**Online Appendix**

**The 2020 Czech regional elections: a story of a winner that lost**

***Data availability***

The dataset as well as the R script for all the figures and analyses can be obtained from Harvard Dataverse. Lysek, Jakub; Kouba, Karel, 2021, "The 2020 Czech regional elections: a story of a winner that lost", <https://doi.org/10.7910/DVN/IKM7JH>, Harvard Dataverse.

***Statistical software and geographic information system (GIS)***

Maps were created by using Esri ArcGis software on the same dataset that was merged with the shapefile of electoral precincts. We have used the same dataset used in [Lysek et al. (2021)](https://www.tandfonline.com/doi/full/10.1080/17445647.2020.1819901) and merged it with the new electoral results of the 2020 regional elections in R software. The shapefile of the electoral precincts was obtained from the State Administration of Land Surveying and Cadastre Office (<http://services.cuzk.cz/shp/>).

***Variables, data sources and models***

All analyses are based on electoral results of the 2020 regional election. All electoral data come from official statistics provided by the Czech Statistical Office (CSO) ([www.volby.cz](http://www.volby.cz)). We also collected the precinct-level data on socio-demographic variables provided by the CSO and paired them with the electoral results. In total, there are 13,657 electoral precincts with a mean of 541 voters and a standard deviation of 414 voters. Large cities typically have precincts of around 1,100 registered voters. Due to the changes in electoral boundaries, 13,626 precincts entered the analysis. We have used the same key sociodemographic variables that have been tested as crucial in explaining voting patterns in the Czech Republic in previous elections (see [Lysek et al. (2021)](https://www.tandfonline.com/doi/full/10.1080/17445647.2020.1819901). The sociodemographic variables were collected by the CSO as a national census data in 2011. The variables are operationalized as shares of those inhabitants with a given characteristic in a given precinct on the total population of the precinct. All the variables are defined by the Czech legislation regarding the national census. They are the education level (*College degree (%)* – share of people with bachelor or higher degree), religiosity (*Catholics (%)* – share of people that identified in the census themselves as Catholics on the total population), and a set of variables measuring the socioeconomic development such as *Unemployed (%)* (share of unemployed people on the total population), *Self-employed (%)* (entrepreneurs who are natural persons, but not a legal entity), *Elderly (unemployed) (%)* (retired inhabitants who are not employed). *Distraints in %* (share of people in distraint on the total population of the municipality) were obtained from *Mapa Exekucí* (<http://mapaexekuci.cz/>) which is an NGO that collects data on people in distraints based on the data of the *Czech Executive Chamber*. Those variables capture much of the differentiation between socially disadvantaged areas and the core regions of the Czech Republic. As a control, the level of urbanization was added into the model as a logged number of inhabitants (municipal level) (provided by the CSO for 2020).

OLS models were used. The observations were not clustered by regions or municipalities. The regression models were weighted by the sum of registered voters but the results do not differ substantially from unweighted regression models.

***Composition of party coalitions from Table 1:***

Central Bohemia: Spojenci - TOP09, Hlas, Zeleni;

South Bohemia: TOP 09 a KDU-CSL - Spol.pro JC;

Plzeň: STAN,Zeleni,PRO PLZEN; ODS s podp.TOP 09 a nez.star.;

Karlovy vary: Koalice ODS+KDU-CSL; Koalice STAN, TOP 09;

Liberec: Spolecne pro Liberecky kraj;

Hradec Králové: Koalice CSSD, Zeleni; Koalice KDU-CSL, VPM; Koalice TOP 09, HDK, LES; Koalice ODS, STAN, VC;

Pardubice: ODS a TOP 09; KDU-ČSL a SNK ED; 3PK-Pro prosperujici Pard. kr. (ČSSD); Vysočina: ODS a Starostove pro obcany; Starostove pro Vysocinu;

Olomouc: KDU-ČSL, TOP09, Zelení; Piráti a STAN; ČSSD a Patrioti;

Moravia-Silesia: Koalice ODS a TOP 09; Koalice STAN, Zeleni, NEZ. Results are available at: https://volby.cz/pls/kz2020/kz?xjazyk=EN (Czech Statistical Office)

***Full composition of party coalitions from Table 2***

Allies 1 (Spojenci - TOP09, Hlas, Zelení), Together (TOP 09 a KDU-ČSL - Spol.pro JČ), J2012 (JIHOČEŠI 2012), ODS & TOP09 (Občanská demokratická strana s podporou TOP 09 a nezávislých starostů), Coalition 1 (STAN, Zelení, PRO PLZEŇ), MHHR (MÍSTNÍ HNUTÍ ZA HARM. ROZVOJ), VOK - Volba pro kraj s podporou hnutí Karlovaráci, SNK1 (SNK1 - Starostové našeho kraje), Allies 2 (Spojenci pro kraj), SLK (Starostové pro Liberecký kraj), ODS & STAN (Občanská demokratická strana + STAROSTOVÉ A NEZÁVISLÍ a VÝCHODOČEŠI), KDU-ČSL & Allies (Koalice KDU-ČSL, VPM, Nestran.), Coalition 2 (Koalice TOP 09, HDK, LES), 3PK (3PK - Pro prosperující Pardubický kraj), Coalition 3 (Koalice pro Pardubický kraj), ODS & Mayors (ODS a Starostové pro občany), Mayors (Starostové pro Vysočinu), Allies 3 (Spojenci pro Olomoucký kraj).

***Figure 1. ANO vote share in the 2020 regional elections***

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*Note: Map produced in Esri Arcgis. Quantities displayed by colors corresponding to quintiles.*

***Table 1. Descriptive statistics***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Obs | Mean | Std. Dev. | Min | Max |
| College degree (%) | 13,626 | 7.895 | 4.846 | 0 | 44.677 |
| Catholics (%) | 13,626 | 11.987 | 10.447 | 0 | 78.378 |
| Unemployed (%) | 13,626 | 4.964 | 2.248 | 0 | 32.857 |
| Self-employed (%) | 13,626 | 5.703 | 2.177 | 0 | 26.316 |
| Elderly (unemployed) (%) | 13,626 | 23.949 | 6.869 | 2.568 | 100.000 |
| Distraints (%) (municipality) | 13,641 | 9.078 | 5.610 | 0 | 69.512 |
| Number of inhabitants (log) | 13,626 | 3.469 | 1.000 | 0 | 5.579 |
| Change in Turnout | 13,629 | 2.902 | 5.907 | -41.244 | 33.846 |

***Table 2. Regression models of main parties’ vote share in regional elections 2020***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ANO** | **ČSSD** | **KSČM** | **SPD** | **Pirates** | **STAN** | **KDU-ČSL** | **ODS** | **TOP09** |
| College degree (%) | -0.258\* | -0.101\* | -0.071\* | -0.139\* | 0.150\* | -0.209\* | 0.092\* | 0.123\* | 0.151\* |
|  | (0.017) | (0.014) | (0.007) | (0.007) | (0.011) | (0.030) | (0.018) | (0.021) | (0.017) |
| Catholics (%) | -0.062\* | 0.026\* | -0.043\* | -0.021\* | -0.054\* | -0.323\* | 0.662\* | -0.180\* | -0.048\* |
|  | (0.007) | (0.006) | (0.003) | (0.003) | (0.005) | (0.012) | (0.007) | (0.009) | (0.008) |
| Unemployed (%) | 0.251\* | -0.131\* | 0.151\* | 0.369\* | 0.260\* | -0.667\* | 0.352\* | -0.522\* | -0.026 |
|  | (0.029) | (0.024) | (0.013) | (0.013) | (0.019) | (0.051) | (0.031) | (0.036) | (0.029) |
| Self-employed (%) | -1.126\* | -0.574\* | -0.365\* | -0.266\* | 0.226\* | 1.738\* | -0.186\* | 1.135\* | 0.239\* |
|  | (0.036) | (0.030) | (0.016) | (0.016) | (0.024) | (0.065) | (0.041) | (0.045) | (0.039) |
| Elderly (unemployed) (%) | 0.268\* | 0.061\* | 0.094\* | -0.030\* | -0.085\* | -0.046 | -0.099\* | -0.108\* | -0.052\* |
|  | (0.010) | (0.008) | (0.004) | (0.004) | (0.007) | (0.017) | (0.011) | (0.012) | (0.011) |
| Distraints (%) (municipality) | 0.155\* | -0.209\* | 0.040\* | 0.076\* | -0.245\* | 0.257\* | -0.150\* | 0.361\* | 0.225\* |
|  | (0.014) | (0.012) | (0.006) | (0.006) | (0.009) | (0.026) | (0.017) | (0.018) | (0.017) |
| Number of inhabitants (log) | 0.556\* | 0.209 | -0.431\* | 0.531\* | 0.528\* | -2.101\* | 1.176\* | -2.111\* | 0.715\* |
|  | (0.093) | (0.079) | (0.041) | (0.041) | (0.063) | (0.169) | (0.104) | (0.118) | (0.103) |
| (Constant) | 20.797\* | 11.048\* | 6.537\* | 5.568\* | 12.200\* | 14.894\* | -4.727\* | 11.251\* | 1.026 |
|  | (0.487) | (0.411) | (0.215) | (0.214) | (0.329) | (0.878) | (0.540) | (0.611) | (0.525) |
| R2 | 0.268 | 0.084 | 0.188 | 0.268 | 0.142 | 0.184 | 0.504 | 0.171 | 0.166 |
| Adj.R2 | 0.268 | 0.083 | 0.187 | 0.267 | 0.141 | 0.184 | 0.503 | 0.170 | 0.165 |
| Observations | 13626 | 13626 | 13626 | 13626 | 13626 | 11430 | 10523 | 13282 | 5863 |
| RMSE | 153.954 | 129.739 | 67.857 | 67.577 | 103.876 | 255.297 | 149.870 | 190.387 | 110.078 |
| Note: Standard errors in parentheses. \*p < 0.001. | | | | | | | | | |