What brings Democracy? < South Africa, Botswana, and Kenya compared >

Takuma Andoh & Bomi Kim

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

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 changes over time

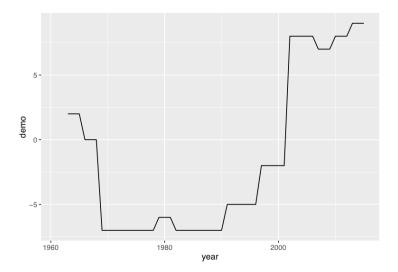


Figure 1: DL in Kenya

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 (2)	Kenya (3)
	(1)		
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
log(gdppc)	-0.64
,	(1.39)
log(pe)	-1.10**
0.4 /	(0.46)
log(mr)	-6.89**
0()	(3.06)
log(gi)	-39.08***
0.07	(10.91)
Constant	41.87*
	(21.14)
Observations	57
R ²	0.72
Adjusted R ²	0.70
Residual Std. Error	3.16 (df = 52)
F Statistic	$33.01^{***} (df = 4; 52)$
Market	*

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

The coefficients are biased and inefficient.

residual vs fitted value

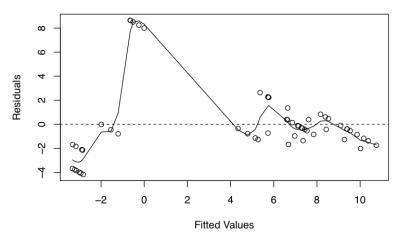


Figure 4: drawing

Gender equality has negative effects on democracy

• and (2) are the results of pooled OLS and fixed OLS.

Table 4: pooled OLS and fixed effects OLS

	Dependent variable: demo		
	PooledOLS	FixedOLS	
	(1)	(2)	
log(gdppc)	-0.644	-1.496	
	(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**	
0.07	(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)	

Conclusion

References