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

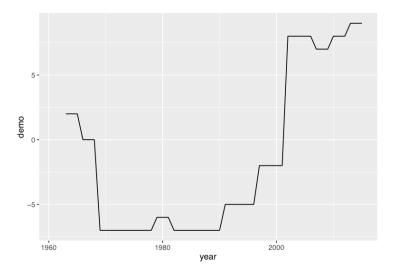
< What brings democracy? >

- 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	United Nations
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 ²	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

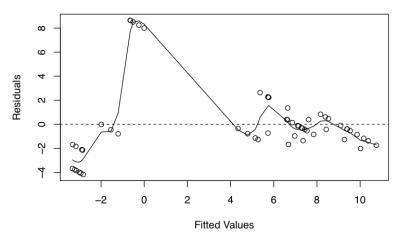


Figure 4: residual vs fitted value () () () () () ()

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 ²	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, but also Child Mortality is significant.
- The degree of impact of variables on democracy is consistent across selected African countries.
- Inconsistent!

