

Final presentation

Capstone Course "Politische Stabilität und politische Risiken"

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Project overview Why does political instability matter?







In order to minimize business risk, political instability needs to be predicted

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Project overview Project origin & goals



Assignment:

Developing a quantitative prediction model for political instability in **non-OECD** countries

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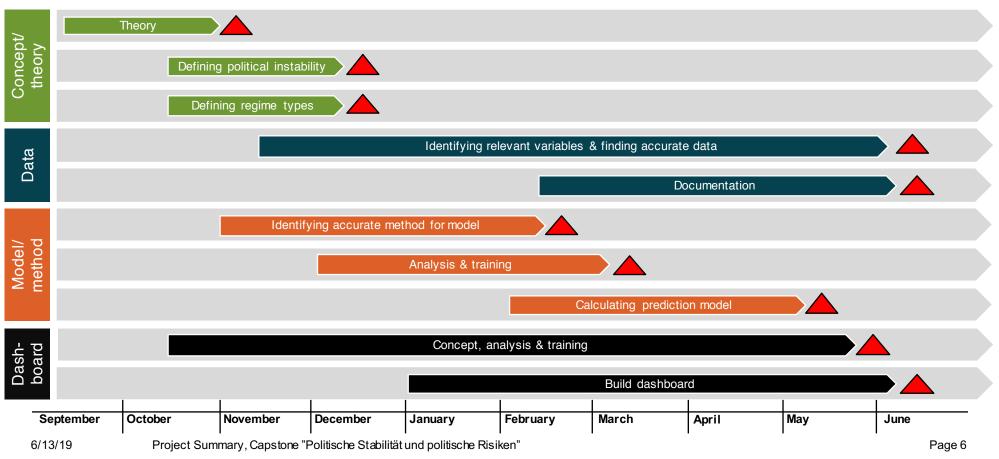


Process

Conception	Implementation
• What is political instability and how do we measure it?	• Where do we get the data from?
• What constitutes a regime? Which typology do we use?	• How do we present our results?
Does regime type matter?	
• Which method will be applied to predict political instability?	
• Which explanatory factors are we going to use?	



Roadmap



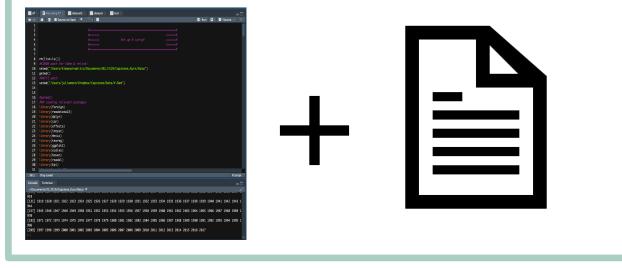


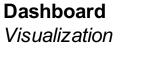
Project overview Final product output

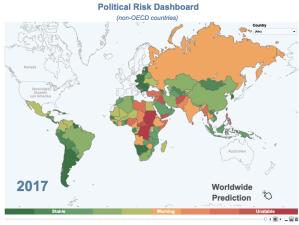
Assignment scope

Model & Documentation

Predicting political instability & documenting R-Code and variables







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Theory & data Our measure of political instability

Starting point	Our Political Instability Index	Our dependent variable: Fail
• Multidimensional definition of	1) War	Dichotomous variable
political instability	2) State repression	 Index decreases/steady = 0
149 non-OECD countries	3) Regime/Governance Stability	 Index increases = 1
(as of 1989)		
Continuous time-series data	Score: 0 (stable) to 9 (unstable)	



Theory & data Does regime type matter for political instability? Yes!

Closed autocracy	Electoral autocracy	Electoral democracy	Liberal democracy
No multiparty elections	De-jure multiparty elections BUT not free & fair or minimum freedom of media, association and expression	 Free & fair elections and a minimum of freedom of media, association and expression BUT minimum access to justice & intransparent law enforcement as well as no respect for seperation of power 	AND access to justice & transparent law enforcement as well as respect for seperation of power
Stable	Hybrid	Cases	Stable
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Theory & data





Sample of 70+ tested factors

Inflation Judicial reform Factionalism Clientelism Economic growth Public campaign finance Foreign direct investment Suffrage Corruption Civil liberties Attacks on judiciary Rule of law Accountability Executive oversight Party ban Media critique Clean elections Legislature controls resources

Explanatory factors

Freedom of movement Federalism International autonomy Removal of judges National dominance of single party Authority over state territory Life expectancy Political civil liberties Regional restriction of civil liberties



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Methods & results Comparing, testing, predicting

First: Identifying countries that become more **unstable** and comparing them with cases in the same region that remain **stable**

Then: Using a two-year-lag we test all possible explanatory factors with a conditional logistic regression

Finally: Statistically significant explanatory factors are put into the prediction model



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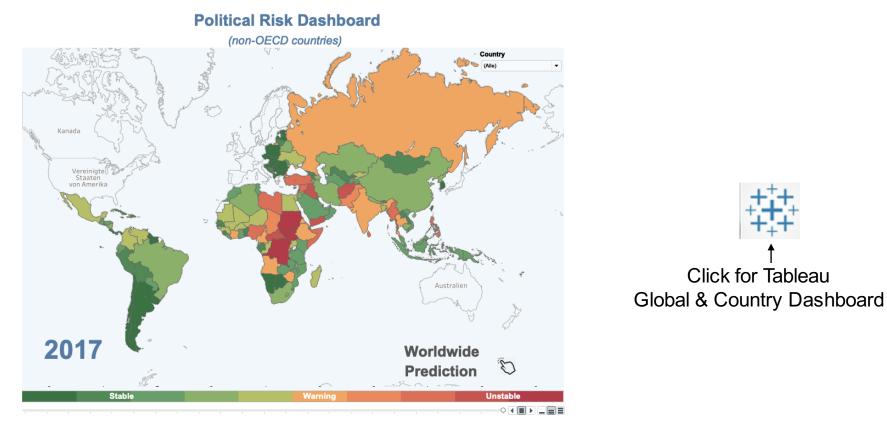
Methods & results

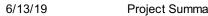
2-year-model	5-year-model
9 explanatory factors:	4 explanatory factors:
Regime type	Regime type
Federalism	Freedom of movement
Removal of judges	National dominance of single party
National dominance of single party	State authority over territory
International autonomy	
State authority over territory	Accuracy: 61%
Political civil liberties	
Regional restriction of civil liberties	
Life expectancy	
Accuracy: 71%	

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Dashboard





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Appendix



Layout work in progr **Regression table conditional logistic regression – 2 year lag**

Dependent variable:

Political Instability

Closed Autocracy	0.994** (0.423)
Electoral Autocracy	1.272*** (0.386)
Electoral Democracy	1.133*** (0.361)
Federalism	0.209*** (0.075)
National Dominance of Single Party	0.167** (0.066)
Removal of Judges	0.306*** (0.097)
International Autonomy	0.345** (0.165)
State Authority over Territory	0.653*** (0.239)
Delta Regional Restriction of Civil Liberties	1.784** (0.799)
Delta Political Civil Liberties	0.653 (0.429)
Delta Life Expectancy	5.962** (2.621)

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Tested factors of political instability (1/2)

Refugee population by country or territory of asylum
Population density (people per km ² of land area)
Foreign direct investment (Balance of Payment in \$)
Inflation (consumer prices in %)
Real GDP growth (annual rate in %)
Polarization of society
Average people's use of social media to organize offline action
Use of social media to organize offline violence
Privacy protection by law content
Privacy protection by law exists
Government social media censorship in practice
Government Internet shut down capacity
Government Internet filtering in practice
Gender equality in respect for civil liberties
Power distributed by urban-rural location
Person of the Leader
Direct election dimension index
Military dimension index
Hereditary dimension index
Exclusion by Political Group index
Exclusion by Socio-Economic Group
Exclusion by Social Group index

Infant mortality rate
Accountability index
Party institutionalization index
Division of power index
Political corruption index
Physical violence index
Clientelism index
Judicial corruption decision
Judicial purges
Public sector corrupt exchanges
Opposition parties autonomy
Legislature's control of resources
Executive oversight
Percentage of population with suffrage
Subnational elections free and fair
Public campaign finance
Civil society organizations participatory environment
Public sector corrupt exchanges
Executive bribery and corrupt exchanges
Government attacks on judiciary
Rule of law index
Private liberties index

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Tested factors of political instability (2/2)

Political civil liberties index	
Power distributed by social group	
Power distributed by socioeconomic position	
Print/broadcast media perspectives	
Print/broadcast media critical	
Media corruption	
Media bias	
International autonomy	
Domestic autonomy	
State authority over territory	
Social group equality in respect for civil liberties	
Social class equality in respect for civil liberty	
Freedom of foreign movement	
Freedom from political killings	
Freedom of religion	
Freedom of academic and cultural expression	
Judicial reform	
National party control	
Party linkages	 66
Party ban	fo
Clean elections index	10
Subnational civil liberties unevenness	

6 factors are not significant or political instability

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