

How to read statistics?

Kjersti Skarstad, PhD Candidate, Department of Political Science



Plan

- Why, how and when are statistics useful?
- Measurement issues: How to count what counts?
- Human rights data bases
- Statistical study example

Increased used of statistics in the HR field

- Monitoring: indicators, the MDGs, the SDGs
- Advocacy tools
- New Data sets
- Academic research

Statistics is a powerful tool

Sally Clark case



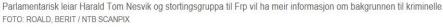
D.H and others v. the Czech Republic (ECHR)



SSB vil ikkje lage kriminalstatistikk om innvandrarar til FrP

Ingen veit kva grupper som er mest representert på kriminalstatistikken i Norge. Framstegspartiet etterlyser meir informasjon, men SSB vil ikkje lage slik statistikk. – Uheldig, meiner Norsk presseforbund.







Journalist
Anders Magnus
@mrkandersmagnus



Journalist
Eline Buvarp Aardal

- MER OM NORGE
- MER OM POLITI OG KRIMINALITET
- MER OM FREMSKRITTSPARTIET

@ Publisert 26.01.2016, kl. 19:02

"Landbakgrunn er etter vår vurdering en mer relevant og presis variabel for å vurdere innvandreres representasjon i kriminalstatistikken enn statsborgerskap"

Why statistics?

Quantitative vs. Qualitative

- Quantitative information is countable, structured, information poor
- Qualitative information is unstructured, information-rich, contextspecific

Why statistics?

- When dealing with many observations, qualitative information becomes overwhelming.
- Statistics allows us to summarise quantitative information into a more useful amount of information.
- Establish pattern and trends
- Better suited for generating universally generalisable results
- ...and because it is cool!

What is lost?

Liebowitz, Debra J. and Zwingel, Susanne (2014), 'Gender Equality Oversimplified: Using CEDAW to Counter the Measurement Obsession', *International Studies Review,* 16 (3), 362-89.

- Indicators = narrow and misleading understanding of gender equality
- Variation and different sub groups lost
- «Checking off boxes mentality»
- Avocacy and agency lost
- CEDAW committee's prodcedure as a good example of how it should be done

On Measurement and Statistics

- Quantitative data are always:
 - Dependent on the definitions used
 - Data material available
 - Rigor of the coders
- To be useful, a particular measure must be:
 - Valid:
 - Concept validity
 - · Measurement validity
 - · Internal and external validity
 - Reliable
 - Coders must be competent and unbiased
 - Coding rules must be explicit

UiO * Department of Political Science

University of Oslo

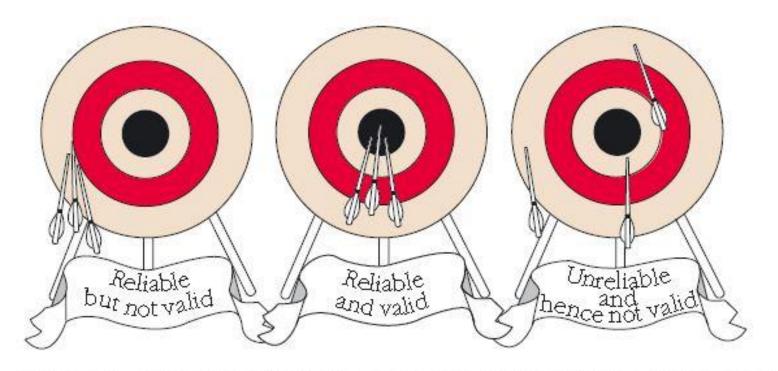


Figure 5.1 Reliability and validity. (Source: Open University, 1979, Classification and Measurement, DE304, Block 5, The Open University, Milton Keynes, p. 68)

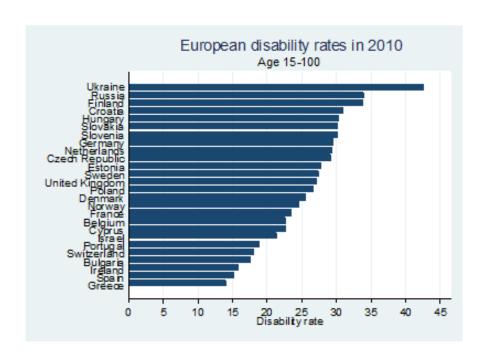
Read

Measurement Validity: A Shared Standard for Qualitative and Quantitative Research

Robert Adcock & David Collier

The American Political Science Review, Vol. 95, No. 3. (Sep., 2001), pp. 529-546.

What is disability?



Human Rights data

Validity

- What are HR?
- How do we conceptualise/measure it?

Human rights data

Freedom House

- Free, partly free, not free (1 through 7)
- 10 political rights questions
 - procedural and actual
- 15 civil liberties questions
 - Expression, association, rule of law, individualism
- Particularly useful as indicator of performance
- Problem with time series: moving scale
- Policy Advocates interested in particular outcomes...
- http://www.freedomhouse.org

Human Rights Data

Political Terror Scale (PTS)

- Five-level index (subjective placement)
 - Based on Amnesty International and US State Department annual reports
 - -1976
 - State-sanctioned killings, torture, disappearances, political imprisonment
 - Regarded as reliable but not too informative
- http://www.politicalterrorscale.org/

Human Rights Data

- CIRI (Cingranelli-Richards HR data)
- Measures of government respect for 15 human rights
 - Based on Amnesty International and US State Department annual reports
 - -1981
 - From killing and torture to worker's and women's rights
 - Data truncation
- http://ciri.binghamton.edu/

Human Rights Data

- SERF Economic and Social Rights Empowerment Initiative
 - Index on the right to work, health, food, housing and education
 - measures the protection of rights relative to the country's economic capacity by adopting an "achievement possibility frontier"

http://www.serfindex.org

Human Rights data

Reliability

- number of human rights violations is extremely difficult to measure precisely
- a change in a country's value on a standardised scale only means that the number of violations *reported* have changed. It does not necessarily mean that there has been an actual change.
- Missing data

Human Rights data

- Rough estimates rather than precise and objective facts
- Still useful and informative

- At present most focus on:
 - civil and political rights
 - negative aspects of rights

Example:



Article

Do human rights violations increase the risk of civil war?

International Area Studies Review
1–24
© The Author(s) 2016
Reprints and permissions:
sagepub.co.uk/journalsPermissions.nav
DOI: 10.1177/2233865916629567
ias.sagepub.com



Kjersti Skarstad

Department of Political Science, University of Oslo, Norway

Håvard Strand

Department of Political Science, University of Oslo, Norway

"[I]t is essential, if man is not to be compelled to have recourse, as a last resort, to rebellion against tyranny and oppression, that human rights should be protected by the rule of law"

(Universal Declaration of Human Rights 1948: preamble para.3)

Do Human Rights Violations Increase the Risk of Civil War?

Challenges

Enogeneity / causality



- Dependency
- Omitted variables (explanatory factors)
- Lack of data

Solutions

- Apply time-series cross sectional data
- Look at HRV *before* the onset
- Low threshold of civil war
- Modelation of temporal- and spatial dependence
- Include relevant control variables
- Control for unobserved time consistent variables

Table 2: Regression results

•			
	Model 1	Model 2	Model 3
Social and Economic Rights	0.980**		
	(-2.451)		
Political Terror Scale		1.398***	
		(3.189)	
Social and Economic Rights Proxy			1.300***
			(2.641)
GDP per Capita (log)	0.897	0.770***	0.701***
	(-1.069)	(-3.270)	(-4.887)
Population (log)	1.450***	1.276***	1.423***
	(5.582)	(3.711)	(6.326)
Other ongoing conflicts	0.659	0.578**	0.725
	(-1.502)	(-2.021)	(-1.356)
Spatial lag of conflict (50km)	1.580	1.205	1.651
	(1.109)	(0.468)	(1.465)
Proximity to regime change	1.129	0.805	1.399
	(0.402)	(-0.695)	(1.375)
Proximity to previous conflict	2.473**	2.567***	2.090**
	(2.445)	(2.635)	(2.308)
ethnicity relevant	1.960	2.168	2.505**
	(1.415)	(1.635)	(2.311)
Constant	0.000***	0.000***	0.000***
	(-6.661)	(-5.545)	(-7.086)
Log Likelihood	-414.22	-448.35	-641.01
Log Likelihood null model	-446.89	-491.77	-695.87
N	2544	3191	4637

Results

- Human rights violations increase the risk of civil war!
- SERF: yearly increase of 3,2 pp
- PTS: yearly increase of 4 pp
- CP: almost no support