A CLOSER LOOK AT 2017 ELECTION

Freie Demokraten
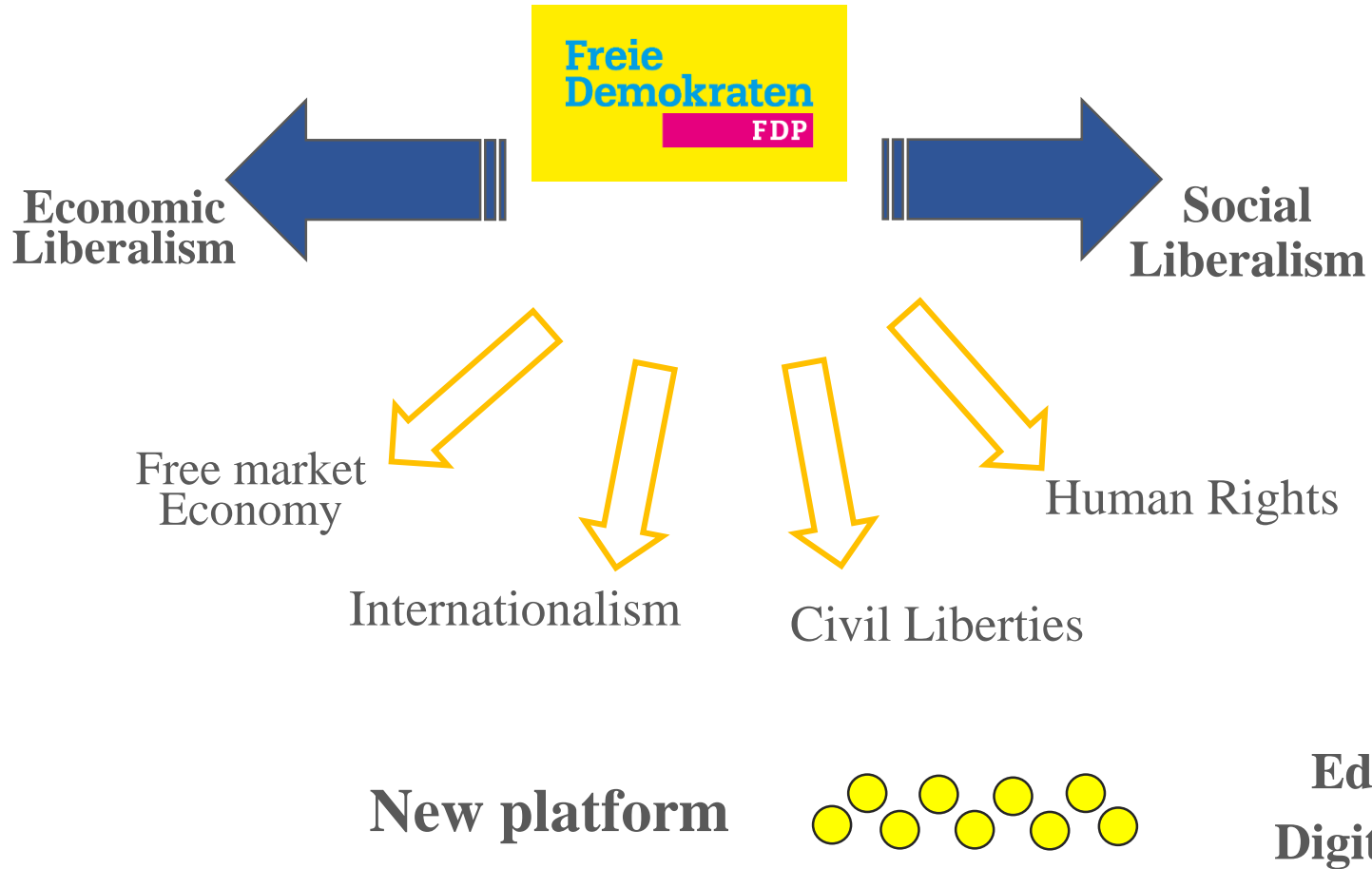
FDP

Karthik Kannepalli

November 2019

Fact sheet

Economic Liberalism

Social Liberalism

Free market Economy

Internationalism

Civil Liberties

Human Rights

New platform

Education

Digitalization

Descriptive statistical information

Share of votes for FDP out of valid votes by state

State	%
Total	10.7
Nordrhein-Westfalen	13.1
Baden-Württemberg	
Schleswig-Holstein	
Hessen	
Hamburg	
Rheinland-Pfalz	
Bayern	
Bremen	
Niedersachsen	
Berlin	
Sachsen	
Thüringen	
Sachsen-Anhalt	
Saarland	
Brandenburg	
Mecklenburg-...	6.2
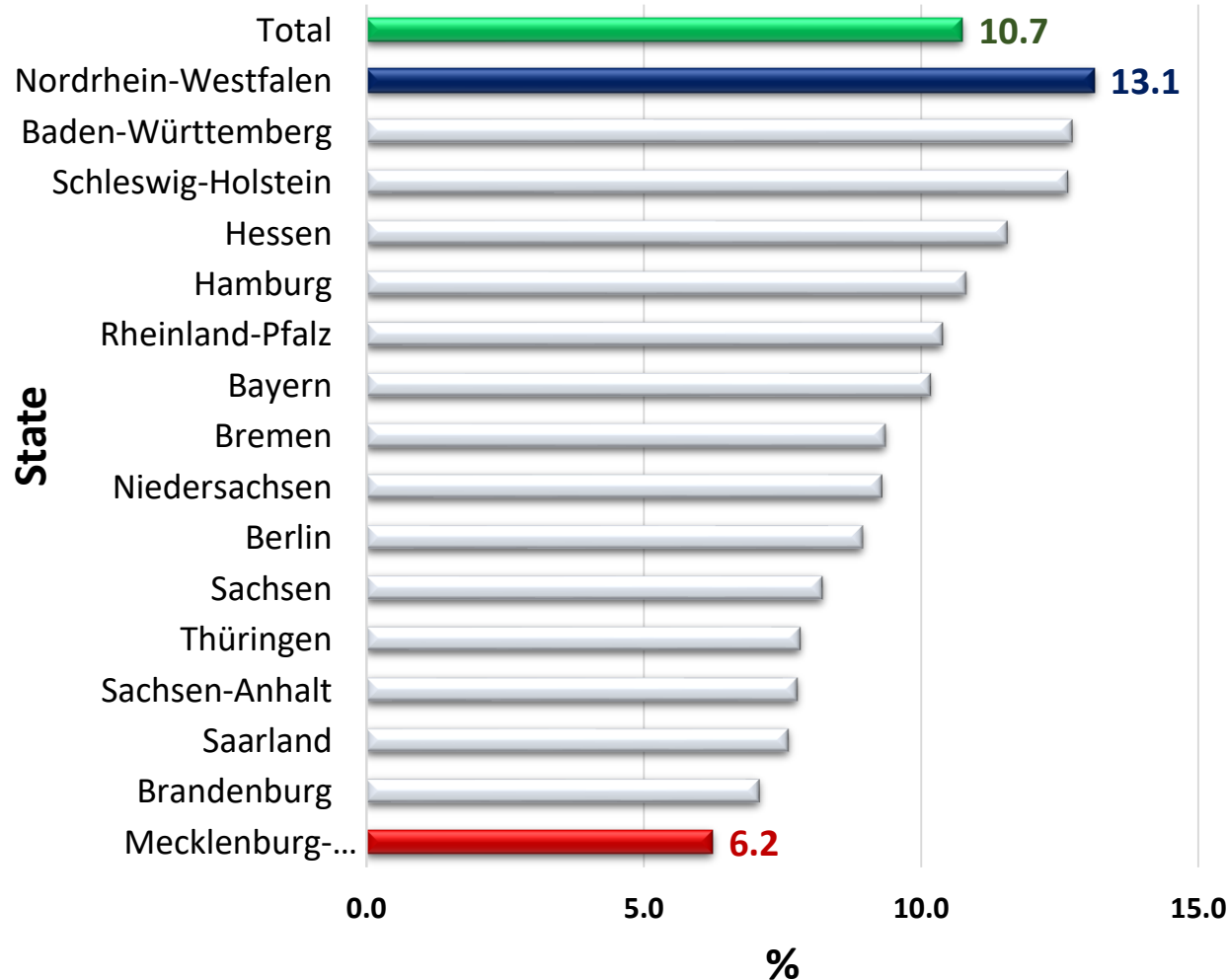
Distribution of the FDP votes by districts

MAX 33 940

3rd Qrt. 19 362

MEAN 16 721

MEDIAN 16 441

1st Qrt. 12 795

MIN 6 555
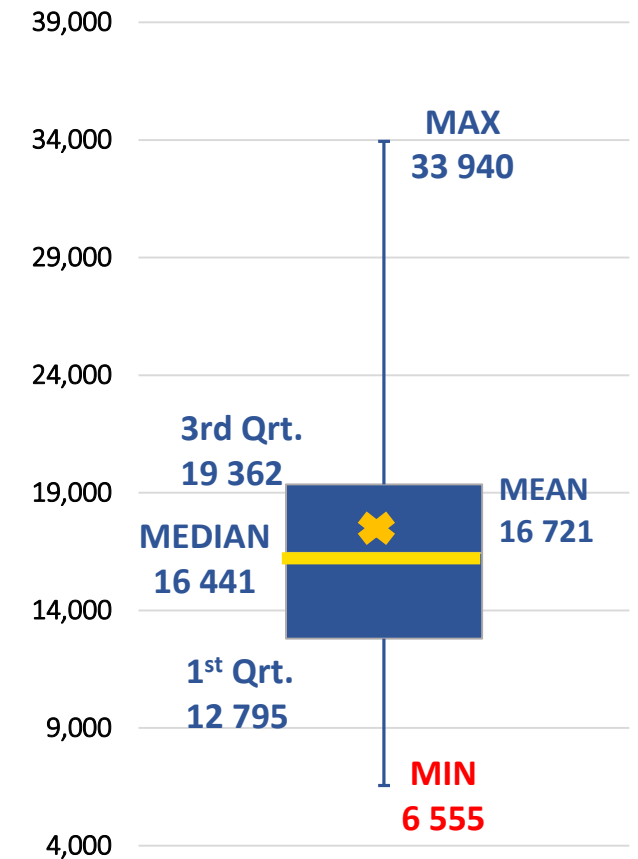
Statics Breakdown: scatterplots, parameters correlation

1

Age 18-24 vs. FDP voters
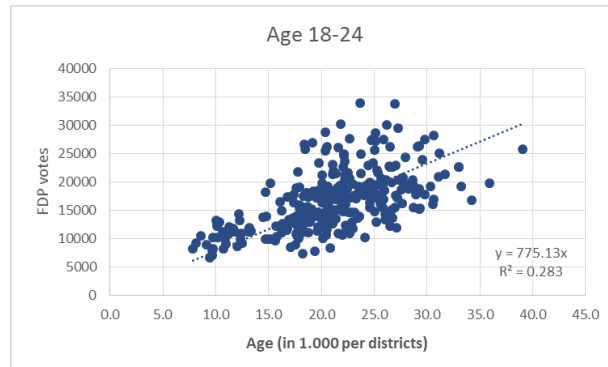
Age 18-24 vs. FDP voters	
Correlation	0.58
P-value	1.96E-28

2

Age 35-59 vs. FDP voters
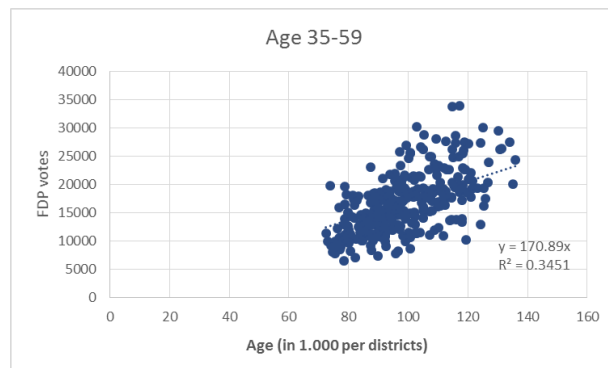
Age 35-59 vs. FDP voters	
Correlation	0.61
P-value	1.7E-31

3

Available income of private households
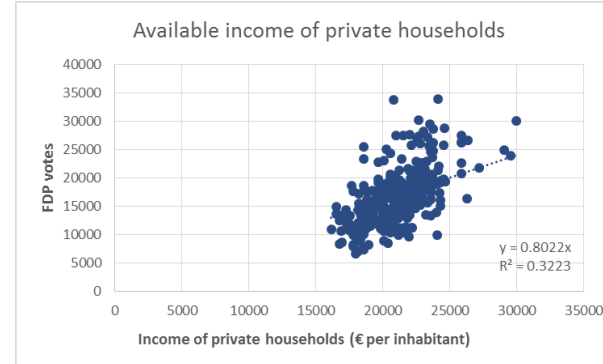
Available income of private households	
Correlation	0.63
P-value	1.87E-34

4
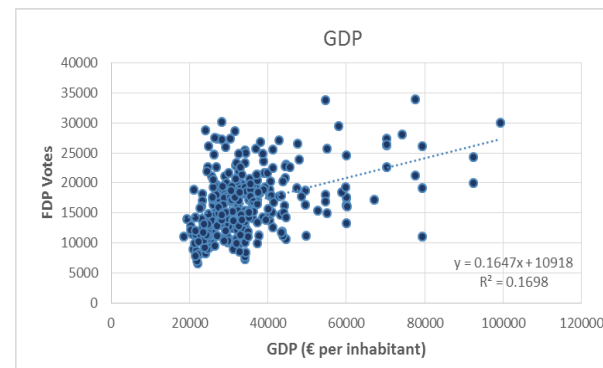
GDP (€ per inhabitant)

GDP (€ per inhabitant)	
Correlation	0.41
P-value	1.03E-13

5

Companies (per 1.000 inhabitants)
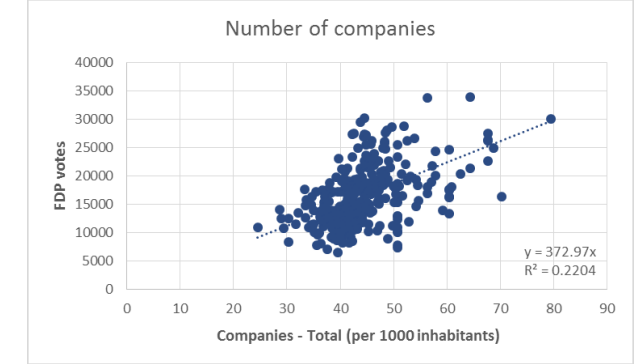
Companies (per 1.000 inhabitants)	
Correlation	0.47
P-value	4.24E-18

6
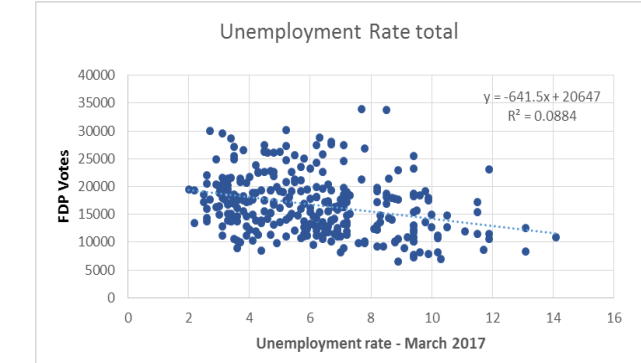
Unemployment rate

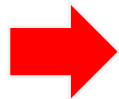| Unemployment rate	
Correlation	-0.3
P-value	1.55E-07

Multi-regression Analysis

Regression Analysis: Number of votes versus Age (35-59), Income, Migration

Model Summary

	R-sq	R-sq (adj)	Standard error
Multiple R			
78%	61.8%	61.3%	3255.5

Coefficients

Term	Coefficient	Standard error Coef.	T-Stat	P-value
Intercept	-27255.7	2780	-9.8	0.000
Age - 35-59	119.68	17.4	6.86	0.000
Income of private households (€ per inh-t)	1.21	0.11	10.9	0.000
Age 18-25	211.8	44.8	4.72	0.006
Unemployment rate	341.6	102.1	3.35	0.000

Regression Equation

FDP votes = -27255.6 +1.21*Income + 119.8 *Age (35-39) + 211.8 Age + 341.8*Unemployment
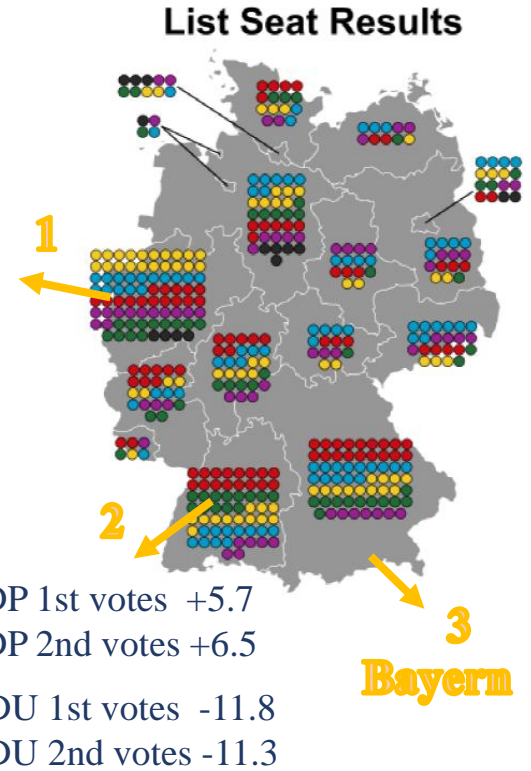
A closer look at the results

2013 · AfD · FDP · Greens · Left

Hamburg
Berlin
Cologne
Frankfurt
Stuttgart
Munich

2017

Hamburg
Berlin
Cologne
Frankfurt
Stuttgart
Munich

+ 5.9%

FDP 1st votes +5.6
FDP 2nd votes +7.9

CDU 1st votes -5.5
CDU 2nd votes -7.1

1

1st populated
1st youngest (18.24 , 35-59)
1st available income
1st sum of companies
1st sum of employed
1st rate of unemployment
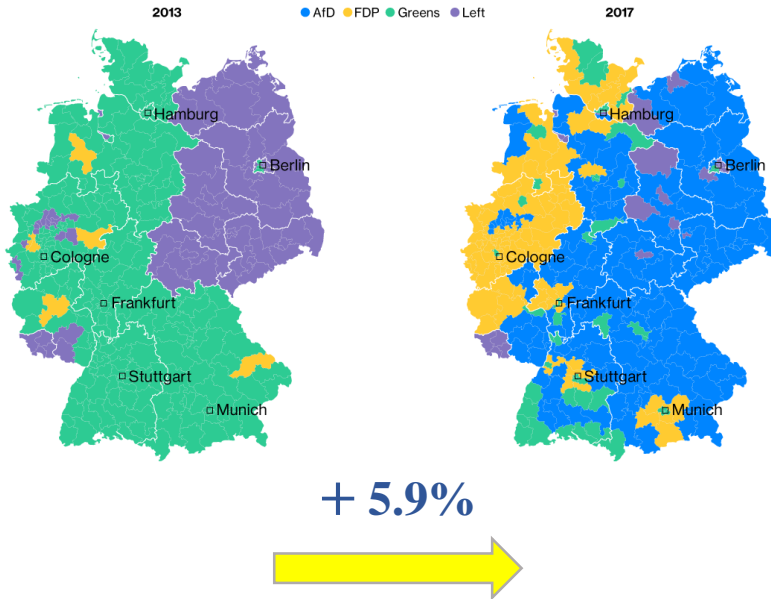
- 38.6% university qualification
- 27.4% employed in industries
- 28.2% employed in services and others
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- Population growth upon immigrations : 14,800
- Foreigner population: 11.8%
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- Unemployment rate7.6%
- Recipients of unemployment benefit II
and of social allowance: 96,100
- Foreigners receiving social benefit allowance: 33%

2

3

Bayern

FDP 1st votes +5.7
FDP 2nd votes +6.5

CDU 1st votes -11.8
CDU 2nd votes -11.3

3rd populated
3rd youngest (18.24 , 35-59)
3rd available income
3rd sum of companies
3rd sum of employed
3rd rate of unemployment

- 29.4% university qualification
- 35.9% employed in industries
- 24.0% employed in services and others
****
- Population growth upon immigrations : 15,700
- Foreigner population: 13.9%
****
- Unemployment rate 3.7%
- Recipients of unemployment benefit II
and of social allowance: 43,400
- Foreigners receiving social benefit allowance: 39.1%