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Social capital in Paraguay: an asset for combatting vulnerability during the COVID-19 pandemic?

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Solidarity has been a hallmark of the COVID-19 pandemic response in Paraguay. Many vulnerable communities have found ways to survive in the crisis context by mobilizing support from community and volunteer networks and civil society organizations, and also by accessing institutional forms of support, such as cash transfer programmes. How pervasive is collective action in vulnerable territories during the pandemic? Who engages in collective action, and to what end? And does it reduce vulnerability? This policy brief reports preliminary results of a survey on social capital in selected territories of Paraguay and its relationship with economic vulnerability during the first year of the COVID-19 pandemic. The data presented provide insights into how trust and social capital have enabled collective action in vulnerable territories of Paraguay during the pandemic. This evidence can inform policy debates on how to increase resiliency and reduce vulnerability and allow us to identify, design and evaluate interventions to increase access to formal and informal types of aid in vulnerable territories.

The concept of social capital refers to the nature of group life and sociability for cooperation, trust and social cohesion. Political scientists and sociologists define it as the characteristics of social organization, such as interpersonal networks and norms or reciprocity and trust, which facilitate coordination and cooperation for mutual benefit.² Research has identified the particularly important role of social capital in disaster response and recovery.^{3,4,5,6}

With an informal employment rate of 65.1 percent,⁷ most Paraguayans fall outside the formal safety net of social insurance and work beyond the reach of public sector regulatory and welfare institutions. To mitigate the health impact of the pandemic's first wave, the Paraguayan government implemented social distancing measures in March 2020, producing an immediate economic shock: by June 2020, 64 percent of households reported a decrease in their total income, 44 percent declared

that they had reduced their consumption of goods during the pandemic, and 27 percent stated that they ran out of food due to a lack of money and resources.⁸ The subsequent policy response included emergency subsidies that reached more than a million vulnerable people, mainly informal workers, excluding those who were already registered in other pre-existing social protection programs.⁹

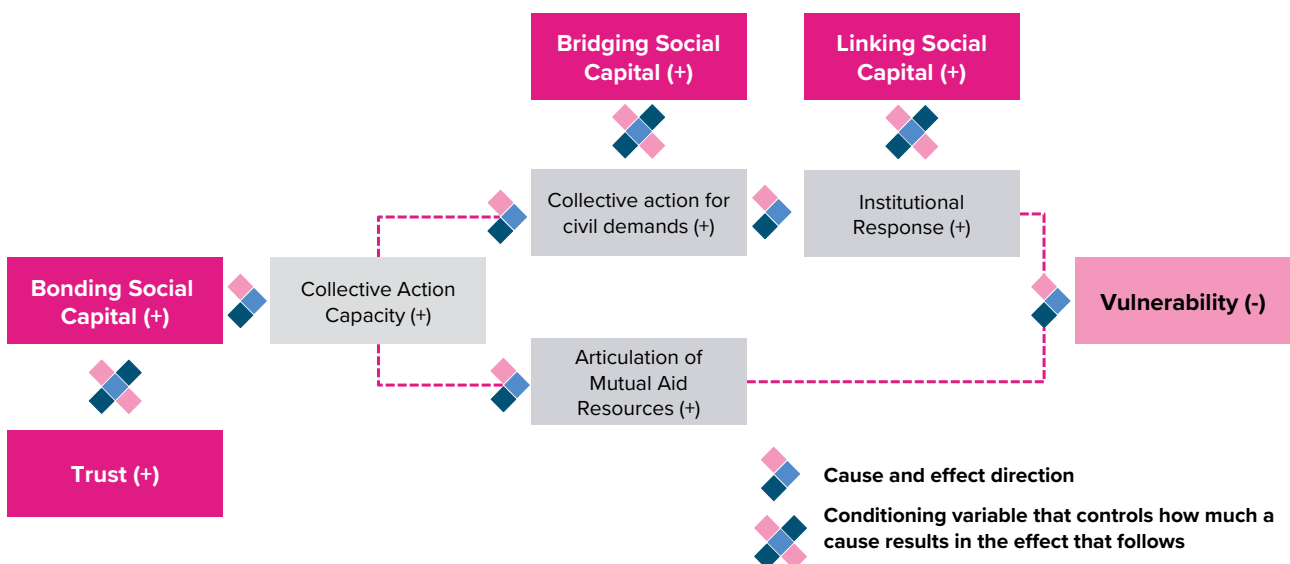
On the other hand, vulnerable communities mobilized their interpersonal networks to cover the pandemic’s economic and social costs through collective action and mutual aid, particularly to address the peak of household food insecurity. Community soup kitchens appeared throughout the country as a common grassroots response. Our work at the UNDP Accelerator Lab in Paraguay mapped these initiatives¹⁰ and inspired a research project focused on whether and how social capital networks affected access to aid and economic vulnerability during the pandemic.

Conceptualizing Social Capital, Trust and Vulnerability

The study aligns closely with UNDP’s social cohesion framework,¹¹ focusing on two analytical categories: horizontal social cohesion (bonding, bridging and linking social capital) and vertical

cohesion (trust between government and society). We measure the three types of social capital¹² as well as interpersonal and institutional trust of individual residents of vulnerable territories in Paraguay.^{13,14,15} To conceptualize and measure vulnerability, we adopt a framework that emphasizes social exclusion¹⁶ and multi-dimensional poverty.¹⁷ Finally, we conceptualize collective action in terms of individuals’ knowledge of and participation in the collective community responses organized in response to the pandemic.¹⁸ This conceptual framework, combined with preliminary empirical observations, exploratory data analysis of secondary sources, and literature review, inspired a set of hypotheses that conceptualize trust as a factor that conditions individuals’ capacity to mobilize their interpersonal ties with members of their own social groups (bonding ties) to achieve collective action in their communities. In turn, we propose that the social ties that bridge different social groups promote collective action in the form of community demands for public aid. We further propose that when community members have social ties to individuals in positions of institutional authority (linking ties), community demands produce a greater institutional response. Finally, a positive institutional response decreases vulnerability (see Figure 1). Alternatively, capacity for collective action can promote the articulation of resources for mutual aid, directly lowering vulnerability.

Figure 1: The causal chain of social capital, trust, collective action and vulnerability



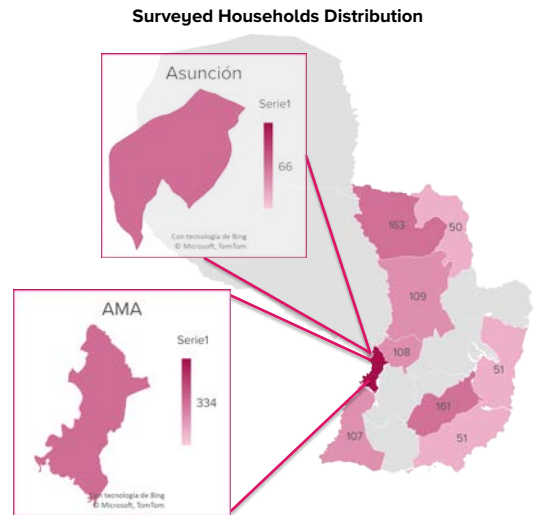
Methods and Data

Between December 2020 and January 2021, we conducted an original survey among a representative sample of Paraguay’s population

(see Table 1), focused on households located in areas with higher poverty levels in its more densely populated Eastern Region.

Table 1: Distribution of the sample according to strata, substrata, districts and area (number of households)

Layer	Sub-layer	Area		Total
		Urban	Rural	
Asunción Metropolitan Area	Asunción	66	0	66
	Central Department	293	41	334
Rest of the Eastern Region	Large conglomerates	134	18	152
	Medium-sized Districts	133	191	324
	Small Districts	133	191	324
Total		759	441	1200



The surveyed population is made up of 47.9 percent men and 52.1 percent women aged 18 years and over. On average, they are 42 years old, and more than half of the respondents (60.3 percent) reported having six years of schooling or less.

Figure 2: Modules of the survey



Figure 2 shows the data collected in each module of the survey, designed to measure the variables of our hypothesis. Using these data, we operationalized our variables as indexes created by summing the responses to specific survey questions

(Figure 2). We further aggregate these scores to calculate territorial indexes and to compare their values for different subsets of the population. Table 2 shows the range for each of the calculated indexes.¹⁹

Table 2: Score ranges (all measurements related to the pandemic)

Indexes	Min.	Max.	Indexes	Min.	Max.
Bonding social capital: measures interactions, trustworthy relationships and size of interpersonal networks of individuals with respect to similar people in terms of religion, gender, ethnicity, socioeconomic status, etc.	0	26	Collective action for civic demands: describes participation of individuals in actions taken by their communities to make civil demands to the government (e.g., demonstrations and protests)	0	3
Bridging social capital: measures interactions, trustworthy relationships and size of interpersonal networks of individuals with respect to different people in terms of religion, gender, ethnicity, socioeconomic status, etc.	0	32	Access to community commons: measures access that individuals have to community commons, such as producer committees, water sanitation boards, etc.	0	19
Linking social capital: measures interactions of individuals with people in power positions (e.g., party leaders) and the influence of the latter in the community.	0	51	Public institutional response: refers to the help received by the individuals from public institutions (e.g., subsidies).	0	10
Interpersonal trust: measures the level of trust of individuals in other people.	-6	6	Institutional trust: measures the level of trust of individuals in institutions during the pandemic.	-18	18
Civil institutional response: refers to the help received by the individuals from civil sectors.	0	1	Private institutional response: refers to the help received by the individuals from private sectors during the outbreak of COVID-19.	0	1
Collective action for mutual aid: measures participation of individuals in self-organized actions by the community to address needs or problems (e.g., community soup kitchen).	0	3	Vulnerability: describes the level of vulnerability of individuals in terms of their housing conditions (access to quality drinking water, waste disposal) and their employment situation during the pandemic.	0	16.21
Collective action linked to community commons: the level of participation of the individuals in the use of management of community commons in the pandemic (for example, participation in the coordination of producer committees).			0	18	

Results

Figure 3 reports the results of the main indexes calculated for this analysis. First, we observe a low degree of vulnerability on average in the period corresponding to the pandemic (a total of 4.61 out of a maximum possible score of 16.21). However, rural areas present higher levels of vulnerability compared to urban areas ($t=-14.94$; $p\text{-value}=0.000$).

First, the negative values of the trust indexes (Figure 3c) indicate the presence of distrust in the territories toward other members of the community and also toward formal institutions (government, civil organizations, political parties, private companies, the church and the police). This distrust is significantly higher in urban zones compared to

rural zones ($t=-5.76$ and $t=-7.26$ for interpersonal and institutional trust, respectively; $p=0.000$ in both cases), meaning that individuals in rural areas tend to trust more in their peers and institutions.

Second, the average social capital score is well below the theoretical maximum score of each index. This result is difficult to interpret without comparative benchmarks. However, it suggests that the overall capacity for collective action during the pandemic has been low.

This result differs slightly by region. Bonding and linking social capital are significantly stronger in rural areas than in urban areas ($t=-2.87$; $p\text{-value}=0.004$),

meaning that interpersonal networks in rural areas tend to bond individuals to others that share their (professional, class, religious, gender or political) identity and to individuals in positions of institutional authority more than is the case for individuals in urban areas.

The incidence of collective action also demonstrated a regionally distinctive pattern. Collective action linked to the use of community commons/ collective assets is higher in rural areas ($t=-7.79$,

$p\text{-value}=0.000$), which is also associated with the greater access to community commons/collective assets reported by rural zones (Figure 3e). On the other hand, collective action for mutual aid and for civic demands is significantly higher in urban areas (at 5 percent and 10 percent levels, respectively).

Finally, we can observe low levels of institutional response to the COVID-19 outbreak that do not vary substantially by area but that slightly favor rural areas (significant at the 1 percent level).

Figure 3: Indexes of social capital, trust, collective action, access to commons and vulnerability during the COVID-19 outbreak (December-January 2020, sample averages)



Analysis

On average, trust, collective action and individual-report institutional response to the pandemic register low values in Paraguay, as does economic vulnerability. However, understanding and

improving the policy response to the pandemic requires analyzing how this varies among individuals. How are trust, social capital, collective action and vulnerability interrelated?

Table 3: Results of the two-way correlations conducted for the analysis

Variables	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(1) Bonding SC	1.00												
(2) Bridging SC	0.52*	1.00											
(3) Linking SC	0.24*	0.38*	1.00										
(4) Interpersonal trust	0.13*	0.12*	0.12*	1.00									
(5) Institutional trust	0.07*	-0.01	0.06*	0.32*	1.00								
(6) Vulnerability	-0.07*	-0.19*	-0.12*	0.01	0.10*	1.00							
(7) Collective action for mutual aid	0.17*	0.19*	0.33*	0.13*	0.00	-0.13*	1.00						
(8) Collective action linked to community commons	0.09*	0.09*	0.21*	0.13*	0.10*	0.03	0.16*	1.00					
(9) Collective action for civil demands	0.05	0.08*	0.17*	0.06*	0.04	-0.07*	0.26*	0.16*	1.00				
(10) Access to community commons	0.14*	0.11*	0.18*	0.08*	0.07*	-0.10*	0.16*	0.37*	0.10*	1.00			
(11) Public institutional response	0.00	-0.07*	0.01	0.10*	0.16*	0.23*	-0.02	0.07*	-0.03	-0.01	1.00		
(12) Private institutional response	0.01	0.06*	0.02	-0.00	0.01	-0.06*	0.09*	0.00	0.10*	0.03	0.02	1.00	
(13) Civil institutional response	0.02	0.06*	0.04	-0.01	0.00	-0.03	0.08*	0.02	0.09*	0.01	-0.00	0.24*	1.00

Note: * correlation coefficients significant at the 5% level

Two-way correlations and standard t-tests conducted using the survey data provide

2. **More diverse social networks mean more political access.** Individuals with greater

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