# Socioeconomic status and Democracy < South Africa, Botswana, and Kenya compared >

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## Democracy? Democratization?

- Democracy: "Ruled by People". A system of government where the citizens exercise power directly or through electing representatives in order to form a parliament.
- \*Main Charateristics: Political freedom, Rule of law, Equality before the law, Majority rule, Free and Fair elections.
  - Democratization: A process which leads to a more open, more participatory, less authoritarian soceity within a sovereign state.

## Background Research 1 - Measuring Democracy

- US-based Freedom House Organization: aggregates scores of 25 indicators from politial rights and civil liberties in order to evaluate the state of freedom \*2016 Report: Out of 195 states, 125 countries are classified as electoral democracies.
- The Polity Project: examines qualities of democratic and autocratic authority in governing insitutions to observe a spectrum of governing authority.
- —> We used "Polity Score" data from the Polity Project for our dependent variable

## Background Research 2 - Democratization in Africa

- Third Wave (1974-1990): Durig the Third Wave of democratization, over 60 countries throughout the world changed their authoritarian regimes to democracies.
- Repetition of the onset of democratization and frequent slips back to authoritarianism in Africa.
- Making progress towards democracy by improving socioeconomic features and revolting against authoritarian leaders

#### Selection of Case countries

- World Economic Forum's Global Competitiveness Report 2015-2016: assess the competitiveness of 140 wolrd economies based on 113 indicators such as macroeconomic environment, health and primary education, goods market and labor market.
- Africa's top performers include Mauritius, South Afirca, Rwanda and Botswana
- Africa's low performers include Liberia, Sierra Leone, Ivory Coast and Ethiopia
- -South Africa (49th), Botswana (71th), Kenya (99th)

### Research Question and Hypotheses

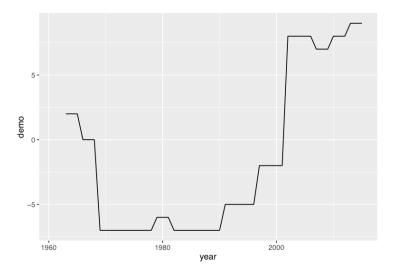
#### < What brings democracy? >

- Investigating the effects of various socioeconomic variables on democratization in African countries.
- Analyzing the correlation between socioeconomic components and democracy.

#### \*Three Hypotheses

- There is a significant and positive correlation between socioeconomic variables and democracy
- Among four socioeconomic components, the educational effect on democracy is the most significant than others.
- The degree of impact of variables on democracy is consistent across selected African countries.

### Democratization level has been changeing over time



## Explanetory variables

variable name	detail	source
gdppc	Gross Domestic Production Per Capita	World Bank
pe	Primary ed enrollment	United Nations
mr	Child Mortality under 5	<b>United Nations</b>
gi	gender inequality in labor market	United Nations

#### Each country has different significant variables

Table 2: Regression results for each country

	Dependent variable:		
	SouthAfrica	demo Botswana	Kenya
	(1)	(2)	(3)
log(gdppc)	-2.78*	1.86***	-6.37
	(1.43)	(0.56)	(3.79)
log(pe)	0.81	-3.29	9.05
, , , , , , , , , , , , , , , , , , ,	(2.83)	(2.31)	(8.68)
log(mr)	-11.16	2.84***	-34.05***
,	(7.05)	(0.84)	(9.39)
log(gi)	-43.66***	4.61	-147.18***
	(13.70)	(2.85)	(38.41)
Constant	44.40	23.80	21.71
	(73.50)	(22.73)	(157.22)
Observations	17	21	19
$\mathbb{R}^2$	0.93	0.85	0.92
Adjusted R <sup>2</sup>	0.90	0.82	0.90
Residual Std. Error	0.72 (df = 12)	0.28 (df = 16)	1.94 (df = 14)
F Statistic	$38.99^{***}$ (df = 4; 12)	$23.04^{***}$ (df = 4; 16)	$42.66^{***}$ (df = 4; 14)

Note: \*p<0.1;

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

## All variables except gdppc looks significant

Table 3: Pooled OLS

$Dependent\ variable:$
demo
-0.64
(1.39)
-1.10**
(0.46)
-6.89**
(3.06)
-39.08***
(10.91)
41.87*
(21.14)
57
0.72
0.70
3.16 (df = 52)
$33.01^{***}$ (df = 4; 52)

Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

#### The coefficients are biased and inefficient.

#### residual vs fitted value

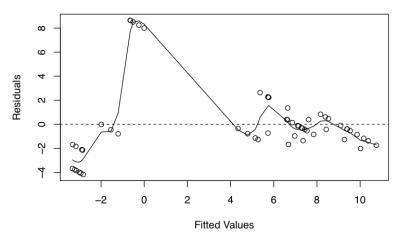


Figure 4: residual vs fitted value ( ) ( ) ( ) ( ) ( ) ( )

#### The result of Fixed OLS

Table 4: pooled OLS and fixed effects OLS

	Dependent variable: demo		
	PooledOLS	FixedOLS	
	(1)	(2)	
log(gdppc)	-0.644	-1.496	
0.0 11 /	(1.393)	(1.424)	
log(pe)	-1.103**	15.793***	
	(0.456)	(4.012)	
log(mr)	-6.886**	-12.087***	
	(3.062)	(3.176)	
log(gi)	-39.075***	-28.940**	
	(10.914)	(11.221)	
Constant	41.873*		
	(21.138)		
Observations	57	57	
$\mathbb{R}^2$	0.717	0.610	
Adjusted R <sup>2</sup>	0.696	0.563	
F Statistic	33.013*** (df = 4; 52)	19.532*** (df = 4; 50)	

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01

### **Findings**

- There is a significant and positive correlation between socioeconomic variables and democracy
  - Child Mortality and Primary Education have statistically significant and positive effect on democracy
  - Gender equality has negative effect on democracy
  - GDP is not statistically significant
- Among four socioeconomic components, the educational effect on democracy is the most significant than others.
  - TRUE
- The degree of impact of variables on democracy is consistent across selected African countries.
- Inconsistent!

