

Overview

In this project we present a new measure for evaluating position in the world economy. We seek to build a more comprehensive measure which provides additional insight into relative global power at the country level.

Previous Measures:

		F . O		7 1	D'		
		Econ & Non-	C/P Structu	Zonal Bound	Discret e or	Unequ al	Other
		Econ	re	aries	Cont.	Exchan	
						ge	
Snyder & Kick	1979	Y	Х	Х	DISCRE TE		Growth
Breiger	1981	N	Х				Intra- core compet ition
Nemet h & Smith	1985	Ν	X	Х		Х	Growth
Smith & White	1992	N	Х	Х	Х	Х	Mobilit y
Van Rosse m	1996	Y	X	Х	CONT		Growth
Kick & Davis	2001	Y	Х	Х	DISCRE TE		Growth
Mahut ga	2006	Ν	Х	Х	Х	Х	Mobilit y
Us	2011	Y			CONT		

Key Features of New Measure:

Longer Temporal scope: 1820-2007 Includes Economic & Coercive Measures: Tilly (1994)

Position in the World Economy 1820-2007 Department of Sociology, University of Utah 2011

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Measurement Construction

Analysis using standardization and aggregate measures to determine relative position in the world economy based on four economic and military variables.

Economic power:

- Gross Domestic Product

Coercive power:

•Total Military Expenditure •Military Expenditure per Soldier Data: Correlates of War Constant1990 Int'l Geary-Khamis Dollars

Standardization: Z Score: $i - \mu$ σ

 \mathbf{Z} = Number of Standard Deviations from the Mean

Standardized using 8 core countries:

United States, United Kingdom, Netherlands, Belgium, France, Italy, Sweden, Denmark)

Standardization Alternatives:

1. Longitudinal:

- \bullet

2. Cross-Sectional:

- mean

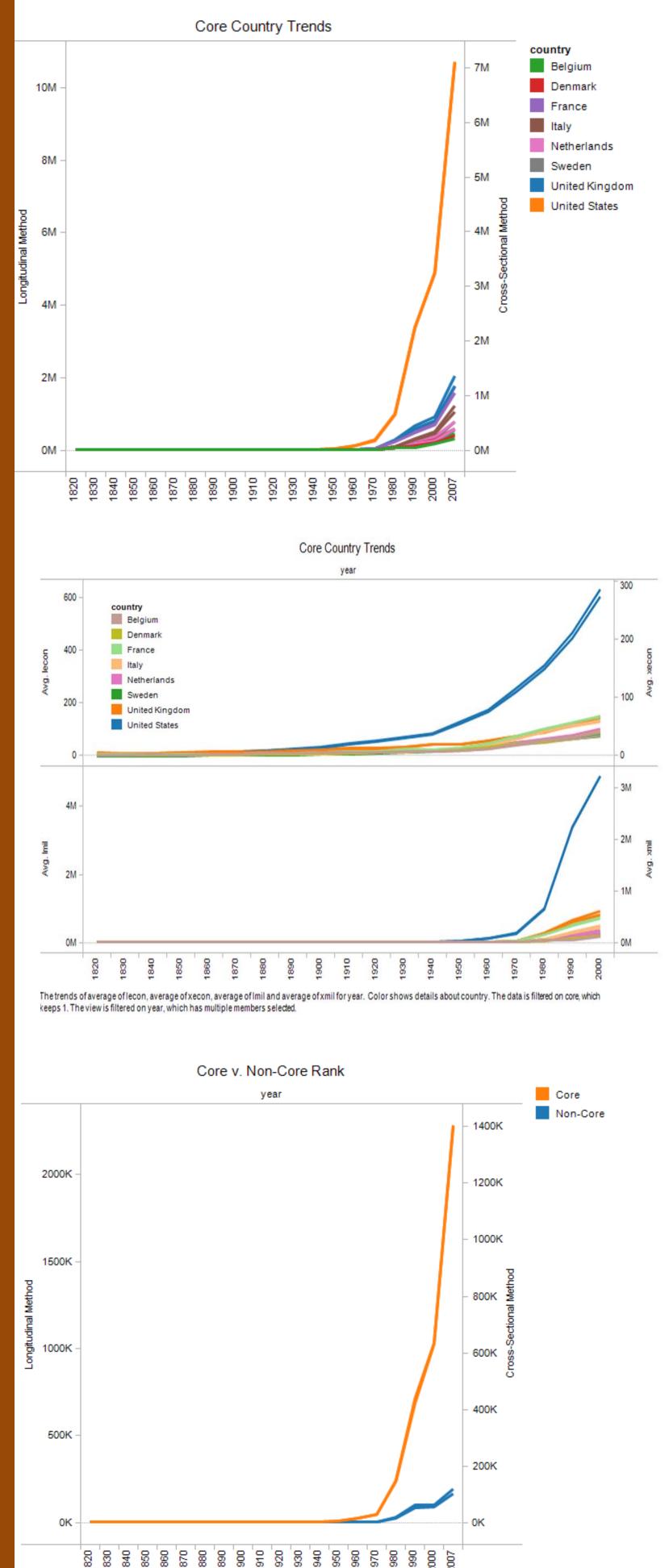
Gross Domestic Product per capita Data: Angus Madison Constant Year 2000 \$USD

> Earliest year's (1820) standard deviation and mean Allows comparison across country and over time

> Each year's standard deviation and

Allows comparison between countries at one time point

Measure in Practice







Independent v. Dependent Variable Longitudinal v. Cross Sectional Use Country Trends Econ/Military Balance Use of Aggregates (i.e. Inequality)

Considerations

- 1. Because national boundaries shift throughout history, it is difficult to gather precise data.
- 2. Standardizing the unit conversion to the 2000 US dollar may create limitations in comparing nations.

Despite this, we do not feel there has been systematic error in any of our data transformation process; however it is not without limitations.

Preliminary Findings

Our research suggests that following World War II, there was a sharp divergence in world power in which non-core countries began to lag behind core countries in both economic and military expenditures. Further, we found that the United States, especially since the 1940s, has led all other countries in economic and coercive measures suggesting that the United States is currently the world's greatest superpower.



