Changes in European voting patterns: is the new left-right dimension becoming more important, and why?

Alexei Zakharov

Higher School of Economics, Moscow, Russia

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What do we see?

- Political parties in Europe and elsewhere now devote much less time to the discussion of economic issues than they did 40 years ago
- At the same time, a greater share of the rhethoric is focused around such issues as human rights, morality, law and order, or environmental protection.
- One can speak of an economic ideological dimension or old left-right dimension and an authority vs. liberty or new left-right dimension.

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Is it because the preferences of the voters change with time?

The following three hypotheses can then be tested:

- Hypothesis 1. The salience (or importance to voters) of different ideological dimensions varies over time; in particular, the importance of economic left-right dimension decreases, while the importance of the authority vs. liberty dimension increases over time.
- Hypothesis 2. At any moment of time, the economic left-right dimension is more salient for older voters.
- Hypothesis 3. At any moment of time, the authority vs. liberty dimension is more salient for younger voters.

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The methodology

Estimate a series of multinomial choice models based on mass survey data.

For that we need to produce a measure of ideological positions for both voters and political parties.

- The CMP project keeps track party policy mainfestos for a number of countries over a period of time.
- The unit of analysis is a party policy manifesto, usually produced in an election year.
- 56 issues, grouped into seven "policy domains"
- Each issue reflects a party's concern with some specific policy area and with direction of such policy.
- Example: If a manifesto sencence is coded as issue per202
 ("democracy"), then it is deemed to contain "favorable
 mentions of democracy as a method or goal in national and
 other organizations; involvement of all citizens in
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Assumption 1. Each statement in a party manifesto is a statement along the old and new left-right ideological dimensions.

- Economic right Free enterprise, Economy, Protectionism (negative),
 Welfare state limitation, Labor groups: negative
- Economic left Market regulation, Economic planning, Protectionism (positive), Keynesian demand management, Controlled economy, Nationalization, Marxist analysis, Welfare state expansion, Social justice, Labor groups (positive)
 - Authority National way of life (positive), Traditional morality (positive), Law and order, Multiculturalism (negative), Political authority, Military (positive), Internationalism (negative)
 - Liberty National way of life (negative), Traditional morality (negative), Multiculturalism (positive), Social harmony Underprivileged minority groups, Freedom and human rights, Democracy, Internationalism (positive), Peace, Anti-imperialism, military (negative)

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Assumption 2a. A party manifesto is an *exact* statement of the party's position on the two ideological dimensions.

Position of party i:

$$y_i = \sum_{k=1}^{56} w_{ik} v_k, \tag{1}$$

where w_{ik} is the weight of issue k in party i's manifesto, v_k — position of issue k.

Economic - right 1 on dimension 1

Economic - left -1 on dimension 1

Authority 1 on dimension 2

Liberty -1 on dimension 2



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Assumption 2c.

- The relative frequency of left and right statements on each ideological dimension depends on the party's ideological position.
- The total frequency of both left and right statements on each ideological dimension depends on that issue's salience to the party.

Example. Suppose that party X makes a total of 100 statements in its policy manifesto, including 5 leftist and 15 rightist statements on ideological dimension 1.

The policy position is $0.5 = (5 \cdot (-1) + 15 \cdot 1)/20$, the salience is 20% = (5 + 15)/100.

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Now let there be 25 leftist and 75 rightist statements out of 100.

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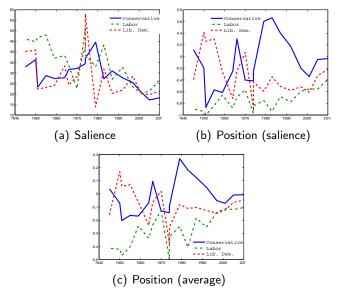
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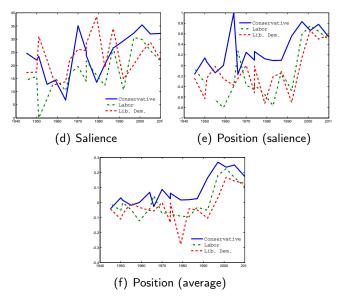
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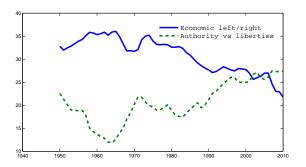
Great Britain: Economic left-right dimension.



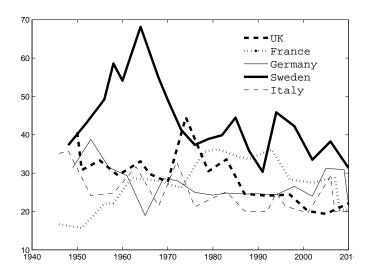
Great Britain: Authority vs. liberty.



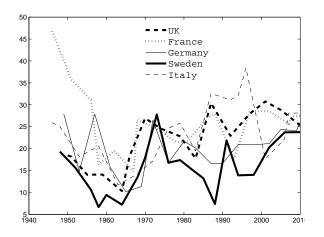
Average salience of the two ideological dimensions for 9 European countries.



Average saliences for 5 European countries: Economic



Average saliences for 5 European countries: Liberty vs. authority



- One or several surveys such as WVS can be used
- Mass survey data is not quite comparable to CMP data, as the survey questions are fixed
- For each respondent we must estimate her ideological position
- Positions must be in the same space as the party positions
- From each survey, we must select a list of questions for each of the two ideological dimensions; answers to each such question can be treated as left or right

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Estimating voter positions from mass survey data — example

Questions e003-e004:

If you had to choose, which one of the things on this card would you say is most important? And which would be the next most important?

- Maintaining order in the nation
- ② Give people more say
- Fighting rising prices
- Protecting freedom of speech

Answers 1 and 3 are assigned position 1 on dimension 2. Answers 2 and 4 are assigned position -1 on dimension 2.

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Estimating voter positions from mass survey data: The averages method

- Suppose that there are N_1 questions on first dimension, and N_2 questions on second dimension.
- Respondent i gives L_{ji} left answers and R_{ji} right answers to questions on dimension j.
- Her position on dimension j is $(R_{ji} L_{ji})/N_j$.

What data was used

Constructing a measure of respondent ideology that is consistent across several surveys is much easier said than done.

- Not all WVS waves contained all the necessary questions.
- For example, Wave 1 did not have any of the questions critical to the economic dimension.
- Data on some questions was missing. For Wave 4, the ideological positions could be constructed only for a few European countries.

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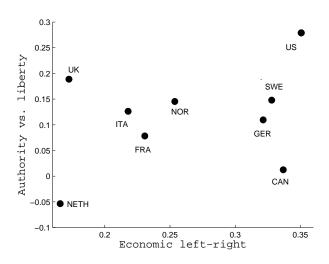
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Average positions of the EVS Wave 2 respondents on the two ideology dimensions.



Hypothesis testing

With data from only one survey, we can test the following:

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Let the utility of voter i = 1, ..., N, when voting for party j, be

$$u_{ij} = a_j + \alpha_j \cdot x_i + \beta_{1i} (v_{1i} - y_{1j})^2 + \beta_{2i} (v_{2i} - y_{2j})^2 + \epsilon_{ij} \equiv \bar{u}_{ij} + \epsilon_{ij}$$

- a_j the valence parameter for party j; y_{1i} , y_{2i} its ideological positions
- x_i the socio-economic variables for voter i; v_{1i} , v_{2i} her ideological positions
- ullet α_j is a vector of parameters determining voter-specific valence
- β_{1i} , β_{2i} the salience of two the ideological dimensions to voter i
- ϵ_{ii} error term



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Let

$$\beta_{1i} = \bar{\beta}_1 + \gamma_1 g_i, \ \beta_{2i} = \bar{\beta}_2 + \gamma_2 g_i,$$

where g_i is the age of voter i.

Then, we can operationalize:

Hypothesis 2. $\gamma_1 < 0$,

Hypothesis 3. $\gamma_2 > 0$,

as, according to the assumption that ideology matters to voting, we must have $\beta_{1i} < 0$, $\beta_{2i} < 0$.

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Let

$$P(\epsilon_{ij} \leq x) = e^{-e^{-x}}.$$

Let the choice set for voter i be J. The likelihood of the observed choice is then

$$L_i = \frac{e^{\bar{u}_{id_i}}}{\sum_{j \in J} e^{\bar{u}_{ij}}},$$

where d_i is the actual vote of i. The likelihood of the entire dataset will be

$$L = \prod_{i \in N} L_i.$$

The estimates of the parameters a_j , α_j , β_{1t} , and β_{2t} will be obtained through the maximization of the likelihood function L.

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The results

I ran the regression for France, Germany, UK, Italy, Norway, Sweden, Netherlands, Canada, and US.

- γ_1 negative and significant Norway (marginally), Germany (marginally)
 - γ_1 positive and significant Sweden, France, UK
- γ_2 negative and significant Canada γ_2 positive and significant Norway

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The effect of change in voter's ideology on voting probabilities for UK.

	Conservative	Lib. Dem.	Labor
20-year old male, +1 sd on D1	+0.3995	+0.0001	-0.3996
70-year old male, +1 sd on D1	+0.2221	-0.0156	-0.2065
20-year old male, -1 sd on D1	-0.1733	-0.0077	0.1810
70-year old male, -1 sd on D1	-0.2038	-0.0048	0.2086
20-year old female, +1 sd on D1	+0.4025	-0.0082	-0.3944
70-year old female, +1 sd on D1	+0.1911	-0.0387	-0.1523
20-year old female, -1 sd on D1	-0.2556	-0.0121	0.2678
70-year old female, -1 sd on D1	-0.2108	0.0134	0.1974

All other covariates are fixed at mean values.

What next?

- Need data from other surveys deeper in time
- Obtaining a good measure of voter ideology from disparate, nonstandartized surveys is a formidable challenge

What can be used to predict the changes in the imporance of ideological issues?

- Inglehartian value change theory:
- Lack-of-core theory: negative autocorrelation

A number of regressions on CMP data. N = 330.

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```
-0,0017463 ( -5,21 )
                                   0,0000882 ( 0,13 )
year
                -4,16e-10 (-4,66) 5,71e-11 (0,14)
pop
                7,57e-07 ( 1,46 )
                                    -4,56e-06 ( -2,87 )
gdp2000_pe p
                0,0006212 ( 0,70 ) 0,0002827 ( 0,34 )
gdp_growth
                0,0002923 ( 0,48 ) 0,0001825 ( 0,26 )
gini
                0,0016589 (2,86) 0,0008079 (1,26)
polity_
Country FE
                       Nο
                                           Yes
```

Таблица: Dimension 1 salience

```
0,0005173 ( 0,48 )
                                  0,0060062 ( 2,52 )
year
                2.15e-10 ( 0.75 ) 1.14e-09 ( 0.77 )
pop
gdp2000_pe p 1,44e-06 (0,86) -0,0000114 (-2,01)
               -0,006107 ( -2,14 )
                                   -0,0087868 ( -3,00 )
gdp_growth
               -0,004895 (-2,49) -0,0040587 (-1,65)
gini
polity_
               0,0012966 ( 0,70 )
                                   -0,0002271 ( -0,10 )
Country FE
                       Nο
                                          Yes
```

Таблица: Dimension 1 average positions

Таблица: Dimension 1 polarization

```
0,0006735 (1,70)
                                   0,0000246 ( 0,03 )
year
                3,49e-10 (3,30) 7,58e-10 (1,55)
pop
                4,93e-07 (0,80)
                                    1,03e-06 (0,55)
gdp2000_pe p
               -0,0036366 (-3,47) -0,0032271 (-3,34)
gdp_growth
               0,0016877 ( 2,33 ) 0,000628 ( 0,77 )
gini
polity_
               -0,0034702 (-5,06) -0,0031255 (-4,15)
Country FE
                      Nο
                                          Yes
```

Таблица: Dimension 2 salience

```
0,0152154 ( 12,13 )
                                  0,014707 (5,71)
year
                3,41e-10 (1,02)
                                  -3.79e-09 ( -2.37 )
pop
gdp2000_pe p -8,64e-06 (-4,45) -2,38e-06 (-0,39)
               0,0088784 ( 2,67 ) 0,008918 ( 2,81 )
gdp_growth
               0,0071246 (3,11) 0,006613 (2,48)
gini
polity_
               0,0047064 ( 2,17 )
                                  -0,0008587 ( -0,35 )
Country FE
                      Nο
                                          Yes
```

Таблица: Dimension 2 average positions

```
-0,001801 ( -2,76 )
                                     0,0007784 ( 0,54 )
year
                -3.59e-10 ( -2.07 ) -8.22e-10 ( -0.92 )
pop
gdp2000_pe p
               2,89e-06 ( 2,87 ) -3,34e-06 ( -0,97 )
                                    -0,0009773 ( -0,55 )
gdp_growth
                -0,0000267 ( -0,02 )
               -0,0015011 (-1,26) -0,0022631 (-1,52)
gini
polity_
                0,0004815 ( 0,43 ) 0,0016114 ( 1,17 )
Country FE
                        Nο
                                            Yes
```

Таблица: Dimension 2 polarization