Local Government Dataset*

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Abstract

This panel data set covers Norwegian local governments from 1972 to 2022 and was originally constructed for an analysis of the strategic use of public capital (Fiva and Natvik, 2013). The first version of the data set was released in 2012. Subsequent versions update the time series and introduce new variables. The current version of the data set includes detailed information on local government structure, demographics, elections, fiscal policies, central government grants and distributive politics. In this note we give a detailed description of each variable included in the data set.

When using the data, please cite as follows:

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1 Introduction

This panel data set was originally constructed for an analysis of the strategic use of public capital (Fiva and Natvik, 2013). It has later been applied in Fiva et al.'s (2021b) textbook *Kommunal Organisering*, and in studies of, for example, political behavior (Finseraas and Vernby, 2014; Ellingsen and Hernæs, 2018; Lind, 2019; Finseraas and Strøm, 2022; Nyhus and Strøm, 2023), the resource curse (Borge et al., 2015), electoral reform (Fiva and Folke, 2016), government outsourcing (Geys and Sørensen, 2016), public infrastructure maintenance (Hopland, 2016), bureaucratic pay (Geys et al., 2017; Fiva et al., 2021a), inter-municipal cooperation (Blåka, 2017; Blåka et al., 2023), political parties (Fiva et al., 2018; Finseraas, 2020; Lind, 2020), youth employment (Bensnes and Strøm, 2019), balanced budget requirements (Borge and Hopland, 2020), health care access and use (Godøy and Huitfeldt, 2020; Bannenberg et al., 2021; Widding-Havneraas et al., 2022), central government grants (Reiling et al., 2021), selection in surveys (Dutz et al., 2021), and political representation (Geys et al., 2022, 2023; Klausen et al., 2022).

Many of the variables included in the data set stem from $Kommunedatabasen (Sikt)^1$ and Statistikkbanken (SSB). Researchers working with Norwegian local governments are likely to find the following web pages useful:

Kommunedatabasen (Sikt): https://kommunedatabasen.sikt.no/

Statistikkbanken (SSB): https://www.ssb.no/statistikkbanken

2 Local Government Structure

Norway is a unitary state with three governmental tiers: the national government, the regional government (counties; *fylkeskommuner*), and the local governments (municipalities; *kommuner*). The numbers of municipalities and counties have remained relatively stable over our sample period, as illustrated in Figure 1. However, the local government

¹Previously Norwegian Center for Research Data (NSD).

reform, initiated in 2014, reduced the number of local governments from 428 to 356, from January 1, 2020. The number of regional governments was reduced from 18 to $10.^2$

During our sample period, some municipalities have merged with others or split up, or had their county merge, and the units have then received new official municipality identifying numbers.³ In addition, municipalities have sometimes given away some of their area to other municipalities (Eri, 2004). They then continue to exist with the same identifying number, but in practice their structure might have changed significantly.

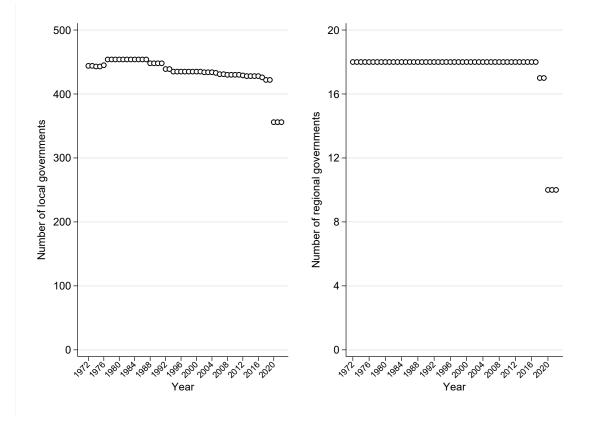


Figure 1: Number of local and regional governments over time

²The capital, Oslo, has no regional government. The local government is responsible for both local and regional public services.

³There are some exceptions: Narvik continued to have the same identifier (1805) after it merged with Ankenes in 1974 and Bodø kept the identifier 1804 after having merged with Skjerstad in 2005. In 2020, 1501 Trondheim kept its municipality number after merging with 5030 Klæbu and 1103 Stavanger kept its identifier after merging with 1141 Finnøy and 1142 Rennesøy. When municipalities Våle and Ramnes merged into Re municipality in 2002, the identifier 716 was transferred from Våle to the new municipality.

Variables

- year: Year identifier.
- knr: Municipality identifier. Analogous to European Statistical Office NUTS 5 level. These follow the municipality structure given for each year.
- knr2020: Municipality identifier as of 2020.
- kname: Municipality name: The name of the municipality in the given year.
- kname2020: Municipality name as of 2020.
- cnr: County identifier. Analogous to European Statistical Office NUTS 3 level.
- CountyAdm: A dummy equal to 1 if the county administration is located in the municipality.⁴
- region: A labor market region identifier corresponding to Statistics Norway's classification from 2000.⁵ The classification is based on information about commuting flows and analogous to European Statistical Office NUTS4 level.⁶
- region2020: A labor market region identifier corresponding to Statistics Norway's classification from 2020.⁷
- Latitude: The latitude of the municipality administration centre in 2014 (from Lind (2020)). This variable is missing for municipalities involved in mergers in the 1972-2019 period, and for all municipalities from 2020.
- Longitude: The longitude of the municipality administration centre in 2014 (from Lind (2020)). This variable is missing for municipalities involved in mergers in the 1972-2019 period, and for all municipalities from 2020.
- yelection: Years since last election. This variable takes the value 1 the first year after the local election (e.g. 1972), 2 the next year, 3 the third and 4 the fourth year.
- election period: Election period identifier. This variable takes the value 1 for the years 1972-1975, 2 for the years 1976-1979 and so forth.
- borderchange: A dummy variable which takes the value one if the municipality's

⁶We employ the same classification for the period 1972-2019. All municipality mergers and border changes during the period are within the labor market region borders, with the exception of \emptyset len kommune, which in 2002 changed county affiliation and therefore also labor market region affiliation (from 46 to 43). In 2006, \emptyset len merged with Vindafjord, another municipality in region 43.

⁷See https://www.ssb.no/klass/klassifikasjoner/108 for more information on the classification. The region identifiers can be downloaded by selecting "Correspondance tables".

⁴From 2020, two counties have their administration located in more than one municipality. The administration of Viken is located in Oslo, Drammen and Sarpsborg, and the administration of Trøndelag is located in Trondheim and Steinkjer.

⁵See http://www.ssb.no/emner/00/00/nos_c616/nos_c616.pdf for more information on the classification. The region identifiers can be downloaded by selecting "Correspondance tables" at http://www3.ssb.no/stabas/ItemsFrames.asp?ID=1367327&Language=en&VersionLevel= classversion&MenuChoice=Language.

borders change this year or the next year⁸ and the transferred area amounts to at least one percent of the area in the municipality which loses area. Otherwise, it is zero. Amalgamations are not included.

- Balanced1: A dummy variable which takes the value one if the municipality exists for the whole period 1972-1999 with the same municipality code, zero otherwise.
- Balanced2: A dummy variable which takes the value one if the municipality exists and has the same municipality code in the whole period 1972-1999 AND its borders also do not change (with more than one percent area given away) during this period. Otherwise, it is zero.
- Balanced3: A dummy variable which takes the value one if the municipality exists for the whole period 1990-2015 with the same municipality code, and zero otherwise.
- Balanced4: A dummy variable which takes the value one if the municipality exists and has the same municipality code in the whole period 1990-2015 AND its borders also do not change (with more than one percent area given away) during this period. Otherwise, it is zero.
- Balanced5: A dummy variable which takes the value one if the municipality exists and has the same municipality code in the whole period 1990-2019 AND its borders also do not change (with more than one percent area given away) during this period. Otherwise, it is zero.
- Balanced6: A dummy variable which takes the value one if the municipality exists and has the same municipality code in the whole period 1972-2019 AND its borders also do not change (with more than one percent area given away) during this period. Otherwise, it is zero.
- newknr: The new municipality identifier.⁹
- split: A dummy variable which takes the value one for the whole sample period if the municipality splits into two or more new municipalities.
- amalgamation: A dummy variable which takes the value one for the whole sample period if the municipality merge with other municipalities.

3 Demographics

Demographic variables for each year are those measured at January 1 for the years fol-

lowing and including 1988. For the years up until and including 1987, they are measured

 $^{^{8}}$ We set the dummy=1 for two and not just one year to avoid inconsistencies in the population variables, since these are calculated differently in the periods 1972-1987 and 1988-2008. (See 'Demographics'.) Before 1988, the effect of a border change will show one year later than it will from 1988 and after.

⁹If a municipality is merged or for other reasons get a new municipality identifying number, this variable takes on the value of the new identifier in the years before it is in effect. The variable is missing for the municipalities that have kept the same identifier for the entire sample period.

on December 31 the year before.¹⁰

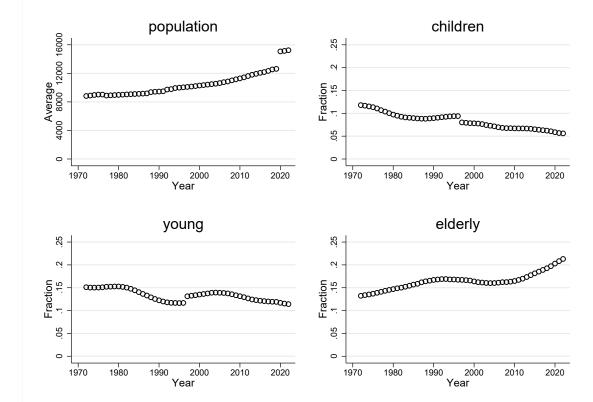


Figure 2: Average number of inhabitants, and the fraction of children, young, and old over time

Note: Children is the share of population at pre-school age. Young is the share of population at school age. Elderly is the share of the population aged 66 years and higher.

- pop: The total number of inhabitants in the municipality.¹¹
- age06: Share of population aged 0 to 6 years.
- age715: Share of population aged 7 to 15 years.
- age1620: Share of population aged 16 to 20 years.
- age2125: Share of population aged 21 to 25 years.
- age2630: Share of population aged 26 to 30 years.
- age3135: Share of population aged 31 to 35 years.
- age3640: Share of population aged 36 to 40 years.

¹⁰Data for one municipality (1201 Bergen) is missing for 1972.

 $^{^{11}}$ This variable is taken directly from official statistics. In a few cases total population differs slightly from the sum of all age groups in the official statistics.

- age4145: Share of population aged 41 to 45 years.
- age4650: Share of population aged 46 to 50 years.
- age5155: Share of population aged 51 to 55 years.
- age5660: Share of population aged 56 to 60 years.
- age6165: Share of population aged 61 to 65 years.
- age6670: Share of population aged 66 to 70 years.
- age7175: Share of population aged 71 to 75 years.
- age7680: Share of population aged 76 to 80 years.
- age81: Share of population aged 81 years and higher.
- children: Share of population at pre-school age: Share of population aged 0 to 6 years for the period 1972-1996. Share of population aged 0 to 5 years from 1997 and onwards.
- young: Share of population at school age: i.e. Share of population aged 7 to 15 years for the period 1972-1996. Share of population aged 6 to 15 years from 1997 and onwards.
- elderly: Share of population aged 66 years and higher.
- women: The female share of the municipality's population.
- unemployment: The number of registered unemployed persons (yearly average) as share of the total number of inhabitants aged 16-66 years at the beginning of the year.^{12 13}

4 Elections

The local councils are elected every fourth year in September (1971, 1975, ..., 2019) in an open list proportional representation election system where each municipality is one electoral district. The D'Hondt seat allocation formula was used for translating votes into seats up until the 1999 election. From the 2003 election and onwards the Modified

¹²NSD is the original source for the 1972-2017 period. NAV is the source for the 2018-2022 period. In 2018, there is a mechanical increase in the number of unemployed due to a change in the way unemployed persons are registered in NAV's statistics. See https://www.nav.no/no/nav-og-samfunn/statistikk/arbeidssokere-og-stillinger-statistikk/relatert-informasjon/om-statistikken-arbeidssokere/5.historikk-og-sammenlignbarhet-over-tid_kap for more information.

¹³For the period 2018-2022, original data is missing if there were three or less unemployed persons in a municipality in a given month. To calculate the yearly average, we set these missing monthly values to three, which implies that we may overestimate unemployment in some small municipalities. We have made 124 imputations in 30 municipalities in 2018, 111 imputations in 28 municipalities in 2019, 51 imputations in 13 municipalities in 2020, 94 imputations in 23 municipalities in 2021 and 171 imputations in 35 municipalities in 2022.

Sainte-Laguë (MSL) seat allocation formula has been used. Five and Folke (2016) analyze the consequences of this reform for various political outcomes.¹⁴

The local council elects the mayor and takes spending decisions for the four years following the election year. Our data is organized such that the political variables for years t, t+1, t+2 and t+3 take the values from the last local election at t-1 with the municipality structure at t.¹⁵

National elections are held in September every fourth year and two years after the last local elections (t + 1) (1973, 1977, ..., 2021). We use the election results from t + 1 and the municipality structure from t + 2 for the variables at t, t + 1, t + 2 and t + 3.¹⁶ Most of the available party lists that participate in municipal elections are also represented in the national political arena. There are also smaller political parties that obtain little nationwide support and party independent local lists. Finally, parties may form joint lists where the seats are allocated to the parties jointly.

All data is from Statistics Norway's (SSB) election statistics. Most of it is provided by NSD. In addition, we have used information from SSB's publications to get more detailed information on joint, local and other election lists.¹⁷ The main reason for doing this is that in NSD's statistics, joint party lists are reported for the two categories 'socialist' and 'non-socialist' for some local elections, while for others they are lumped together in one category 'joint lists between political parties'. We have re-coded these lists and mayors or deputy mayors associated with them. In addition, we have recoded some local and 'other' lists which we believe fall clearly into one of the categories left- and right-wing.

Voters can affect the election outcome both by voting for a party list, and by cast-

 $^{^{14}}$ A couple of small municipalities have used alternative electoral systems (see *flertallsvalg*, below). Also, direct election of the mayor has been used for some municipalities in 1999, 2003 and 2007.

¹⁵Hence, there will be missing values for local electoral variables at some years t + 1, t + 2 and/or t + 3 if the municipality did not exist (with the same identifier code) at t. After the counties Nord-Trøndelag and Sør-Trøndelag merged in 2018, municipalities received new identifier codes even though they did not take part in any municipality merger. For the non-merging municipalities of Trøndelag, we add local election data for 2018 and 2019 based on their 2016 identifier code.

¹⁶This causes missing values for national electoral variables at some years t, t + 1 and/or t + 3 if the municipality did not exist (with the same identifier code) at t + 2.

¹⁷For the elections 1975-1995 we have consulted the printed publication 'Kommunestyrevalget' (SSB, 1995). For the last four elections, the information is available online under http://www.ssb.no/english/subjects/00/01/valg_en/. For the 1971 election, this information is not available.

ing preferential votes for particular candidates (Andersen et al. (2014)). Personal votes (personstemmer) can be cast to candidates from any party lists. When ballots includes "side votes" to other parties, then a share of the vote is transferred accordingly. When a ballot is cast without any preferential votes being given to other parties, a party will get as many *list votes* (listestemmer) as there are seats up for election. If ballots includes "side votes" to other parties, then list votes are transferred accordingly.¹⁸ For elections held in the 1983 to 2011 period we calculate parties' voteshares based on their share of list votes.¹⁹ For elections held in the period 1971-1979 we have not collected list votes, but construct voteshares based on *party votes* (which do not take into account preferential voting across party lines). Fiva et al. (2018) compare fiscal policy outcomes when a party barely received or did not receive an extra seat. This regression discontinuity design requires information on the exact distribution of votes, which is captured by *list votes*.

Fiva et al. (2018) find a limited number of observations displaying inconsistencies between the distribution of votes and the distribution of seats. For example, *Sveio municipality* is listed in *Kommunedatabasen* with one seat for Høyre and two seats for Venstre in the 2007 election, but according to their share of votes (9.6% and 4.9%) it should be the other way around.²⁰ Fiva and Røhr (2018) recently collected data on all candidates participating in the local elections from 2003 to 2015.²¹ These data allow us to identify errors in *Kommunedatabasen* and to correct these. For example, Høyre did indeed win two seats and Venstre one seat in the 2007 election in *Sveio municipality*. In total, we correct about 60 municipality-year errors from the 2012 and 2015 versions of

¹⁸For example, if a voter choose party A's ballot, but add a name from party B, then party A gets 24 list votes and party B 1 list vote, if the size of the local council is 25.

¹⁹Note that up till the 1995 election official election statistics lumps together votes for parties belonging to the categories independent party list, "other" party list, and joint list. We therefore only have exact VoteShares for all parties for municipalities that had no more than a maximum of one independent party list, one "other" party list, or one joint list (about 90 percent fulfill this criteria). This is captured by the variable '*entydig*'.

 $^{^{20}}$ Fiva et al. (2018) exclude such observations from their analysis.

 $^{^{21}}$ Data from the 2003 and 2007 elections are primarily from Christensen et al. (2008), but Fiva and Røhr correct some errors and supplement missing observations through direct contact with municipalities. The 2011 data is collected directly from the municipalities, while the 2015 and 2019 data come from Statistics Norway.

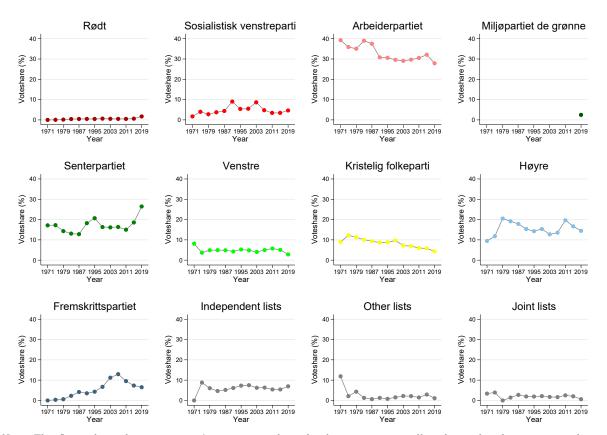


Figure 3: Parties' vote shares in local elections, by election year

Note: This figure shows the main parties' average vote shares by election year, as well as the combined average vote shares for independent lists, other small parties, and joint lists. 'Miljøpartiet de grønne' is included in the other category until the 2019 election.

- ElectionDate: Election date of the most recently held local election.
- ElectionDateNat: Election date of the most recently held national election.
- VoteShareRV: Share of votes for the Red Electoral Alliance (RV) in the last local election.²³
- VoteShareSV: Share of votes for the Socialist Left Party (SV)²⁴ in the last local election.

 $^{^{22}}$ There still is a handful of observations where we have been unable to identify the reason for the inconsistency in the data. Specifically, this applies to Aukra and Sør-Varanger for the 2003 election and Hobøl, Skedsmo, and Karlsøy for the 2007 election.

²³From the 2007 election and onwards, this variable measures support for the party with the name "The Red Party". This was formally a newly founded party, but its members were to a very large extent former members of the Red Electoral Alliance.

²⁴In the 1971 election the party did not exist, but many of its later supporters were organized in the Socialist People's Party (SF). We use the same variables for this party.

- VoteShareDNA: Share of votes for the Labor Party (DNA) in the last local election.
- VoteShareMDG: Share of votes for the Green Party (MDG) in the last local election.²⁵
- VoteShareV: Share of votes for the Liberal Party (V) in the last local election.
- VoteShareSP: Share of votes for the Centre Party (SP) in the last local election.
- VoteShareKRF: Share of votes for the Christian Democratic Party (KRF) in the last local election.
- VoteShareH: Share of votes for the Conservative Party (H) in the last local election.
- VoteShareFRP: Share of votes for the Progress Party (FRP)²⁶ in the last local election.
- VoteShareOther1 to VoteShareOther8: Shares of votes in the last local election for various minor political parties with little nationwide support.
- VoteShareIndep1 to VoteShareIndep6: Shares of votes in the last local election for various 'local or non-political lists'.
- VoteShareJointL: Share of votes for joint lists between left-wing parties (NKP²⁷, RV, SF/SV or DNA) in the last local election. This variable follows the classification made by Statistics Norway (SSB) for the elections in 1971, 1987 and 2003.
- VoteShareJointR: Share of votes for joint lists between right-wing parties (V, DNF/DLF²⁸, SP, KRF, H, FRP) in the last local election. This variable follows the classification made by Statistics Norway (SSB) for the elections in 1971, 1975, 1987 and 2003²⁹
- VoteShareLEFT: Joint share of votes received by RV, SV/SF, DNA, and joint lists of left-wing parties.
- VoteShareRIGHT Joint share of votes received by V, SP, KRF, H, FRP and joint lists of right-wing parties
- VoteShareOTHER Joint share of votes received by election lists not classified as left-wing or right-wing.
- entydig: A dummy which takes the value 1 if we have exact data on all VoteShares for all parties running in the municipal election, zero otherwise.
- SeatShare[Party name or election list category]: Share of seats won by the party or type of election list in the last local election.
- SeatShareLEFT: Joint share of seats won in the last local election by RV, SV/SF, DNA, and joint lists of left-wing parties.

²⁵Only available for the 2019 local election. In previous years, MDG is included in the residual 'Other' category, only.

²⁶The same variable is used for the 1971 and 1975 elections, when the party's name was Anders Lange's Party.

²⁷The Communist Party

 $^{^{28}\}mathrm{New}$ People's Party/the Liberal People's Party

²⁹The only exception is the 2003 election in Herøy municipality, where we have recoded 'the People's list' as belonging to the 'other' category because this list is not clearly right-wing.

- SeatShareRIGHT: Joint share of seats won in the last local election by V, SP, KRF, H, FRP and joint lists of right-wing parties.
- SeatShareOTHER: Joint share of seats won in the last local election by election lists not classified as left-wing or right-wing.
- SizeOfCouncil: The total number of seats in the municipality council.
- Mayor (and dMayor): Party identity of mayor (deputy mayor) based on NSD's classification with some alterations:
 - -1 if the (deputy) mayor represents The Socialist Left Party (SV)
 - -2 if the (deputy) mayor represents the Red Electoral Alliance (RV)
 - -11 if the (deputy) mayor represents The Norwegian Labor Party (DNA)
 - -21 if the (deputy) mayor represents the Liberal Party (V)
 - 25 if the (deputy) mayor represents the New People's Party/the Liberal People's Party (DNF/DLF)
 - -31 if the (deputy) mayor represents the Centre Party (Sp)
 - 41 if the (deputy) mayor represents the Christian Democratic Party (KRF)
 - -51 if the (deputy) mayor represents the Conservative Party (H)
 - -55 if the mayor represents the Progress Pary (FRP)
 - 61 if the (deputy) mayor represents a joint list, local or 'other' election list which we have classified as right-wing
 - 71 if the (deputy) may or represents a joint list, local or 'other' election list which we have classified as left-wing
 - 81 if the (deputy) mayor represents a joint list or some other list which has which we have been unable to classify as left-wing or right-wing.
- MayorLEFT (dMayorLEFT): A dummy variable taking the value one if the (deputy) mayor represents RV, SV, DNA or a local/other list classified as left-wing, zero otherwise.
- MayorRIGHT (dMayorRIGHT): A dummy variable taking the value one if the (deputy) mayor represents V, DNF/DLF, Sp, KRF, H, FRP, a joint list between right-wing parties or a local/other list classified as right wing, and zero otherwise.
- MayorOTHER (dMayorOTHER): A dummy variable taking the value one if the (deputy) mayor represents a joint, local or other list not classified as left-wing or right-wing, zero otherwise.
- MayorWoman: A dummy variable taking the value one if the mayor is a woman, zero otherwise.
- DirectMayor: A dummy variable taking the value one if the municipality holds direct elections for the mayor, zero otherwise.³⁰

 $^{^{30}}$ Five municipalities that held direct elections for mayor in 2003 (Bø, Gjemnes, Molde, Os, and Selje) secured the mayor's seat in the local council on a separate quota. In these cases only SizeOfCouncil-1 seats were allocated using the Modified Sainte-Laguë method (Buck et al., 2005, p. 60).

- FemaleCouncilMembers: Share of seats in the council held by female representatives.
- Gallagher: The Gallagher index is based on the vote-seat share deviation of all running parties (r). More formally, the index is defined as

$$Gallagher = \sqrt{\frac{1}{2\sum_{i=1}^{r} (VoteShare_i - SeatShare_i)^2}}$$

where $SeatShare_i$ ($VoteShare_i$) is the proportion of seats (votes) of the *i*-th party (Gallagher (1991)). The index can take values from 0 (complete proportionality) to 1 (complete disproportionality).

- NoP: Number of parties winning representation.
- ENoP: The effective number of parties (ENoP) is an index developed by Laakso and Taagepera (1979). The index accounts for both the number of parties represented (n) and their relative strengths and is given by

$$ENoP = \frac{1}{\sum_{i=1}^{n} SeatShare_{i}^{2}},$$

where $SeatShare_i$ is the proportion of seats of the *i*-th party.³¹

- Flertallsvalg: This dummy variable takes the value 1 if the municipality hold plurality elections where voters vote for candidates instead of party lists.³²
- ListVotes: Total number of list votes cast in the last local election.
- OrdinaryVotes: Number of ordinary party votes cast in the last local election (from Lind (2020)).
- EarlyVotes: Number of early party votes cast in the last local elections (from Lind (2020)).
- Turnout: Ratio of cast party votes to eligible voters in the last local election.
- Coalition: A dummy taking the value one if the mayor is from the left-wing bloc while the deputy mayor is not, or if the deputy mayor is from the left-wing bloc while the mayor is not.
- IncumbentSupport: Share of votes received by the bloc of the incumbent (the mayor's bloc) at the last local election. The right-wing parties/lists and the other parties and election lists not categorized as left-wing are here considered as one bloc.
- VoteNatRV: Share of votes for the Red Electoral Alliance (RV) in the national election.³³

³¹Before 1999 there may be some cases where more than one list are lumped together in the election statistics (cf. variable *entydig*). This will have some influence on NoP, ENoP and Gallagher.

 $^{^{32}}$ This only concerns 1252 Modalen (1972-1999), 1151 Utsira (1972-1975) and 1835 Træna (1972-1979). 33 In the 2009, 2013, 2017 and 2021 elections, this variable measures support for the "The Red Party".

- VoteNatSV: Share of votes for The Socialist Left Party (SV) in the national election.³⁴
- VoteNatDNA: Share of votes for the Norwegian Labor Party (DNA) in the national election.
- VoteNatMDG: Share of votes for the Green Party (MDG) in the national election.³⁵
- VoteNatV: Share of votes for the Liberal Party (V) in the national election.³⁶
- VoteNatSP: Share of votes for the Centre Party (SP) in the national election.
- VoteNatKRF: Share of votes for the Christian Democratic Party (KRF) in the national election.
- VoteNatH: Share of votes for the Conservative Party (H) in the national election.
- VoteNatFRP: Share of votes for the Progress Party (FRP) in the national election.³⁷
- VoteNatLEFT: Share of votes in the national election for RV, SV or DNA
- VoteNatRIGHT: Share of votes in the national election for V, SP, KRF, H, and FRP.
- VoteNatOTHER: Shares of votes in the national election for a number of different small parties or election lists not classified as left- or right-wing.
- TurnoutNational: Ratio of votes cast to eligible voters in the national election.
- ChSupport: The difference (in percentage points) in the share of votes received by the bloc of the mayor between the local and the following national election for the bloc of the mayor. The right-wing and other parties/lists are considered one bloc.

5 Fiscal Policy

The fiscal policy data stem from local governments' accounts and include data on both tax policy and spending for different programs (child care, education, elderly care, health and social, culture, transport, central administration, other). These variables are constructed from account data provided by the Norwegian Center for Research Data (NSD).

The account data for the 1972 to 2000-period allow us to distinguish between current expenditures, maintenance and investment. From 2001 and onwards, the organization of the account data was reformed which makes it hard to establish a consistent time series

 $^{^{34}}$ This variable name is also used for the 1973 election, when the Socialist People's Party (SF) ran together with NKP and other socialists in the Socialist Electoral League (also SV in short).

³⁵Only available for the 2017 and 2021 national elections. In previous years, MDG is included in the residual 'Other' category, only.

³⁶For the Liberal Party and other non-socialist parties, this also includes joint list votes which are 'split up' by Statistics Norway for the elections up until and including the 1981 election.

³⁷'Anders Lange's party' in 1973 and 1977.

separating current expenditures, maintenance and investment for the entire period.³⁸ For the entire period, 1972-2022, we therefore only report total spending on the various programs.³⁹

All variables are measured in constant NOK 1000 per capita (the variable KPI2011 is used as a deflator). Figure 4 shows spending by program over time (in percent).

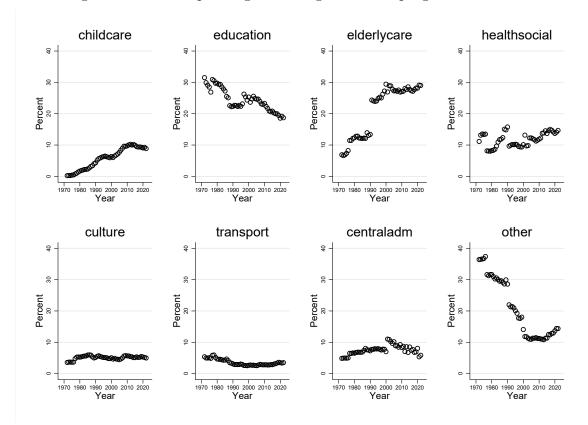


Figure 4: Percent spending on local government programs over time

5.1 Spending Policy 1972-2000

The account data is organized along two dimensions. The first dimension is the *type* of spending or revenue while the other is the *sector* in which the money is spent or earned.

In the account data from NSD, the types are identified by *items* (Norwegian: *poster*), while the sectors are identified by *'chapters'* (Norwegian: *kapitler*). We have added and

 $^{^{38}}$ There is also a change in the definitions from 1990/1991 which has made it necessary to reorganize the data somewhat compared to how it looks in NSD's database.

³⁹For Oslo there is a break in the time series between 2000 and 2001, likely due to re-organization of budgetary items due to Oslo's special status as municipality and county.

subtracted items and chapters to achieve the categories which we are interested in.

Current expenditures is 'overall operating expenditures' (item 000-399) minus 'maintenance of buildings and structures' (item 150) and internal transfers (item 390).⁴⁰ This is equivalent to the sum of expenditures on wages, equipment, other operating expenditures and external transfers to the social security system, central government, county administration, other municipalities and others. Spending on *maintenance* is item 150. Spending on *investment* is 'overall expenditures for new buildings and new structures' (item 400) in the period 1972-1990, and 'investment in fixed property overall' (item 40-48) in the period 1991-2000. *Sales* is 'income related to new buildings and structures' (item 800) in the first period. In the second period they equal the sum of items 80 and 88, which we have received from NSD on e-mail. These are not available online.

For the variables below, the first part of the variable name identifies the type of spending (or revenues) while the second identifies the sector of spending (or revenues).

Total spending is the sum of current expenditures, maintenance and (gross)investment.

- CurrExp_childcare: Current expenditures on childcare. This variable is constructed using current expenditures for the subchapter 'institutions for the protection of children and youth' (chapter 1.431) for the period 1972-1982, 'childcare' (chapter 1.435-1.439) for the period 1982-1990 and the sum of the subchapters 'municipal childcare' (chapter 1.270-278) and 'non-municipal childcare' (chapter 1.279) for the period 1991-2000.
- CurrExp_education: Current expenditures on education. This variable is constructed using the main chapter 'education overall' (1.2) for the period 1972-1990 and the same chapter but with childcare (as defined above) subtracted for the period 1991-2000.
- CurrExp_elderlycare: Current expenditures on care for the elderly and disabled. This variable is constructed by summing current expenditures for the subchapters 'elderly homes' (1.451), 'other help for the elderly' (1.459) and 'help arrangements for the homes' (1.46) for the period 1972-1982. For the period 1983-1987, we use 'home nursery' (1.316), 'elderly homes' (1.450-1.453), 'combined elderly and nursery homes' (1.454-1.457), 'elderly dwellings' (1.458-1.459) and 'home nursery'

⁴⁰For the period 1991-2000, the codes are different. Operating expenditures are denoted 'item 01-39', maintenance is denoted 'item 15-19' and internal transfers are denoted 'item 38-39'.

(1.461). For the period 1988-1990, we use 'home nursery' (1.340), 'combined elderly and nursery homes (1.343-1.344), 'other treatment and care' (1.345-1.349), 'elderly homes' (1.450-1.453), 'combined elderly and nursery homes' (1.454-1.457), 'elderly dwellings' (1.458-1.459) and 'home nursery' (1.461). For the period 1991-2000 we use the subchapter 'treatment of and care for the elderly and disabled' (1.370-389).

- CurrExp_healthsocial: Current expenditures on other health and social services. For the period 1972-1990 this variable is constructed by summing current expenditures for the main chapters 'overall health protection' (1.3) and 'overall social care and social transfers' (1.4) and subtracting childcare and care for the elderly and disabled (as defined above). For the period 1991-2000, it is equivalent to current expenditures for the main chapter 'overall health protection, social services, treatment and care' (1.3) minus care for the elderly and disabled as defined above.
- CurrExp_culture: Current expenditures on cultural services. For the period 1972-1990, this equals the sum of current expenditures for the main chapter 'overall church and cultural purposes' (1.5) and the subchapters 'parks, swimming pools and outdoor life' (1.66) and 'cinemas' (1.74). For the period 1991-2000, we use the main chapter 'overall cultural and church purposes' (1.5).
- CurrExp_transport: Current expenditures on transport and infrastructure. This variable is constructed using the sum of the subchapters 'roads and streets' (1.61.), 'car routes' (1.75), 'trams and suburban railroad' (1.76) and 'infrastructure' (1.85) for the period 1972-1990 and the main chapter 'infrastructure purposes overall ' (1.7) for the period 1991-2000.
- CurrExp_centraladm: Current expenditures on central administration. This variable is constructed using the main chapter 'central administration overall' (1.1) for the period 1972-1990 and 'central administrative bodies and overall common expenditures' (1.1) for the period 1991-2000.
- CurrExp_other: Current expenditures on other purposes. For the period 1972-1990, this includes the main chapters 'overall joint expenditures' (1.0) 'construction and residential purposes' (1.6) 'municipality enterprises' (1.7), 'various purposes' (1.8) and 'taxes, loans and allocations overall' (1.9) with the subchapters 1.61, 1.66, 1.74, 1.75, 1.76 and 1.85 subtracted. For the period 1991-2000, it includes 'expenditures to be distributed' (1.0), 'overall technical purposes' (1.4), 'overall residential purposes, project and commercial purposes' (1.6), 'overall taxes, earmarked contributions etc.' (1.8) and 'overall interests, repayment and use of net operating surplus etc.' (1.9).
- Maint_childcare: Spending on maintenance in the child care sector, as defined above.
- Maint_education: Spending on maintenance in the education sector, as defined above.
- Maint_elderlycare: Spending on maintenance related to care for the elderly and disabled, as defined above.
- Maint_healthsocial: Spending on maintenance related to other health and social services, as defined above.
- Maint_culture: Spending on maintenance in the cultural sector, as defined above.

- Maint_transport: Spending on maintenance related to transport and infrastructure, as defined above.
- Maint_centraladm: Spending on central maintenance related to central administration, as defined above.
- Maint_other: Spending on maintenance for other purposes. This is constructed in the same way as for current expenditures, except that the chapters 'taxes, loans and allocations overall' (1.9, 1972-1990) and 'interests, repayment and use of net operating surplus' (1.9, 1991-2000) do not exist for maintenance. Moreover, the chapter 'overall taxes, earmarked contributions etc.' (1.8) does not exist prior to 1994.
- Invest_childcare: Expenditures for investment in new structures in the child care sector, as defined above.
- Invest_education: Expenditures for investment in new structures in the education sector, as defined above.
- Invest_elderlycare: Expenditures for investment in new structures used in care for the elderly and disabled, as defined above.
- Invest_healthsocial: Expenditures for investment in new structures used in for health and social services, as defined above.
- Invest_culture: Expenditures for investment in new structures related to cultural services, as defined above.
- Invest_transport: Expenditures for investment in new structures related to transport and infrastructure, as defined above.
- Invest_centraladm: Expenditures for investment in new structures used in central administration, as defined above.
- Invest_other: Expenditures for investment in new structures for other purposes. For the period 1972-1990, this includes the main chapters 'overall joint expenditures' (1.0) 'construction and residential purposes' (1.6) 'municipality enterprises' (1.7) and 'various purposes' (1.8) with the chapters 1.61, 1.66, 1.74, 1.75, 1.76 and 1.85 subtracted. For the period 1991-2000, it includes 'overall technical purposes' (1.4) and 'overall residential purposes, project and commercial purposes' (1.6).
- Sales_childcare: Income from sale of fixed property in the child care sector, as defined above.
- Sales_education: Income from sale of fixed property in the education sector, as defined above.
- Sales_elderlycare: Income from sale of fixed property related to care for the elderly and disabled, as defined above.
- Sales_healthsocial: Income from sale of fixed property related to other health and social services, as defined above.
- Sales_culture: Income from sale of fixed property in the cultural sector, as defined above.

- Sales_transport: Income from sale of fixed property related to transport and infrastructure, as defined above.
- Sales_centraladm: Income from sale of fixed property related to central administration, as defined above.
- Sales_other: Income from sale of fixed property related to 'other purposes', defined in the same way as for investment.

5.2 Spending Policy 2001-2022

Total spending is the sum of (gross) current expenditures and (gross) investment for the various spending programs. The 2001-2015 data is from *Kommundatabasen* (NSD). The 2016-2022 data is from *Statistikkbanken* (SSB).

- KPI2011: consumer price index deflator (2011 = 1.00).⁴¹
- Total_childcare: Before 2001, the sum of CurrExp_childcare, Invest_childcare, Maint_childcare. After 2001, the sum of gross current expenditures (*Driftsregnskapet*) and gross investment (*Investeringsregnskapet*) for child care (*barnehager*).
- Total_education: Before 2001, the sum of CurrExp_education, Invest_education, Maint_education. After 2001, the sum of gross current expenditures (*Driftsregn-skapet*) and gross investment (*Investeringsregnskapet*) for education (*grunnskole*).
- Total_elderlycare: Before 2001, the sum of CurrExp_elderlycare, Invest_elderlycare, Maint_elderlycare. After 2001, the sum of gross current expenditures (*Driftsregnskapet*) and gross investment (*Investeringsregnskapet*) for elderly care (*pleie og omsorg*).
- Total_healthsocial: Before 2001, the sum of CurrExp_healthsocial, Invest_Healthsocial, Maint_healthsocial. After 2001, the sum of gross current expenditures (*Driftsregnskapet*) and gross investment (*Investeringsregnskapet*) for health, child protection, social assistance and housing (*kommunehelse, barnevern, sosialtjeneste, bolig*).
- Total_culture: Before 2001, the sum of CurrExp_culture, Invest_culture, Maint_culture. After 2001, the sum of gross current expenditures (*Driftsregnskapet*) and gross investment (*Investeringsregnskapet*) for culture and church (*kultur og kirke*).
- Total_transport: Before 2001, the sum of CurrExp_transport, Invest_transport, Maint_transport. After 2001, the sum of gross current expenditures (*Driftsregn-skapet*) and gross investment (*Investeringsregnskapet*) for roads (*samferdsel*).

⁴¹Collected from Statistics Norway: http://www.ssb.no/kpi/tab-01.html

- Total_centraladm: Before 2001, the sum of CurrExp_centraladm, Invest_centraladm, Maint_centraladm. After 2001, the sum of gross current expenditures (*Drift-sregnskapet*) and gross investment (*Investeringsregnskapet*) for central administration (*administrasjon, styring og fellesutgifter*).
- Total_other: Before 2001, the sum of CurrExp_other, Invest_other, Maint_other. After 2001, the sum of gross current expenditures (*Driftsregnskapet*) and gross investment (*Investeringsregnskapet*) for industry support, fire protection, planning and infrastructure (*næringsstøtte*, brann og ulykke, planlegging, kulturminne, vann, avløp og renovasjon).
- Total: The sum of Total_childcare, Total_elderlycare, Total_healthsocial, Total_culture, Total_transport, Total_centraladm, and Total_other.
- Share_'sector': Percent of Total spent on 'sector'.

5.3 Tax Policy 1984-2022

Municipalities are largely financed by regulated local tax sharing and grants from the central government. The major local tax choice concerns residential property taxation and user charges (Fiva et al. (2018)). We include information on fees for infrastructure services (sewage, water supply, and collection and management of garbage) which can be seen as implicit taxation.

We also include data on total revenues from property taxation, which is the sum of residential and commercial property taxation. Before 2007, the databases at Statistics Norway do not allow us to distinguish between these two type of property taxation. Commercial property taxation is predominantly taxes on hydro power production facilities (see Andersen et al. (2014)). Figure 5 shows that the use of property taxation has been increasing over time. At the end of the sample period, the vast majority of municipalities levy some form of property taxation.

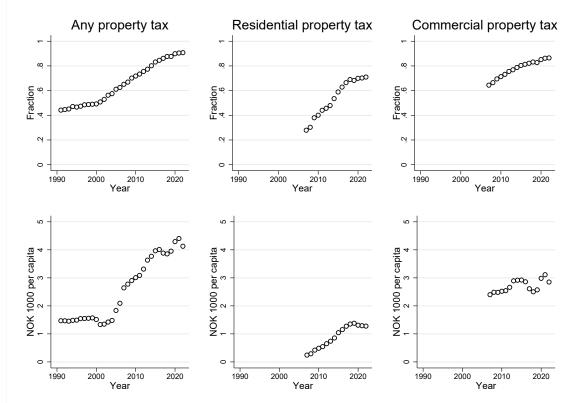


Figure 5: The use of property taxation over time

Note: The top panel displays the fraction of municipalities with property taxation by three categories: overall, residential, and commercial. The bottom panel displays the average property tax revenue by the same categories. The averages are computed across all municipalities.

Variables

- PerCapPTAX: Revenues from commercial and residential property taxation, NOK 1000 per capita (deflated by KPI2011). Available 1991-2022.⁴²
- dPTAX: Dummy variable equal to one if local government has any revenue from commercial and/or residential property taxation, zero otherwise. Available 1991-2022.
- PTAXrate: The property tax rate. This is restricted to the interval between 0.2 and 0.7 percent of the assessed property value. Available 2007-2022.
- PerCapPTAXcommercial: Revenues from commercial property taxation, NOK 1000 per capita (deflated by KPI2011). Available 2007-2022.
- PerCapPTAXresidential: Revenues from residential property taxation, NOK 1000 per capita (deflated by KPI2011). Available 2007-2022.
- PTAX120sqm: Residential property tax in NOK for 120 square meter house (deflated by KPI2011). Available 2007-2022.
- PerCapUserCharges: User charges for infrastructure services (sewage, water supply, and collection and management of garbage), NOK 1000 per capita (deflated by KPI2011). This variable is the gross income for infrastructure services (vann, kloakker (avløp og rensing), renovasjon) in Kommuneregnskapet (1984-1989) and Driftsregnskapet (1990-2015).

6 Grants and Distributive Politics

Grants from the central government make up a large part of the municipalities' income. The general grant is the main transfer from central to local government each year. It is distributed to all municipalities and can be used freely. In 2021, the general grant made up around 43.6% of the local government sector's discretionary budget. The grant consists of several smaller grants calculated based on set criteria or discretionary considerations. In the 2023 version of our data set, we include grants from the central government to the municipalities covering the period 1995-2022.

Resources are also transferred to municipalities through investments and earmarked funding. To investigate the effects of local representation on regional distributional poli-

⁴²Merged municipalities that have not established a common new property tax regime in 2020, or have not harmonized their tax rates, will lack data partially or entirely for the period 2020 - 2022. In 2019, there are expenses of 230 million NOK recorded for Oslo, related to the repayment of all property taxes for 2016, and 151 million NOK pertaining to the repayment of property taxes from residential properties for 2017.

tics, Fiva and Halse (2016) quantify resources spent locally by the regional government. In a related study, Fiva et al. (2020) study how local representation in parliament affect central-to-local redistribution and mentions in parliamentary debates. In the 2020 version of our dataset we included the outcome variables used in these studies.

6.1 Central government grants 1995-2022

The general grant ("rammetilskudd") is meant to contribute to equal services across municipalities, through compensating for their differing demography, geography and living conditions. It is also used for regional development. The grant comprises of several smaller grants calculated based on set criteria or discretionary assessments. We have collected the data from the annual general grant scheme annex to the government budget ("Grønt hefte").⁴³ There are several changes to the grant scheme over the 1995-2022 period. Our variables are constructed based on the names of the grants used in "Grønt hefte", i.e. if a grant changes its name considerably from one year to the next, these are kept as separate items. Figure 6 displays the fraction of municipalities that receive various grants over time.

The inhabitant grant compensates for municipalities' spending on welfare services, and is based on criteria like the number of children of schooling age, the number of elderly and travel distances. The municipalities also receive grants to compensate for challenges related to rurality or urbanicity, like the grant for Northern Norway and the metropolitan grant. The discretionary grants are used to compensate for municipalityspecific challenges not fully captured by the other grants. In addition, there are grants related to specific reforms like the schooling reform "Reform 97" and the 2020 municipal amalgamation reform.

There have been several restructurings of the grant scheme over the 1995-2022 period.

⁴³For access to "Grønt Hefte" and documentation in the period 2003-2022, see: https://www.regjeringen.no/no/tema/kommuner-og-regioner/kommuneokonomi/gronthefte/id547024/?expand=factbox2828037. Earlier versions can be requested from https: //depotbiblioteket.no/cgi-bin/m2?mode=p&tnr=347053.

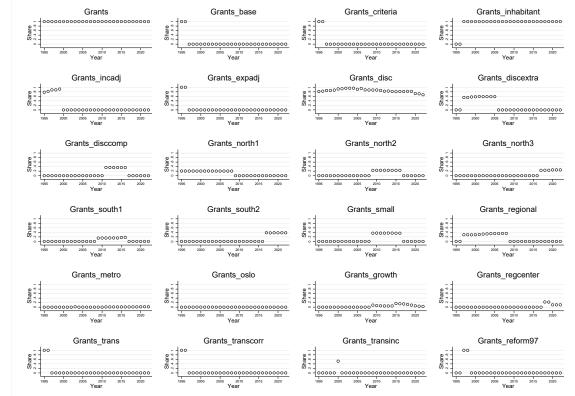


Figure 6: Share of municipalities with income in the relevant grant category over time

Note: Variable definitions follow below.

The first major changes happened in 1997, which focused the scheme on income and expenditure redistribution, and introduced the regional grants. Effective from 2009, the municipal corporation tax was abandoned and the income redistribution strengthened. Moreover, a growth grant and a rural grant for Southern Norway was introduced. In 2011, a metropolitan grant was introduced and the cost key for the inhabitant grant revised. The new scheme in 2017 incorporated the small municipality grant into the grant for Northern Norway and the grant for Southern Norway, among other things. Several grant items are intended to ease the transition to the new schemes. There are also changes to criteria of the different grants over the period.

All variables are measured in constant NOK 1000 (the variable KPI2011 is used as a deflator).

- Grants: The total general grant. Available 1995-2022.⁴⁴
- Grants_base: Base grant, 1995-1996.
- Grants_criteria: Grant after criteria, 1995-1996.
- Grants_inhabitant: Inhabitant grant, 1997-2022.
- Grants_expadj: Grant adjusting for the municipality's expenditures, 1995-1996. Similar to the inhabitant grant.
- Grants_incadj: Grant adjusting for the municipality's income. 1995-1999.
- Grants_disc: Ordinary discretionary grant, 1995-2022.⁴⁵
- Grants_discextra: Extraordinary discretionary grant, 1997-2005.
- Grants_disccomp: Discretarionary compensation for changes to the grant scheme, 2011-2016.
- Grants_north1: Grant for Northern Norway, 1995-2009.
- Grants_north2: Grant for Northern Norway and Namdal region, 2009-2016.
- Grants_north3: New grant for Northern Norway and Namdal region. The small municipality grant is integrated in the new grant. 2017-2022.
- Grants_south1: Grant for Southern Norway, 2009-2016.

 $^{^{44}}$ The total general grant for Bykle is zero in the period 1997-1999, because of their large income from taxation of hydropower production.

⁴⁵Measures the total ordinary discretionary grant, including for resource-intensive users in 2001-2003 and DAA compensation in 2004 and 2007.

- Grants_south2: New grant for Southern Norway. The small municipality grant is integrated in the new grant. 2017-2022.
- Grants_small: Small municipality grant. 2009-2016.
- Grants_regional: Regional grant, 1997-2008. Similar to the small municipality grant.
- Grants_metro: Metropolitan city grant, 2003 and 2011-2022.
- Grants_oslo: Grant for the national capital (Oslo), 1999-2003 and 2009.
- Grants_growth: Grant for municipalities with high population growth, 2009-2022.
- Grants_regcenter: Grant for mid-sized merging municipalities, 2018-2022. ⁴⁶
- Grants_trans: Transitional scheme grant, 1995-1996.
- Grants_transcorr: Correction for transitional scheme grant, 1995-1996.
- Grants_transinc: Transitional scheme for running income adjustments, 2000.
- Grants_reform97: Grant for Reform 97 (school reform), 1997-1998.
- CorpTax: Reimbursement of corporation tax, 2005-2008. Excluded from the Grants variable.
- CompMerge: Compensation for reduction in growth grant because of municipality merging, 2020. Excluded in the Grants variable.

6.2 Regional-to-local redistribution 1976-2011

To study regional-to-local distributive politics, Fiva and Halse (2016) use local government account data capturing regional (county) government *funding* of local public investments for the period 1976-2011. A local government is reimbursed whenever it invests in public goods that fall partly or fully within the regional government's remit.

Investment funding can be granted for various reasons, as explained by Fiva and Halse (2016). First, the regional governments may reserve funds for specific purposes which local governments may apply to get. Second, the regional governments sometimes delegate responsibility for a specific undertaking, like road maintenance, to the local government. Third, local governments may initiate projects which involves public buildings or infrastructure for which the regional government is responsible, and ask the regional governments to share the financial burden.

⁴⁶The grant is given to merging or merged municipalities which would have more than around 8000 inhabitants after merging and do not receive the metropolitan grant.

Variables

• RegFunding: Investment funding from the regional government, in NOK per capita.

6.3 Central-to-local redistribution 1972-2013

Fiva et al. (2020) rely on three different policy outcome variables to study central-to-local distributive politics. We include these measures in our data set.

The first outcome variable captures construction work on national roads, and is collected from the BRUTUS database of the National Public Roads Administration. Given the topology of Norway, with its many fjords and mountains, bridges are a major component of infrastructure investments. Public funding of investments in national roads is allocated in the national budget, which is approved by parliament at the end of each calendar year.⁴⁷

The second outcome variable captures the number of jobs connected to the central government located within a local municipality. In some cases, the location of a central government agency in a peripheral region is intended to ameliorate lower economic activity in the local private sector due to, for example, structural changes in specific industries.⁴⁸ Information on the localization of central government jobs is attached to the national budget documents, and is provided by NSD for the period 1974-2012.

The third outcome variable, per capita investment funding from the national government, is based on local government accounting sheets 1973-2013.

⁴⁷The time at which a road project is first proposed and discussed in parliament varies across projects. Since 1970, the government is required to prepare a long-term plan of road projects to be discussed in parliament. In 2002, this plan was replaced by a national transport plan covering all modes of transport. The national plan is not a binding legal document, but rather simply a document of policy intentions. Before receiving funding, a road project has typically been included at least once in the national plan. Parliament is involved earlier in the decision-making process in the case of public toll roads, which must be approved by a vote in parliament.

⁴⁸One example is the National Library of Norway, which established a division in the northern steel industry city of Mo i Rana in 1989 that today accounts for about half of the library's employees. Mo i Rana was home to the *Norsk Jernverk* public steel company until 1988, when it was divided and privatized. Another example is Statistics Norway, which employs over a third of its workers in the city of Kongsvinger, 93 kilometers away from the main office in Oslo. In 2015, Kongsvinger hosted 334 of 877 total employees of Statistics Norway.

Variables

- RoadConstr: New constructions (bridges) on national roads in the municipality, in 100 meters per capita. The variable is based on the 2014 municipality structure.
- NatRoads: Length of national road network in the municipality in 2002, in kilometers
- GovEmployees: National government employees in municipality
- NatFunding: Investment funding from the national government, in NOK per capita

6.4 Mentions in parliamentary debates 1999-2015

Fiva et al. (2020) analyze whether elected politicians talk about their hometowns in parliamentary debates. For this purpose they rely on the *The Talk of Norway* data set, which is a collection of parliamentary speeches covering the 1998 to 2016 period (N=250,373) (Lapponi et al., 2018). The parliamentary sessions start in October of each year. In the Local Government Dataset, the 1998-1999 session is matched to the year 1999, and so on.

- Mentions: Number of times the municipality is mentioned in parliamentary debates by a representative from any of the seven main parties.
- MentionsSV: Number of times the municipality is mentioned in parliamentary debates by a representative from the Socialist Left Party (SV).
- MentionsDNA: Number of times the municipality is mentioned in parliamentary debates by a representative from the Labor Party (DNA).
- MentionsV: Number of times the municipality is mentioned in parliamentary debates by a representative from the Liberal Party (V).
- MentionsSP: Number of times the municipality is mentioned in parliamentary debates by a representative from the Center Party (SP).
- MentionsKRF: Number of times the municipality is mentioned in parliamentary debates by a representative from the Christian Democratic Party (KRF).
- MentionsH: Number of times the municipality is mentioned in parliamentary debates by a representative from the Conservative Party (H).
- MentionsFRP: Number of times the municipality is mentioned in parliamentary debates by a representative from the Progress Party (FRP).

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