Date: 2022-12-15

Replication File Codebook

Authors: Bueno, Nunes, and Zucco

Title: What You See and What You Get: Direct and Indirect Political Dividends of Public Policies

Contact Information:
Natália S. Bueno - natalia.bueno@emory.edu
Felipe Nunes - felipnunes@gmail.com
Cesar Zucco - cesar.zucco@fgv.br

This file contains codebook and source descriptions for:

Codebook for:

- dataset-mcmv-by-localelectoral-period.RData
- dataset-mcmv-by-preselectoral-period.RData
- dataset-Nbydatemun.RData
- surveyW1-WhatYouSee.Rda
- surveyW2-WhatYouSee.Rda
- W1_attrition_overall_public.Rda
- W1_attrition_public.Rda
- W2_attrition_admin_overall_public.Rda
- W2_attrition_overall_public.Rda
- W2_attrition_public.Rda
- empresas_gpp.Rda
- empresas_g_noimppt.Rda
- lai2.Rda

Note that the codebook for the CESOP/Ibope dataset (04683.SAV), which is also used in the paper, is available from CESOP, along with the data file itself. We do not have permission to distribute these files directly, but they are publicly available.

- **Dataset:** dataset-mcmv-by-localelectoral-period.RData

Data are in municipality/local electoral cycle format. Dataset is generated by combining several different datasets obtained from several sources. Code _assemble_local.R, which is which is included with the replication materials but cannot be ran due to privacy issues, shows all the data handling as well as the sources for all datasets.

variable	class	description
Cod_IBGE	character	Municipality identifier code in IBGE
elec.period	numeric	Presidential electoral period (1, 2, or 3 are analyzed, 0 is pre-treatment)
Cod_TSE_5	character	Municipality identifier code in TSE (electoral court)
uf	character	State
mun	character	Name of municipality
reg	factor	Macro-region
pop.2008	numeric	Population in 2008
pop	numeric	Population
pib_pc	numeric	GDP per capita
hdtot.2010	numeric	Housing deficit in 2010
hdtotrel.2010	numeric	Housing deficit relative to population in 2010
mr.2010	logical	Part of a metropolitan region in 2010
first.treated	numeric	Cycle in which the first MCMV units were delivered
term.limited	logical	Whether incumbent mayor was term limited (could not run)
inc.party	character	Party of incumbent mayor
is.inc	logical	Inc. candidate was the incumbent mayor
is.inc.party	logical	Inc. candidate was from the incumbent mayor's party
inc.party.in.list	numeric	Inc. candidate was from a party in the incumbent mayor's coalition
inc.vs	numeric	Vote share of incumbent candidate
inc.won	logical	Incumbent candidate won
inc.vs.2008	numeric	Vote share of incumbent candidate in 2008
Npnhr.mdr	numeric	MCMV units from PNHR (rural)

Nfar.mdr	numeric	MCMV units from FAR
Nop.mdr	numeric	MCMV units from OP
N	numeric	MCMV units (total)
cN	numeric	Cumulative MCMV units (up to that electoral period)

- **Dataset:** dataset-mcmv-by-preselectoral-period.RData

Data are in municipality/presidential electoral cycle format. Dataset is generated by combining several different datasets obtained from several sources. Code _assemble_presl.R, which is included with the replication materials but cannot be ran due to privacy issues, shows all the data handling as well as the sources for all datasets.

variable	class	description
Cod_IBGE	character	Municipality identifier code in IBGE
elec.period	numeric	Presidential electoral period (1, 2, or 3 are analyzed, 0 is pre-treatment)
Cod_TSE_5	character	Municipality identifier code in TSE (electoral court)
uf	character	State
mun	character	Name of municipality
reg	factor	Macro-region
pop.2008	numeric	Population in 2008
pop	numeric	Population
pib_pc	numeric	GDP per capita
pib_pc.2008	numeric	GDP per capita in 2008
hdtot.2010	numeric	Housing deficit in 2010
hdtotrel.2010	numeric	Housing deficit relative to population in 2010
mr.2010	logical	Part of a metropolitan region in 2010
first.treated	numeric	Cycle in which the first MCMV units were delivered
NUM_TURNO	numeric	Election round from which data were taken
ANO_ELEICAO	numeric	Election year

SIGLA_PARTIDO	character	Party of candidate
QTDE_VOTOS	numeric	Number of votes obtained by candidate
votetot	numeric	Total number of valid votes cast
vs	numeric	Vote share
vs.2006	numeric	Vote share in 2006
mayor.party	character	Party of the incumbent mayor
mayor.pt	logical	Incumbent mayor is from the PT
Npnhr.mdr	numeric	MCMV units from PNHR (rural)
Nfar.mdr	numeric	MCMV units from FAR
Nop.mdr	numeric	MCMV units from OP
N	numeric	MCMV units (total)
cN	numeric	Cumulative MCMV units (up to that electoral period)

- **Dataset:** dataset-Nbydatemun.RData

Data are organized by date and report cumulative number of units delivered and cumulative number of municipalities treated up to the date. Data are used to produce summary statistics mentioned in the text and also one figure in the appendix showing the roll-out of the program. Data sources are the same freedom of information requests used to construct the number of units delivered by municipalities in the previous two datasets.

Variable	class	Description
date	Date	Date (day)
units	integer	Units delivered on date
cumunits	integer	Units delivered up to and including the date
cummun	integer	Number of municipalities in which units were delivered up to and including the date

- **Dataset:** surveyW1-WhatYouSee.Rda

This dataset comes primarily from a survey designed by the authors and conducted by E-Field in 2017-2018. It also contains data merged from Serasa (a credit rating agency), RAIS (the Federal Government's record of formal employment contracts), CadUnico (the Federal Government's social assistance eligibility system), and CEF (the Federal Government's mortgage

lender), as well as data collected by the authors about MCMV housing projects and lotteries in Rio (made available by the Rio de Janeiro's Mayor Office).

variable	class	description
fieldID	numeric	unique identifier
Z	numeric	indicator for lottery winner
id_edital	character	edital (lottery call) id
sexor	numeric	sex indicator (male = 1)
TT	character	description of winning/not winning status by lottery
race_bin	numeric	race indicator (white = 1)
religiao_dummy	numeric	religion indicator (any = 1)
idade	numeric	age
criancas_moram	integer	number of children living with respondent
sch_years	numeric	years of formal schooling
cadunico	logical	indicator whether on CadUnico registry (pre-treatment)
formal	numeric	number of years with formal job in RAIS for 2010 to 2014
av_formalinc_log	numeric	logged average income from formal job in RAIS for 2010 to 2014
ganhou_composite	logical	indicates that respondent reported winning the lottery and/or the telegram with the result was successfully delivered
ganhou_r	numeric	Recoding of ganhou_composite, with NAs coded are 0s
pea	numeric	indicator for being economically active (coded by interviewer)
inc_above1mw	numeric	indicator for household income higher than 1 min. wage
prosp_self	numeric	question about future self prospects: q37 in questionnaire
sampling_prob	numeric	survey weights
treatwait	character	description for those in control (no wait), short wait (Z1) and long wait (Z2)
rr2003	numeric	nominal income from formal job in 2003
rr2004	numeric	nominal income from formal job in 2004
rr2005	numeric	nominal income from formal job in 2005

rr2006	numeric	nominal income from formal job in 2006
rr2007	numeric	nominal income from formal job in 2007
rr2008	numeric	nominal income from formal job in 2008
rr2009	numeric	nominal income from formal job in 2009
rr2010	numeric	nominal income from formal job in 2010
idadeW2	numeric	Age calculate to match age calculated for survey W2
formal_pre	numeric	number of years with formal job in RAIS for 2003 and 2010 (pre-treatment)
av_prel	numeric	average logged income from formal labor between 2003 and 2010 (pre-treatment)
edital03.2011	numeric	indicator for presence in edital 03.2011
edital06.2011	numeric	indicator for presence in edital 06.2011
edital17.2016	numeric	indicator for presence in edital 17.2016
edital20.2016	numeric	indicator for presence in edital 20.2016
party_mdb_r	numeric	MDB party ID
resp_lula_dilma_pt	numeric	Attribute MCMV to Lula, Dilma or PT
resp_paes	numeric	Attribute MCMV to Paes
resp_paes_pezao_temer	numeric	Attribute MCMV to Paes, Pezão or Temer
resp_paes_pezao_temer_mdb	numeric	Attribute MCMV to Paes, Pezão, Temer, or MDB
resp_know_dontknow	numeric	Don't know who to attribute MCMV to.
lula_eval	numeric	Lula job evaluation
dilma_eval	numeric	Dilma job evaluation
party_pt_r	numeric	PT party ID
temer_eval	numeric	Temer job evaluation
paes_eval	numeric	Paes job evaluation
pezao_eval	numeric	Pezão job evaluation
voteinc_2016_d	numeric	Vote for incumbent in 2016
wait_time_all	numeric	Time since enrolling in the lotteries

improved_lives	numeric	Retrospective evaluation of MCMV (Did it improve lives of beneficiaries?)
dream	numeric	Evaluation of goals of MCMV (Do you agree that homeownership is a dream?)

Note: Missing data included as NAs in recoded dataset.

- **Dataset:** surveyW2-WhatYouSee.Rda

This dataset comes primarily from a survey conducted by E-Field in 2019-2020. It also contains data merged from Serasa (a credit rating agency), RAIS (the Federal Government's record of formal employment contracts), CadUnico (the Federal Government's social assistance eligibility system), and CEF (the Federal Government's mortgage lender), as well as data collected by the authors about MCMV housing projects and lotteries in Rio (made available by the Rio de Janeiro's Mayor Office).

variable	class	description
fieldID	numeric	unique identifier
Z	numeric	indicator for lottery winner
D	numeric	indicator for moving using administrative data
id_edital	character	edital (lottery call) id
sexor	numeric	sex indicator (male = 1)
TT	character	description of winning/not winning status by lottery
race_bin	numeric	race indicator (white = 1)
religiao_dummy	numeric	religion indicator (any = 1)
idade	numeric	age
sch_years	numeric	years of formal schooling
cadunico	logical	indicator whether on CadUnico registry (pre-treatment)
formal_pre	numeric	number of years with formal job between 2003 and 2010 (pre-treatment)
av_prel	numeric	logged average income from formal job between 2003 and 2010 (pre-treatment)
lottery1	numeric	indicator for edital03.2011 = 1
av_postl	numeric	average income from formal job between 2013 and 2014
formal_post	numeric	number of years with formal job between 2013 and 2014

inc_above1mw	numeric	indicator for household income higher than 1 min. wage
client_g	numeric	question about general exchange of votes/goods/money: q57 in questionnaire
resp_lula_dilma_pt	numeric	Attribute MCMV to Lula, Dilma or PT
resp_paes_pezao_temer_mdb	numeric	Attribute MCMV to Paes, Pezão, Temer, or MDB
lula_eval	numeric	Lula job evaluation
dilma_eval	numeric	Dilma job evaluation
party_pt_r	numeric	PT party ID
votept_2018_d	numeric	Vote for PT candidate in 2018
paes_eval	numeric	Paes job evaluation
bolso_eval	numeric	Bolsonaro job evaluation
crivella_eval	numeric	Crivella job evaluation
witzel_eval	numeric	Witzel job evaluation
talk_cand	numeric	Talked to any candidate in the last election
client_support	numeric	question on declared support for candidate: q57_new1 in questionnaire
turnout_2016	numeric	question on turnout in 2016: q56 in questionnaire
turnout_2018	numeric	question on turnout in 2018: q60_new in questionnaire
turnout_2020	numeric	question on turnout in 2010: q59_new in questionnaire
voteinc_2016_d	numeric	Voted for incumbent in 2016
votepaes_2020_d	numeric	Intend to vote for incumbent in 2020
pezao_eval	numeric	Pezão job evaluation
r2003	numeric	nominal income from formal job in 2003
r2004	numeric	nominal income from formal job in 2004
r2005	numeric	nominal income from formal job in 2005
r2006	numeric	nominal income from formal job in 2006
r2007	numeric	nominal income from formal job in 2007
r2008	numeric	nominal income from formal job in 2008

r2009	numeric	nominal income from formal job in 2009
r2010	numeric	nominal income from formal job in 2010
homeowner	numeric	Are you a homeowner?
improved_lives	numeric	Retrospective evaluation of MCMV (Did it improve lives of beneficiaries)
edital03.2011	numeric	indicator for presence in edital 03.2011
edital06.2011	numeric	indicator for presence in edital 06.2011
edital17.2016	numeric	indicator for presence in edital 17.2016
edital20.2016	numeric	indicator for presence in edital 20.2016
ipw	numeric	Inverse probability weights

Note: Missing data included as NAs in recoded dataset.

- **Dataset: W1_attrition_overall_public.Rda**

Same sources at W1 dataset above.

Varaible	Class	Description
id_edital	character	edital (lottery call) id
TT	character	description of winning/not winning status by lottery
interviewed	numeric	indicator if subject was interviewed
treat_ind	numeric	treatment assignment indicator
sampling_prob	numeric	survey sampling weights
fieldID	numeric	subject ID
sexor	numeric	sex indicator (male = 1)
av_pre	numeric	average income from formal job between 2010 and 2014
av_prel	numeric	logged average income from formal job between 2010 and 2014
formal_pre	numeric	number of years with formal job between 2010 and 2014
formal_pre_prop	numeric	proportion of years with formal job between 2010 and 2014

Note: Missing data included as NAs in recoded dataset.

- **Dataset: W1_attrition_public.Rda**

Same sources at W1 dataset above.

Varaible	Class	Description
id_edital	character	edital (lottery call) id
TT	character	description of winning/not winning status by lottery
interviewed	numeric	indicator if subject was interviewed
treat_ind	numeric	treatment assignment indicator
sampling_prob	numeric	survey sampling weights
fieldID	numeric	subject ID
sexor	numeric	sex indicator (male = 1)
av_pre	numeric	average income from formal job between 2010 and 2014
av_prel	numeric	logged average income from formal job between 2010 and 2014
formal_pre	numeric	number of years with formal job between 2010 and 2014
formal_pre_prop	numeric	proportion of years with formal job between 2010 and 2014

Note: Missing data included as NAs in recoded dataset.

- **Dataset**: W2_attrition_admin_overall_public.Rda

Same sources at W2 dataset above.

Variable	Class	Description
fieldID	numeric	subject ID
id_edital	character	edital (lottery call) id
treat_indf	numeric	treatment indicator
av_post	numeric	average income from formal job between 2014 and 2014
av_postl	numeric	logged average income from formal job between 2013 and 2014
formal_post	numeric	number of years for formal job between 2031 and 2014
formal_post_prop	numeric	proportional of years for formal job between 2013 and 2014

- **Dataset:** W2_attrition_overall

Same sources at W2 dataset above.

Variable	Class	Description
id_edital	character	edital (lottery call) id
TT	character	description of winning/not winning status by lottery
interviewed	numeric	indicator if subject was interviewed
treat_ind	numeric	treatment assignment indicator
fieldID	numeric	subject ID
sexor	numeric	sex indicator (male = 1)
av_pre	numeric	average income from formal job between 2003 to 2010
av_prel	numeric	logged average income from formal job between 2003 and 2010
formal_pre	numeric	number of years for formal job between 2003 and 2010
formal_pre_prop	numeric	proportional of years for formal job between 2003 and 2010

Note: Missing data included as NAs in recoded dataset.

- **Dataset: W2_attrition**

Same sources at W2 dataset above.

Variable	Class	Description
id_edital	character	edital (lottery call) id
TT	character	description of winning/not winning status by lottery
interviewed	numeric	indicator if subject was interviewed
treat_ind	numeric	treatment assignment indicator
fieldID	numeric	subject ID
sexor	numeric	sex indicator (male = 1)

av_pre	numeric	average income from formal job between 2003 to 2010
av_prel	numeric	logged average income from formal job between 2003 and 2010
formal_pre	numeric	number of years for formal job between 2003 and 2010
formal_pre_prop	numeric	proportional of years for formal job between 2003 and 2010

Note: Missing data included as NAs in recoded dataset.

- **Dataset:** empresas_g_noimppt.Rda

Dataset is used in the RDD analysis of the allocation of MCMV units, in the appendix. Data comes from LAI requests. Electoral and socioeconomic data comes from TSE and IPEA/CEM sources respectively.

Variable	Class	Description
vote_margin_share	numeric	vote margin share between winner and runner up
treat	numeric	indicator for winner (=1) and runner-up (=0)
valor_contratadodpcl	numeric	deflated, logged (IHS) value of contract for MCMV housing
valor_contratadodpcl2	numeric	deflated, logged (value + 1) of contract for MCMV housing
TSEcod	numeric	Municipality ID
nonzero	numeric	Indicator for non-zero (=1) or zero (=0) outcome variable
ANO_ELEICAO	integer	election year
p_13	integer	votes for PT in presidential election in municipality in 2002
p_val	integer	total valid votes in presidential election in municipality in 2002
p_45	integer	votes for PSDB in presidential election in municipality in 2002
f.nom_13	integer	nominal votes for PT federal deputies in municipality in 2002
f.nom_45	integer	nominal votes for PT federal deputies in municipality in 2002
f.nom_total	integer	total nominal votes for federal deputies in municipality in 2002
g_13	integer	votes for PT in gubernatorial election in municipality in 2002
g_val	integer	total valid votes in gubernatorial election in municipality in 2002

g_45	integer	votes for PSDB in gubernatorial election in municipality in 2002
e.nom_13	integer	nominal votes for PT state deputies in municipality in 2002
e.nom_total	integer	total nominal votes for state deputies in municipality in 2002
e.nom_45	integer	nominal votes for PSDB state deputies in municipality in 2002
Comparecimento1t	integer	Turnout over population
pop_v2	integer	Municipal population (see replication code for years)
X2000_incomepercapita	numeric	Income per capita in municipality measured in 2000
X2000_doctor	numeric	Doctors per 1000 inhabitants in municipality measured in 2000
X2000_idh_education	numeric	IDH education in municipality measured in 2000
X2000_idh_income	numeric	IDH income in municipality measured in 2000
X2000_idh_longevity	numeric	IDH longevity in municipality measured in 2000
X2000_illiterate	numeric	Illiteracy rate in municipality measured in 2000
X2000_infant	numeric	Infant mortality in municipality measured in 2000
X2000_pop	integer	Population measured in 2000
X2000_poverty	numeric	Poverty levels in municipality measured in 2000

- **Dataset:** empresas_gpp.Rda

Dataset is used in the RDD analysis of the allocation of MCMV units, in the appendix. Data comes from LAI requests. Electoral and socioeconomic data comes from TSE and IPEA/CEM sources respectively.

Variable	Class	Description
vote_margin_share	numeric	vote margin share between winner and runner up
treat	numeric	indicator for winner (=1) and runner-up (=0)
valor_contratadodpcl	numeric	deflated, logged (IHS) value of contract for MCMV housing
valor_contratadodpcl2	numeric	deflated, logged (value + 1) of contract for MCMV housing
TSEcod	numeric	Municipality ID

nonzero	numeric	Indicator for non-zero (=1) or zero (=0) outcome variable
ANO_ELEICAO	integer	election year
p_13	integer	votes for PT in presidential election in municipality in 2002
p_val	integer	total valid votes in presidential election in municipality in 2002
p_45	integer	votes for PSDB in presidential election in municipality in 2002
f.nom_13	integer	nominal votes for PT federal deputies in municipality in 2002
f.nom_45	integer	nominal votes for PT federal deputies in municipality in 2002
f.nom_total	integer	total nominal votes for federal deputies in municipality in 2002
g_13	integer	votes for PT in gubernatorial election in municipality in 2002
g_val	integer	total valid votes in gubernatorial election in municipality in 2002
g_45	integer	votes for PSDB in gubernatorial election in municipality in 2002
e.nom_13	integer	nominal votes for PT state deputies in municipality in 2002
e.nom_total	integer	total nominal votes for state deputies in municipality in 2002
e.nom_45	integer	nominal votes for PSDB state deputies in municipality in 2002
Comparecimento1t	integer	Turnout over population
pop_v2	integer	Municipal population (see replication code for years)
X2000_incomepercapita	numeric	Income per capita in municipality measured in 2000
X2000_doctor	numeric	Doctors per 1000 inhabitants in municipality measured in 2000
X2000_idh_education	numeric	IDH education in municipality measured in 2000
X2000_idh_income	numeric	IDH income in municipality measured in 2000
X2000_idh_longevity	numeric	IDH longevity in municipality measured in 2000
X2000_illiterate	numeric	Illiteracy rate in municipality measured in 2000
X2000_infant	numeric	Infant mortality in municipality measured in 2000
X2000_pop	integer	Population measured in 2000
X2000_poverty	numeric	Poverty levels in municipality measured in 2000

- **Dataset:** lai2.Rda

Dataset is used in the analysis of the allocation of MCMV units, in the appendix. Data comes from LAI requests. Electoral and socioeconomic data comes from TSE and IPEA/CEM sources respectively.

Variable	Class	Description
mean_dist	numeric	Average distance from election year
pt	numeric	Indicator for PT mayor (=1) or not (=0)
pp	numeric	Indicator for PP mayor (=1) or not (=0)
psdb	numeric	Indicator for PSDB mayor (=1) or not (=0)
cycle	numeric	Indicator for election cycle (2008 = 1 and 2012 = 2)
years	numeric	year
TSEcod	numeric	municipality electoral ID