that the incumbent party was less malfeasant than expected, it did not change the fact that voters, on average, still believed the incumbent party to be more malfeasant than challengers. Consequently, this context allows us to distinguish whether coordination or diffusion is the driving force behind any moderating role of social networks: while networks' coordinating role should decrease support for the incumbent after malfeasance information is provided, the information diffusion function should increase support for the incumbent.

Combining field experimental variation in the provision of incumbent performance information

³While our simple model considers a signal about the incumbent, the argument is more general in that it could incorporate signals about challengers or coordination on different characteristics.

with network data, we show that network structure can play a significant role in inducing coordination following information provision. First, precinct-level electoral returns demonstrate that the increase in support for the incumbent party caused by information provision is lower where a precinct's network is more connected. Network connectedness is measured using several approaches implied by our theoretical model that aggregate individual-level networks—constructed from family ties among the beneficiaries of Prospera, Mexico's nationwide conditional cash transfer program—within rural precincts, where many voters are Prospera beneficiaries (see also Angelucci et al. 2009; Cruz, Labonne and Querubín 2017).

Second, we use detailed survey data to substantiate the mechanisms underpinning precinct-level voting behavior. In particular, we find that voters in more-connected precincts engaged more with the information provided, and were also significantly more likely to know that others in their community received the information. Crucially, and consistent with our theory of voter coordination within networks, these voters report that discussion with others about the information induced coordination that changed their vote choice, since it led them to believe that other voters would change their vote. Robustness checks suggest that these findings are unlikely to reflect other factors correlated with network connectedness, our measurement of networks, or social desirability bias. Furthermore, we provide evidence that our estimated effect of network connectedness is not explained by networks altering individual beliefs or behavior, whether through information diffusion within or across precincts, or by information provision increasing political engagement. Alongside the voter updating previously documented by Arias et al. (2018), we thus find clear evidence indicating that information provision can also induce voter coordination against candidates generally believed to be more malfeasant than their opposition.

This study makes two main contributions. First, by leveraging an uncommon feature of our empirical setting to show that networks can facilitate coordination around information provision, we provide a proof of concept for the widely held belief that social networks can stimulate voter coordination. Our findings thus add credence to Putnam, Leonardi and Nanetti's (1993:167) ar-

gument that "features of social organization, such as trust, norms, and networks, can improve the efficiency of society by facilitating coordinated actions." They are also consistent with the documented role of information dissemination in facilitating coordination in a variety of contexts, such as Collier and Vicente's (2014) claim that an anti-violence campaign served as a coordination device to help Nigerian communities reach an equilibrium in which peaceful participation became the norm. More generally, our findings add nuance to the mechanisms underpinning previous studies attributing network effects to information dissemination or social pressure absent coordination. Separating between these theoretical mechanisms, and identifying the conditions under which they are complements, may also have important implications for policy-makers seeking to optimize information campaigns.

Second, we provide a lens—beyond belief updating—through which the mixed evidence regarding information's influence on electoral accountability can be interpreted. Because networks' coordination and information diffusion functions can either reinforce or oppose each other, the effect of information provision may not be obvious *a priori*. Consequently, the absence of average informational treatment effects found in some studies may not be indicative of an unresponsive electorate. Adida et al. (2017) similarly suggest that tacit coordination is a necessary condition for information to support electoral accountability, but lack direct evidence of voter coordination. Furthermore, the coordination function could help explain why the effects of information provided by the media (Ferraz and Finan 2008; Larreguy, Marshall and Snyder 2018) or in public settings (Bidwell, Casey and Glennerster 2017; Fujiwara and Wantchekon 2013) are notably larger than interventions that privately distribute leaflets to voters (Chong et al. 2015; Dunning et al. forthcoming).

Municipal malfeasance, political competition, and social networks in Mexico

Mexico's federal system is divided into 31 states and the Federal District of Mexico City, which contain more than 2,500 municipalities and 67,000 electoral precincts. Municipal governments account for 20% of total government spending, and mayors are responsible for delivering basic public services and managing local infrastructure. Mayors are generally elected to three-year non-renewable terms.⁴

Audits reporting municipal malfeasance

A key discretionary program at a mayor's disposal is the Municipal Fund for Social Infrastructure (FISM), which constitutes 24% of the average municipality's budget. According to the 1997 Fiscal Coordination Law, FISM funds are direct federal transfers earmarked exclusively for infrastructure projects benefiting citizens living in localities designated as impoverished.⁵ Eligible projects include investments in water supply, drainage, electrification, health and education infrastructure, housing, and roads.

Mayors' use of FISM transfers has been subject to independent audits by the Federal Auditor's Office (ASF) since 1999. The ASF has constitutionally enshrined autonomy to audit federal funds spent by federal, state, and municipal governments, and is generally perceived to be neutral, autonomous, and professional (De La O and Martel García 2015). Each year, the ASF selects approximately 150 municipalities for audit based on the relative contribution of FISM transfers to their municipal budget, their history of malfeasance, factors that increase the likelihood of mismanagement, and whether the municipality has recently been audited (Auditoría Superior de la

⁴Mayors will become eligible for re-election in 2018 in most states.

⁵In 2010, the National Population Council (CONAPO)'s marginalization index identified that 22.7% of citizens lived in impoverished localities.

Federación 2014). ASF audits cover spending from the previous year, and are announced after spending has occurred. Audit reports are presented to Congress in February of the year after the audit was conducted (i.e. two calendar years after the spending occurred) and are publicly available on the ASF's website.

Although ASF reports examine various aspects of performance, we focus on the two main dimensions of mayoral malfeasance: the share of FISM funds spent on infrastructure projects that do not directly benefit the poor (the program's intended beneficiaries), and the share of funds diverted to unauthorized projects (e.g. personal expenses and election campaigns, or expenditures that cannot be accounted for). The latter constitutes what is often regarded as corruption (e.g. Ferraz and Finan 2008). Our study's sample consists mostly of rural precincts with high rates of poverty, and thus both measures capture misallocation away from the majority of voters.

While many municipal governments comply with the FISM rules, malfeasance can often be substantial. Between 2007 and 2015, 8% of audited funds were spent on projects that did not benefit the poor and 6% on unauthorized projects. For example, the municipal government of Guadalajara used most of its audited FISM funds to cover projects that did not benefit the poor in 2009.⁶ Regarding instances of unauthorized spending, municipal governments across the state of Tabasco diverted significant FISM resources to fund the 2012 electoral campaigns of their parties' candidates,⁷ and the mayor of San Pedro Pochutla used millions of FISM pesos in 2008 to make unjustified payments to his wife and others, as well as to buy furniture for his house.⁸ According to Chong et al. (2015), 45% of voters do not believe that municipal governments use public resources honestly and 54% are dissatisfied with public services.

⁶Informador, "Hallan irregularidades en gasto tapatío contra pobreza," February 28th 2013; link here.

⁷Tabasco Hoy, "Pagaron pobres campañas 2012," March 6th 2014; link expired.

⁸PubliMar, "Desvió presidente de Pochutla 20 millones de pesos: Benjamín Hernández Silva," August 11th 2009: link here.

Municipal political competition

Most municipalities in Mexico's party-centric political system are characterized by competition between two of the country's three largest parties. Due to its local strength and relatively nationwide appeal, the populist Institutional Revolutionary Party (PRI) typically competes against either the right-wing National Action Party (PAN) or the PRI's left-wing offshoot, the Party of the Democratic Revolution (PRD). The two dominant parties in the municipality often subsume smaller parties on their electoral ticket. Accordingly, most elections are *de facto* two-party races; the average effective number of party coalitions in municipal elections is 2.5.

Most voters are poorly informed about the resources available to mayors and their responsibility to provide public services (see Chong et al. 2015). Awareness of ASF malfeasance revelations is relatively low, and concentrated in urban areas (Larreguy, Marshall and Snyder 2018). Nevertheless, the vast majority of voters know the party of the incumbent mayor and, while reelection is not possible, are willing and able to hold incumbent parties to account for their performance in office (Chong et al. 2015). Consequently, there is significant scope for voters to respond to the provision of incumbent malfeasance information, which is likely to be novel to them.

The importance of social networks

A burgeoning literature argues that interactions within social networks shape political outcomes across the globe. For example, networks have been shown to influence turnout in the United States (Bond et al. 2012; Gerber, Green and Larimer 2008; Nickerson 2008; Sinclair, McConnell and Green 2012), electoral performance and the targeting of public services in the Philippines (Cruz, Labonne and Querubín 2017), and protest participation in Russia, France, and the Middle East and North Africa (Enikolopov, Makarin and Petrova 2016; Larson et al. 2017; Steinert-Threlkeld 2017).

In many contexts, social networks are built around family ties. This is particularly true of Mex-

ico, where the notion of family is much more extensive and inclusive than in other cultures. Grandparents, uncles, and aunts play an important role in the upbringing of younger generations, and the
extended family meets regularly (Belausteguigoitia 2007). The structure of the Mexican family
initially followed the Spanish tradition of an extended family, which assigned uncles and cousins
on both sides of the family a similar degree of closeness as parents and siblings. This structure
persisted over time, especially in rural areas like those that this article focuses on (Sabau García
and Jovane 1994). According to the 2014 wave of the World Values Survey, 97.6% of respondents
stated that the family is "very important," and Mexico ranked 6th among the 40 countries included
in the survey and 2nd within Latin America in this measure.

The strength of extended family ties is particularly prevalent in Mexican politics. For example, the 2009 Comparative Study of Electoral Systems (CSES) survey found that 47% of respondents discussed politics with their household members during the week before being interviewed. Moreover, the 2012 CSES survey indicates that, out of the 20% of respondents that reported attempts to persuade them to vote for a specific political party or candidate, 42% identified family members as the source of those attempts. We report evidence below that electoral precincts where extended familial networks exhibit high connectedness experience greater civic participation and political efficacy. This suggests that extended family ties are relevant and may signal greater community connectedness more generally.

Recent work in Mexico similarly highlights the important role that social networks play in explaining individual behavior. Examples include the effect of social networks on incentives to migrate (McKenzie and Rapoport 2010), remittance flows (Woodruff and Zenteno 2007), and on student academic performance (Ramirez Ortiz, Caballero Hoyos and Ramírez-López 2004). Of particular relevance to our study, Angelucci et al. (2009) use data from Prospera beneficiaries to show that—consistent with the extended family being a source of informal insurance to its members—localities with more extensive family networks experience lower levels of out-migration and inequality.

Information provision, social networks, and vote choice

We develop a simple two-party model to analyze how a common signal of incumbent performance can affect voting behavior through two mechanisms: the well-established idea that voters learn from new information and our more novel insight that information provision may serve as a coordination device around candidates that voters regard as better. The model predicts that the nature and extent of voter coordination depend on network connectedness and the difference in the posterior beliefs about the quality of incumbent and challenger parties. To clearly illustrate this insight, our model abstracts from information diffusion within networks by examining the extreme case where all voters receive the signal. However, since network connectedness could also increase voter learning by facilitating information diffusion in a more general model where the signal is not common, we clarify the conditions under which the diffusion and coordination mechanisms generate different voting behavior in connected networks.

Setup

Political parties, voters, and information provision

Two candidates, from the incumbent party I and the challenger party C, compete for office. Candidate types are defined by their level of malfeasance, which may be either high (H) or low (L) and are described by states of the world $S_p \in \{L, H\}$ for party $p \in \{I, C\}$. We take these candidate types as given, although voters have incomplete information about candidate malfeasance.

Any given community contains a continuum of voters with unit mass. Voters possess common prior beliefs about whether candidates of I and C are high malfeasance types across states. Specifically, all voters believe with probability $\pi^0 := \Pr(I = H) \in [0, 1]$ that I's candidate is highly malfeasant. Voter prior beliefs about C's malfeasance are: $\lambda^0 := \Pr(C = H) \in [0, 1]$. [CUT

⁹Allowing for state-dependent prior beliefs, assuming voters cannot infer an incumbent's type from their prior belief, would not change the model's core insights.

NEWLY UNNECESSARY SENTENCE

Information provision is informative about the malfeasance of party I's candidate. We assume that all voters receive a common signal $s \in \{\emptyset, l, h\}$ indicating the likelihood that I's candidate is of type L or H.¹⁰ With the exception of the null signal \emptyset , which is not informative, the common signal is informative about I's malfeasance. Specifically, the probability $\sigma_{S_I} := \Pr(s = h|S_I) \in$ [0, 1] that the signal indicates that I's candidate is a high-malfeasance type H is greater when the incumbent is actually of type H than when they are of type L, i.e. $\sigma_H > \sigma_L$. After information about I's performance is revealed, voters form common posterior beliefs about the malfeasance of I's candidate, $\pi^1(s)$, following Bayes' rule. Intuitively, because $\sigma_H > \sigma_L$, it follows that $\pi^1(h) > \pi^1(l)$. If the signal is uninformative, voters retain their prior beliefs (i.e. $\pi^1(\emptyset) = \pi^0$).

Voter preferences and actions

Voters derive utility from three sources. First, they receive expressive disutility from voting for malfeasant politicians. Specifically, the expressive disutility that a risk-neutral voter receives from voting for party $p \in \{I, C\}$ [CUT REFERENCE TO "STATE"], after receiving a signal s, is given by:

$$e^{I}(s) = \pi^{1}(s)\theta^{H} + \left[1 - \pi^{1}(s)\right]\theta^{L} \tag{1}$$

$$e^C = \lambda^0 \theta^H + (1 - \lambda^0) \theta^L, \tag{2}$$

where $\theta^S>0$ represents the disutility that a candidate of type S yields to voters, and $\theta^H>0$ θ^{L} . To ease notation, we define $\Delta e\left(s\right):=e^{I}\left(s\right)-e^{C}$ as the expected difference in expressive disutility of voting for I's candidate relative to C's candidate. Since information provision can

¹⁰Alternatively, we could assume that only a share of voters receive the signal, or that voters also get a

signal about C's malfeasance. Either extension would add complexity without altering our main results. ¹¹Posterior beliefs are $\pi^1(l) := \Pr(I = H | s = l) = \frac{\pi^0(1-\sigma_H)}{\pi^0(1-\sigma_H)+(1-\pi^0)(1-\sigma_L)}$ and $\pi^1(h) := \Pr(I = H | s = l)$ $H|s=h) = \frac{\pi^0 \sigma_H}{\pi^0 \sigma_H + (1-\pi^0)\sigma_T}$

only affect $e^{I}(s)$, lower values of $\Delta e(s)$ indicate a relatively stronger preference for voting for I's candidate because voters believe that party I contains less malfeasant candidates than they originally believed.

Second, voters are connected within a politically engaged social network and can coordinate with those they are connected to in response to receiving an informative signal (either s=l or s=h). We clarify our notions of individual connectedness below. Information provision could serve as a coordination device within social networks in two ways. First, information provision through networks could induce voters to discuss the information and politics more generally, and stimulate agreement upon a common response (Larson 2017). Second, even without such explicit coordination, communication with others may reveal to voters that others also received the signal, and believe that this common signal will stimulate coordinated behavior (Morris and Shin 2002). We assume that uninformative signals (i.e. $s=\emptyset$) do not facilitate coordination. 12

When voters coordinate, we assume that they do so around the party that they believe to be less malfeasant. In our model, this is manifested in voters receiving utility $\sum_{j\in N_i}\mathbbm{1}\left[\Delta u_j\left(p|s\right)\geq 0\right]$ from voting for the party p that they believe is less malfeasant (party I if $\Delta e\left(s\right)\leq 0$ and party C if $\Delta e\left(s\right)>0$), where $\mathbbm{1}[\cdot]$ denotes the indicator function, N_i is the set of voters connected to voter i, and $\Delta u_j\left(p|s\right):=u_j\left(p|s\right)-u_j\left(p'|s\right)$ is the difference in voter j's utility from voting for party p over party p'. We fully characterize $u_j\left(p|s\right)$ below, but for now $\Delta u_j\left(p|s\right)\geq 0$ implies that voter j votes for party p's candidate. This formulation captures the idea that voters gain utility from coordinating around (what they perceive to be) a less malfeasant candidate with the voters they are connected to [CUT CONVOLUTED AND UNNECESSARY PHRASE], where such utility increases with the number of other voters—i.e. $\sum_{j\in N_i} \mathbbm{1}\left[\Delta u_j\left(p|s\right)\geq 0\right]$ —with whom they are coordinating their vote. This is in line with rule-utilitarian models in which individuals derive utility from acting according to a strategy that maximizes social welfare (Feddersen 2006).

¹²Even an uninformative common signal could stimulate coordination by inducing voters to interact with one another. Empirically, we examine the case of no signal, but consider the case of uninformative signals theoretically for completeness.

[STARTED NEW PARAGRAPH TO MAKE IT EASIER TO READ] Our model does not take a specific stance on the micro-foundations of voters' utility derived from coordination. However, it could reflect a lower probability that parties will sanction individual voters when a group of voters deviates from a party's preferred behavior (e.g. Medina 2007), a desire to be part of a group signaling discontent (e.g. Lohmann 1993), or simply a preference to conform (e.g. Bernheim 1994). None of these interpretations requires that voters believe that their community's voting behavior will change the election outcome.

We consider two common notions of network connectedness—average degree and the largest eigenvalue (see Alatas et al. 2016). Intuitively, average degree is the average number of other voters that a voter i is locally connected to and can directly coordinate with. In turn, the largest eigenvalue defines the extent to which the average individual is central in the sense that they are connected to other individuals whose centrality is recursively determined. The largest eigenvalue then captures the extent to which the information required for coordination can flow from and to the average individual in the network. The largest eigenvalue lies between the network's average degree and its maximal degree. Section A.3 in in the Online Appendix provides technical definitions of both measures. To significantly simplify computations, we restrict our analysis to regular graphs, where average degree n is constant and coincides with the largest eigenvalue. This is reasonable in our empirical context, where the correlation between the average degree and largest eigenvalue is 0.98. In our model, we thus interpret n as the number of other voters in—or the cardinality of—the set N_i .

Third, voters are also subject to a (possibly negative) partisan bias δ_i toward I's candidate. In particular, δ_i is an independently and identically uniformly distributed shock across the electorate over support $\left[b-\frac{1}{2\phi},b+\frac{1}{2\phi}\right]$, with density $\phi\in\left(0,\frac{1}{2[b-\Delta e(s)+n]}\right)$. Although this distribution is common knowledge, each realization is private information for individual voters. The average voter thus has a bias b>0 toward I's candidate, which could reflect material inducements—such

¹³The upper bound ensures that vote shares are bounded on (0, 1), for any s.

as vote buying or targeted future transfers—that I can better provide (e.g. Magaloni 2006). ¹⁴ For simplicity, we assume perfect enforcement such that individuals voting for I's candidate receive b, regardless of the election outcome. This could reflect voters' reciprocity or brokers' willingness to target only those known to reciprocate (e.g. Finan and Schechter 2012; Lawson and Greene 2014).

Combining these sources of utility, and abstracting from the decision to turn out, 15 voters then decide whether to vote for party I's or party C's candidate. The utility of voting for I for individual i receiving signal s is:

$$u_i(I|s) = -e^I(s) + \delta_i + \mathbb{1}[s \in \{l, h\}] \mathbb{1}[\Delta e(s) \le 0] \sum_{j \in N_i} \mathbb{1}[\Delta u_j(I|s) \ge 0].$$
 (3)

Similarly, voting for C yields:

$$u_i(C|s) = -e^C + \mathbb{1}[s \in \{l, h\}] \mathbb{1}[\Delta e(s) > 0] \sum_{j \in N_i} \mathbb{1}[\Delta u_j(C|s) > 0].$$
 (4)

A voter votes for I when $u_i(I|s) \ge u_i(C|s)$.

Timing

The game's timing is summarized as follows:

- 1. Incumbent types $S_p \in \{L, H\}$ are realized.
- 2. All voters in a community receive a common signal $s \in \{\emptyset, l, h\}$.
- 3. If s = l or s = h, then voters can coordinate around the candidate they believe to be least malfeasant.
- 4. Each voter's individual partisan bias δ_i is privately realized.

¹⁴This does not preclude challengers from providing similar inducements, but assumes that they are less effective at doing so.

¹⁵We abstract from turnout to focus on vote choice. In our particular empirical context, we find little evidence that turnout was affected.

5. Voters privately vote for I or C.

Equilibrium and comparative statics

We solve for a rational expectations equilibrium by first calculating I's vote share as a function of its expected vote share, $\mathbb{E}[v_I(s)]$. We then set expectations to the true vote share to recursively derive equilibrium behavior under rational expectations about the behavior of other voters.

Integrating over partisan biases, the vote share among voters that receive signal s [CUT "STATE" REFERENCE] is implicitly defined by:

$$v_{I}(s) = \frac{1}{2} + \phi \Big(b - \Delta e(s) + \mathbb{1}[s \in \{l, h\}] \mathbb{1}[\Delta e(s) \le 0] n \mathbb{E}[v_{I}(s)]$$
$$- \mathbb{1}[s \in \{l, h\}] \mathbb{1}[\Delta e(s) > 0] n \mathbb{E}[1 - v_{I}(s)] \Big),$$
 (5)

which follows from $\mathbb{E}\Big[\sum_{j\in N_i}\mathbb{1}\left[\Delta u_j\left(I|s\right)\geq 0\right]\Big]=n\mathbb{E}[v_I(s)]$ and $\mathbb{E}\Big[\sum_{j\in N_i}\mathbb{1}\left[\Delta u_j\left(C|s\right)>0\right]\Big]=n\mathbb{E}[1-v_I(s)]$, by virtue of partisan biases being distributed independently across voters. Due to voter coordination, I's support increases (decreases) with I's vote share when voters' posterior beliefs about I's malfeasance are below (above) their belief about C's malfeasance.

We then derive the equilibrium vote shares by applying rational expectations (i.e. $\mathbb{E}[v_I(s)] = v_I(s)$), and solving recursively. This yields:

Proposition 1. In a rational expectations equilibrium, the candidate of incumbent party I receives the following vote share in a given community:

$$v_{I}(s) = \begin{cases} \frac{1}{2} + \phi \left(b - \Delta e\left(\emptyset\right)\right) & \text{if } s = \emptyset \\ \frac{\frac{1}{2} + \phi \left(b - \Delta e\left(s\right)\right)}{1 - \phi n} & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) \leq 0 \\ \frac{\frac{1}{2} + \phi \left(b - \Delta e\left(s\right) - n\right)}{1 - \phi n} & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) > 0 \end{cases}$$

$$(6)$$

for any $s \in \{\emptyset, l, h\}$.

Proof: follows from derivation in the text. ■

Unsurprisingly, party I's equilibrium vote share increases with the partisan bias in their favor and the extent to which voters update their posterior beliefs to believe that I is less malfeasant than they originally believed (i.e. when $\Delta e(s)$ decreases). When coordination is around C's candidate, the final component of the numerator in the last case captures coordination against I's candidate. The denominator also illustrates coordination's multiplier effect, such that the preceding effects in the numerator are inflated by the capacity to coordinate vote choices with n others.

We focus on the comparative statics that motivate our empirical analysis. In particular, in line with our empirical specification, we compare the case in which voters receive an informative signal $(s \in \{l, h\})$, which corresponds to voters in treated experimental precincts, to the case in which they do not $(s = \emptyset)$, i.e. control precincts. For any given informative signal s, the difference in vote share between these cases is given by:

$$v_{I}(s) - v_{I}(\emptyset) = \begin{cases} \frac{-\phi \left[\Delta e(s) - \Delta e(\emptyset)\right] + \phi n \left[\frac{1}{2} + \phi b - \phi \Delta e(\emptyset)\right]}{1 - \phi n} & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) \leq 0\\ \frac{-\phi \left[\Delta e(s) - \Delta e(\emptyset)\right] - \phi n \left[\frac{1}{2} - \phi b + \phi \Delta e(\emptyset)\right]}{1 - \phi n} & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) > 0 \end{cases}$$

$$(7)$$

Regardless of the party that voters coordinate around, the effect of providing information is ambiguous. This reflects two potentially competing forces. Through the first term in the numerators, voters update their beliefs about I's malfeasance, becoming more favorable toward I when their posterior belief that I is malfeasant is below their corresponding prior belief. This is more likely when voters initially believed I to be malfeasant [MOVED PARENTHETICAL BELOW], which could reflect an accurate assessment of I's malfeasance (i.e. high $\sigma_H - \sigma_L$) or generally low expectations (i.e. high π^0), and when the signal suggests low malfeasance (i.e. s = l). The second term in the numerators captures an individual's coordination incentives, which vary depending on whether $\Delta e(s) \leq 0$. Intuitively, coordination benefits (harms) I when $\Delta e(s) \leq (>)0$, and is increasing in n, ϕ , and the baseline (i.e. uninformative signal) vote share of the party around

which voters coordinate. This may or may not agree with the direction of belief updating about I because learning depends on the *change* in beliefs, while coordination depends on comparing the *levels* of posterior beliefs. Both effects are multiplied by the incentive to bandwagon within social networks.¹⁶

While the sign of the difference depends on the relative roles of belief updating and coordinated behavior, the difference changes unambiguously with n:¹⁷

$$\frac{\partial [v_I(s) - v_I(\emptyset)]}{\partial n} = \begin{cases}
\frac{\phi\left[\frac{1}{2} + \phi b - \phi \Delta e(s)\right]}{[1 - \phi n]^2} > 0 & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) \le 0 \\
\frac{-\phi\left[\frac{1}{2} - \phi b + \phi \Delta e(s)\right]}{[1 - \phi n]^2} < 0 & \text{if } s \in \{l, h\} \text{ and } \Delta e\left(s\right) > 0
\end{cases} \tag{8}$$

Intuitively, an increase in network connectedness n accentuates the coordination component, and thus increases the reward to (punishment of) I when voters believe that I is less (more) malfeasant than C. This is because coordination in more-connected networks increases the expectation that others will decide to coordinate on the less malfeasant candidate, which in turn increases the return for any individual to do so. Again, the direction of this effect does not necessarily match the direction of voters' belief updating. For example, voters could become less likely to believe that I is malfeasant yet still believe that I's candidate is more malfeasant in general, and thus coordinate more on C. However, for sufficiently large changes in beliefs, the learning and coordination effects will coincide, and coordination will compound learning.

Empirical implications of coordination within social networks

Various studies have shown that belief updating can drive voting behavior, including in the Mexican context that we study (Arias et al. 2018). We instead focus on testing whether information

¹⁶The learning effect is also reinforced (or counteracted) by coordination because voters seeking to coordinate do not differentiate between the learning and coordination motives of others—they only anticipate how they will vote.

¹⁷The terms in brackets in each numerator must be positive because they are, respectively, I and C's vote shares when $s = \emptyset$.

provision can also generate voter coordination. To understand the model's predictions relating to coordination in a particular context, we must first determine whether voters are more likely to coordinate around the incumbent or challenger party: we must identify whether $\Delta e\left(s\right) \leq 0$ or $\Delta e\left(s\right) > 0$.

A crucial element of our particular empirical context is that voters believe challenger parties are *less* malfeasant than the incumbent party (i.e. $\Delta e\left(\emptyset\right)>0$). Comparing average voter posterior perceptions of incumbent party malfeasance on a five-point scale with the analogous perception for the challenger party that came second in the previous election, 65% of treated precincts in our sample believed the challenger to be less malfeasant.¹⁸

Because challenger parties are generally perceived to be less malfeasant than incumbent parties, when the voters in our sample coordinate, our model predicts that they will usually do so *against* the incumbent party. The analysis above thus implies that, if networks indeed moderate the effect of providing information about incumbent malfeasance by facilitating voter coordination, the provision of information should increasingly harm incumbent parties as network connectedness (i.e. *n*) increases. The comparative static in equation (8) entails:

Hypothesis 1 (H1). The effect of information provision on the incumbent party's vote share decreases with network connectedness.

Although this heterogeneous effect is well-defined for our sample of precincts, the average effect of providing information—which reflects countervailing updating and coordinating forces—remains ambiguous. However, in our specific empirical context, where voters often update favorably about the incumbent party but still believe the challenger to be less malfeasant, equation (8) establishes that information provision can reduce the incumbent's vote share in sufficiently-connected networks.

¹⁸Section A.1 in the Online Appendix explains how posterior beliefs were elicited. If we instead define the challenger party as each respondent's second preferred party or the average perception among whichever of the PAN, PRD, and PRI was not in power, we respectively observe that 63% and 68% of treated precincts believed the challenger to be less malfeasant.

Furthermore, we can directly test several of the model's key assumptions using survey data. First, we assumed that networks facilitate voter coordination around the information provided by our informational treatment. If this is indeed the case, we expect to observe that voters in communities with more-connected networks will report higher levels of individual and collective engagement with, and understanding of, the treatment information:

Hypothesis 2 (**H2**). The effect of information provision on voter engagement with the information provided increases with network connectedness.

Second, given that H2 is not unique to the coordination mechanism, a more direct test examines our expectation that network connectedness increases both tacit and more explicit coordination among voters after information is provided:

Hypothesis 3 (H3). The effect of information provision on voter coordination increases with network connectedness.

Although the model assumes, for simplicity, that all voters receive the common signal, our theory also implies that coordination should be greater where a larger share of the voters received the information treatment. This is because networks are more likely to explicitly coordinate around the information and there is greater common knowledge of information provision. We thus hypothesize that:

Hypothesis 4 (H4). The magnitude of the differential effects predicted by H1, H2, and H3 increases with the share of voters that received the information.

Before turning to the research design, we also highlight how the defining features of our empirical context help us to empirically differentiate voter coordination from the potentially confounding effects of belief updating amplified by information diffusion through social networks. While our model abstracted from information diffusion within networks by assuming that all voters received the common signal, network connectedness is likely to increase the diffusion of information within

communities where some voters do not receive the information. In the context of our model, this could entail seeding the information with a subset of voters that probabilistically transfer the information to those they are connected to. The diffusion mechanism thus implies effects that are observationally equivalent to the effects of voter coordination where voters, on average, update *unfavorably* about an incumbent party already believed to be more malfeasant than the challenger. This is because diffusion increases the probability that voters receive unfavorable information and update their posterior beliefs about the incumbent party's malfeasance accordingly. However, because malfeasance information in our empirical context at least as often causes voters to update favorably about the incumbent party, even though they continue to perceive the incumbent party as relatively more malfeasant than challengers, networks' diffusion and coordination functions produce opposing or orthogonal predictions. Similarly, information diffusion within networks predicts the opposite of H4, given that there are fewer opportunities for diffusion where more voters already have access to the information.

Data and empirical design

We test the model's implications in rural Mexican electoral precincts by combining experimental variation in the provision of information with precinct-level measures of network connectedness.

Sample of rural Mexican precincts

The experiment was conducted over the month before Mexico's municipal elections held on Sunday 7th June 2015. The study covered 26 Mexican municipalities from the central Mexican states of Guanajuato, México, San Luis Potosí, and Querétaro. These states were selected for three reasons: (1) they held local elections in 2015, (2) they vary in their incumbent parties, and (3) they satisfied our safety and logistical protocols. The 26 municipalities were selected from among the 56 municipalities in these states for which an audit report was released in 2015. We oversam-

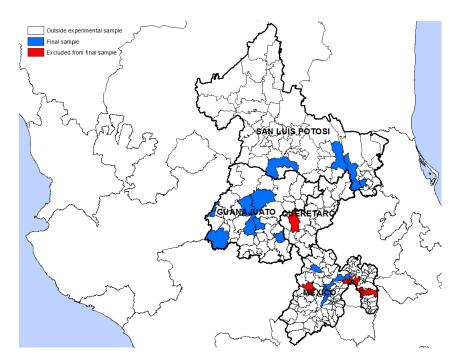


Figure 1: Municipalities included in our experimental sample

pled municipalities for which reported incumbent malfeasance was particularly high or low and contrasted with that of other parties in the state. Figure 1 maps the location of these municipalities.

We selected 356 rural and 322 urban electoral precincts—Mexico's smallest electoral unit—for our experimental sample. ¹⁹ This sample prioritized accessible rural precincts, where informational spillovers are least likely and where voters are unlikely to receive the information from other sources, and precincts in municipalities with high or low levels of incumbent malfeasance and stark contrasts with other parties. To minimize effects on municipal election outcomes, at most one-third of electoral precincts were treated in any municipality.

In this article, we focus on the almost-exclusively rural 296 precincts for which reliable social network data are available (see network construction details below). The 17 municipalities containing this final sample of precincts are shown in blue in Figure 1. Of these, 4 were governed by the PAN, 12 by the PRI, and 1 by the Citizen's Movement. The summary statistics in Table 1

¹⁹Electoral precincts contain multiple polling stations, which must all be located in the same or adjacent buildings; voters are split alphabetically between polling stations (Cantú 2014).

Table 1: Precinct-level comparison of 2010 Census characteristics between our sample and the nation

	Ϋ́	Final sample		Na	Nationwide	
	Observations	Mean	Std. dev.	Observations	Mean	Std. dev.
Population	296	1,592.43	1,177.9	66,740	1,683.20	1,878.04
Population density (population per 1km^2)	296	187.79	324.7	65,757	6,245.74	8,433.68
Share working age	296	0.59	0.04	66,685	0.63	90.0
Average children per woman	296	2.97	0.44	66,740	2.50	0.62
Share indigenous speakers	296	0.08	0.20	66,682	90.0	0.19
Average years of schooling	296	6.03	1.20	66,740	8.27	2.47
Share economically active	296	0.32	0.05	66,685	0.39	0.07
Average occupants per room	296	1.33	0.20	66,740	1.11	0.35
Share of homes with water, drainage, and electricity	296	0.56	0.28	66,681	0.78	0.30
Shares of homes with a television	296	0.84	0.16	66,681	0.90	0.15
Share of homes with internet	296	0.02	0.04	66,681	0.19	0.20

Note: All variables are unweighted.

show that, compared to the national average, this sample has a lower population density and is less economically developed.

Provision of information on incumbent malfeasance

Our informational treatment, which was designed in partnership with the non-partisan transparency non-government organization (NGO) Borde Político, sought to inform voters of ASF audit report outcomes for their municipality. We provided citizens with information about either the share of FISM expenditures that did not benefit the poor *or* the share of unauthorized FISM expenditures. Figure 2 shows a sample leaflet from the municipality of Guanajuato. The leaflet explains that the municipal government received 29.2 million pesos from the FISM fund to spend on social infrastructure projects benefiting the poor, and that (in this case) 28% of funds were spent on projects that did not benefit the poor. Figure 3 shows the distribution of reported malfeasance in our final sample of precincts. To minimize the risk that the information was perceived as political propaganda, the leaflet emphasized Borde Político's non-partisan status and explained the data source, referred to the government rather than particular parties, and used black and white to avoid colors associated with particular political parties.

Although this core information was constant across treatment conditions, we also subtly varied the mode of information dissemination along two dimensions. First, in some precincts we provided a comparison with the average malfeasance of incumbents from different parties in the state. Second, to facilitate common knowledge about the information treatment, leaflet delivery was accompanied by a loudspeaker announcing the information's dissemination. There is no evidence that either treatment variant influenced voters, ²⁰ so we henceforth pool all information treatments. As discussed below, the lack of differential effects between treatment variants suggests that information provision serves primarily as a coordinating device in more-connected precincts.

²⁰Tables A8-A17 in the Online Appendix show no consistent differential effects by network connectedness for either treatment variant.



Figure 2: Example of local information leaflet in Salamanca, Guanajuato

Treatments were randomly assigned using a block randomization procedure in which four precincts from blocks containing six or seven precincts received an information treatment. Blocks include only rural or only urban precincts from within a particular municipality, and were otherwise assigned to maximize within-block similarity.²¹ Within our 53 predominantly rural blocks, malfeasance information pertains to the same municipal incumbent party for all precincts within a block. Table A1 in the Online Appendix shows that receiving an information treatment remains well balanced across precinct- and individual-level covariates for our subsample where reliable social network data are available. This indicates that the sample restriction maintains the random-

²¹Precinct similarity was defined by 23 social, economic, demographic, and political variables. Blocks were created using the R package blockTools, which sequentially creates the most similar blocks possible. Excess, least similar, precincts were discarded.

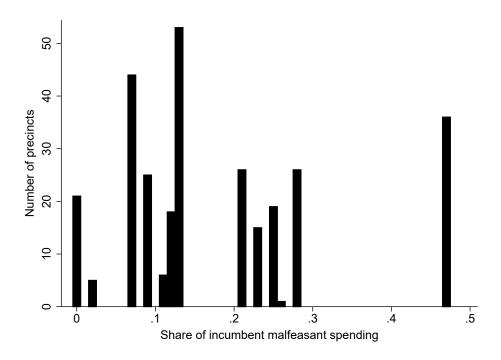


Figure 3: Distribution of incumbent malfeasance in our final sample

ization.

In each treated precinct, up to 200 leaflets were delivered to households by hand during the month before the election—either in person, or left in a mailbox or taped to the door if nobody was home—on behalf of Borde Político. Delivery occurred with few problems.²² The exact locations where leaflets were delivered were logged, enabling enumerators to only visit leaflet recipients in treated precincts to administer the post-election survey.

Measuring network connectedness

A key challenge for researchers studying social networks is accurately mapping ties between individuals (Chandrasekhar and Lewis 2016). We address this challenge by using family ties to construct individual-level networks, which are aggregated to produce precinct-level proxies for a

²²Some leaflets were delivered to voters outside the precinct; poor road conditions also prevented us from reaching one precinct. We focus on intent-to-treat estimates throughout.

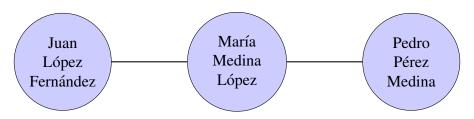


Figure 4: Example of three linked individual Prospera beneficiaries

precinct's connectedness. Unlike other societies, where friends and colleagues represent the primary sources of social interaction (e.g. Alt et al. 2017), extended families capture a substantial component of social interaction in rural Mexico, as noted above.

Following Angelucci et al. (2009), we exploit Spanish naming conventions to link individuals from the list of Prospera beneficiaries. Prospera is a major nationwide conditional cash transfer program (previously called Oportunidades, and based on Progresa), that provides cash to around seven million impoverished beneficiaries in exchange for meeting school attendance and health requirements for their children. We obtained the list of individual Prospera beneficiaries and their localities for the first quarter of 2017 from catalogo.datos.gob.mx. Like other Spanish-speaking countries, Mexicans typically have two last names: a paternal last name passed on by their father and a maternal last name passed on by their mother.

We denote a node as an individual Prospera beneficiary, and define two nodes as connected if they share at least one last name *and* reside in the same precinct. As illustrated in Figure 4, a beneficiary named Juan López Fernández is connected to a second beneficiary named María Medina López, who indirectly connects Juan López Fernández to Pedro Pérez Medina. While our baseline specifications consider individuals as nodes, we show that our findings are robust to defining family names as nodes instead.²³

To link the localities of Prospera beneficiaries to electoral precincts, we use 2010 Census data on the spatial distribution of all individuals living in each locality and the boundaries of electoral

²³This procedure is explained in section A.12 in the Online Appendix.

precincts. The procedure explained in section A.2 in the Online Appendix ensures that Prospera beneficiaries are only used to characterize social networks when there is a sufficiently large voter overlap between their localities and an electoral precinct. Ultimately, this procedure yielded maps of linked individuals for 296 predominantly rural precincts containing 95,199 beneficiaries.

This approach to mapping social networks is appropriate for the rural precincts that we examine. First, because 31% of registered voters in our final sample of precincts are Prospera beneficiaries, our network maps are relatively comprehensive. While the use of sampled networks can upwardly bias estimates from network-level regressions due to non-classical measurement error, this bias declines dramatically once sampling rates reach 30% (Chandrasekhar and Lewis 2016). Second, since rural communities are generally more tight-knit and experience lower levels of migration than urban areas, a shared surname in a rural area is more likely to indicate a genuine family tie. Nevertheless, like most network studies, there remains a risk of measurement error arising from false or missing connections between individuals. Fortunately, measurement error is likely to be reduced by aggregating our network measures at the precinct level, and there is little reason to believe that common surnames producing false ties are correlated with political behavior (e.g. Cantú 2014), or that political behavior is systematically associated with the probability of within-community marriage. To further mitigate the concern that the results reflect spurious ties, we control for the share of Prospera beneficiaries sharing a common surname as a robustness check.

To test our hypotheses, we use the network data to construct the two aforementioned precinct-level measures of network connectedness—average degree and the largest eigenvalue of the adjacency matrix describing the network. We standardize both measures to facilitate interpretation. Despite differences in their definitions, the high correlation suggests that these measures capture a similar underlying dimension, as our model assumed. Figures A1 and A2 in the Online Appendix provide examples of two similarly-sized networks that vary significantly in their average degree and largest eigenvalue, respectively. Figure 5 shows the distribution of network connectedness in

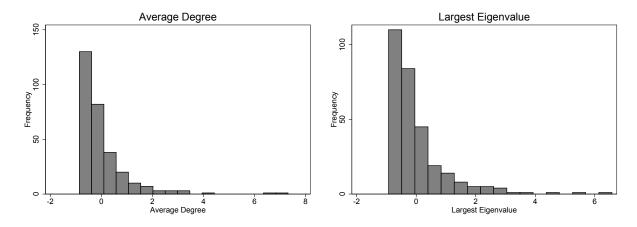


Figure 5: Histogram of (standardized) measures of network connectedness

our sample.

We validate that these measures of network connectedness indeed capture characteristics of the locality that are likely to support voter coordination by matching our network measures to survey data from the 2006 and 2011 National Social Capital Surveys (ENCAS).²⁴ The two cross-sectional ENCAS waves comprise 219 questions gauging different aspects of community life and include a special module for respondents who identify themselves as Prospera beneficiaries. Our main outcome—an index of overall community connectedness—is based on sub-indices capturing two aspects of connectedness: participation and efficacy.²⁵ The participation index is composed of up to three variables: participation in social organizations, participation in social activities with other Prospera beneficiaries (if a Prospera beneficiary), and informal associations with other Prospera beneficiaries (if a Prospera beneficiary). The efficacy index is composed of up to four variables: perceived influence, cooperation, problem-solving involvement (if a Prospera beneficiary), and problem-solving experience. Due to the rural nature of our final sample, we restrict attention to the 376 rural localities across the country sampled in the ENCAS, and construct family networks of individual beneficiaries at the locality level comprising almost a million individuals.

²⁴These surveys were jointly administered by the Secretary of Social Development and the United Nations Development Program.

²⁵Section A.1 in the Online Appendix details all variables constituting these sub-indices.

Table 2: Correlation between locality-level network connectedness measures and locality-level community connectedness

		munity Iness index		ipation lex	Effic ind	•
	(1)	(2)	(3)	(4)	(5)	(6))
Average Degree	0.039**		0.041**		0.047***	
	(0.015)		(0.018)		(0.017)	
Largest Eigenvalue		0.036**		0.040**		0.042**
		(0.015)		(0.019)		(0.018)
Observations	2,267	2,267	2,206	2,206	2,267	2,267
Outcome range	[0,2.25]	[0,2.25]	[0,1]	[0,1]	[0,3]	[0,3]
Outcome mean	0.74	0.74	0.13	0.13	1.32	1.32
Outcome std. dev.	0.32	0.32	0.28	0.28	0.49	0.49
Network measure mean	0.00	0.00	0.00	0.00	0.00	0.00
Network measure std. dev.	1.00	1.00	1.00	1.00	1.00	1.00

Notes: All specifications are estimated using OLS. Both measures of network connectedness are standardized. Standard errors clustered by municipality are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 2 reports a strong positive correlation between average degree and the largest eigenvalue and the community connectedness index, as well as the participation and efficacy sub-indices. In all instances, these associations are statistically significant and suggest that our network measures based on family ties among Prospera beneficiaries meaningfully capture broader features of communal life that may help sustain cooperation and coordination in political behavior. By contrast, we show in Table A2 in the Online Appendix that other common network metrics—such as average clustering, average path length, closeness, and link density²⁶—are *uncorrelated* with the community connectedness index. For this reason, we focus throughout on our two theoretically-driven measures of network connectedness that positively correlate with proxies for the strength of social ties and coordination capacity—average degree and largest eigenvalue.

²⁶While link density could, in principle, be correlated with average degree, the sample correlation is only 0.21.

Outcomes

We use two data sources for our main outcomes: official electoral returns and a survey we conducted in the three weeks following the election. First, we use precinct-level election results from state electoral institutes to measure the incumbent party's vote share, both as a share of those that turned out and as a share of registered voters in the precinct. Second, precinct-level electoral outcomes are supplemented by individual-level survey data gauging beliefs about different parties, engagement with the treatment, and coordinated vote choices. These variables, which test the central mechanisms underpinning the model, are introduced later on when we present evidence on mechanisms. We conducted surveys with ten randomly sampled voters who received a leaflet in all treated precincts, and ten surveys of randomly selected voters in one control precinct per block.²⁷

Empirical strategy

To test hypotheses H1, H2, and H3, we estimate baseline specifications of the following form:

$$Y_{pbm} = \beta_1 Information \ provision_{pbm} + \beta_2 Network_{pbm}$$
$$+ \beta_3 \Big(Information \ provision_{pbm} \times Network_{pbm} \Big) + \mu_{bm} + \varepsilon_{pbm}, \tag{9}$$

where Y_{pbm} is an outcome for electoral precinct p within randomization block b in municipality m. For individual-level survey outcomes, Y_{ipbm} includes an i subscript. $Information\ provision_{pbm}$ and $Network_{pbm}$ are, respectively, a randomized precinct-level information provision indicator and one of our two measures of network connectedness. The block fixed effects, μ_{bm} , adjust for the differential treatment assignment probabilities across blocks arising from different block sizes, and enhance efficiency by exploiting variation in treatment assignment only within blocks of sim-

²⁷Sampling in control precincts matched treatment dissemination to avoid differences between treated and control survey frames. The individual-level balance tests in Table A1 in the Online Appendix support this.

ilar precincts. Standard errors are clustered at the municipality-treatment level, and precinct-level observations are weighted by the share of registered voters that received a leaflet (or would have received a leaflet, among control precincts). Additional specifications control for the interaction between information provision and the following (standardized) variables that could potentially confound the interaction between information provision and network connectedness: (log) population density; an urban indicator; an index of socioeconomic development; the distance from the precinct's center to the municipality head; the share of Prospera beneficiaries; and the PAN, PRD, and PRI, and incumbent vote shares in 2012.

Since we are principally interested in how social networks moderate the effects of providing voters with information about incumbent performance, our main coefficient of interest is β_3 . This captures the heterogeneous effect of information provision by network connectedness. Given that voters generally perceive challenger parties to be less malfeasant than the incumbent party, the model's prediction in H1 implies that $\beta_3 < 0$. In other words, provision of information concerning incumbent malfeasance should have a decreasing effect on incumbent party vote share as network connectedness increases. In contrast, following H2 and H3, we expect $\beta_3 > 0$ for outcomes related to engagement with and coordination around the information. This implies that voters' reaction to the treatment should increase with network connectedness.

To test H4, we include a further interaction with the share of registered voters that received the information in equation (9). In such regressions, we expect that the share receiving the leaflet would accentuate the interaction between information provision and network connectedness, because a greater share of the network is aware of our treatment leaflet and that other voters also received it.

Results

We now present our main finding that providing information about an incumbent's performance can cause voters to coordinate around parties believed to be less malfeasant.

Precinct-level electoral returns

We first test H1 and H4 by examining whether networks moderate the effect of providing information about incumbent malfeasance on precinct-level incumbent party electoral support in a manner consistent with voter coordination. The results are shown in Table 3.

Before turning to our main hypotheses, we first confirm that the baseline finding in Arias et al. (2018)—that voters, *on average*, reward incumbent parties after learning of the malfeasance revealed by the ASF's audit—also holds in our predominantly rural sample. Indeed, column (1) of panel A shows that information provision increases the incumbent party's vote share, as a share of turnout, by an average of 3.8 percentage points. Panel B shows that incumbent vote share, as a share of registered voters, similarly increases by 2.1 percentage points. Moreover, Table A3 in the Online Appendix shows that information provision does not significantly affect turnout. These findings are consistent with the explanation that audit report information caused voters to positively update their posterior beliefs about the incumbent party relative to challenger parties or to reduce their uncertainty about the incumbent party, and in turn cease voting for the challenger party or start voting for the incumbent party. This further implies that, if the predominant role of networks is to help diffuse information within a precinct, we should expect to observe a positive interaction with network connectedness.

Our first main finding pertains to H1, which hypothesizes that providing information should reduce the incumbent party's vote share by coordinating voters against the incumbent party in precincts with high levels of network connectedness. As hypothesized, the interaction between information provision and average degree in column (2) of panels A and B shows that information

Table 3: Effect of information provision on incumbent party vote share, by network connectedness

	Weight (1)	ted by share c (2)	Weighted by share of population that received leaflets (2) (3) (4) (5)	that received 1 (4)	eaflets (5)	9	()	Unweighted (8)	(6)	(10)
Panel A: Incumbent party vote share (Information provision	vote share (share of turnout) 0.038*** 0.	out) 0.038***	0.044***	0.038***	0.043***	0.029***	-0.006	0.123**	-0.005	0.023
imes Average Degree	(0.007)	(0.005)	(0.009)	(0.005)	(0.009)	(0.006)	(0.016) $0.052**$	(0.053) -0.009	(0.015)	(0.028)
imes Largest Eigenvalue		(0.008)	(0.011)	-0.027***	-0.034***		(0.020)	(0.046)	0.048**	0.018
× Share Received				(0.000)	(0.010)		0.041**	-0.263**	0.040**	0.016
\times Average Degree \times Share Received							(0.019) -0.079***	-0.020	(0.018)	(0.030)
imes Largest Eigenvalue $ imes$ Share Received							(0.019)	(0.050)	-0.079*** (0.018)	-0.067 (0.051)
Outcome range	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]
Control outcome mean Control outcome std. dev.	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
≥	vote share (share of registered voters)	ered voters)								
Information provision	0.021***	0.022***	0.024***	0.022***	0.024**	0.014***	-0.015*	0.046*	-0.015*	-0.000
imes Average Degree	(0.004)	(0.003) -0.011***	(0.005) -0.014*	(0.004)	(0.006)	(0.003)	0.030***	(0.024) -0.003 (0.026)	(0.007)	(0.015)
× Largest Eigenvalue		(†20:0)	(100:00)	-0.013***	-0.018**		(600:0)	(070:0)	0.029***	0.016
× Share Received				(0.003)	(0.007)		0.034***	-0.097*	(0.009) $0.034***$	(0.021) 0.023
\times Average Degree \times Share Received							(0.010)	(0.050)	(0.010)	(0.018)
imes Largest Eigenvalue $ imes$ Share Received							(0.009)	(0.028)	-0.043***	-0.041* (0.023)
Outcome range	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]
Control outcome mean Control outcome std. dev.	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09	0.19 0.09
Observations	296	296	296	296	296	296	296	296	296	296
Network measure mean		0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
Network measure std. dev.		1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00
Share Received mean	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Share Received std. dev.	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Interactive controls			>		>			>		>

Notes: All specifications include block fixed effects and are estimated using OLS. Observations in columns (1)-(5) are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts); observations in columns (6)-(10) are unweighted. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3), (5), (8), and (10) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. Standard errors clustered by municipality-treatment are in parentheses. *p < 0.1, ** p < 0.05, *** p < 0.01.

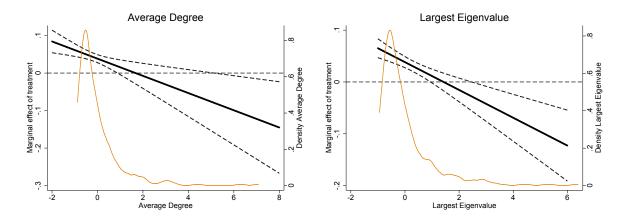


Figure 6: Effect of information treatment on incumbent party vote share (share of turnout) across precincts with varying network connectedness (95% confidence interval)

Notes: Estimates derive from columns (2) and (4) in Table 3. Both measures of network connectedness are standardized. The gold density plot represents the sample distribution of the corresponding network connectedness measure.

provision has a significantly smaller positive effect in precincts characterized by a higher average degree. Column (4) shows that a similar relationship holds when using the largest eigenvalue to measure network connectedness. These negative coefficients are consistent with social network connectedness reducing incumbent support by coordinating voters against incumbents generally perceived to be more malfeasant than challengers. This contrasts with the positive interaction we would expect to observe if networks were primarily serving to diffuse information, given that information dissemination led voters to, on average, reward incumbent parties in this context.

The magnitudes of these heterogeneous effects, which are statistically significant at the 5% level, are also sizable. A one standard deviation increase in network connectedness reduces the positive effect of information provision by between 2.3 and 3.4 percentage points (or 7 and 10% of the incumbent vote share). Figure 6 displays the marginal effect of information provision for each network connectedness measure. Both graphs indicate that the largely positive effects of information provision on incumbent support in the least connected precincts are fully offset in sufficiently connected precincts.

Columns (7)-(10) test H4 by examining whether the magnitude of the negative interaction shown above also increases with the share of voters within the precinct who received the information. Consistent with voter coordination, whether through explicit discussion and agreement or tacit coordination, the negative triple interactions show that the largest negative effects of information provision occurred in precincts where a substantial fraction of voters received the information. The estimates imply that, for a given level of network connectedness, increasing the share that received the information treatment from 0% to 100% would decrease the incumbent party's vote share (as a share of turnout) by around 7 percentage points. This casts further doubt on the possibility that information dissemination drives the decline in incumbent party support among the most-connected networks. Nevertheless, to more directly establish that these results are indeed driven by voter coordination, we next examine the mechanisms using survey data.

Individual-level evidence of the voter coordination role of networks

If networks indeed facilitate voter coordination around the provision of incumbent performance information, we expect voters' engagement with, and their coordination around, information provision to be greater in more connected precincts. We test these claims in hypotheses H2-H4 using our post-election survey. While we focus on indexes of voters' engagement and coordination that average across multiple indicators, section A.7 in the Online Appendix reports similar results for the indexes' constitutive items.

Voters in more-connected networks engage more with information provision

To test H2, we create an additive index of voters' engagement with the information provided. This index includes four (standardized) indicators of whether voters: (1) report that they remember receiving the information leaflet, (2) report having read the leaflet, (3) correctly recall the types of spending to which the leaflet pertained, and (4) declare that the leaflet influenced their vote. The

index sums each item, with a Cronbach's alpha of 0.83.²⁸ Panel A in Table 4 shows the interaction between information provision and our measures of network connectedness for this outcome. Moreover, to test H4, panel B shows the corresponding estimates when we further interact these variables with the share of registered voters that received the treatment. If engagement with the information provided indeed increases with network connectedness, we should also expect greater effect when the share of the treated population is larger.

Across panel A of Table 4, we find evidence suggesting that in highly connected treated precincts, voters are significantly more likely to report engaging with the information. On its own, the treatment induces more than a standard deviation increase, on average, in engagement with the treatment among those who received a leaflet. A standard deviation increase in network connectedness implies that the effect of information provision becomes one quarter of a standard deviation larger. Moreover, panel B suggests that such effects are driven by precincts where large shares of community members received the treatment.²⁹

Although networks' role in facilitating voters' engagement with the information is not unique to coordination mechanisms, these findings nevertheless demonstrate that information provision generated the responses likely to be necessary for voter coordination.

Network connectedness facilitates voter coordination

We next test H3 by examining whether networks facilitate coordination around the treatment information. To do so, we again compute an additive index containing five (standardized) indicators of coordination, namely whether voters: (1) identified that a large proportion of their community also received the information, (2) discussed the leaflet with other voters, (3) coordinated their vote for a particular party during this discussion, (4) changed their vote due to this discussion, and (5)

²⁸Tables A18 and A19 in the Online Appendix show similar results using inverse covariance weighting (ICW scales).

²⁹Tables A4 and A5 in the Online Appendix replicate panels A and B of Table 4, respectively, breaking the index down into its constitutive items.

Table 4: Effect of information provision on voters' engagement with the information, by network connectedness

	Ind	lex of voters' e	engagement wi	th the informat	tion
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	1.360***	1.384***	1.349***	1.381***	1.348***
	(0.127)	(0.108)	(0.081)	(0.112)	(0.085)
× Average Degree		0.415***	0.298*		
		(0.144)	(0.163)		
× Largest Eigenvalue				0.392**	0.288*
				(0.154)	(0.153)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	1.360***	1.003***	0.748**	0.963***	0.754**
-	(0.127)	(0.214)	(0.308)	(0.208)	(0.295)
× Share Received		0.497*	0.706	0.555**	0.689
		(0.247)	(0.498)	(0.236)	(0.476)
× Average Degree		0.094	-0.517		
		(0.254)	(0.371)		
× Average Degree × Share Received		0.394	1.157**		
		(0.252)	(0.468)		
× Largest Eigenvalue				0.009	-0.582
				(0.277)	(0.391)
× Largest Eigenvalue × Share Received				0.492*	1.203**
				(0.265)	(0.473)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls			\checkmark		\checkmark

changed their vote since this discussion led them to think that other voters would change their vote. This array of variables captures both explicit and tacit coordination; the Cronbach's alpha is 0.75. We again examine the heterogeneous effects of information provision by network connectedness.

The results in Table 5 demonstrate that information provision served as an effective coordi-

Table 5: Effect of information provision on voters' coordination around the information, by network connectedness

	Inde	x of voters' co	ordination aro	und the inform	ation
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	0.689***	0.707***	0.687***	0.705***	0.689***
	(0.112)	(0.096)	(0.087)	(0.098)	(0.090)
× Average Degree		0.305**	0.220*		
		(0.122)	(0.115)		
× Largest Eigenvalue				0.291**	0.203*
				(0.127)	(0.103)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	0.689***	0.203	0.060	0.149	0.015
	(0.112)	(0.130)	(0.252)	(0.120)	(0.232)
× Share Received		0.658***	0.766**	0.736***	0.827**
		(0.146)	(0.356)	(0.132)	(0.323)
× Average Degree		0.020	-0.077		
		(0.174)	(0.216)		
× Average Degree × Share Received		0.341*	0.326		
		(0.196)	(0.215)		
× Largest Eigenvalue				-0.080	-0.200
				(0.171)	(0.228)
\times Largest Eigenvalue \times Share Received				0.473**	0.508**
				(0.172)	(0.230)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls			\checkmark		\checkmark

nation device for voters. Again, the lower-order effect of information provision indicates that it significantly increased coordination on average—by more than half a standard deviation in the index among control respondents. The heterogeneous effects further show that such coordination was substantially greater in precincts with high network connectedness, using either measure. In

particular, the estimates in panel A show that a standard deviation increase in network connectedness increases the average effect of information provision by almost a further 30%. Panel B also suggests that such effects are driven by precincts where a larger share of the community received the leaflet. Taken together, these estimates suggest that information provision facilitated coordination, especially in highly-connected precincts. Tables A6 and A7 in the Online Appendix break the index down into its constitutive items, and show that information provision increased measures of both tacit and explicit coordination as a response to the treatment. Indeed, voters in treated precincts with more connected networks are significantly more likely to report both that they were aware that many others received the leaflet and that discussion with others led themselves and other voters to change the party that they voted for. Our findings are thus consistent with explicit interpersonal agreements and higher-order beliefs both driving coordination against the incumbent party.

Combined with the findings in Table 4, our survey data show that information provision stimulated voter engagement with information provided and coordination around it in more-connected precincts. Table 3 shows reduced support in those same precincts for incumbents who are, on average, perceived to be more malfeasant than challengers in this empirical context.

Robustness checks

We buttress our precinct- and individual-level findings using a variety of robustness checks. We first address the concern that our main findings are confounded by alternative explanations unrelated to the role of social networks. We then address alternative—i.e. non-coordination—interpretations of our finding that network connectedness moderates the effects of information provision on support for incumbent parties.

Potential confounds

First, we show that the results are robust to controlling interactively for variables that could instead explain the heterogeneous effects of information provision. In particular, we simultaneously include controls to address four key sources of potential bias: (1) we include (log) population density, an indicator of urban precinct and the distance from the precinct centroid to the municipal city center to ensure that the results do not simply reflect differences in responses to malfeasance revelations between more and less rural areas; (2) we include the share of Prospera beneficiaries to address the concern that the results reflect the availability of network data or the incidence of poverty; (3) we include an index capturing socioeconomic development to control for differential responses to information across richer and poorer and more- and less-educated respondents, which could also correlate with network connectedness; and (4) we include linear controls for the PAN, PRD, PRI, and incumbent vote shares in 2012 to address the concern that network connectedness is correlated with partisanship (Sinclair 2012), which could affect how voters process the information provided or induce ceiling or floor effects.³⁰ As columns (3) and (5) in Tables 3-5 show, the lower effects of information provision on support for the incumbent party, engagement with the information, and coordination around the information in more-connected precincts do not appear to reflect such confounds. Columns (1) and (2) of Table 6 further show that the survey results are robust to including individual-level interactive controls for age, gender, education, and income. To save space, we only present the results from our baseline specifications for our two network measures; complete results analogous to Tables 3-5 are provided in Tables A20-A30 in the Online Appendix.

Second, our results are not driven by our approach to network construction. Given that links in our networks are defined by family names, an alternative approach to calculating network statistics would be to treat families—rather than individuals—as nodes. Encouragingly, the point estimates

³⁰See section A.1 in the Online Appendix for index construction details.

Table 6: Robustness checks against potential confounds

	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Incumbent party vo	te share (sh	are of turno	out)			
Information provision			0.035***	0.037***	0.039***	0.039***
			(0.005)	(0.005)	(0.006)	(0.006)
× Average degree			-0.029***		-0.020**	
			(0.010)		(0.009)	
× Largest eigenvalue				-0.026***		-0.024***
				(0.007)		(0.007)
Observations			296	296	296	296
Panel B: Index of voters' eng	0					
Information provision	1.389***	1.386***	1.409***	1.400***	1.382***	1.378***
	(0.116)	(0.119)	(0.130)	(0.116)	(0.103)	(0.105)
× Average degree	0.384***		0.369**		0.382***	
	(0.148)		(0.161)		(0.141)	
× Largest eigenvalue		0.357**		0.431***		0.349**
		(0.158)		(0.154)		(0.146)
Observations	2,218	2,218	2,218	2,218	2,218	2,218
Panel C: Index of voters' coo						
Information provision	0.705***	0.702***	0.718***	0.719***	0.705***	0.701***
	(0.094)	(0.096)	(0.123)	(0.105)	(0.090)	(0.089)
× Average degree	0.279**		0.213		0.275**	
	(0.115)		(0.129)		(0.111)	
× Largest eigenvalue		0.264**		0.306**		0.254**
		(0.120)		(0.131)		(0.112)
Observations	2,218	2,218	2,218	2,218	2,218	2,218
Individual-level controls	✓	✓				
Families as network nodes			\checkmark	\checkmark		
Interactive control for share					\checkmark	\checkmark
of high-frequency surnames						

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. All observations in panel A are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts). Both measures of network connectedness are standardized. Individual-level controls are age, gender, education, and income, and are interacted with information provision; specifications including individual-level controls are not relevant for the electoral outcomes in panel A. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

in columns (3) and (4) in Table 6 show that these two approaches yield similar results. Another potential concern is that our measures of network connectedness reflect common surnames, such as López, rather than genuine family ties; accordingly, the results could be spurious. Although it is not clear why the effects of information provision would be lower in precincts containing clusters of unrelated individuals with shared surnames, we nevertheless examine the sensitivity of our findings to this concern by controlling for the interaction between information provision and the share of Prospera beneficiaries within the precinct with a surname that represents 1% or more of all Prospera beneficiaries.³¹ Columns (5) and (6) show that our main findings remain robust.

Third, another possibility is that our survey-level results—which provide the most direct evidence of voter coordination—could reflect social desirability bias. In particular, voters may seek to please enumerators by falsely claiming to be politically active in treated precincts. Such experimental demand effects could be accentuated in connected networks. To address these concerns, we use self-reported turnout in 2012 as a placebo test: previous turnout should not be affected by information provision, but if social desirability bias is present then treated respondents may nevertheless report previously turning out after receiving the treatment. Indicating that experimental demand is unlikely to be driving our survey findings, Table 7 shows that neither information provision, nor its interaction with network connectedness, predict self-reported turnout in the 2012 election.

Alternative interpretations

The preceding checks support our key findings with respect to the interaction between information provision and network connectedness. However, even taking the moderating effect of networks as given, changes in vote share could still reflect a network-based channel other than coordination

³¹The 17 most common names are, in descending order of frequency: Hernández, López, García, Martínez, Pérez, González, Sánchez, Cruz, Ramírez, Gómez, Rodríguez, Morales, Jiménez, Vazquez, Flores, Reyes, and Díaz. Only Reyes and Díaz fall just below 1%, but are included because the names are more prevalent than the 18th most common name (Méndez, with 0.6%).

Table 7: Effect of information provision on self-reported voters turnout in 2012, by network connectedness

		Self-rep	orted 2012	2 turnout	
	(1)	(2)	(3)	(4)	(5)
Information provision	-0.008	-0.008	-0.017	-0.008	-0.017
	(0.020)	(0.019)	(0.017)	(0.019)	(0.017)
× Average Degree		-0.011	-0.021		
		(0.017)	(0.028)		
× Largest Eigenvalue				-0.002	-0.006
				(0.017)	(0.025)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	{0,1}	{0,1}	{0,1}	{0,1}	{0,1}
Control outcome mean	0.72	0.72	0.72	0.72	0.72
Interactive controls			✓		✓

around less malfeasant parties. We address this concern by seeking to dismiss three plausible alternative interpretations that rely on individual, rather than coordinated, action: that networks enhance belief updating by facilitating information diffusion, within or across precincts, and that networks encourage further information acquisition.

The most important alternative interpretation is that connected social networks could help diffuse incumbent malfeasance information *within* a precinct without inducing voter coordination. However, three features of this interpretation are inconsistent with the data. First, in contrast with coordination around the less malfeasant party—which is generally challengers, rather than incumbents, in this sample—diffusion through social networks should increase the number of voters who receive the information and respond similarly to it. We should then expect the positive effect of information provision on incumbent party vote share to be greater in more-connected precincts. As noted above, Table 3 clearly shows that—consistent with the coordination mechanism—the

opposite holds.

Second, if information diffusion were the dominant force driving our findings, then we should find that more-connected networks accentuate the voter updating proposed in equation (1) of our model.³² In contrast, coordination will generally be far less sensitive to how information signals relate to prior beliefs—particularly in cases like ours, where the extent of belief updating is relatively limited—because a switch in coordination requires that voters reverse their perception of which party is less malfeasant, rather than update on the margin. We test this implication of the information diffusion channel by examining how voters' posterior beliefs about the incumbent party's level of malfeasance vary with information provision, information content, prior beliefs and updating,³³ as well as network connectedness. Arias et al. (2018) show that voters indeed update their perceptions of parties based on the information provided: they believe incumbents to be more malfeasant when more funds were spent in an unauthorized manner or not spent on the poor than voters anticipated, and ultimately adjust their vote choices accordingly. Column (1) of Table 8 shows that this broadly continues to hold in our rural subsample.

However, columns (2)-(5) report no systematic evidence that the interaction effect of information provision with voters' prior beliefs, voters' updating, or the content of the information provided, on voter perceptions of the incumbent party's malfeasance (where larger values on this five-point scale represent greater perceived malfeasance) differed in more-connected precincts. Although network connectedness generally does not significantly moderate belief updating, the few statistically significant triple-interaction coefficients in panel D point in the opposite direction to that predicted by the information diffusion mechanism.³⁴ Thus, while voters update their beliefs

³²Even though we only sample voters in treated precincts where leaflets were delivered, this prediction holds as long as *some* recipients did not receive or properly engage with the information. Table 4 suggests that this is likely to be the case.

³³These variables, are defined in section A.1 in the Online Appendix.

³⁴Tables A22, A27 and A31 in the Online Appendix further demonstrate that there is no consistent evidence of heterogeneity in belief updating by network connectedness when applying the robustness checks from Table 6. Table A32 in the Online Appendix also shows no systematic effect when we instead focus on the incumbent party voter share (as a share of turnout) as an outcome.

Table 8: Effect of information provision on posterior beliefs, by information content, prior beliefs, and network connectedness

		sterior beliefs a			
	(1)	(2)	(3)	(4)	(5)
Panel A: Network connectedness only					
Information provision	-0.002	-0.012	-0.002	-0.011	-0.002
•	(0.052)	(0.046)	(0.029)	(0.043)	(0.029)
× Average Degree	()	-0.067	-0.095	((/
0 0		(0.054)	(0.072)		
× Largest Eigenvalue		` ′	, ,	-0.076	-0.092
				(0.048)	(0.067)
Observations	1,969	1,969	1,969	1,969	1,969
Panel B: Prior and network connectedness					
Information provision	-0.002	-0.018	0.130***	-0.016	0.124**
F	(0.052)	(0.049)	(0.045)	(0.045)	(0.046)
× Prior	(0.052)	-0.026	0.063	-0.029	0.057
× 11101		(0.067)	(0.089)	(0.063)	(0.091)
× Average Degree × Prior		0.044	0.051	(0.003)	(0.071)
A THOMAS DOGICO A THOM		(0.093)	(0.110)		
× Largest Eigenvalue × Prior		(0.033)	(0.110)	0.040	0.049
A Largest Eigenvalue A FIIOI				(0.091)	(0.107)
				(0.091)	(0.107)
Observations	1,969	1,910	1,910	1,910	1,910
Prior mean	0.06	0.06	0.06	0.06	0.06
Prior std. dev.	0.67	0.67	0.67	0.67	0.67
Panel C: Negative updating and network conr	nectedness				
Information provision	-0.002	-0.032	0.178**	-0.032	0.171**
information provision	(0.052)	(0.060)	(0.075)	(0.057)	(0.078)
× Negative updating	(****=)	0.020	-0.084	0.021	-0.081
7. Tregative aparating		(0.053)	(0.065)	(0.050)	(0.067)
× Average Degree × Negative updating		-0.021	-0.062	(0.050)	(0.007)
A riverage Degree A riegative updating		(0.078)	(0.127)		
× Largest Eigenvalue × Negative updating		(0.070)	(0.127)	-0.022	-0.053
A Largest Ligenvalue A regative updating				(0.080)	(0.129)
Observations	1,969	1,910	1,910	1,910	1,910
Negative updating mean	0.79	0.79	0.79	0.79	0.79
Negative updating std. dev.	0.81	0.81	0.81	0.81	0.81
Panel D: Malfeasence spending and network of	connectedness				
Information provision	-0.002	-0.001	-0.099	-0.002	-0.093
	(0.052)	(0.092)	(0.083)	(0.086)	(0.082)
× Malfeasance Spending		-0.070	0.671	-0.078	0.599
		(0.276)	(0.427)	(0.256)	(0.428)
× Average Degree × Malfeasance spending		-0.832*	-1.698***		
		(0.413)	(0.603)		
× Largest Eigenvalue × Malfeasance Spending				-0.742*	-1.753**
				(0.392)	(0.565)
Observations	1.969	1.969	1.969	1.969	1.969
	/	/	,	,	,
Malfeasant spending mean	0.18 0.14	0.18 0.14	0.18 0.14	0.18 0.14	0.18 0.14
Malfeasant spending std. dev.					
Outcome range	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35
Interactive controls			\checkmark		✓

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panels B and C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, *** p < 0.05, *** p < 0.01.

based on the new information, such belief updating does not appear to be accentuated by greater network connectedness in this context.

Third, the treatment variant results in Tables A13-A17 in the Online Appendix further suggest that information diffusion within precincts does not drive the results. Most notably, the consistent lack of differential effects between the treatment variants indicates that all forms of treatment served as similar focal points for coordination. Within networks, this suggests that information provision principally served as a coordination device, rather than a source of specific information. Furthermore, the finding that benchmarked information—which generally showed challengers to be outperforming incumbents, which could in principle have been reinforced by networks' diffusion function—did not elicit different responses from treated voters that only received information about their incumbent implies that voters did not collectively update from performance comparisons.

A related alternative interpretation suggests that information diffuses *across* precincts. Given that precincts with high levels of network connectedness are often neighbors, information diffusion across neighboring precincts could account for the lower effect of information provision in such precincts by reducing differences in behavior between them. However, Arias et al. (2018) show that precincts that neighbor treated precincts do not exhibit any changes in voting behavior or a greater likelihood of recalling or acting on information provided to their neighbor.

Another possibility is that the discussion of the information induced voters in more-connected networks to acquire further political information. This could result in voters being exposed to unfavorable information (or information framed as such) about the incumbent party through the media, and then deciding—without considering others' vote choices—to reject the incumbent party. We assess this possibility by examining whether voters increase their engagement with politics. The results in Table 9 again offer little support for this alternative interpretation, suggesting that voters in more-connected treated precincts did not become significantly more more likely to consume political news through the media.

Table 9: Effect of information provision on political news consumption, by network connectedness

		Media	consumption	n index	
	(1)	(2)	(3)	(4)	(5)
Information provision	-0.152***	-0.148***	-0.100**	-0.149***	-0.097**
	(0.039)	(0.037)	(0.037)	(0.037)	(0.038)
× Average Degree		0.020	-0.075		
		(0.033)	(0.046)		
× Largest Eigenvalue				0.012	-0.088*
				(0.033)	(0.046)
Observations	2,228	2,228	2,218	2,228	2,218
Outcome range	[-1.5,3.6]	[-1.5,3.6]	[-1.5, 3.6]	[-1.5,3.6]	[-1.5, 3.6]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Interactive controls			✓		✓

Conclusion

This article substantiates the claim that the provision of incumbent performance information can facilitate electoral sanctioning by stimulating voter coordination within social networks. Guided by a simple theoretical model, and leveraging an empirical context in which the effects of networks' coordination and information diffusion roles diverge, we use precinct- and individual-level data to demonstrate that information provision can help voters in more-connected networks to coordinate around less malfeasant candidates. We thus more generally show that, given an effective coordinating device, social networks can play a key role in helping voters pursue potentially superior political outcomes that unconnected voters could not attain.

Our findings suggest that previous studies emphasizing the information diffusion role of net-

works may have underestimated the role that voter coordination can play in electoral behavior. This is because networks' coordination and information diffusion mechanisms are complementary and observationally equivalent in many contexts. A key contribution of this study is to highlight how these mechanisms can be distinguished and demonstrate that coordination plays an important role in voters' responses to information provision. This in no way implies that belief updating arising from information diffusion is not also a key driver of voter behavior (e.g. Alatas et al. 2016; Ames, Baker and Smith 2016; Larson and Lewis 2017; Schaffer and Baker 2015). However, distinguishing between social networks' coordination and diffusion functions can have important implications. For example, NGOs seeking to optimize information dissemination campaigns may wish to design their campaigns to complement opportunities for coordination, e.g. by providing information at (or just prior to) public events or in communities where collective action is common.

Given the potential of coordination to support collective action and participatory democracy more broadly, we must better understand how differences in social structure can complement coordination devices to support such democratic foundations. Beyond information provision, networks could induce similar coordination dynamics following other common signals such as public meetings, protests, media reports, and advertising campaigns. Further research is also required to probe the conditions under which explicit and tacit coordination flourish, the role of leadership in organizing communities, optimal network structures for facilitating coordination, whether and how voters decide which challenger parties to coordinate around when several alternatives exist, and whether it is possible to discourage coordination around bad equilibria that could induce or perpetuate development traps.

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A Appendix

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A.1 Main variable definitions

A.1.1 Experimental data

Information provision is an indicator for precincts receiving the information treatment.

Malfeasant spending is the share of funds spent either on projects not benefiting the poor or on unauthorized projects, as reported in the information treatment. Note that the treatment only reported one of these two shares.

Shared received is the share of voters to whom we delivered a leaflet. In control precincts, we use the share of leaflets delivered to the average treated precinct within a block.

A.1.2 Electoral returns data

Incumbent party vote share (as a share of turnout) in 2012 and 2015 was calculated using official precinct-level electoral returns obtained from each state's electoral institute (through freedom of information requests).

Incumbent party vote share (as a share of registered voters) in 2012 and 2015 was calculated using official precinct-level electoral returns obtained from each state's electoral institute (through freedom of information requests).

Turnout in 2012 and 2015 was calculated using official precinct-level electoral returns obtained from each state's electoral institute (through freedom of information requests).

A.1.3 2010 Census data

The **index of socioeconomic development** is a standardized summative rating scale combining the following precinct-level measures of socioeconomic development: average number of children per woman, share indigenous speakers, average years of schooling, share illiterate, share no schooling, share incomplete primary schooling, share higher education, share without health insurance, average occupants per dwelling, average occupants per room, share non-dirt floor, share toilet at

home, share running water, share drainage, share electricity, share fridge, share washing machine, and share computer. Cronbach's alpha is 0.81.

A.1.4 Post-election survey data

Index of voters' engagement with the information is a standardized summative rating scale combining four (standardized) indicators. One, whether voters report remembering receiving the leaflet. Two, whether they report having read the leaflet. Three, whether they correctly recalled the types of spending the leaflet pertained to. To elicit this, respondents were given as options both types of spending (i.e., non-authorized and not-spent on the poor) as well as options related to unemployment, and public safety information; and the outcome variable takes a value of 1 only where respondents where correct, 0 otherwise. Finally, fourth, whether respondents declared that the leaflet influenced their vote.

Index of voters' coordination around the information is a standardized summative rating scale combining four (standardized) indicators. One, whether voters report believing that a large fraction of their community also received the information. To measure this, we asked respondents their beliefs about how many people in their community received the leaflet, with 5-scale options ranging from 'very few' to 'almost everybody'. To define responses on the upper 3-scales (i.e., 'about half', 'more than half', 'almost everybody') as a large fraction and code them as 1, 0 otherwise. Two, whether voters report having discussed the leaflet with others. Three, whether respondents declared coordinating their vote for a particular party during such discussion. Fourth, whether respondents acknowledged changing their vote due to this discussion. Finally, fifth, whether they reported having changed their vote because this discussion led them to think that other voters would change their vote as well.

Voters' posterior beliefs about incumbent and challenger party malfeasance follow from asking respondents to rate, on a five-point scale from very low (-2) to very high (2), each major party's level of corruption or level of interest in supporting the poor (depending on the measure of malfea-

sance we focused on in that municipality). We then match those perceptions about each major party to each of the incumbents, as well as each of the challengers depending on the definition we consider (see main article for more details). We did not ask explicitly about the MC party, which was the incumbent party only in Apaseo el Alto. Consequently, the 19 precincts from this municipality are dropped from analyses examining prior beliefs.

Prior is the prior belief about incumbent malfeasance, defined at the municipal level as the average posterior belief among the voters surveyed in the control precincts within the same municipality. This was required to deal with the lack of a baseline survey; Arias et al. (2018) defend this approach in detail.

Negative updating is the average change in perceptions about incumbent malfeasance before and after showing the informational leaflets to respondents in a municipality's control precincts.

Self-reported 2012 turnout is an individual's self-reported turnout for the previous municipal election in 2012.

Interest in politics is an indicator for voters who respond that they are, in general, interested in acquiring information about politics.

Media consumption index is an index based on asking respondents how often they follow electoral news over TV, radio, newspapers, and internet and social media, respectively, with possible responses ranging from "never" (1) to "daily" (5). We then took the mean of these four responses to create a standardized individual-level measure of overall media consumption.

A.1.5 2006 and 2011 National Social Capital Surveys (ENCAS)

Participation in social organizations is available for all respondents. The survey question asks: "Which of the following organizations do you belong to?" The options include: participation in neighborhood associations, participation in religious associations, participation in self-help groups, and participation in other associations. Our indicator variable takes the value 1 if a person participates at least in one of these organizations and 0 if they participate in none.

Participation in social activities with other Prospera beneficiaries is only available for beneficiaries of Prospera. The survey question asks: "During this year, have you organized with other Prospera beneficiaries to organize the following activities?" The answers capture organization with other beneficiaries to perform a host of activities: attend municipal offices to file a complaint about a problem, ask for the intervention of a politician, participate in political activities, contact newspapers, perform a denunciation, and demand the right to high-quality education. Our indicator variable takes the value 1 if a person participates at least in one of these activities and 0 if they participate in none.

Informal transactions with other Prospera beneficiaries is only available for beneficiaries. The survey question asks: "Please tell me which of the following activities you perform with other Prospera beneficiaries." The answers include a host of everyday situations in which beneficiaries interact with each other: talking about the household's problems, telling others about discounts at the marketplace, taking care of other people's children, giving clothes or goods as a gift, lending money, giving food, inviting others to parties, asking someone to be the godfather of their children, helping with the harvest, helping to prepare food, telling the family if someone is sick, helping if someone is moving out, and giving someone a ride. Our indicator variable takes the value 1 if a person participates at least in one of these activities and 0 if they participate in none.

Perceived influence measures respondents' perception of their influence in solving problems in the locality. The survey question asks: "How much do you think you and your neighbors can influence authorities so that they do something about the problems of your locality?" The response options are: a lot, much, a little, and nothing.

Cooperation measures the perceived likelihood of cooperation in the respondent's locality. The survey question asks: "If there is a problem in your locality, how likely is that people cooperate to solve it?" The response options are: very likely, somewhat likely, not very likely, and not likely at all.

Problem-solving involvement is only available for beneficiaries of Prospera. The survey question

asks: "In your opinion, what are the three activities that happen more often as a consequence of you being a Prospera beneficiary?" The options include: learning about the problems in the locality, learning how to solve a problem, experiencing support from other beneficiaries, and making demands. Our indicator variable takes the value 1 if a person lists at least one of these activities (as their first, second, or third choice) and 0 if they list none.

Problem-solving experience is a dummy variable measuring whether a respondent participated in solving a problem in the locality in the past 12 months. The survey question reads: "In the last twelve months, did you or a family member participate in solving the problems of your locality?" **Participation index** is a standardized summative rating scale combining three items: participation in social organizations, participation in social activities with other Prospera beneficiaries, and informal transactions with other Prospera beneficiaries.

Efficacy index is a standardized summative rating scale combining four items: perceived influence, cooperation, problem-solving involvement, and problem-solving experience.

Overall community connectedness index is a standardized summative rating scale combining the two topic-indexes, namely the Participation index and the Efficacy index.

A.2 Linking Prospera beneficiaries to electoral precincts

To link the localities of Prospera beneficiaries to electoral precincts, we use 2010 Census data on the spatial distribution of all individuals living in each locality and the boundaries of electoral precincts. If at least 90% of citizens in a locality are located within an electoral precinct, we assign the locality to that precinct. Where this restriction fails to hold, our approach depends on the locality's size: if an unassigned locality represents less than 10% of the precinct population, we exclude Prospera beneficiaries located in the locality from that precinct's network; if an unassigned locality represents more than 10% of the precinct population, as in most urban areas, we exclude the precinct from our sample. This procedure ensures that Prospera beneficiaries are only used to characterize social networks when their locality primarily lies inside a given electoral precinct.

Ultimately, this procedure yielded maps of linked individuals for 296 precincts containing 95,199 beneficiaries. This entailed dropping 382 predominantly urban precincts from the experimental sample due to a lack of reliable network data. Only one precinct in our final sample is classified by INEGI as urban (i.e. contains at least 2,500 inhabitants).

A.3 Construction of precinct-level measures of network connectedness

To define precinct-level measures of network connectedness, let \mathbf{g} be the graph of a precinct network G containing N individuals, and let \mathbf{A} be the $N \times N$ adjacency matrix capturing pairwise links between each individual $j \in G$.

The degree of a node j is defined as the number of neighboring nodes connected to that particular node:

$$n_j(\mathbf{g}) = \#\{k \in G : g_{kj} = 1\} = \#N_j(\mathbf{g}),$$
 (A1)

where $\#N_j$ is the cardinality of j's neighborhood. Intuitively, the average degree of network G—given by $\frac{1}{N} \sum_{j=1}^{N} n_j(\mathbf{g})$ —is simply the number of other beneficiaries to which the average individual beneficiary in a precinct is connected to. Figure A1 provides an example of two similarly sized networks that vary significantly in their average degree.

The largest eigenvalue of A is the largest scalar λ that satisfies:

$$\mathbf{A}\mathbf{v} = \lambda \mathbf{v},\tag{A2}$$

where \mathbf{v} is the first corresponding eigenvector of \mathbf{A} ; in the networks literature, this defines eigenvector centrality (see e.g. Jackson 2010). The largest eigenvalue λ approximates (but strictly exceeds) the network's average degree, and captures the extent to which the average individual is central in the sense that they are connected to other individuals recursively deemed to also be

highly central. This measure contrasts with degree by recursively relying on the connectedness of connections.

Figures A1 and A2, respectively, compare examples of less- and more-connected networks according to average degree and largest eigenvalue. Both measures are ultimately standardized in our sample.

A.4 Balance tests

Table A1 reports balance tests for information provision in our final sample, based on equation (9), but excluding the interactions. The results demonstrate that, even after restricting the sample to precincts for which reliable network data are available, information provision is well-balanced across predetermined covariates. This suggests that random assignment continues to hold, which is not surprising since treatment assignment was designed to be orthogonal to precinct characteristics, such as population density and the extent of Prospera coverage, which determine the availability of reliable network measures.

A.5 Failure to validate alternative measures of network connectedness

As noted in the main text, we also considered a variety of precinct-level measures of network connectedness other than average degree and the first eigenvalue. Table A2 demonstrates that other common measures of aggregated network connectedness do not predict community connectedness, and are thus unlikely to be good proxies for a precinct's capacity to coordinate around information provision.

A.6 No discernible effects on voter turnout

Table A3 shows that neither information provision, nor its interaction with network connectedness, affects precinct-level electoral turnout. This suggests that our results for incumbent vote share (as

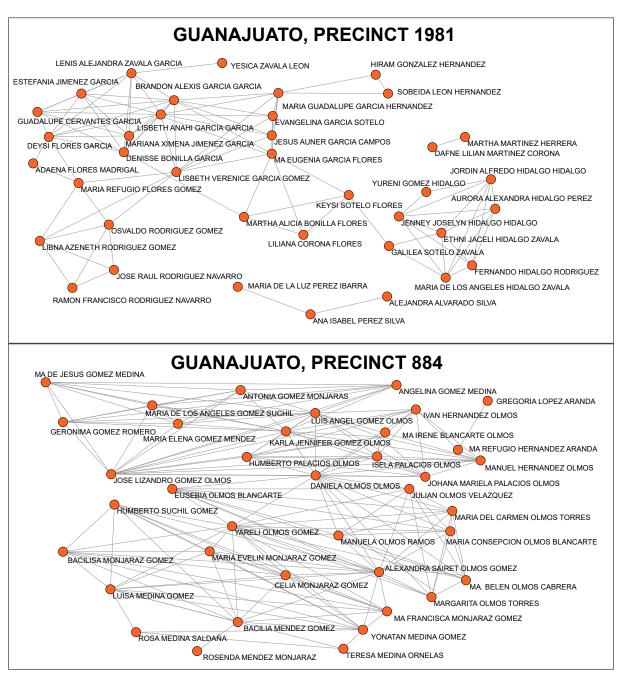


Figure A1: Two networks with individual names as nodes. Top panel: Guanajuato, precinct 1981 (Number of nodes=38, Average Degree = 5.05). Bottom panel: Guanajuato, precinct 884 (Number of nodes=38, Average Degree = 9.26)

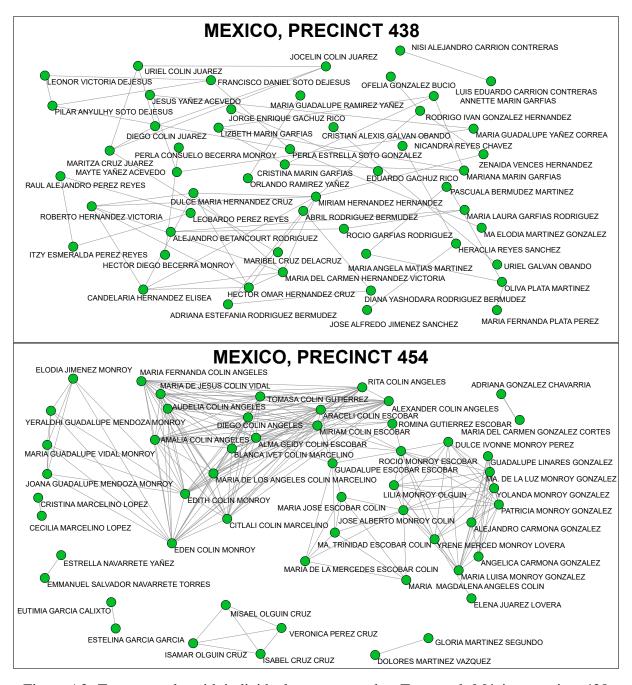


Figure A2: Two networks with individual names as nodes. Top panel: México, precinct 438 (Number of nodes=52, Largest Eigenvalue = 5.08). Bottom panel: México, precinct 454 (Number of nodes=53, Largest Eigenvalue = 15.22)

Table A1: Effect of information provision on 40 precinct-level and 8 individual-level pre-treatment variables

	Control mean	Treatment mean	Treatment effect	Standard error	Observations
Precinct-level covariates					
Area	20.8	20.8	-1.797	(1.508)	296
Population	1,235	1,257	13.471	(45.656)	296
Population density	178	149	6.936	(23.450)	296
Distance from municipal centroid	11,572	12,999	871.429*	(484.852)	296
Number of households	279	285	6.103	(9.122)	296
Number of private dwellings	349	354	4.879	(11.027)	296
Average occupants dwelling	4.40	4.39	-0.038	(0.037)	296
Average occupants per room	1.35	1.35	-0.011	(0.014)	296
Share of homes with 2+ rooms	0.61	0.61	0.006	(0.006)	296
Share of homes with 3+ rooms	0.71	0.71	0.004	(0.008)	296
Average years of schooling	6.04	5.82	-0.067	(0.063)	296
Share married	0.57	0.57	-0.002	(0.004)	296
Share working age	0.58	0.58	0.002	(0.003)	296
Share economically active	0.32	0.32	0.002	(0.005)	296
Share without health care	0.28	0.28	0.012	(0.010)	296
Share with state workers health care	0.02	0.01	-0.001	(0.002)	296
Share old	0.08	0.08	0.001	(0.002)	296
Average children per woman	3.01	3.09	0.065**	(0.028)	296
Share of households with male head	0.80	0.80	-0.002	(0.005)	296
Share born out of state	0.04	0.05	0.008	(0.007)	296
Share indigenous speakers	0.11	0.10	0.017	(0.013)	296
Share of homes without a dirt floor	0.87	0.86	-0.010	(0.012)	296
Share of homes with a toilet	0.78	0.76	0.002	(0.012)	296
Share of homes with water	0.69	0.73	0.023	(0.022)	296
Share of homes with drainage	0.66	0.65	-0.008	(0.014)	296
Share of homes with electricity	0.91	0.92	0.009	(0.009)	296
Share of homes with water, drainage, and electricity	0.52	0.52	-0.002	(0.016)	296
Share of homes with a washing machine	0.39	0.40	0.002	(0.014)	296
Share of homes with a landline telephone	0.18	0.15	-0.027**	(0.014)	296
Share of homes with a radio	0.74	0.75	0.002	(0.007)	296
Share of homes with a fridge	0.61	0.62	0.012	(0.019)	296
Share of homes with a cell phone	0.33	0.36	0.012	(0.013)	296
Share of homes with a television	0.81	0.81	-0.007	(0.011)	296
Number of local media stations	2.09	2.06	-0.024	(0.022)	296
Share of homes with a car	0.33	0.33	-0.024	(0.022)	296
Share of homes with a computer	0.05	0.05	0.001	(0.007)	296
Share of homes with a computer Share of homes with internet	0.03	0.03	0.001	(0.004)	296
Turnout in 2012	0.62	0.62	0.001	(0.005)	296
Incumbent party vote margin in 2012	-0.21	-0.22	-0.015	(0.003)	296
Incumbent party vote margin in 2012 Incumbent party vote share in 2012	0.43	0.43	0.008	(0.011)	296
Survey-level covariates	0.62	0.67	0.020	(0.024)	2.210
Female	0.63	0.67	0.038	(0.024)	2,218
Age	44.18	44.09	0.044	(0.725)	2,176
Education	6.64	6.39	-0.258	(0.207)	2,215
Income	2.03	1.82	-0.202**	(0.082)	2,010
Employed	0.40	0.39	-0.002	(0.024)	2,216
Turnout in 2012	0.62	0.61	-0.010	(0.020)	2,218
Incumbent vote in 2012	0.56	0.52	-0.036	(0.026)	1,367
Political knowledge Index	2.39	2.47	0.056	(0.041)	2,218

Notes: Specifications include block fixed effects and are estimated using OLS. Precinct-level specifications are weighted by the share of the precinct that was treated, whereas survey-level specifications are unweighted. Both measures of network connectedness are standardized. Standard errors clustered by municipality-treatment are in parentheses. *p < 0.1, **p < 0.05, *** p < 0.01.

Table A2: Correlation between other network connectedness measures and community connectedness

	Overall	communit	y connecte	dness index
Closeness	0.002			
	(0.017)			
Link density		0.003		
		(0.014)		
Average clustering			-0.008	
			(0.014)	
Average Path Length				0.010
				(0.014)
01 4	0.067	0.067	0.067	2.267
Observations	2,267	2,267	2,267	2,267
Outcome mean	0.74	0.74	0.74	0.74
Outcome std. dev.	0.32	0.32	0.32	0.32

Notes: All specifications estimated using OLS. All measures of network connectedness are standardized. Standard errors clustered by municipality are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

a share of turnout) are driven by changes primarily in the numerator rather than the denominator. This also implies that voters either shifted from challenger to incumbent, or that the number of voters that shifted from challenger to abstention is similar to the number of voters that shifted from abstention to incumbent.

A.7 Effect of information provision, by engagement and coordination indexes subitems

Tables A4 and A5 break our four-item index of voter engagement into its separate components. Tables A6 and A7 break our five-item index of voter coordination into its separate components. The results provide evidence that both tacit coordination (through common knowledge of information provision and higher-order beliefs) and explicit coordination (through interpersonal agreements) could be driving our coordination findings.

Table A3: Effect of information provision on turnout across precincts with varying network connectedness

are Received Share Received	reignica of snare of population that received realities		callon by		\supset	Unweighted	T	
Share Received Share Received Share Received 296 296 296 296 0.003 0.004) 0.010) 0.010 0.010 0.010 0.010 0.010 0.010 0.010 0.023 0.023 0.023 0.023 0.023 0.020 0.000 dev. 1.000 1.000	2) (3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
are Received Share Received 296 296 296 296 296 296 296 29	0.002	0.001	0.002	-0.002	-0.014	-0.044	-0.014	-0.028
0.005 0.008 (0.004) (0.010) Share Received 296 296 296 0.53 0.53 v. 0.12 0.12 0.00 0.000 v. 1.00 1.00	(0.000)	0.005)	(0.006)	(0.004)	(0.011)	(0.029)	(0.011)	(0.023)
are Received Share Received 296 296 296 0.53 0.53 0.53 0.00 0.00 v. 1.00 1.00	0.008				900.0	-0.011		
are Received Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.00 0.00 v. 1.00 1.00					(0.013)	(0.039)		
are Received Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.00 0.00 v. 1.00 1.00			0.011				0.002	-0.011
are Received Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.00 0.00 v. 1.00 1.00)		(0.009)				(0.013)	(0.040)
are Received Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.12 0.00 0.00 v. 1.00 1.00					0.012	0.119*	0.013	0.038
are Received Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.00 0.00 v. 1.00 1.00					(0.013)	(0.065)	(0.013)	(0.029)
Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.12 0.00 0.00 v. 1.00 1.00					0.001	0.015		
Share Received 296 296 296 0.53 0.53 0.53 v. 0.12 0.12 0.12 0.00 v. 1.00 1.00					(0.014)	(0.045)		
296 296 296 296 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53							0.005	0.029
296 296 296 0.53 0.53 0.53 0.53 0.12 0.12 0.12 0.10 0.00 0.00 0.00 0.00							(0.013)	(0.049)
0.53 0.53 0.53 v. 0.12 0.12 0.12 0.00 0.00 v. 1.00 1.00		296	296	296	296	296	296	296
v. 0.12 0.12 0.12 0.00 0.00 vv. 1.00 1.00		0.53	0.53	0.53	0.53	0.53	0.53	0.53
0.00 0.00 .v. 1.00 1.00		0.12	0.12	0.12	0.12	0.12	0.12	0.12
v. 1.00 1.00		0.00	0.00		0.00	0.00	0.00	0.00
Share Received mean		1.00	1.00		1.00	1.00	1.00	1.00
Choung Descripted and				0.79	0.79	0.79	0.79	0.79
Shale Received sid. dev.				0.45	0.45	0.45	0.45	0.45
Controls	>		>			>		>

Notes: All specifications include block fixed effects and are estimated using OLS. Panels A and C are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts). Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3), (5) and (8) and (10) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.11 *** p < 0.05, *** p < 0.05.

Table A4: Effect of information provision on engagement components, by network connectedness

	(1)	(2)	(3)	(4)	(5)
Panel A: Report rememb	ering receiv	ving the leat	flet		
Information provision	1.276***	1.290***	1.273***	1.290***	1.271***
1	(0.105)	(0.102)	(0.081)	(0.102)	(0.083)
× Average Degree		0.200	0.132		
		(0.128)	(0.160)		
× Largest Eigenvalue				0.204	0.166
				(0.122)	(0.141)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Panel B: Report rememb	ering readi	ng the leafle	-t		
Information provision	1.321***	1.341***	1.287***	1.339***	1.285***
F	(0.111)	(0.101)	(0.083)	(0.103)	(0.086)
× Average Degree	(/	0.363***	0.267	(/	(/
2 2		(0.127)	(0.160)		
× Largest Eigenvalue		, ,	` ′	0.348**	0.283*
0 0				(0.133)	(0.149)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Panel C: Correctly recall	ed the type:	s of spendin	g the leafle	t pertained	to
Information provision	0.982***	0.997***	0.980***	0.996***	0.979***
_	(0.099)	(0.077)	(0.060)	(0.081)	(0.062)
× Average Degree		0.316***	0.217*		
		(0.093)	(0.118)		
× Largest Eigenvalue				0.296***	0.202
				(0.106)	(0.119)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Panel D: Declared that th	e leaflet inf	luenced the	ir vote		
Information provision	0.620***	0.642***	0.623***	0.639***	0.626***
1	(0.123)	(0.103)	(0.092)	(0.108)	(0.093)
× Average Degree	, ,	0.400***	0.305**	, ,	, ,
		(0.124)	(0.143)		
× Largest Eigenvalue				0.362**	0.237
				(0.141)	(0.148)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Observations	2,218	2,218	2,218	2,218	2,218
Interactive controls			✓		✓

Table A5: Effect of information provision on engagement components, by network connectedness and share received

	(1)	(2)	(3)	(4)	(5)
Panel A: Report remembering receivin	g the leafle	t			
Information provision	1.276***	1.058***	0.912***	1.036***	0.905***
	(0.105)	(0.229)	(0.235)	(0.220)	(0.232)
× Share Received		0.303	0.422	0.338	0.429
		(0.244)	(0.404)	(0.232)	(0.395)
× Average Degree		-0.125	-0.692*		
		(0.211)	(0.372)		
× Average Degree × Share Received		0.409*	1.261***		
		(0.226)	(0.439)		
× Largest Eigenvalue				-0.136	-0.553
				(0.210)	(0.383)
× Largest Eigenvalue × Share Received				0.440*	1.079**
				(0.224)	(0.442)
Panel B: Report remembering reading	the leaflet				
Information provision	1.321***	1.079***	0.753**	1.050***	0.762**
mormaton provision	(0.111)	(0.217)	(0.292)	(0.210)	(0.281)
× Share Received	(0.111)	0.338	0.643	0.379	0.620
A DIMIC RECEIVED		(0.264)	(0.490)	(0.254)	(0.470)
× Average Degree		0.093	-0.571	(0.234)	(0.470)
Average Degree		(0.254)	(0.415)		
× Average Degree × Share Received		0.338	1.257**		
× Average Degree × Share Received					
v I angest Eigenvelue		(0.258)	(0.530)	0.035	-0.544
× Largest Eigenvalue					
. I				(0.273)	(0.420)
× Largest Eigenvalue × Share Received				0.401	1.194**
				(0.271)	(0.520)
Panel C: Correctly recalled the types of					
Information provision	0.982***	0.648***	0.273	0.629***	0.301
	(0.099)	(0.185)	(0.265)	(0.183)	(0.259)
× Share Received		0.460*	0.909**	0.486**	0.863**
		(0.229)	(0.419)	(0.221)	(0.411)
× Average Degree		0.279	-0.334		
		(0.212)	(0.281)		
× Average Degree × Share Received		0.030	0.743**		
		(0.209)	(0.326)		
× Largest Eigenvalue				0.214	-0.445
-				(0.235)	(0.303)
× Largest Eigenvalue × Share Received				0.095	0.838**
				(0.220)	(0.339)
Panel D: Declared that the leaflet influe	enced their	vote			
Information provision	0.620***	0.311**	0.370	0.259**	0.359
information provision	(0.123)	(0.120)	(0.302)	(0.123)	(0.297)
× Share Received	(0.123)	0.433***	0.205	0.510***	0.215
A Share Received		(0.117)	(0.416)	(0.111)	(0.404)
× Avaraga Dagraa		0.044	0.001	(0.111)	(0.404)
× Average Degree					
Avenue Deemee v. Chana Decition 1		(0.176)	(0.262)		
× Average Degree × Share Received		0.440**	0.309 (0.318)		
V I amanat Eiganvalu		(0.177)	(0.318)	0.005	0.256
× Largest Eigenvalue				-0.085	-0.256
. I Ch Ch				(0.208)	(0.264)
× Largest Eigenvalue × Share Received				0.582***	0.603*
				(0.191)	(0.313)
Observations	2,218	2,218	2,218	2,218	2,218
Interactive controls			✓		✓

Table A6: Effect of information provision on coordination components, by network connectedness

	(1)	(2)	(3)	(4)	(5)
Panel A: Correctly identity				` '	
Information provision	0.735***	0.738***	0.757***	0.739***	0.753***
information provision	(0.045)	(0.043)	(0.039)	(0.043)	(0.041)
× Average Degree	(0.015)	0.115	0.163*	(0.015)	(0.011)
		(0.076)	(0.092)		
× Largest Eigenvalue		(*****)	(****=)	0.117*	0.190**
0 0				(0.066)	(0.073)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Panel B: Engaged in disci	ussion of lea	aflet			
Information provision	0.793***	0.806***	0.792***	0.804***	0.793***
	(0.086)	(0.073)	(0.048)	(0.073)	(0.049)
× Average Degree		0.237*	0.175		
		(0.118)	(0.124)		
× Largest Eigenvalue				0.228*	0.165
				(0.119)	(0.116)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
			1.00	1.00	1.00
Panel C: Social coordinat					
Information provision	0.278***	0.293***	0.262***	0.291***	0.262***
	(0.083)	(0.070)	(0.067)	(0.071)	(0.068)
× Average Degree		0.221***	0.121		
× Largest Eigenvalue		(0.077)	(0.102)	0.226**	0.152*
				(0.083)	0.153* (0.086)
				(0.063)	(0.080)
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Danal D. Diagnasian of las					
Panel D: Discussion of lea	Act change	d arres reata			
	_			0.272***	0.292***
	0.360***	0.375***	0.377***	0.372***	0.382***
Information provision	_	0.375*** (0.095)	0.377*** (0.093)	0.372*** (0.096)	0.382*** (0.095)
Information provision	0.360***	0.375*** (0.095) 0.243**	0.377*** (0.093) 0.221*		
Information provision × Average Degree	0.360***	0.375*** (0.095)	0.377*** (0.093)	(0.096)	(0.095)
Information provision × Average Degree	0.360***	0.375*** (0.095) 0.243**	0.377*** (0.093) 0.221*	(0.096) 0.219*	0.163
Information provision	0.360***	0.375*** (0.095) 0.243**	0.377*** (0.093) 0.221*	(0.096)	(0.095)
Information provision × Average Degree × Largest Eigenvalue	0.360***	0.375*** (0.095) 0.243**	0.377*** (0.093) 0.221*	(0.096) 0.219*	0.163
Information provision × Average Degree × Largest Eigenvalue Control outcome mean	0.360*** (0.105)	0.375*** (0.095) 0.243** (0.116)	0.377*** (0.093) 0.221* (0.115)	(0.096) 0.219* (0.120)	(0.095) 0.163 (0.114)
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev.	0.360*** (0.105) 0.00 1.00	0.375*** (0.095) 0.243** (0.116) 0.00 1.00	0.377*** (0.093) 0.221* (0.115) 0.00 1.00	(0.096) 0.219* (0.120) 0.00	(0.095) 0.163 (0.114) 0.00
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea	0.360*** (0.105) 0.00 1.00	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo	0.377*** (0.093) 0.221* (0.115) 0.00 1.00	(0.096) 0.219* (0.120) 0.00 1.00	(0.095) 0.163 (0.114) 0.00 1.00
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215**	(0.096) 0.219* (0.120) 0.00 1.00 0.258***	0.095) 0.163 (0.114) 0.00 1.00 0.219**
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision	0.360*** (0.105) 0.00 1.00	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086)	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086)	(0.096) 0.219* (0.120) 0.00 1.00	(0.095) 0.163 (0.114) 0.00 1.00
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086) 0.252***	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086) 0.088	(0.096) 0.219* (0.120) 0.00 1.00 0.258***	(0.095) 0.163 (0.114) 0.00 1.00 0.219**
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision × Average Degree	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086)	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086)	(0.096) 0.219* (0.120) 0.00 1.00 0.258*** (0.090)	0.095) 0.163 (0.114) 0.00 1.00 0.219** (0.089)
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision × Average Degree	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086) 0.252***	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086) 0.088	(0.096) 0.219* (0.120) 0.00 1.00 0.258***	(0.095) 0.163 (0.114) 0.00 1.00 0.219**
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision × Average Degree	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086) 0.252***	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086) 0.088	(0.096) 0.219* (0.120) 0.00 1.00 0.258*** (0.090)	0.095) 0.163 (0.114) 0.00 1.00 0.219** (0.089)
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision × Average Degree × Largest Eigenvalue	0.360*** (0.105) 0.00 1.00 flet change 0.243**	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' vo 0.261*** (0.086) 0.252***	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086) 0.088	(0.096) 0.219* (0.120) 0.00 1.00 0.258*** (0.090)	0.095) 0.163 (0.114) 0.00 1.00 0.219** (0.089)
Information provision × Average Degree × Largest Eigenvalue Control outcome mean Control outcome std. dev. Panel E: Discussion of lea Information provision × Average Degree × Largest Eigenvalue Control outcome mean	0.360*** (0.105) 0.00 1.00 affet change 0.243** (0.102)	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' v (0.086) 0.252*** (0.084)	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 0.215** (0.086) 0.088 (0.167)	(0.096) 0.219* (0.120) 0.00 1.00 0.258*** (0.090) 0.227** (0.097)	0.095) 0.163 (0.114) 0.00 1.00 0.219** (0.089) 0.039 (0.144)
Information provision × Average Degree	0.360*** (0.105) 0.00 1.00 onflet change 0.243** (0.102)	0.375*** (0.095) 0.243** (0.116) 0.00 1.00 d others' v (0.086) 0.252*** (0.084)	0.377*** (0.093) 0.221* (0.115) 0.00 1.00 ote 0.215** (0.086) 0.088 (0.167)	(0.096) 0.219* (0.120) 0.00 1.00 0.258*** (0.090) 0.227** (0.097) 0.00	0.095) 0.163 (0.114) 0.00 1.00 0.219** (0.089) 0.039 (0.144) 0.00

Table A7: Effect of information provision on coordination components, by network connectedness and share received

	(1)	(2)	(3)	(4)	(5)
Panel A: Correctly identify that a large	fraction of	their comn	nunity recei	ved a leaflet	;
Information provision	0.735***	0.413***	0.403***	0.396***	0.395**
	(0.045)	(0.105)	(0.145)	(0.101)	(0.146)
× Share Received		0.419***	0.360	0.449***	0.375
		(0.131)	(0.231)	(0.124)	(0.230)
× Average Degree		-0.088	-0.579***	()	(01=00)
A Therage Degree		(0.133)	(0.207)		
× Average Degree × Share Received		0.247	1.024***		
× Average Degree × Share Received					
T . T' 1		(0.149)	(0.232)	0.076	0.422#
× Largest Eigenvalue				-0.076	-0.422*
				(0.126)	(0.196)
× Largest Eigenvalue × Share Received				0.243*	0.806**
				(0.138)	(0.213)
Panel B: Engaged in social discussion o					
Information provision	0.793***	0.358**	0.192	0.319*	0.170
	(0.086)	(0.170)	(0.236)	(0.163)	(0.228)
× Share Received		0.579***	0.827**	0.636***	0.852*
		(0.200)	(0.356)	(0.189)	(0.342)
× Avaraga Dagraa				(0.10)	(0.5.12
× Average Degree		-0.060	-0.281		
		(0.180)	(0.272)		
× Average Degree × Share Received		0.363*	0.708**		
		(0.179)	(0.322)		
× Largest Eigenvalue				-0.111	-0.294
-				(0.184)	(0.270)
× Largest Eigenvalue × Share Received				0.431**	0.730*
5 6				(0.179)	(0.324
				(0.179)	(0.324
Panel C: Social coordination around lea	aflet				
Information provision	0.278***	0.073	0.103	0.038	0.047
1	(0.083)	(0.111)	(0.229)	(0.103)	(0.213)
× Share Received	(0.005)	0.288**	0.179	0.336***	0.256
× Share Received					
		(0.117)	(0.310)	(0.105)	(0.287)
× Average Degree		0.140	-0.007		
		(0.141)	(0.220)		
× Average Degree × Share Received		0.091	0.109		
		(0.171)	(0.199)		
× Largest Eigenvalue				0.068	-0.114
				(0.129)	(0.230
. I F: Sh Sh D:					
× Largest Eigenvalue × Share Received				0.202	0.309
				(0.136)	(0.223
Panel D: Discussion of leaflet changed of	own vote				
Information provision	0.360***	-0.042	-0.112	-0.094	-0.148
Province	(0.105)	(0.118)	(0.281)	(0.113)	(0.259
Chana Bassinad	(0.105)				
× Share Received		0.548***	0.603	0.622***	0.647*
		(0.121)	(0.401)	(0.114)	(0.362
× Average Degree		-0.023	0.229		
		(0.149)	(0.187)		
× Average Degree × Share Received		0.319*	-0.068		
		(0.160)	(0.234)		
V Largest Figanualua		(0.100)	(0.254)	-0.142	-0.020
× Largest Eigenvalue					
				(0.143)	(0.183)
× Largest Eigenvalue × Share Received				0.466***	0.262
				(0.140)	(0.217)
Danal E. Dicauccian of looflet shares 3	thore' rot-				
Panel E: Discussion of leaflet changed of			0.255	0.120	0.410
Information provision	0.243**	-0.094	-0.375	-0.139	-0.412*
	(0.102)	(0.116)	(0.223)	(0.118)	(0.194
× Share Received		0.467***	0.707**	0.529***	0.761**
		(0.146)	(0.276)	(0.145)	(0.231)
× Average Degree		0.103	0.370		
		(0.183)	(0.275)		
V Average Degree V Share Deceived		0.172	-0.631**		
× Average Degree × Share Received					
		(0.187)	(0.251)		
				-0.017	0.150
× Largest Eigenvalue					(0.070)
× Largest Eigenvalue				(0.202)	(0.270)
				(0.202) 0.313*	
				0.313*	-0.333
× Largest Eigenvalue × Share Received				0.313* (0.181)	-0.333 (0.236
× Largest Eigenvalue × Largest Eigenvalue × Share Received Observations Interactive controls	2,218	2,218	2,218	0.313*	(0.270) -0.333 (0.236) 2,218

A.8 Lack of differential effects by local and benchmark treatment variants

Tables A8-A12 show our estimates when separating information provision into local information (i.e. own incumbent) and benchmark information (i.e. own incumbent and average of other incumbent parties within the state). At the foot of each panel, we report tests for differential effects between the two types of treatment. Although there are some statistically significant differences between the coefficients, they are rare and not consistent across outcomes. Moreover, where differences occur (principally in Table A9), they are primarily on the level, rather than with respect to the interaction coefficients that represent the main estimates of the article. In sum, the results suggest that the benchmark treatment did not substantively alter voters' response to incumbent performance information provision, and thus support our decision to pool across modes of information provision.

A.9 Lack of differential effects by private and public treatment variants

Tables A13-A17 show our estimates when separating information provision into private information dissemination (i.e. just a leaflet) and public information dissemination (i.e. a leaflet and a loud speaker announcing the delivery of the leaflets). At the foot of each panel, we report tests for differential effects between the two types of treatment. Although there are some statistically significant differences between the coefficients, they are rare and not consistent across outcomes. Moreover, where differences occur (principally in Table A13), they are primarily on the level, rather than with respect to the interaction coefficients that represent the main estimates of the article. The exception is panel B of Table A14 and Table A15, where although the triple interaction has the same sign it is somewhat larger for the private treatment. Nevertheless, in sum, the results again suggest that the public treatment did not substantively alter voters' response to incumbent performance information provision, and thus support our decision to pool across modes of information provision.

Table A8: Effect of local and benchmark information provision on incumbent party vote, by network connectedness

	(1)	(2)	(3)	(4)	(5)
Panel A: Incumbent party vote share	(share of tu	rnout)			
Local information provision	0.031***	0.031***	0.044***	0.031***	0.043***
_	(0.010)	(0.010)	(0.013)	(0.010)	(0.013)
Benchmark information provision	0.045***	0.046***	0.046***	0.046***	0.045***
	(0.011)	(0.010)	(0.011)	(0.010)	(0.011)
Local × Average Degree		-0.020*	-0.030*		
		(0.011)	(0.016)		
Benchmark × Average Degree		-0.027**	-0.015		
		(0.011)	(0.019)		
Local × Largest Eigenvalue				-0.022**	-0.035**
				(0.009)	(0.014)
Benchmark × Largest Eigenvalue				-0.033***	-0.031
				(0.009)	(0.019)
Outcome range	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]	[0.06,0.71]
Control outcome mean	0.35	0.35	0.35	0.35	0.35
Control outcome std. dev.	0.14	0.14	0.14	0.14	0.14
Test: same treatment effect (p value)	0.40	0.37	0.88	0.36	0.90
Test: same interaction effect (p value)		0.62	0.57	0.40	0.87
Panel B: Incumbent party vote share	(share of re	pistered vote	rs)		
Local information provision	0.018***	0.019***	0.025***	0.019***	0.024***
	(0.006)	(0.006)	(0.009)	(0.006)	(0.009)
Benchmark information provision	0.024***	0.025***	0.024***	0.025***	0.024***
	(0.007)	(0.006)	(0.006)	(0.006)	(0.006)
Local × Average Degree	()	-0.006	-0.014	(,	(/
		(0.007)	(0.011)		
Benchmark × Average Degree		-0.017***	-0.011		
		(0.005)	(0.008)		
Local × Largest Eigenvalue		()	()	-0.007	-0.016*
				(0.006)	(0.009)
Benchmark × Largest Eigenvalue				-0.019***	-0.018**
				(0.004)	(0.009)
Outcome range	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47]	[0.03,0.47
Control outcome mean	0.19	0.19	0.19	0.19	0.19
Control outcome std. dev.	0.19	0.19	0.19	0.19	0.19
Test: same treatment effect (p value)	0.09	0.09	0.09	0.50	0.09
Test: same interaction effect (p value)	0.55	0.20	0.81	0.12	0.90
Observations	296	296	296	296	296
Share Received mean	0.79	0.79	0.79	0.79	0.79
Share Received std. dev.	0.45	0.45	0.45	0.45	0.45
	٠٠	٠٠	٠٠	٠٠	٠٥

Notes: All specifications include block fixed effects and are estimated using OLS, and are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts). Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A9: Effect of local and benchmark information provision on voters' engagement with the information, by network connectedness

		Index of voters'			
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts with different		ectedness			
Local information provision	1.266***	1.291***	1.198***	1.288***	1.199***
	(0.127)	(0.112)	(0.107)	(0.116)	(0.109)
Benchmark information provision	1.458***	1.484***	1.456***	1.480***	1.454***
•	(0.140)	(0.119)	(0.105)	(0.121)	(0.107)
Local × Average Degree	` ′	0.348**	0.206	, ,	` /
		(0.144)	(0.160)		
Benchmark × Average Degree		0.509***	0.372*		
Denominant // Trotage Degree		(0.159)	(0.205)		
Local × Largest Eigenvalue		(0.15))	(0.203)	0.333**	0.210
Eocal × Eargest Ergenvalue				(0.154)	(0.145)
Benchmark × Largest Eigenvalue				0.473***	0.309
Benchmark × Largest Eigenvalue					
				(0.159)	(0.187)
Test: same treatment effect (p value)	0.03	0.04	0.04	0.04	0.04
Test: same interaction effect (p value)	0.03	0.22	0.40	0.04	0.55
Test: same interaction effect (p value)		0.22	0.40	0.21	0.55
Panel B: Variation across precincts by population s		0			
Local information provision	1.266***	0.613**	0.223	0.569**	0.214
	(0.127)	(0.254)	(0.325)	(0.252)	(0.322)
Benchmark information provision	1.458***	1.380***	1.269***	1.334***	1.342***
	(0.140)	(0.323)	(0.422)	(0.318)	(0.428)
Local × Share Received		0.890***	1.224**	0.958***	1.235**
		(0.282)	(0.510)	(0.276)	(0.494)
Benchmark × Share Received		0.148	0.130	0.211	0.012
		(0.347)	(0.637)	(0.341)	(0.634)
Local × Average Degree		-0.081	-0.448	, ,	, í
		(0.211)	(0.382)		
Benchmark × Average Degree		0.266	-0.613		
		(0.359)	(0.533)		
Local × Average Degree × Share Received		0.575**	1.196***		
		(0.215)	(0.414)		
Benchmark × Average Degree × Share Received		0.314	1.267		
Benefithark × Average Begree × Share Received		(0.356)	(0.931)		
Local × Largest Eigenvalue		(0.550)	(0.551)	-0.193	-0.527
Eocal × Eargest Ergenvalue				(0.253)	(0.389)
Benchmark × Largest Eigenvalue				0.189	-0.542
Deficilitate × Largest Eigenvalue				(0.328)	(0.485)
Local × Largest Eigenvalue × Share Received				0.721***	1.261***
Local × Largest Eigenvalue × Share Received					
D				(0.254)	(0.406)
Benchmark × Largest Eigenvalue × Share Received				0.385	0.999
				(0.323)	(0.802)
Test: same treatment effect (p value)	0.03	0.07	0.01	0.07	0.01
Test: same interaction effect (p value)	0.03	0.32	0.74	0.07	0.01
					0.97
Test: same triple interaction effect (p value)		0.46	0.93	0.30	
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28, 6.41]		[-0.28 , 6.41]	[-0.28 , 6.41]	[-0.28, 6.4
Control outcome mean	-0.00	-0.00	-0.00	-0.00	-0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Interaction mean		0.00	0.00	0.00	0.00
Interaction std. dev.		1.00	1.00	1.00	1.00
Interactive controls			✓		\checkmark

Table A10: Effect of local and benchmark information provision on voters' coordination around the information, by network connectedness

			oordination arou		
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts with different		ctedness			
Local information provision	0.639***	0.659***	0.624***	0.656***	0.624***
	(0.110)	(0.097)	(0.089)	(0.099)	(0.091)
Benchmark information provision	0.740***	0.760***	0.750***	0.756***	0.752***
	(0.122)	(0.103)	(0.094)	(0.103)	(0.095)
Local × Average Degree		0.263**	0.115		
		(0.110)	(0.123)		
Benchmark × Average Degree		0.365**	0.276*		
<i>e e</i>		(0.151)	(0.146)		
Local × Largest Eigenvalue		(01101)	(012.10)	0.243**	0.089
				(0.114)	(0.108)
Benchmark × Largest Eigenvalue				0.355**	0.264**
Benefithan A Bargest Eigenvande				(0.157)	(0.127)
				(0.137)	(0.127)
Test: same treatment effect (p value)	0.13	0.14	0.06	0.14	0.06
Test: same interaction effect (p value)	0.13	0.33	0.15	0.31	0.07
* /				0.51	0.07
Panel B: Variation across precincts by population		_		0.021	0.200
Local information provision	0.639***	0.026	-0.204	-0.031	-0.200
	(0.110)	(0.148)	(0.231)	(0.141)	(0.222)
Benchmark information provision	0.740***	0.391*	0.375	0.341*	0.321
	(0.122)	(0.207)	(0.369)	(0.201)	(0.344)
Local × Share Received		0.822***	0.993**	0.904***	0.986***
		(0.183)	(0.372)	(0.168)	(0.352)
Benchmark × Share Received		0.481**	0.463	0.550**	0.536
		(0.228)	(0.523)	(0.222)	(0.488)
ocal × Average Degree		0.080	0.162		
		(0.179)	(0.249)		
Benchmark × Average Degree		-0.032	-0.806***		
c c		(0.221)	(0.256)		
Local × Average Degree × Share Received		0.225	-0.012		
		(0.218)	(0.300)		
Benchmark × Average Degree × Share Received		0.475**	1.369**		
Benefithan A Therage Begree A Share Received		(0.232)	(0.580)		
Local × Largest Eigenvalue		(0.232)	(0.500)	-0.026	-0.030
Eocai × Eargest Ergenvalue				(0.186)	(0.249)
Panahmark / Largast Figanyalya				-0.117	-0.915**
Benchmark × Largest Eigenvalue					
Land v. Langest Firemenlus v. Chang Dessired				(0.212)	(0.253)
Local × Largest Eigenvalue × Share Received				0.359*	0.233
				(0.205)	(0.282)
Benchmark × Largest Eigenvalue × Share Received				0.594***	1.562***
				(0.206)	(0.461)
Trade and the state of the stat	0.12	0.14	0.06	0.14	0.00
Test: same treatment effect (p value)	0.13	0.14	0.06	0.14	0.08
Test: same interaction effect (p value)		0.54	0.00	0.64	0.00
Test: same triple interaction effect (p value)		0.23	0.01	0.27	0.00
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.7
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Interaction mean		0.00	0.00	0.00	0.00
Interaction std. dev.		1.00	1.00	1.00	1.00
Interactive controls		1.00	1.00 ✓	1.00	1.00 ✓
incraeu (C controls			٧		٧

Table A11: Effect of local and benchmark information provision on posterior beliefs, by information content, prior beliefs, and network connectedness—part 1

	P	osterior beliefs a	bout incumbent	party malfeasa	
	(1)	(2)	(3)	(4)	(5)
Panel A: Network connectedness only					
Local information provision	0.025	0.008	0.035	0.009	0.037
	(0.060)	(0.054)	(0.037)	(0.053)	(0.037)
Benchmark information provision	-0.029	-0.035	-0.030	-0.033	-0.029
	(0.060)	(0.053)	(0.043)	(0.051)	(0.043)
Local × Average Degree		-0.016	-0.060		
		(0.060)	(0.078)		
Benchmark × Average Degree		-0.133*	-0.075		
		(0.071)	(0.079)		
Local × Largest Eigenvalue				-0.014	-0.035
				(0.056)	(0.074)
Benchmark × Largest Eigenvalue				-0.156**	-0.112
				(0.065)	(0.070)
Observations	1,969	1,969	1,969	1,969	1,969
Test: same treatment effect (p value)	0.39	0.47	0.25	0.48	0.25
Test: same interaction effect (p value)	0.07	0.11	0.85	0.05	0.30
Panel B: Prior and network connectedness		0.001	O 100***	0.002	O 100***
Local information provision	0.025	0.001	0.188***	0.003	0.188***
Benchmark information provision	(0.060) -0.029	(0.053)	(0.057) 0.137***	(0.051)	(0.055)
Benchmark information provision	(0.060)	-0.037		-0.031	0.135***
Local × Prior	(0.000)	(0.052) 0.042	(0.045)	(0.050)	(0.045)
Local × Filoi		(0.070)	0.111	0.039	0.115
Benchmark × Prior		-0.100	(0.096) 0.032	(0.068) -0.102	(0.096) 0.025
Delicilitatik × Filot				(0.072)	(0.088)
Local v Averege Degree		(0.075) -0.044	(0.088) -0.015	(0.072)	(0.066)
Local × Average Degree		(0.056)	(0.077)		
Benchmark × Average Degree		-0.130**	0.077)		
Benchmark × Average Degree					
Local v. Avancas Dasmas v. Duian		(0.052)	(0.108)		
Local × Average Degree × Prior		0.088	0.051		
Danahmanik v. Avanaga Dagnas v. Drian		(0.090)	(0.105) -0.121		
Benchmark × Average Degree × Prior		-0.012			
Local v. Lorgant Eigenvolus		(0.096)	(0.157)	-0.037	0.012
Local × Largest Eigenvalue					
Benchmark × Largest Eigenvalue				(0.049) -0.131***	(0.076) 0.092
benchmark × Largest Eigenvalue					(0.108)
Local × Largest Eigenvalue × Prior				(0.046) 0.088	0.108)
Local × Largest Eigenvalue × Filor					(0.114)
Benchmark × Largest Eigenvalue × Prior				(0.091) -0.018	-0.150
Deficilitate × Largest Eigenvalue × 11101				(0.097)	(0.189)
Ol	1.070	1.010	1.010	1.010	1.010
Observations	1,969	1,910	1,910	1,910	1,910
Test: same treatment effect (p value)	0.39	0.39	0.29	0.45	0.30
Test: same interaction effect (p value)		0.07	0.25	0.06	0.45
Test: same triple interaction effect (p value)		0.05	0.26	0.08	0.24
Outcome range	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35
Interactive controls			✓		✓

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panel B reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A12: Effect of local and benchmark information provision on posterior beliefs, by information content, prior beliefs, and network connectedness—part 2

				party malfeasa	
	(1)	(2)	(3)	(4)	(5)
Panel C: Negative updating and network connectedness					
Local information provision	0.025	0.045	0.268***	0.047	0.273***
F	(0.060)	(0.070)	(0.077)	(0.069)	(0.074)
Benchmark information provision	-0.029	-0.113*	0.174**	-0.109*	0.158*
percuina information provision	(0.060)	(0.063)	(0.077)	(0.062)	(0.077)
Local × Negative updating	(0.000)	-0.046	-0.111	-0.047	-0.111
Local × Negative updating		(0.049)	(0.076)	(0.047)	(0.076)
Donalo and a Nonetina and deina			-0.056	0.047)	-0.043
Benchmark × Negative updating		0.089			
T. I. A. D.		(0.056)	(0.074)	(0.053)	(0.079)
Local × Average Degree		0.021	0.123		
D. J. J. A. D.		(0.086)	(0.127)		
Benchmark × Average Degree		-0.161*	0.049		
		(0.085)	(0.149)		
Local × Average Degree × Negative updating		-0.060	-0.113		
		(0.075)	(0.117)		
Benchmark × Average Degree × Negative updating		0.033	0.111		
		(0.081)	(0.151)		
Local × Largest Eigenvalue				0.028	0.156
				(0.088)	(0.139)
Benchmark × Largest Eigenvalue				-0.168*	0.011
0 0				(0.087)	(0.147)
Local × Largest Eigenvalue × Negative updating				-0.064	-0.122
Does A Daigest Digentative A Treganite aparamig				(0.077)	(0.122)
Benchmark × Largest Eigenvalue × Negative updating				0.036	0.150
Benefithark × Eargest Ergenvalue × Regutive aparating				(0.084)	(0.175)
				(0.004)	(0.173)
Observations	1,969	1,910	1,910	1,910	1,910
Test: same treatment effect (p value)	0.39	0.01	0.13	0.02	0.08
Test: same interaction effect (p value)		0.01	0.47	0.00	0.17
Test: same triple interaction effect (p value)		0.02	0.08	0.04	0.08
Panel D: Malfeasence spending and network connectedno	ess				
Local information provision	0.025	0.036	-0.042	0.042	-0.012
r	(0.060)	(0.103)	(0.125)	(0.099)	(0.125)
Benchmark information provision	-0.029	-0.049	-0.184	-0.049	-0.181
percuina information provision	(0.060)	(0.100)	(0.142)	(0.096)	(0.138)
Local × Malfeasance spending	(0.000)	-0.153	0.785	-0.184	0.611
Eocal × Maricasance spending		(0.293)	(0.665)	(0.278)	(0.644)
Benchmark × Malfeasance spending		0.037	0.915	0.041	0.959
Benchmark × Maneasance spending					
T. I. A. D.		(0.329)	(0.843)	(0.310)	(0.783)
Local × Average Degree		0.120	0.153		
		(0.096)	(0.152)		
Benchmark × Average Degree		-0.082	0.079		
		(0.122)	(0.206)		
Local × Average Degree × Malfeasance spending		-0.949**	-1.904**		
		(0.397)	(0.756)		
Benchmark × Average Degree × Malfeasance spending		-0.503	-1.202		
		(0.578)	(1.146)		
Local × Largest Eigenvalue				0.113	0.194
				(0.092)	(0.140)
Benchmark × Largest Eigenvalue				-0.118	-0.061
Delicimian A Bargest Bigentalae				(0.113)	(0.159)
Local × Largest Eigenvalue × Malfeasance spending				-0.891**	-2.077**
Eocai × Eargest Eigenvalue × Mancasance spending				(0.388)	(0.699)
Panahmark v Largast Figanuslus v Malfassansa 3:				-0.426	-0.671
Benchmark × Largest Eigenvalue × Malfeasance spending					
				(0.568)	(0.946)
01	1.060	1.060	1.060	1.060	1.060
Observations	1,969	1,969	1,969	1,969	1,969
Test: same treatment effect (p value)	0.39	0.35	0.43	0.34	0.33
Test: same interaction effect (p value)		0.06	0.74	0.03	0.16
Test: same triple interaction effect (p value)		0.26	0.62	0.28	0.27
Outcome range	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35
Control outcome std. dev.	1.55	1.33		1.33	1.35 ✓
Interactive controls			✓		

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panel C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A13: Effect of private and public information provision on incumbent party vote share, by network connectedness

	(1)	(2)	(3)	(4)	(5)
Panel A: Incumbent party vote share	e (share of t	urnout)			
Private information provision	0.043***	0.044***	0.047***	0.044***	0.047***
	(0.010)	(0.010)	(0.013)	(0.010)	(0.013)
Public information provision	0.032***	0.033***	0.037***	0.033***	0.036***
	(0.012)	(0.011)	(0.008)	(0.011)	(0.009)
Private × Average Degree		-0.018	-0.013		
		(0.011)	(0.015)		
Public × Average Degree		-0.030***	-0.027*		
		(0.010)	(0.016)		
Private × Largest Eigenvalue				-0.021**	-0.020
				(0.010)	(0.014)
Public × Largest Eigenvalue				-0.033***	-0.039***
				(0.009)	(0.014)
Control outcome mean	0.35	0.35	0.35	0.35	0.35
Control outcome std. dev.	0.14	0.14	0.14	0.14	0.14
Test: same treatment effect (p value)	0.52	0.55	0.43	0.56	0.44
Test: same interaction effect (p value)		0.44	0.55	0.43	0.39
Panel B: Incumbent party vote share	e (share of r	registered vo	ters)		
Private information provision	0.031***	0.031***	0.032***	0.031***	0.032***
	(0.008)	(0.008)	(0.008)	(0.008)	(0.008)
Public information provision	0.012	0.012	0.017***	0.012	0.017***
	(0.008)	(0.007)	(0.006)	(0.008)	(0.006)
Private × Average Degree		-0.011	-0.010		
		(0.007)	(0.009)		
Public × Average Degree		-0.012	-0.012		
		(0.007)	(0.014)		
Private × Largest Eigenvalue				-0.012*	-0.013
				(0.007)	(0.008)
Public × Largest Eigenvalue				-0.013*	-0.016
				(0.007)	(0.013)
Control outcome mean	0.19	0.19	0.19	0.19	0.19
Control outcome std. dev.	0.09	0.09	0.09	0.09	0.09
Test: same treatment effect (p value)	0.17	0.19	0.10	0.18	0.10
Test: same interaction effect $(p \text{ value})$		0.94	0.94	0.96	0.84
Observations	296	296	296	296	296
Network measure mean		0.00	0.00	0.00	0.00
Network measure std. dev.		1.00	1.00	1.00	1.00
Interactive controls			\checkmark		\checkmark

Notes: All specifications include block fixed effects and are estimated using OLS, and are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts). Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, *** p < 0.05, **** p < 0.01.

Table A14: Effect of private and public information provision on voters' engagement with the information, by network connectedness

		ndex of voters'			
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts with differ	rent network co	onnectedness			
Private information provision	1.341***	1.356***	1.208***	1.352***	1.209***
	(0.146)	(0.123)	(0.116)	(0.126)	(0.118)
Public information provision	1.379***	1.405***	1.358***	1.404***	1.357***
	(0.134)	(0.121)	(0.101)	(0.124)	(0.104)
Private × Average Degree		0.447**	0.338*		
		(0.183)	(0.192)		
Public × Average Degree		0.376**	0.326		
		(0.162)	(0.207)		
Private × Largest Eigenvalue				0.438**	0.341*
				(0.195)	(0.188)
Public × Largest Eigenvalue				0.342**	0.260
				(0.164)	(0.195)
Test: same treatment effect (p value)	0.75	0.66	0.23	0.63	0.23
Test: same interaction effect (p value)	0.72	0.71	0.96	0.60	0.71
Panel B: Variation across precincts by popula	tion charac roa	oiving the treet	mont		
Private information provision	1.341***	0.954***	0.646*	0.909***	0.651*
i iivate information provision	(0.146)	(0.203)	(0.343)	(0.200)	(0.329)
Public information provision	1.379***	1.001***	0.532	0.951***	0.519
Tuble information provision	(0.134)	(0.264)	(0.418)	(0.256)	(0.427)
Private × Share Received	(0.134)	0.553**	0.726	0.623***	0.734
Tivate × Share Received		(0.229)	(0.536)	(0.223)	(0.514)
Public × Share Received		0.543*	1.013*	0.607**	0.999*
rubiic × Share Received		(0.269)	(0.563)	(0.257)	(0.581)
Private × Average Degree		-0.101	-1.192**	(0.237)	(0.361)
Tilvate × Average Degree		(0.255)	(0.488)		
Public × Average Degree		0.416	0.888		
Tuble A Avelage Degree		(0.424)	(0.657)		
Private × Average Degree × Share Received		0.758***	2.601***		
Tilvate // Tiverage Begiee // Bilaie Teeervea		(0.249)	(0.746)		
Public × Average Degree × Share Received		-0.025	-0.491		
Tuble A Tivoluge Begree A Share Received		(0.371)	(0.773)		
Private × Largest Eigenvalue		(0.571)	(0.775)	-0.207	-1.362**
				(0.285)	(0.527)
Public × Largest Eigenvalue				0.276	0.545
				(0.415)	(0.691)
Private × Largest Eigenvalue × Share Received				0.923***	2.880***
8				(0.278)	(0.825)
Public × Largest Eigenvalue × Share Received				0.122	-0.155
				(0.355)	(0.785)
To the second second of the second se	0.77	0.04	0.70	0.07	0.76
Test: same treatment effect (p value)	0.75	0.84	0.79	0.85	0.76
Test: same interaction effect (p value)		0.25	0.01	0.27	0.02
Test: same triple interaction effect (p value)		0.03	0.01	0.02	0.01
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28 , 6.41]	[-0.28 , 6.41]	[-0.28 , 6.41]	[-0.28 , 6.41]	[-0.28, 6.4]
Control outcome mean	-0.00	-0.00	-0.00	-0.00	-0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Interaction mean		0.00	0.00	0.00	0.00
Interaction std. dev.		1.00	1.00	1.00	1.00
Interactive controls			\checkmark		✓

Table A15: Effect of private and public information provision on voters' coordination around the information, by network connectedness

		dex of voters' co			
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts with different		onnectedness			
Private information provision	0.670***	0.683***	0.621***	0.678***	0.621***
	(0.118)	(0.100)	(0.092)	(0.102)	(0.095)
Public information provision	0.707***	0.724***	0.671***	0.724***	0.676***
	(0.118)	(0.106)	(0.095)	(0.108)	(0.099)
Private × Average Degree		0.347**	0.276**		
		(0.135)	(0.133)		
Public × Average Degree		0.255*	0.136		
		(0.134)	(0.186)		
Private × Largest Eigenvalue				0.334**	0.252*
				(0.142)	(0.134)
Public × Largest Eigenvalue				0.244*	0.116
				(0.136)	(0.160)
				(4122.4)	(0.000)
Test: same treatment effect (p value)	0.64	0.58	0.49	0.52	0.46
Test: same interaction effect (p value)		0.40	0.54	0.40	0.51
	tion abones no	airina tha tuaat			
Panel B: Variation across precincts by popula Private information provision	0.670***	0.188	0.008	0.134	-0.034
Tivate information provision	(0.118)	(0.125)	(0.195)	(0.123)	(0.184)
Public information provision	0.707***	0.180	-0.044	0.118	-0.093
rubiic iiifoffiation provision	(0.118)				
Private × Share Received	(0.118)	(0.175) 0.659***	(0.318)	(0.161)	(0.286)
rivate × Share Received			0.743**	0.738***	0.835***
Public × Share Received		(0.142)	(0.318)	(0.141)	(0.294)
		0.713***	0.888**	0.797***	0.943**
		(0.193)	(0.412)	(0.174)	(0.363)
Private × Average Degree		-0.052	-0.706*		
D.111		(0.172)	(0.374)		
Public × Average Degree		0.116	0.492		
		(0.240)	(0.430)		
Private × Average Degree × Share Received		0.503**	1.596***		
		(0.223)	(0.554)		
Public × Average Degree × Share Received		0.183	-0.436		
		(0.241)	(0.473)		
Private × Largest Eigenvalue				-0.153	-0.981**
				(0.182)	(0.412)
Public × Largest Eigenvalue				-0.027	0.100
				(0.209)	(0.382)
$Private \times Largest \ Eigenvalue \times Share \ Received$				0.662***	2.063***
				(0.228)	(0.620)
Public × Largest Eigenvalue × Share Received				0.353*	0.020
				(0.189)	(0.412)
-					
Test: same treatment effect (p value)	0.64	0.96	0.85	0.91	0.82
Test: same interaction effect (p value)		0.35	0.03	0.44	0.02
Test: same triple interaction effect (p value)		0.06	0.01	0.09	0.01
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.77]	[-0.28, 9.77]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Interaction mean		0.00	0.00	0.00	0.00
Interaction std. dev.		1.00	1.00	1.00	1.00
Interactive controls			✓		✓

Table A16: Effect of private and public information provision on posterior beliefs, by information content, prior beliefs, and network connectedness—part 1

		Posterior beliefs about incumbent party malfeas					
	(1)	(2)	(3)	(4)	(5)		
Panel A: Network connectedness only							
Private information provision	0.059	0.040	0.046	0.042	0.047		
•	(0.062)	(0.057)	(0.046)	(0.054)	(0.045)		
Public information provision	-0.060	-0.065	-0.009	-0.065	-0.009		
•	(0.058)	(0.054)	(0.047)	(0.052)	(0.046)		
Private × Average Degree		-0.044	-0.097				
0 0		(0.057)	(0.074)				
Public × Average Degree		-0.105*	-0.143				
0 0		(0.061)	(0.095)				
Private × Largest Eigenvalue		,	, ,	-0.053	-0.095		
2 2				(0.053)	(0.069)		
Public × Largest Eigenvalue				-0.113**	-0.135		
				(0.052)	(0.088)		
				(0.052)	(0.000)		
Observations	1,969	1,969	1,969	1,969	1,969		
Test: same treatment effect (p value)	0.07	0.12	0.46	0.10	0.45		
Test: same interaction effect (p value)	0.07	0.24	0.64	0.22	0.67		
		0.24	0.04	0.22	0.07		
Panel B: Prior and network connectedness							
Private information provision	0.059	0.025	0.212***	0.029	0.200**		
	(0.062)	(0.059)	(0.075)	(0.055)	(0.075)		
Public information provision	-0.060	-0.050	0.170**	-0.051	0.164**		
	(0.058)	(0.066)	(0.063)	(0.059)	(0.064)		
Private × Prior		0.016	0.158	0.010	0.145		
		(0.082)	(0.125)	(0.078)	(0.126)		
Public \times Prior		-0.072	0.035	-0.070	0.014		
		(0.089)	(0.097)	(0.081)	(0.101)		
Private × Average Degree		-0.075	-0.042				
		(0.046)	(0.089)				
Public × Average Degree		-0.093	-0.133				
2 2		(0.079)	(0.115)				
Private × Average Degree × Prior		0.089	-0.072				
Tilvate A Tiverage Begree A Tilor		(0.103)	(0.142)				
Public × Average Degree × Prior		-0.018	0.099				
Tuble × Average Degree × Thor		(0.127)	(0.206)				
Private × Largest Eigenvalue		(0.127)	(0.200)	-0.078*	-0.042		
Tivate × Largest Ligenvalue				(0.040)	(0.080)		
Public × Largest Eigenvalue					, ,		
Public × Largest Eigenvalue				-0.097	-0.110		
Diant I Ei				(0.059)	(0.091)		
Private × Largest Eigenvalue × Prior				0.089	-0.016		
DIF of (P' 1 op'				(0.103)	(0.137)		
Public × Largest Eigenvalue × Prior				-0.012	0.025		
				(0.103)	(0.165)		
OI	1.070	1.010	1.010	1.010	1.010		
Observations	1,969	1,910	1,910	1,910	1,910		
Test: same treatment effect (p value)	0.07	0.37	0.61	0.31	0.66		
Test: same interaction effect (p value)		0.81	0.31	0.73	0.41		
Test: same triple interaction effect (p value)		0.40	0.27	0.30	0.74		
Outcome range	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2		
Control outcome mean	0.01	0.01	0.01	0.01	0.01		
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35		

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panel B reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A17: Effect of private and public information provision on posterior beliefs, by information content, prior beliefs, and network connectedness—part 2

			s about incumbent party malfeasance		
	(1)	(2)	(3)	(4)	(5)
Panel C: Negative updating and network connected	ness				
Private information provision	0.059	0.033	0.326***	0.034	0.309**
	(0.062)	(0.058)	(0.113)	(0.056)	(0.118)
Public information provision	-0.060	-0.092	0.175**	-0.090	0.161*
1	(0.058)	(0.068)	(0.079)	(0.065)	(0.084)
Private × Negative Updating	(0.000)	-0.004	-0.187	-0.001	-0.184
Tivate × reguire optioning		(0.067)	(0.127)	(0.064)	(0.128)
Public × Negative Updating		0.042	-0.037	0.039	-0.025
rublic × Negative Opdatting					
		(0.075)	(0.078)	(0.068)	(0.084)
Private × Average Degree		-0.019	0.006		
		(0.088)	(0.192)		
Public × Average Degree		-0.113	0.027		
		(0.089)	(0.169)		
Private × Average Degree × Negative Updating		-0.054	0.014		
		(0.086)	(0.161)		
Public × Average Degree × Negative Updating		0.008	-0.134		
able A Treage Degree A Treguire opaning		(0.105)	(0.167)		
Private × Largest Eigenvalue		(0.105)	(0.107)	-0.023	0.030
. IIvate / Largest Ergenvalue					
2.11' I (E')				(0.093)	(0.190)
Public × Largest Eigenvalue				-0.116	-0.023
				(0.085)	(0.145)
Private × Largest Eigenvalue × Negative Updating				-0.060	-0.025
				(0.088)	(0.159)
Public × Largest Eigenvalue × Negative Updating				0.005	-0.052
				(0.087)	(0.150)
Observations	1,969	1,910	1,910	1,910	1,910
Test: same treatment effect (p value)	0.07	0.03	0.12	0.02	0.11
Test: same interaction effect (p value)	0.07	0.26	0.12	0.02	0.68
Test: same triple interaction effect (p value)		0.53	0.20	0.36	0.77
Panel D: Malfeasence spending and network connec	tedness				
Private information provision	0.059	0.016	-0.137	0.014	-0.114
•	(0.062)	(0.108)	(0.150)	(0.102)	(0.152)
Public information provision	-0.060	-0.019	-0.032	-0.022	-0.028
tuone information provision	(0.058)	(0.104)	(0.111)	(0.101)	(0.112)
Private × Malfeasant spending	(0.056)	0.113	1.289	0.126	1.049
Private × Maireasant spending					
		(0.357)	(1.111)	(0.335)	(1.093)
Public × Malfeasant spending		-0.271	0.296	-0.279	0.220
		(0.324)	(0.568)	(0.313)	(0.586)
Private × Average Degree		0.058	0.100		
		(0.101)	(0.129)		
Public × Average Degree		0.011	0.242		
		(0.115)	(0.163)		
Private × Average Degree × Malfeasant spending		-0.803	-1.499**		
invale \ Average Degree \ ivialicasani spending					
D.I.I D M.I.C "		(0.480)	(0.685)		
Public × Average Degree × Malfeasant spending		-0.794*	-2.199***		
		(0.454)	(0.681)		
Private × Largest Eigenvalue				0.039	0.127
				(0.097)	(0.115)
Public × Largest Eigenvalue				-0.034	0.163
				(0.111)	(0.162)
Private × Largest Eigenvalue × Malfeasant spending				-0.762	-1.770**
Zangest Zagerrande A transcusum spending				(0.501)	(0.554)
Public × Lorgest Eigenvalue × Melfessent en 1:					-1.869*
Public × Largest Eigenvalue × Malfeasant spending				-0.597	
				(0.447)	(0.682)
Observations	1,969	1,969	1,969	1,969	1,969
Test: same treatment effect (p value)	0.07	0.75	0.57	0.74	0.63
Test: same interaction effect (p value)		0.71	0.41	0.57	0.83
Test: same triple interaction effect (p value)		0.98	0.32	0.73	0.87
	· · · · · · · · · · · · · · · · · · ·				
Outcome range	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1,2}	{-2,-1,0,1
Control outcome mean	0.01	0.01	0.01	0.01	0.01
	0.01 1.35	0.01 1.35	0.01 1.35	0.01 1.35	0.01 1.35

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panel C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

A.10 Robustness to defining engagement and coordination indexes using inverse covariance weighting

Tables A18 and A19 show results analogous to those in Tables 4 and 5 for outcome indexes created using inverse covariance weighting (ICW).

A.11 Robustness to controlling for interactive individual-level controls

Tables A20-A22 show the full results when simultaneously controlling interactively for the following individual-level controls: age, gender, education, and income.

A.12 Robustness to defining families as nodes in networks

When denoting a node as a family name, we connect nodes within and then between beneficiaries. A beneficiary Juan Lopez Fernandez directly connects family names Lopez and Fernandez, while Maria Medina Lopez directly connects family names Lopez and Medina. As a consequence, the Lopez family node is directly connected to the family nodes Fernandez and Medina, and nodes Fernandez and Medina are indirectly connected to each other.

Table A23 first demonstrates that our two measures of network connectedness are again correlated with community connectedness outcomes. Tables A24-A27 shows the full results when network connectedness measures are computed where families, as opposed to individuals, are defined as the nodes of our networks of Prospera beneficiaries.

A.13 Robustness to controlling for the precinct share of popular last names

Tables A28-A31 show the full results when simultaneously controlling interactively for the share of individuals with high-frequency last names (see main text for details).

Table A18: Effect of information provision on voters' engagement with the information, by network connectedness

	ICW in	dex of voters	engagement	with the info	rmation
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different n	etwork conn	ectedness		
Information provision	1.211***	1.232***	1.220***	1.230***	1.220***
	(0.117)	(0.101)	(0.074)	(0.104)	(0.076)
× Average Degree		0.335**	0.231		
		(0.138)	(0.158)		
× Largest Eigenvalue				0.318**	0.218
				(0.144)	(0.149)
Panel B: Variation across precincts by	population s	hares receivi	ng the treatr	nent	
Information provision	1.211***	0.855***	0.715**	0.818***	0.712***
-	(0.117)	(0.200)	(0.266)	(0.195)	(0.255)
× Share Received		0.494**	0.581	0.551**	0.580
		(0.218)	(0.426)	(0.208)	(0.408)
× Average Degree		0.008	-0.481		
		(0.215)	(0.311)		
× Average Degree × Share Received		0.403*	0.997**		
		(0.217)	(0.373)		
× Largest Eigenvalue				-0.063	-0.535
				(0.228)	(0.335)
× Largest Eigenvalue × Share Received				0.493**	1.038**
				(0.220)	(0.388)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[31,7.27]	[31,7.27]	[31,7.27]	[31,7.27]	[31, 7.27]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls			\checkmark		✓

Table A19: Effect of information provision on voters' coordination around the information, by network connectedness

	ICW inde	ex of voters'	coordination	around the in	formation
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different n	etwork conn	ectedness		
Information provision	0.745***	0.760***	0.752***	0.758***	0.751***
	(0.093)	(0.082)	(0.077)	(0.083)	(0.080)
× Average Degree		0.259**	0.213**		
		(0.107)	(0.099)		
× Largest Eigenvalue				0.253**	0.224***
				(0.106)	(0.080)
Panel B: Variation across precincts by	population s	hares receivi	ng the treatr	nent	
Information provision	0.745***	0.298**	0.223	0.254**	0.182
	(0.093)	(0.116)	(0.211)	(0.106)	(0.200)
× Share Received		0.602***	0.588*	0.668***	0.647**
		(0.138)	(0.307)	(0.123)	(0.288)
× Average Degree		0.004	-0.301		
		(0.155)	(0.204)		
× Average Degree × Share Received		0.306	0.623***		
		(0.187)	(0.211)		
× Largest Eigenvalue				-0.059	-0.313
				(0.144)	(0.210)
× Largest Eigenvalue × Share Received				0.399**	0.656***
				(0.157)	(0.212)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[37,8.52]	[37,8.52]	[37,8.52]	[37,8.52]	[37,8.52]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls			\checkmark		\checkmark

Table A20: Effect of information provision on voters' engagement with the information, by network connectedness and including individual-level interactive controls

	Ind	lex of voters' e	ngagement wi	th the informat	tion
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts with	h different ne	twork connec	tedness		
Information provision	1.360***	1.384***	1.389***	1.381***	1.386***
	(0.127)	(0.108)	(0.116)	(0.112)	(0.119)
× Average Degree		0.415***	0.384**		
		(0.144)	(0.148)		
× Largest Eigenvalue				0.392**	0.357**
				(0.154)	(0.158)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	1.360***	1.003***	0.886***	0.963***	0.841***
_	(0.127)	(0.214)	(0.224)	(0.208)	(0.224)
× Share Received		0.497*	0.676***	0.555**	0.744***
		(0.247)	(0.234)	(0.236)	(0.231)
× Average Degree		0.094	-0.108		
		(0.254)	(0.283)		
× Average Degree × Share Received		0.394	0.642**		
		(0.252)	(0.274)		
× Largest Eigenvalue				0.009	-0.204
				(0.277)	(0.315)
× Largest Eigenvalue × Share Received				0.492*	0.747**
				(0.265)	(0.302)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive individual-level controls			\checkmark		\checkmark

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Individual-level controls include age, gender, education and income interacted with the treatment. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, *** p < 0.05, *** p < 0.01.

Table A21: Effect of information provision on voters' coordination around the information, by network connectedness and including individual-level interactive controls

		Index o	of voters' coord	lination	
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	0.689***	0.707***	0.705***	0.705***	0.702***
	(0.112)	(0.096)	(0.094)	(0.098)	(0.096)
× Average Degree		0.305**	0.279**		
		(0.122)	(0.115)		
× Largest Eigenvalue				0.291**	0.264**
				(0.127)	(0.120)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	0.689***	0.203	0.145	0.149	0.090
	(0.112)	(0.130)	(0.134)	(0.120)	(0.128)
× Share Received		0.658***	0.743***	0.736***	0.824***
		(0.146)	(0.144)	(0.132)	(0.133)
× Average Degree		0.020	-0.101		
		(0.174)	(0.189)		
× Average Degree × Share Received		0.341*	0.491**		
		(0.196)	(0.203)		
× Largest Eigenvalue				-0.080	-0.207
				(0.171)	(0.191)
× Largest Eigenvalue × Share Received				0.473**	0.629***
				(0.172)	(0.188)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean		0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive individual-level controls			\checkmark		\checkmark

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Individual-level controls include age, gender, education and income interacted with the treatment. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, *** p < 0.05, *** p < 0.01.

Table A22: Effect of information provision on posterior beliefs, by network connectedness and including individual-level interactive controls

	Posterio	r beliefs at	out incumb	ent party n	nalfeasand
	(1)	(2)	(3)	(4)	(5)
Panel A: Network connectedness measures					
Information provision	-0.002	-0.012	-0.011	-0.011	-0.011
1	(0.052)	(0.046)	(0.050)	(0.043)	(0.047)
× Average Degree	, ,	-0.066	-0.074	, ,	, ,
		(0.054)	(0.053)		
× Largest Eigenvalue		()	()	-0.076	-0.084*
				(0.048)	(0.046)
				, ,	, ,
Observations	1,969	1,969	1,969	1,969	1,969
Panel B: Prior and network connectedness					
Information provision	-0.002	-0.018	-0.001	-0.016	0.001
	(0.052)	(0.049)	(0.052)	(0.045)	(0.048)
× Average Degree × Prior		0.044	0.055		
		(0.093)	(0.089)		
× Largest Eigenvalue × Prior				0.040	0.049
				(0.091)	(0.087)
OI	1.060	1.010	1.010	1.010	1.010
Observations	1,969	1,910	1,910	1,910	1,910
Prior mean		0.06	0.06	0.06	0.06
Prior std. dev.		0.67	0.67	0.67	0.67
Panel C: Negative updating and network cor	nectedno	ess			
Information provision	-0.002	-0.032	-0.016	-0.032	-0.016
	(0.052)	(0.060)	(0.058)	(0.057)	(0.055)
× Average Degree × Negative updating		-0.021	-0.021		
		(0.078)	(0.076)		
× Largest Eigenvalue × Negative updating				-0.022	-0.022
				(0.080)	(0.078)
Observations	1,969	1,910	1,910	1,910	1,910
Negative updating mean	1,,,0,,	0.79	0.79	0.79	0.79
Negative updating std. dev.		0.81	0.81	0.81	0.81
			0.01	0.01	0.01
Panel D: Malfeasence spending and network Information provision	-0.002	-0.001	-0.010	-0.002	-0.011
information provision	(0.052)	(0.092)	(0.098)	(0.086)	(0.093)
× Average Degree × Malfeasant spending	(0.052)	-0.832*	-0.781**	(0.000)	(0.093)
A Average Degree A Maneasant spending		(0.413)	(0.380)		
× Largest Eigenvalue × Malfeasant spending		(0.413)	(0.560)	-0.742*	-0.672*
^ Largest Eigenvalue ^ Ivianeasant spending				(0.392)	(0.350)
				(0.374)	(0.550)
Observations	1,969	1,969	1,969	1,969	1,969
Malfeasant spending mean	•	0.18	0.18	0.18	0.18
Malfeasant spending std. dev.		0.14	0.14	0.14	0.14
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Individual-level controls include age, gender, education and income interacted with the treatment. The smaller sample in columns (2)-(5) of panels B and C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A23: Correlation between locality-level network connectedness measures and locality-level community connectedness outcomes, defining families as network nodes

		ommunity ness index	Partici _j Ind	L	Effic inc	cacy lex
Average Degree	0.043*** (0.013)		0.048*** (0.011)		0.054*** (0.019)	
Largest Eigenvalue		0.043*** (0.015)		0.045** (0.017)		0.053*** (0.018)
Observations	2,267	2,267	2,206	2,206	2,267	2,267
Outcome range	[0, 2.25]	[0, 2.25]	[0, 1]	[0, 1]	[0, 3]	[0, 3]
Outcome mean	0.74	0.74	0.13	0.13	1.32	1.32
Outcome std. dev.	0.32	0.32	0.28	0.28	0.49	0.49
Network mean	0.00	0.00	0.01	0.01	0.00	0.00
Network std. dev.	1.00	1.00	1.01	1.01	1.00	1.00

Notes: All specifications estimated using OLS. Both measures of network connectedness are standardized. Standard errors clustered by municipality are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

A.14 Robustness of Table 8 to considering incumbent party vote share (over turnout) as an outcome

Table A32 shows precinct-level results analogous to those in Table 8 for individual-level beliefs.

Table A24: Effect of information provision on incumbent party vote share across precincts with varying network connectedness, family names as nodes

Panel A: Incumbent party vote share (share of turnout)	(1)	, (2)	(3)	weighted by share of population that feeling featiers (1) (2) (3) (4) (5)	r realiets (5)	(9)	6	Unweignted (8)	6)	(10)
	are of turr	out)								
Information provision	0.038***	0.035***	0.039***	0.037***	0.040***	0.029***	-0.000	0.092	-0.004	0.026
imes Average Degree		-0.029*** (0.010)	-0.036*** (0.013)		(2000)		0.056**	0.001		
imes Largest Eigenvalue		,	,	-0.026***	-0.036***		,	•	0.055***	-0.007
× Share Received				(0.001)	(00:00)		0.026	-0.154	0.036*	0.005
\times Average Degree \times Share Received							(0.018)	(0.195)	(0.018)	(0.038)
V I graget Biagnoglya V Shara Received							(0.023)	(0.062)	***8800	0.030
> Langest Ligenvalue > Share Need you									(0.019)	(0.044)
Control outcome mean	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Control outcome std. dev.	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Panel B: Incumbent party vote share (share of registered voters)	are of regi	stered voter	s)							
Information provision	0.021***	0.020***	0.023***	0.021***	0.023***	0.014***	-0.011	0.057	-0.014*	-0.000
,	(0.004)	(0.004)	(0.006)	(0.003)	(0.005)	(0.003)	(0.008)	(0.039)	(0.008)	(0.016)
imes Average Degree		-0.014*** (0.005)	-0.018** (0.007)				0.034*** (0.011)	(0.025)		
imes Largest Eigenvalue				-0.013***	-0.019***				0.031***	0.012
				(0.004)	(0.006)				(0.008)	(0.016)
× Share Received							0.025**	-0.138	0.031***	0.021
\times Average Degree \times Share Received							-0.052*** (0.011)		(200.0)	(0.010)
\times Largest Eigenvalue \times Share Received									-0.047***	-0.036**
									(0.000)	(0.017)
Control outcome mean	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Control outcome std. dev.	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Observations	596	296	296	296	296	296	296	296	296	296
Share Received mean	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Share Received std. dev.	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Interactive controls			>		>			>		>

Notes: All specifications include block fixed effects and are estimated using OLS. Observations in columns (1)-(5) are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts); observations in columns (6)-(10) are unweighted. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3), (5), (8) and (10) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. Standard errors clustered by municipality-treatment are in parentheses. *p < 0.1, **p < 0.05, *** p < 0.01.

Table A25: Effect of information provision on voters' engagement with the information across precincts with varying network connectedness, family names as nodes

	Ind	lex of voters' e	engagement wi	th the informat	tion
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	1.360***	1.409***	1.365***	1.400***	1.366***
	(0.127)	(0.130)	(0.087)	(0.116)	(0.085)
× Average Degree		0.369**	-0.049		
		(0.161)	(0.157)		
× Largest Eigenvalue				0.431***	0.275
				(0.154)	(0.164)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	1.360***	0.828***	0.699**	0.937***	0.625**
	(0.127)	(0.208)	(0.340)	(0.203)	(0.296)
× Share Received		0.804***	0.856	0.621**	0.908*
		(0.269)	(0.530)	(0.228)	(0.485)
× Average Degree		0.048	-0.740**		
		(0.254)	(0.352)		
× Average Degree × Share Received		0.456	0.981*		
		(0.270)	(0.481)		
× Largest Eigenvalue				0.023	-0.576
				(0.241)	(0.401)
\times Largest Eigenvalue \times Share Received				0.540**	1.267**
				(0.247)	(0.539)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean	1.00	0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls		0.11	√ √	0.11	√ √
Internet of Controls			•		•

Table A26: Effect of information provision on voters' coordination across precincts with varying network connectedness, family names as nodes

		Index of	of voters' coord	lination	
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	0.689***	0.718***	0.698***	0.719***	0.703***
-	(0.112)	(0.123)	(0.091)	(0.105)	(0.092)
× Average Degree		0.213	-0.138		
		(0.129)	(0.086)		
× Largest Eigenvalue				0.306**	0.178
				(0.131)	(0.116)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	0.689***	-0.022	0.064	0.122	-0.031
-	(0.112)	(0.131)	(0.189)	(0.120)	(0.226)
× Share Received		1.026***	0.826***	0.802***	0.919***
		(0.200)	(0.272)	(0.133)	(0.323)
× Average Degree		-0.208	-0.226		
-		(0.156)	(0.316)		
× Average Degree × Share Received		0.588**	0.205		
-		(0.213)	(0.430)		
× Largest Eigenvalue				-0.096	-0.186
				(0.158)	(0.292)
× Largest Eigenvalue × Share Received				0.533***	0.512
				(0.172)	(0.315)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean	1.00	0.78	0.78	0.78	0.78
Share Received std. dev.		0.78	0.78	0.78	0.78
Interactive controls		0.71	0.41 ✓	0.71	0. 4 1 ✓
interactive controls			V		V

Table A27: Effect of treatment on posterior beliefs across precincts with varying priors and network connectedness, family names as nodes

					malfeasanc
	(1)	(2)	(3)	(4)	(5)
Panel A: Network connectedness measures					
Information provision	-0.002	-0.028	-0.008	-0.021	-0.013
	(0.052)	(0.052)	(0.032)	(0.047)	(0.030)
× Average Degree		-0.044	0.077		
		(0.058)	(0.084)		
× Largest Eigenvalue				-0.073	-0.070
				(0.062)	(0.087)
Observations	1,969	1,969	1,969	1,969	1,969
Panel B: Prior and network connectedness					
Information provision	-0.002	-0.026	0.155**	-0.027	0.129***
	(0.052)	(0.051)	(0.056)	(0.049)	(0.045)
× Average Degree × Prior		-0.029	0.376		
		(0.106)	(0.234)		
× Largest Eigenvalue × Prior				0.057	0.135
				(0.113)	(0.158)
Observations	1,969	1,910	1,910	1,910	1,910
Prior mean	1,,,,,,	0.06	0.06	0.06	0.06
Prior std. dev.		0.67	0.67	0.67	0.67
	_		0.07	0.07	0.07
Panel C: Negative updating and network com			0.000	0.040	0.400
Information provision	-0.002	-0.075	0.229**	-0.040	0.180**
	(0.052)	(0.060)	(0.102)	(0.061)	(0.077)
× Average Degree × Negative updating		0.052	-0.381*		
		(0.071)	(0.187)	0.006	0.4.4
× Largest Eigenvalue × Negative updating				-0.026	-0.141
				(0.090)	(0.169)
Observations	1,969	1,910	1,910	1,910	1,910
Negative updating mean		0.79	0.79	0.79	0.79
Negative updating std. dev.		0.81	0.81	0.81	0.81
Panel D: Malfeasence spending and network of	connected	ness			
Information provision	-0.002	-0.080	-0.061	-0.007	-0.100
	(0.052)	(0.099)	(0.072)	(0.093)	(0.078)
× Average Degree × Malfeasance spending		-0.303	-0.630		
		(0.299)	(0.978)		
× Largest Eigenvalue × Malfeasance Spending				-0.967*	-2.224**
				(0.481)	(0.766)
Observations	1,969	1,969	1,969	1,969	1,969
Malfeasant spending mean	,	0.18	0.18	0.18	0.18
Malfeasant spending std. dev.		0.14	0.14	0.14	0.14
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome mean Control outcome std. dev.	0.01 1.35	0.01 1.35	0.01 1.35	0.01 1.35	0.01 1.35

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include: precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PAN, PRD, PRI, and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panels B and C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, *** p < 0.05, *** p < 0.01.

Table A28: Effect of information provision on incumbent party vote share across precincts with varying network connectedness, controlling for the share of individuals with high-frequency last names

	Weighter (1)	d by share of (2)	population (3)	Weighted by share of population that received leaflets (1) (2) (3) (4) (5)	l leaflets (5)	(9)	6	Unweighted (8)	6	(10)
Panel A: Incumbent party vote share (share of turnout)	hare of turn	nout)								
Information provision	0.038***	0.038**	0.044***	0.038***	0.044***	0.029***	-0.006	0.115**	-0.005	0.037
	(0.007)	(0.005)	(0.000)	(0.005)	(0.000)	(0.000)	(0.016)	(0.044)	(0.015)	(0.030)
imes Average Degree		-0.023***	-0.022* (0.012)				0.052**	0.066		
× Largest Eigenvalue		,	,	-0.027***	-0.031**		,	,	0.048**	0.047
				(0.000)	(0.011)				(0.019)	(0.039)
\times Share Received							0.041**	-0.237**	0.040**	-0.009
× Average Degree × Share Received							(0.019)	(0.102)	(0.018)	(0.039)
							(0.019)	(0.046)		
\times Largest Eigenvalue \times Share Received									-0.079*** (0.018)	-0.084* (0.047)
Control outcome mean	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Control outcome std. dev.	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Panel B: Incumbent party vote share (share of registered voters)	hare of regi	stered voter	s)							
Information provision	0.021***	0.022***	0.025***	0.022***	0.025***	0.014**	-0.015*	0.044**	-0.015*	0.004
	(0.004)	(0.003)	(0.005)	(0.004)	(0.005)	(0.003)	(0.008)	(0.019)	(0.007)	(0.016)
imes Average Degree		-0.011***	-0.010				0.030***	0.035		
× Largest Eigenvalue		(100.01)	(00:00)	-0.013***	-0.014*		(0.003)	(0.0.0)	0.029***	0.032
)				(0.003)	(0.007)				(0.00)	(0.022)
× Share Received							0.034***	-0.091*	0.034**	0.014
× Average Degree × Share Received							(0.010)	(0.045)	(0.010)	(0.018)
							(0.000)	(0.027)		
\times Largest Eigenvalue \times Share Received									-0.043***	-0.049**
									(0.00)	(0.023)
Control outcome mean	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Control outcome std. dev.	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00
Observations	596	296	296	296	296	296	296	296	296	296
Share Received mean	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.79
Share Received std. dev.	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
Interactive controls			>		>			>		>

Notes: All specifications include block fixed effects and are estimated using OLS. Observations in columns (1)-(5) are weighted by the share of the precinct that received a leaflet (or would have received a leaflet, for control precincts); observations in columns (6)-(10) are unweighted. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3), (5), (8) and (10) include precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, the PRI, PAN, PRD and incumbent vote shares in 2012, and share of individuals with popular names. Standard errors clustered by municipalitytreatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A29: Effect of information provision on voters' engagement with the information across precincts with varying network connectedness, controlling for the share of individuals with high-frequency last names

	Ind	lex of voters' e	engagement wi	th the informat	tion
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	1.360***	1.384***	1.352***	1.381***	1.353***
_	(0.127)	(0.108)	(0.075)	(0.112)	(0.077)
× Average Degree		0.415***	0.251*		
		(0.144)	(0.142)		
× Largest Eigenvalue				0.392**	0.224*
				(0.154)	(0.128)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	1.360***	1.003***	0.720**	0.963***	0.791***
-	(0.127)	(0.214)	(0.272)	(0.208)	(0.271)
× Share Received		0.497*	0.800*	0.555**	0.717
		(0.247)	(0.452)	(0.236)	(0.444)
× Average Degree		0.094	-1.030**		
		(0.254)	(0.384)		
× Average Degree × Share Received		0.394	1.675***		
		(0.252)	(0.437)		
× Largest Eigenvalue				0.009	-1.038***
				(0.277)	(0.366)
× Largest Eigenvalue × Share Received				0.492*	1.605***
				(0.265)	(0.419)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]	[-0.28,6.41]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean	1.00	0.78	0.78	0.78	0.78
Share Received std. dev.		0.76	0.78	0.78	0.76
Interactive controls		0.11	√ √	0.11	√ √
Interactive controls			•		

Table A30: Effect of information provision on voters' coordination across precincts with varying network connectedness, controlling for the share of individuals with high-frequency last names

		Index of	of voters' coord	lination	
	(1)	(2)	(3)	(4)	(5)
Panel A: Variation across precincts wit	h different ne	twork connec	tedness		
Information provision	0.689***	0.707***	0.693***	0.705***	0.697***
	(0.112)	(0.096)	(0.081)	(0.098)	(0.082)
× Average Degree		0.305**	0.129		
		(0.122)	(0.124)		
× Largest Eigenvalue				0.291**	0.101
				(0.127)	(0.096)
Panel B: Variation across precincts by	population sh	ares receiving	the treatmen	t	
Information provision	0.689***	0.203	-0.099	0.149	-0.089
	(0.112)	(0.130)	(0.254)	(0.120)	(0.244)
× Share Received		0.658***	0.974**	0.736***	0.979***
		(0.146)	(0.375)	(0.132)	(0.352)
× Average Degree		0.020	-0.100		
		(0.174)	(0.287)		
× Average Degree × Share Received		0.341*	0.470*		
		(0.196)	(0.260)		
× Largest Eigenvalue				-0.080	-0.288
				(0.171)	(0.248)
\times Largest Eigenvalue \times Share Received				0.473**	0.653**
				(0.172)	(0.243)
Observations	2,218	2,218	2,218	2,218	2,218
Outcome range	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]	[-0.28,9.77]
Control outcome mean	0.00	0.00	0.00	0.00	0.00
Control outcome std. dev.	1.00	1.00	1.00	1.00	1.00
Share Received mean	1.00	0.78	0.78	0.78	0.78
Share Received std. dev.		0.41	0.41	0.41	0.41
Interactive controls			✓		✓

Table A31: Effect of treatment on posterior beliefs across precincts with varying priors and network connectedness, controlling for the share of individuals with high-frequency last names

	Posterio	r beliefs a	bout incum	bent party	malfeasance
	(1)	(2)	(3)	(4)	(5)
Panel A: Network connectedness measures					
Information provision	-0.002	-0.012	-0.005	-0.011	-0.005
•	(0.052)	(0.046)	(0.030)	(0.043)	(0.030)
× Average Degree		-0.067	-0.028		
0 0		(0.054)	(0.090)		
× Largest Eigenvalue			, ,	-0.076	-0.033
				(0.048)	(0.071)
Observations	1,969	1,969	1,969	1,969	1,969
Panel B: Prior and network connectedness					
Information provision	-0.002	-0.018	0.099**	-0.016	0.095**
1	(0.052)	(0.049)	(0.044)	(0.045)	(0.044)
× Average Degree × Prior	, ,	0.044	0.226	, ,	, ,
		(0.093)	(0.160)		
× Largest Eigenvalue × Prior		(0.07-)	(01-00)	0.040	0.189
88				(0.091)	(0.157)
				(0.05-)	(*****)
Observations	1,969	1,910	1,910	1,910	1,910
Prior mean	-,, -,	0.06	0.06	0.06	0.06
Prior std. dev.		0.67	0.67	0.67	0.67
D. I.G.N. at a late of the lat					
Panel C: Negative updating and network com			0.122	0.022	0.120
Information provision	-0.002	-0.032	0.132	-0.032	0.130
	(0.052)	(0.060)	(0.091)	(0.057)	(0.093)
× Average Degree × Negative updating		-0.021	-0.175		
		(0.078)	(0.174)		0.4.50
\times Largest Eigenvalue \times Negative updating				-0.022	-0.150
				(0.080)	(0.178)
Observations	1,969	1,910	1,910	1,910	1,910
Negative updating mean	1,707	0.79	0.79	0.79	0.79
Negative updating std. dev.		0.75	0.75	0.75	0.75
			0.01	0.01	0.01
Panel D: Malfeasence spending and network					
Information provision	-0.002	-0.001	-0.061	-0.002	-0.055
	(0.052)	(0.092)	(0.093)	(0.086)	(0.089)
× Average Degree × Malfeasance spending		-0.832*	-0.796		
		(0.413)	(0.890)		
\times Largest Eigenvalue \times Malfeasance Spending				-0.742*	-0.925
				(0.392)	(0.689)
Observations	1,969	1,969	1,969	1,969	1,969
Malfeasant spending mean	,	0.18	0.18	0.18	0.18
Malfeasant spending std. dev.		0.14	0.14	0.14	0.14
Control outcome mean	0.01	0.01	0.01	0.01	0.01
Control outcome std. dev.	1.35	1.35	1.35	1.35	1.35
Interactive controls	1.33	1.33	1.55 ✓	1.33	1.55 ✓
INCIACITY CONTIONS			✓		✓

Notes: All specifications include block fixed effects and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, the PRI, PAN, PRD and incumbent vote shares in 2012, and share of individuals with popular names. The smaller sample in columns (2)-(5) of panels B and C reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table A32: Effect of information provision on incumbent party vote share (over turnout) across precincts with varying prior, updating, spending, and network connectedness

	Inc	cumbent party vote share (over turnout)			
	(1)	(2)	(3)	(4)	(5)
Panel A: Interaction with prior					
Information provision	0.038***	0.028***	0.031***	0.029***	0.032***
	(0.007)	(0.005)	(0.006)	(0.006)	(0.006)
× Average Degree × Prior		0.017	0.048**		
		(0.014)	(0.020)		
× Largest Eigenvalue × Prior				0.010	0.033*
				(0.013)	(0.018)
Observations	296	277	277	277	277
Prior mean		0.08	0.08	0.08	0.08
Prior std. dev.		0.69	0.69	0.69	0.69
Panel B: Interaction with negative updating					
Information provision	0.038***	0.043***	0.037***	0.043***	0.036***
	(0.007)	(0.005)	(0.007)	(0.005)	(0.007)
× Average Degree × Negative updating		-0.023	-0.045**		
		(0.014)	(0.020)		
× Largest Eigenvalue × Negative updating				-0.018	-0.033*
				(0.013)	(0.017)
Observations	296	277	277	277	277
Negative updating mean		0.76	0.76	0.76	0.76
Negative updating std. dev.		0.84	0.84	0.84	0.84
Panel C: Interaction with Malfeasant spending	ıg				
Information provision	0.038***	0.046***	0.045***	0.046***	0.046***
	(0.007)	(0.009)	(0.014)	(0.009)	(0.014)
\times Average Degree \times Malfeasance spending		-0.123	0.168*		
		(0.086)	(0.085)		
\times Largest Eigenvalue \times Malfeasance Spending				-0.131*	0.178*
				(0.077)	(0.089)
Observations	296	296	296	296	296
Malfeasance spending mean		0.18	0.18	0.18	0.18
Malfeasance spending std. dev.		0.13	0.13	0.13	0.13
Control outcome mean	0.35	0.36	0.36	0.36	0.36
Control outcome std. dev.	0.14	0.14	0.14	0.14	0.14
Interactive controls			\checkmark		\checkmark

Notes: All specifications include block fixed effects, weighted by the share of the precinct that was treated, and are estimated using OLS. Lower-order interaction terms are omitted. Both measures of network connectedness are standardized. Controls interacted with the treatment in columns (3) and (5) include precinct population density, urban indicator, level of development, distance to the municipality center, share of Prospera beneficiaries, and the PRI, PAN, PRD and incumbent vote shares in 2012. The smaller sample in columns (2)-(5) of panels A and B reflects the lack of data on prior beliefs about the incumbent party in Apaseo el Alto. Standard errors clustered by municipality-treatment are in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01. A44