Religious Media, Conversion and its Socioeconomic Consequences: The Rise of Pentecostals in Brazil

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Motivation

- All world religions endorse certain behaviors and uphold certain social norms
 - Marital norms, fertility
 - Political candidates and parties
 - Meaning to life
- Despite recent advance, we still know little about the causal effects of religion on behaviors
- Difficult to study the causal effect of religion on behaviors
 - 1) Ingrained to culture and institutions
 - 2) Endogeneity in affiliation and participation

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- All world religions endorse certain behaviors and uphold certain social norms
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 - Meaning to life
- Despite recent advance, we still know little about the causal effects of religion on behaviors
- Difficult to study the causal effect of religion on behaviors
 - 1) Ingrained to culture and institutions o Fast-growing new religious movements
 - 2) Endogeneity in affiliation and participation \rightarrow Exogenous shocks to the probability of conversion

This Paper

We study the rise of Pentecostal in Brazil

- One of the world's fastest-growing religious movement
 - ▶ Increased by 400% between 1991 and 2010 in Brazil
 - ► From 3% of the population in 1980, to 16.8% in 2010
 - Foster conservative values, particularly for women
- Quasi-random variation in exposure to religious media
 - lacktriangle Bankruptcy of a channel in a very concentrated ightarrow unique opportunity
 - lacktriangle Change of ownership of a TV channel ightarrow religious content
- Church-prescribed behaviors:
 - ► Traditional role of women: FLFP, fertility, education
 - Voting

This Paper

Question

- Can religious media affect religious affiliation?
- ▶ If so, is this change in religious affiliation followed by changes in behaviors?

Empirical Strategy

- Quasi-random variation in exposure to religious media
- Compare the evolution of the outcomes of interest in regions exposed to religious content to those not exposed

Main Results

- Exposure to religious media increases Pentecostal affiliation
 - ★ Medium-term: 25% from baseline, 10% of 1991-2000 increase
 - ★ Long-term: 50% from baseline, 12% of 1991-2010 increase
- Adherence to church-prescribed behaviors:
 - ★ Traditional role of women: higher fertility, lower female labor force participation, lower school completion for girls in the next generation
 - ★ No effects on male labor force participation
 - ★ More votes to Pentecostal candidates

Literature Review

1) Religion on Behaviors

- Historical religions Bassi and Rasul 2017; Campante and d Yanagizawa-Dot, 2015; Fruehwirth, Yer, and Zhang, 2019; Gruber and Hungerman 2008; Squicciarini 2020
- ▶ New religious movements Bryan, Karlan, and Choi 2018
 - → **Contribution:** Effect of Pentecostalism on behaviors

Media on Behaviors

- Non-religious media: Bursztyn and Cantoni 2016; Durante, Pinotti, and Tesei 2019; La Ferrara, Chong, and Duryea 2012; Gentzkow and Shapiro 2008; Olken 2009; Jensen and Oster 2009; Banerjee, La Ferrara, and Orozco-Olvera 2019; Braga 2007; DellaVigna, Enikolopov, et al. 2011; Yanagizawa-Drott 2014; Gentzkow 2006; Gentzkow, Shapiro, and Sinkinson 2011; DellaVigna and Kaplan 2007; Enikolopov, Petrova, and Zhuravskaya 2011; Adena et al. 2015; Chiang and Knight 2011; Wang 2020
- ▶ Religious media: Grosfeld et. al 2023
 - → Contribution: Effect of religious media on religious conversion and behaviors

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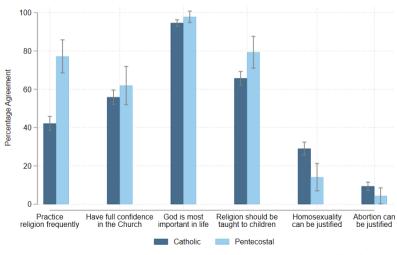
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Pentecostal Movement

- The Pentecostal movement is a part of Protestant Christianity
- They are more religiously observant than other Christians
- More literal interpretations of sacred texts
- Influential in Latin America and Africa, where it is followed by 13% and 12% of the population, respectively.

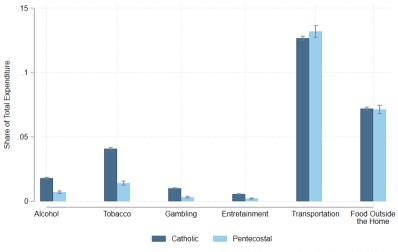
Pentecostal's values





Pentecostal's values





Background RecordTV

- Founded in 1953, but went bankrupt in late 1980s
- Pentecostal Bishop Edir Macedo bought RecordTV in 1990
 - Media market in Brazil is extremely concentrated
 - lacktriangle Only seven nationwide TV channels ightarrow Rare event
- RecordTV also has a clear political stance
 - RecordTV aired Bishop Edir Macedo blessing the candidate Jair Bolsonaro during the 2018 presidential campaign



Background RecordTV

"What is preached today is: "My daughter will never submit to a man." Then she will be submitted to unhappiness. Because there does not exist family, marriage, [...] or happiness when the woman is the head."

"I want my daughters to marry a *macho*. The man has to be the head. Because if they are not the head, the marriage is fated to fail."

Bishop Edir Macedo

Background

RecordTV's Programming

- Started broadcasting religious content
- Amount of religious content per week (Campos, 1997):
 - RecordTV: 60 hoursRede Globo: 1 hour
 - ► SBT: 12 minutes
- Religious shows include
 - Talk shows
 - Preaching
 - Moralizing soap operas
 - Biblical documentaries



Background

Example of RecordTV's programming

Saturday

Туре
Educational
Religious
Talk-show
Children's show
Comedy show
Sport
News
News
News
Sitcom
Talk-show
Religious
Comedy

Weekday

Show	Type
05h00 - O Despertar da Fé	Religious
06h00 - Santo Culto em Seu Lar	Religious
07h00 - Ponto de Fé	Religious
08h30 - Caminhos da Esperança	Religious
09h15 - Forno, Fogão & Cia.	Cooking show
09h45 - Desenhos da Vovó	Cartoons
11h00 - O Mundo de Beakman	Children's show
11h30 - Desenho Mania	Cartoons
12h00 - Informe Local	News
12h30 - Zorro	Series
13h00 - Note & Anote	Cooking, art crafts
17h30 - Cidade Alerta	News
19h15 - Jornal da Record	News
20h00 - Olho da Terra	Religious
20h30 - Ratinho Livre	Variety show
22h00 - Programa Ana Maria Braga	Talk-show
24h00 - Jornal Onze e Meia	News
24h25 - Programa de Negócios	Business show
24h30 - 25ª Hora	Religious
01h30 - Palavra de Vida	Religious

Background

Church's Merchandise during non-religious shows







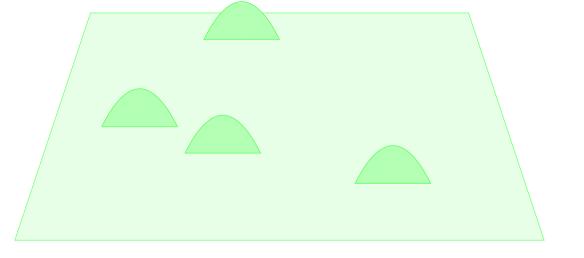
If you are desperate and have never been to [Church], call [number]

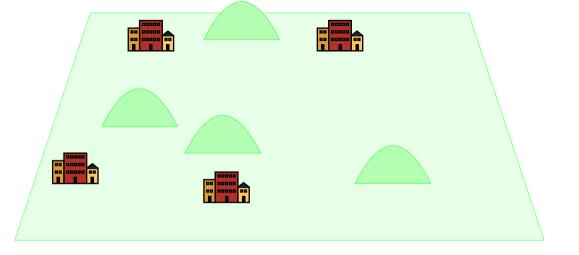
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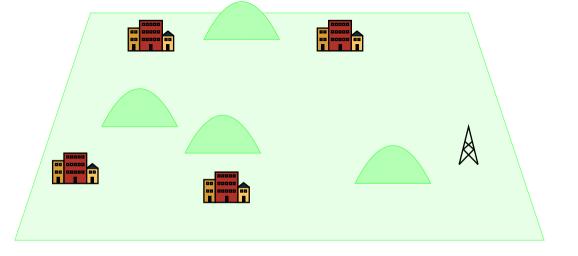
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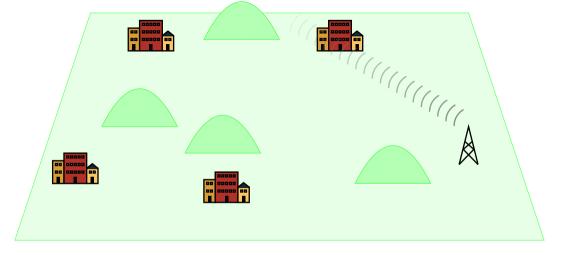
Main Data

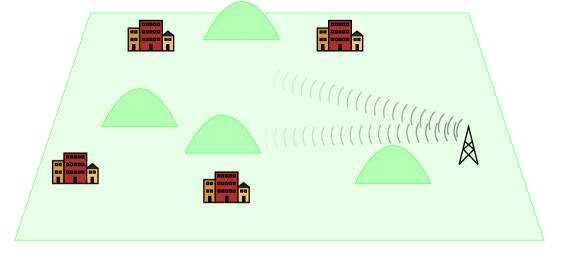
- TV coverage: National Telecommunication's Agency (ANATEL)
 - ► Transmitter's power, height, frequency, location, date of installation, owner
 - Irregular Terrain Model
- Religious and Behavioral Outcomes: Brazilian Census (1980, 1991, 2000, 2010)
 - Religious affiliation, Fertility, Labor force participation, Education
 - Other controls
- Votes for Pentecostal Candidates: Federal Electoral Authority, TSE (2002, 2006, 2010, 2014)
 - Candidates' profile, number of votes received from each municipality
 - Candidates' religion classification: hand-coded by Lacerda (2017)
- Other datasets: IBOPE (viewership)

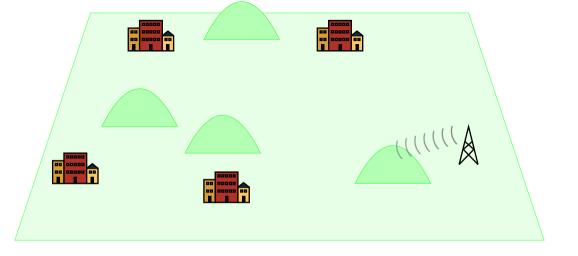


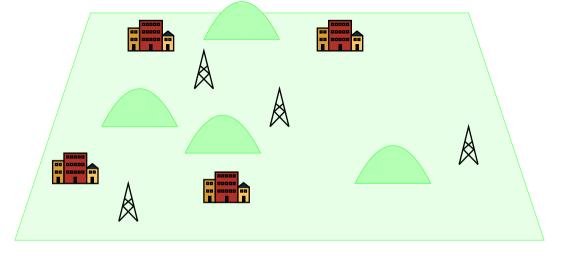


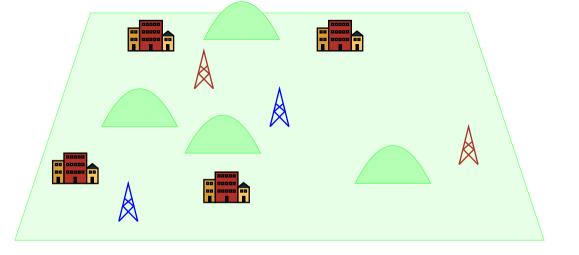


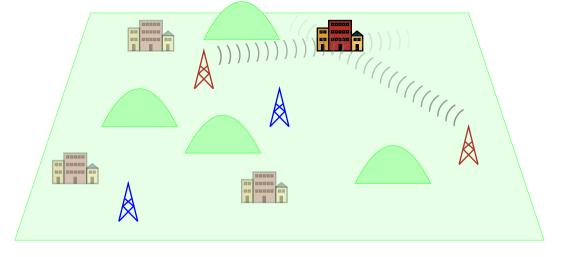












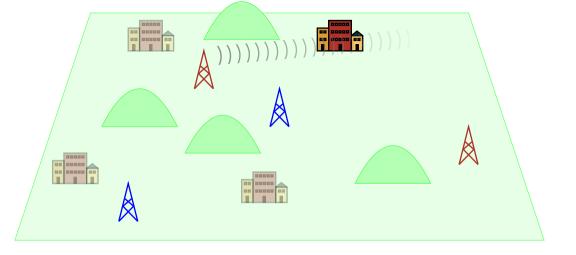
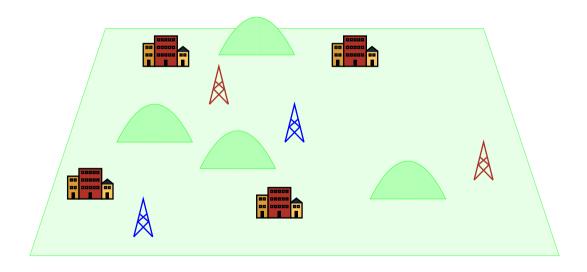


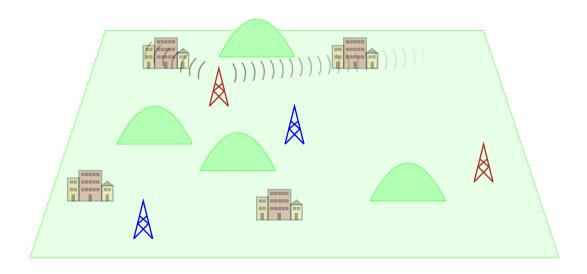
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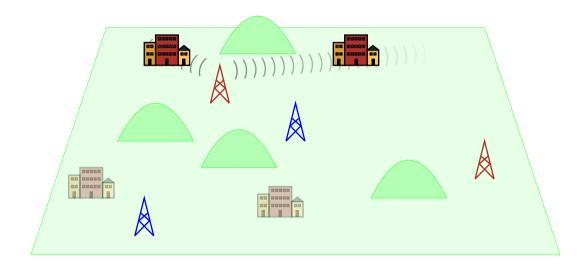
Before Change of Ownership



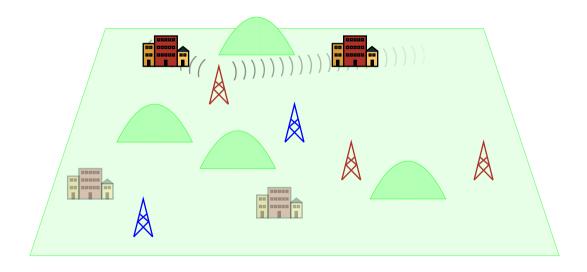
Before Change of Ownership



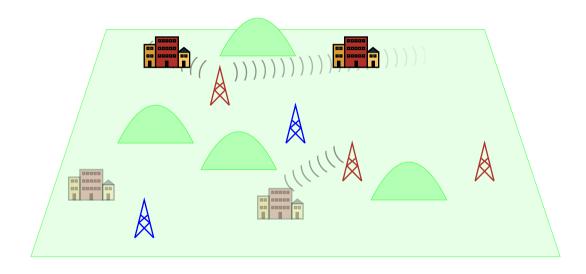
After Change of Ownership - Initial Placement



After Change of Ownership - Expansion



After Change of Ownership - Expansion



Baseline Empirical Strategy

- We compare the evolution of the outcomes of interest in regions exposed to religious content to those in regions not exposed to religious content
- We use only RecordTV's transmitters before the change of ownership
 - ▶ Placement of transmitters was exogenous to the expansion strategy of the church
 - ▶ Media market is very concentrated → unique opportunity to buy a TV channel
- Assumption: In the absence of changes in the content of the TV channel, the evolution of the outcomes of interest for exposed area would have been the same as for non-exposed areas

Baseline Empirical Strategy

$$Y_{m,t} - Y_{m,91} = \beta_1 \cdot Signal_m^{1990} + \beta_2 \cdot Propagation \ Controls_m + \beta_3 \cdot X_m^{1991} + \delta_{mesoregion(m)} + \varepsilon_m,$$

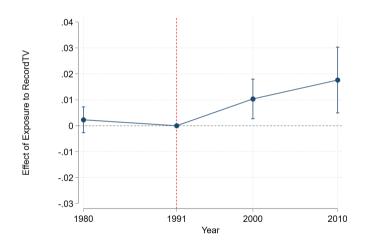
- $\Delta_{91-t} Y_m$: difference between the outcome on interest between 1991 and t, t $\in \{2000, 2010\}$
- Signal¹⁹⁹⁰_m: RecordTV Signal in 1990
- Propagation Controls_m: signal in free space, height, area, ruggedness, and their squares
- X_m^{1991} : log population, % tv, % radio, % high school
- $\delta_{mesoregion(m)}$: mesoregion fixed effects



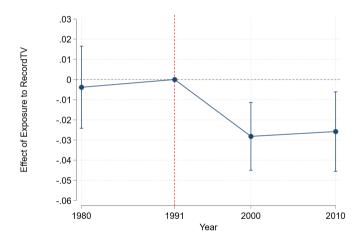
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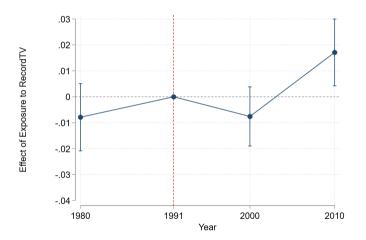
Share of Pentecostals



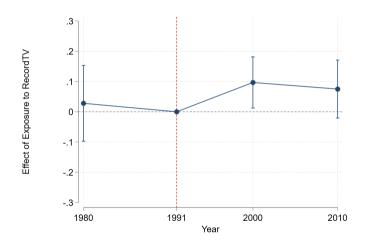
Female Labor Force Participation



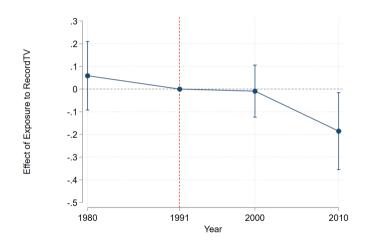
Male Labor Force Participation



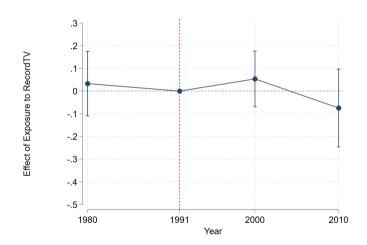
Total Fertility



Girls Education



Boys Education

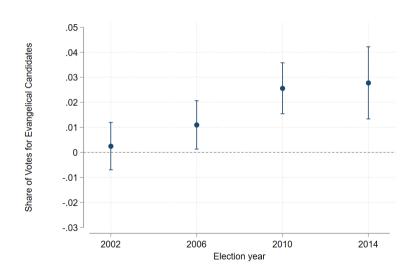


Voting

- The Pentecostal church encourages followers to vote for their candidates
- Share of votes for religious-affiliated Congressman
 - Availability of information on religious affiliation
 - ► Candidates for Congress compete for votes in the entire state → exclude mechanical effect
- Lacerda (2017) hand-coded a list of Pentecostal candidates for the 2002, 2006, 2010, and 2014 elections
 - Religious references in candidacy names
 - ▶ Literature review matching candidates' names and churches
 - Online searches through prominent newspaper

Results

Voting



Access to Other TV channels

Main Result

Dep. Var.:	Δ Share Pentecostals	Δ Number Children	Δ LFP Women	Δ LFP of Men	Δ Girls' Schooling	Δ Boys' Schooling	Δ Suicide Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Panel A: 1991-2000							
Signal RecordTV 1991	.0074***	.0015	016***	003	0017	0075	098
	(.002)	(.0015)	(.0039)	(.0028)	(.0049)	(.0047)	(.24)
Signal Globo 1991	000039	0062***	0011	0016	0048	.0011	`.19 [^]
	(.0022)	(.0015)	(.0035)	(.0026)	(.0045)	(.0043)	(.2)
Panel B: 1991-2010							
Signal RecordTV 1991	.015***	.0047***	014***	.0027	014**	007	49*
	(.0032)	(.0017)	(.0045)	(.0038)	(.0057)	(.0057)	(.27)
Signal Globo 1991	0017	0066***	0062	0072**	0049	0044	.16
	(.0033)	(.002)	(.0039)	(.0032)	(.0055)	(.0057)	(.22)

Notes: Data sources: 1991 and 2000 Census, TSE, SIM/SUS, and ANATEL. Dependent variable are defined as: (1) Share of Pentecostals (2) female labor for participation, (3) male labor for participation (4) the average number of children had by 15-35 years-old women had between 1991 and 2000, (5) share of 15-18 years-old girls that finished at least middle school, (6) share of 15-18 years-old girls that finished at least middle school, (6) share of 15-18 years-old girls that finished at least middle school, (7) homicides per 100,000 inhabitants. Regressions are weighted by the 1991 population. Robust standard errors.level.

Persuasion Rate

DellaVigna and Kaplan (2007)

Effect of the treatment on the relevant behavior, adjusting for exposure and population left to be convinced in the initial period :

$$f = \frac{y_T - y_C}{e_T - e_C} \cdot \frac{1}{1 - y_0},$$

- $y_T y_C$: treatment effect $(\hat{\beta}_1)$
- $e_T e_C$: effect of the coverage on viewership $(\hat{\gamma}_1)$
- $1 y_0$: share of non-Pentecostals in 1991

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- ullet e_T-e_C : effect of the coverage on viewership $(\hat{\gamma}_1)$
- $1 y_0$: share of non-Pentecostals in 1991

Results: between 2.3%-8.5%

Persuasion Rate

DellaVigna and Kaplan (2007)

$$\delta_{1991-2000}$$
 $viewership_m = eta \cdot Signal_m + u_m$

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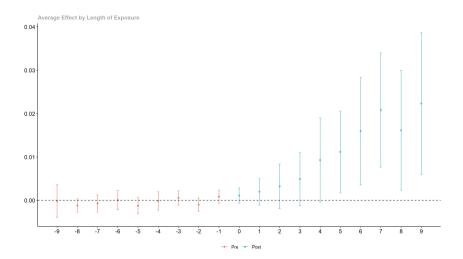
- On limitation of the empirical strategy is lack of frequent data that allows us to better test for pre-trends
- We make use of
- After the change of ownership, RecordTV kept expanding
- Placement of transmitters is not random
- However, from year to year,

Sant'Anna and Callaway (2021)

$$heta(e) = \sum_{g \in \mathcal{G}} \mathbf{1}\{g + e \leq \mathcal{J}\} P(G = g | G + e \leq \mathcal{J}) ATT(g, g + e)$$

$$ATT(g, t) = E[Y_t - Y_{g-1}|G_g = 1] - E[Y_t - Y_{g-1}|C = 1]$$

Number of Pentecostal Churches per Capita



Fertility

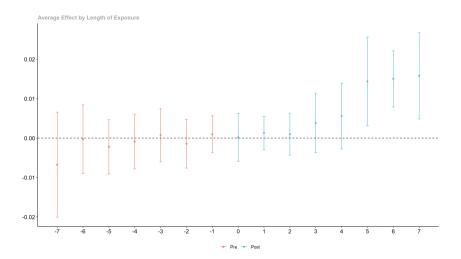


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Conclusion

- Exposure to RecordTV increases adherence to the Pentecostal church
- Results suggest that the expansion of Pentecostalism lead to more conservative behaviors
- This paper emphasizes how the impact of technology is channeled through social norms and religious practices.
- Study of social norms has to account for the possibility of rapid change, as social movements can leverage changing technology to further their goals and quickly reshape the social landscape.

Thank you!

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Main Outcomes: Pre

Dep. Var.:	Δ Share of Pentecostals	Δ Number of Children	Δ LFP Women	Δ LFP Men	Δ Girls' Schooling	Δ Boys' Schooling	Δ Suicide Rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Panel A: 1980-1991							
Signal RecordTV 1991	.00042	.0011	006	.004	.00036	00092	099
	(.0013)	(.0025)	(.005)	(.0027)	(.0043)	(.0041)	(.24)
Number of Obs	3935	3935	3935	3935	3935	3935	3988
Number of Clusters	3935	3935	3935	3935	3935	3935	3988
Propagation Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Munic. Controls Baseline	Yes	Yes	Yes	Yes	Yes	Yes	Yes
State and MR FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mean Dep. Var. Baseline	.03	.17	.41	.88	.26	.2	3.5

Notes: Data sources: 1991 and 2000 Census, TSE, SIM/SUS, and ANATEL. Dependent variable are defined as: (1) Share of Pentecostals (2) female labor for participation, (3) male labor for participation (4) the average number of children had by 15-35 years-old women had between 1991 and 2000, (5) share of 15-18 years-old girls that finished at least middle school, (6) share of 15-18 years-old girls that finished at least middle school, (7) homicides per 100,000 inhabitants. Regressions are weighted by the 1991 population. Robust standard errors.level. *Ps < 0.10, **Ps < 0.05, ***Ps < 0.01

Sample Restrictions

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Pentecostal	Female	Male	Gave Birth	Girls'	Boys'	Suicide	Pentecosta
		LFP	LFP		Schooling	Schooling	Rate	Candidate
Benchmark	.0095***	0092*	0053	.027*	022***	0096	03	.0054*
	(.0029)	(.0048)	(.0063)	(.016)	(.0069)	(8800.)	(.025)	(.0032)
State Capitals	.0091 * * *	011**	0071	.025	021***	0074	0087	.0055*
	(.0029)	(.0047)	(.0063)	(.016)	(.0072)	(.0093)	(.023)	(.003)
State Capitals and Pop. > 1000K	.0089***	011**	0072	.026	021***	0072	0079	.006**
	(.003)	(.0047)	(.0063)	(.016)	(.0072)	(.0093)	(.023)	(.0028)
State Capitals and Pop. > 500K	.0087***	0099**	0057	.028*	021** [*]	0061	013	.0049*
	(.003)	(.0048)	(.0063)	(.016)	(.007)	(.0091)	(.022)	(.0026)
State Capitals and Pop. > 250K	.006**	0078	01	.029	023***	0026	0032	.0021
	(.0027)	(.0052)	(.0064)	(.018)	(.0074)	(.0083)	(.017)	(.0028)
State Capitals and Pop. > 100K	.0035	0061	0061	.038**	025***	0053	0017	.0022
	(.0027)	(.0058)	(.0069)	(.019)	(.0074)	(8800.)	(.011)	(.0019)
Transmitter	.0071**	0083	0044	.014	022***	0091	028	.007**
	(.0029)	(.0051)	(.0063)	(.017)	(.0074)	(.0095)	(.022)	(.0034)
Transmitter and Distance > 10km	.0077***	0074	0053	.01	02***	0096	029	.0077**
	(.0027)	(.005)	(.0064)	(.018)	(.0074)	(.0095)	(.023)	(.0035)
Transmitter and Distance > 20km	.0071**	0051	0069	.0049	019**	0094	027	.0077**
	(.0029)	(.005)	(.0065)	(.018)	(800.)	(.0095)	(.023)	(.0037)
Transmitter and Distance > 30km	.0068**	0041	007	.012	019* [*] *	012	036*	.0083**
	(.003)	(.0057)	(.0073)	(.02)	(.0079)	(.0098)	(.02)	(.0033)

Notes: Data sources: 1991 and 2000 Census and ANATEL. *p<0.10,**p<0.05,***p<0.01

Table: Brazilian TV Channels (1950-1999)

TV Channel	Year Established	Year Discontinued	Coverage
TV Tupi	1950	1980	Nationwide
RecordTV	1953	-	Nationwide
TV Continental	1959	1970	Nationwide
TV Excelsion	1963	1970	Nationwide
TV Itapoan	1960	-	Nationwide
TV Globo	1965	-	Nationwide
TV Bandeirantes	1967	-	Nationwide
SBT	1981	-	Nationwide
Rede Manchete	1983	1999	Nationwide
MTV Brasil	1990	-	Nationwide



Pentecostal's values



	Pente	costal	Cath	olic	P-C
Variable	Mean	SD	Mean	SD	p-value
Panel A: Opinion about Se	nsitive T	opics			
Practice Religion Frequently (%)	77.2	42.2	42.1	49.4	0.00
Have Full Confidence in the Church (%)	62	48.8	55.8	49.7	0.26
God is Most Important in Life (%)	97.8	14.7	94.6	22.6	0.07
Think Religion is Important to Teach to Children (%)	79.3	40.7	65.7	47.5	0.00
Homosexuality Can Be Justified (%)	14.1	35	29	45.4	0.00
Abortion Can Be Justified (%)	4.35	20.5	9.33	29.1	0.04
Panel B: Individual Monthly Expenditure on Selected	d Goods	as Share	e of Tota	I Expen	diture
Alcohol (%)	.699	5	1.78	8.25	0.00
Tobacco (%)	1.4	7.68	4.08	13.7	0.00
Gambling (%)	.308	2.79	.999	6.21	0.00
Entretainment (%)	.208	2.23	.553	3.9	0.00
Transportation (%)	13.2	22.1	12.7	21.9	0.26
Food Outside the Home (%)	7.12	15.5	7.18	15.7	0.87

Notes: Data sources: 2002 Latin Barometer and 2002/2003 Brazilian Household Expenditure Survey (POF/IBGE).

Interpretation

Main Results

Dep. Var.:		Δ Share of	Pentecosta	s	Δ Catholic	Δ Protestant
	(1)	(2)	(3)	(4)	(5)	(6)
Panel A: Medium term (1991-2000)	. ,	. ,	. ,		
Signal 1991	0025	.024***	.019***	.0077***	011***	.003***
	(.0022)	(.0041)	(.0034)	(.0019)	(.0031)	(.0011)
Panel B: Long term (199	91-2010)					
Signal 1991	0061**	.035***	.026***	.015***	02***	.0025**
	(.003)	(.0052)	(.0043)	(.0032)	(.0045)	(.0012)
Number of Obs	3990	3990	3990	3989	3989	3989
Propagation Controls	No	Yes	Yes	Yes	Yes	Yes
Baseline Controls	No	No	Yes	Yes	Yes	Yes
State FE	No	No	No	Yes	Yes	Yes
Mean Dep. Var. Baseline	.03	.03	.03	.03	.83	.02

Other Specifications

Medium-term

	Dependent Variables									
Specification	Pentecostals	Fertility	FLPF	School Girls	MLPF	School Boys	Suicides			
Signal	0025	.0056***	0065**	.019***	.0056***	.022***	12			
	(.0022)	(.0014)	(.0031)	(.0063)	(.001)	(.0061)	(.077)			
Signal FS	.02***	0029	0067	024***	0053 [*]	019*	61** [*]			
	(.0043)	(.002)	(.0053)	(8800.)	(.0027)	(.0099)	(.21)			
Propagation	.024** [*]	.00018	0093* [*] *	01	00062	0027	46* [*]			
	(.0041)	(.0018)	(.0046)	(.0065)	(.0028)	(.0065)	(.19)			
Controls	.019***	.0012	009**	.000011	.0013	.00064	24			
	(.0034)	(.0017)	(.0037)	(.0068)	(.0028)	(.0068)	(.21)			
MR FE	.0088***	00074	017** [*]	`.0032 [´]	0044*	`.0016 [´]	15 [°]			
	(.002)	(.0015)	(.0036)	(.0052)	(.0027)	(.005)	(.23)			
State FE	.0077***	.00057	017** [*]	0024	0033 [°]	0071	077			
	(.0019)	(.0015)	(.0039)	(.0048)	(.0028)	(.0047)	(.23)			
Lagged outcome	.0077***	.00071	018** [*]	`002 [´]	0024	0076	11			
	(.0019)	(.0014)	(.004)	(.0048)	(.0028)	(.0047)	(.21)			



Other Specifications

Long-term

Specification	Dependent Variables									
	Pentecostals	Fertility	FLPF	School Girls	MLPF	School Boys	Suicides			
Signal	00093	.012***	.000028	02**	.014***	0045	2**			
	(.0034)	(.0019)	(.0048)	(.0097)	(.0018)	(800.)	(.095)			
Signal FS	.03***	0043	015**	0068	015 ** *	.0053	42* [´]			
	(.0066)	(.0029)	(.0072)	(.012)	(.0041)	(.011)	(.25)			
Propagation	.037** [*]	.00075	`01*´	021* [*] *	0058 [°]	.0044	5**			
	(.0062)	(.0026)	(.0061)	(.0095)	(.0041)	(8800.)	(.24)			
Controls	.031***	.003	0063	0024	.0049	.012	3			
	(.0053)	(.0021)	(.0047)	(.0064)	(.0041)	(.0079)	(.24)			
MR FE	.016***	.0022	012** [*]	011* [′]	`.0024 [´]	0049	27			
	(.0031)	(.0016)	(.0044)	(.0057)	(.004)	(.0061)	(.27)			
State FE	.015***	.0037**	015** [*]	015** [*]	.0018	0078	47*			
	(.0032)	(.0017)	(.0045)	(.0057)	(.0038)	(.0058)	(.27)			
Lagged outcome	.015** [*]	.004***	017** [*]	015** [*]	`.0033 [´]	0084	\51* [*] *			
	(.0032)	(.0014)	(.0044)	(.0054)	(.0037)	(.0056)	(.25)			



Characteristics by Coverage

	Mean	Univariat	:e	State FE & Controls		
	(SD)	Coefficient	R ²	Coefficient	R ²	
Population (log)	4.912	0.200	0.010	-0.345**	0.652	
	(2.088)	(0.211)		(0.159)		
Population Density	1.341	0.267	0.015	-0.159	0.735	
	(2.247)	(0.166)		(0.130)		
Income per capita	47,139.120	7,134.692***	0.059	-1,702.973	0.701	
	(29,981.308)	(2,195.064)		(3,158.080)		
Average Age	26.010	1.391***	0.322	0.304	0.674	
	(2.504)	(0.184)		(0.251)		
Share of White	0.518	0.107***	0.192	0.025**	0.864	
	(0.250)	(0.009)		(0.011)		
Share of Women	0.506	0.002*	0.021	-0.004***	0.454	
	(0.016)	(0.001)		(0.001)		
Average Years Education	4.139	0.470***	0.096	-0.177	0.696	
9	(1.546)	(0.119)		(0.122)		
Share Urban Population	0.746	0.054***	0.044	0.012	0.531	
•	(0.262)	(0.014)		(0.018)		
Share TV	0.441	0.061***	0.089	-0.015	0.711	
	(0.208)	(0.014)		(0.017)		
Share Radio	0.823	0.062***	0.210	-0.005	0.777	
	(0.139)	(0.005)		(0.006)		
Gini Index	0.552	-0.008*	0.019	-0.030***	0.219	

