

Is small beautiful? Do small districts lead to better outcomes?

Jothsna Rajan

Indian Institute of Management, Bangalore, India

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Is there an optimal size for local government systems? In a bid to arrive at the optimal population size in a local government unit, local governments are reorganized - amalgamated or bifurcated. India has seen frequent administrative bifurcations at the local government level (district level). The number of districts in the country has increased from 356 in the 1971 census period to 640 in the 2011 census (Table. 2) This is a trend that is continuing in the present day. West Bengal has created five new districts since 2015. The rationale for creating of new districts was stated to be - “...for *better administrative control* and so that *public service can be delivered at the door steps* of the people staying at remote areas” (emphasis added) (Konar 2015). Similarly, Telangana state is contemplating the creation of 14 - 15 new districts (Balakrishna 2016) and Haryana state is considering 3 more districts (PTI 2016). In all these cases, the stated rationale for district bifurcation is decentralisation of administration and better public service. But does creation of new districts enhance public service outcomes?

Aristotle in his treatise ‘Politics’ argued that political entities needed to balance the twin considerations of economic viability and effective citizenship (Aristotle 1984). In modern democracies, debates on the topic are framed in a similar language with two sets of normative criteria. The first one is *output legitimacy*. The function of local governments is to provide a set of public goods and services to its citizens and promote public welfare. A government that fulfils this duty better has higher output legitimacy. The other normative concern is ‘citizen effectiveness’ or the capability and willingness of citizens to control the decisions made on their behalf (Dahl and Tufte 1973). Enhancing citizen effectiveness raises the *input legitimacy* of the system. Both output and input legitimacy are prerequisites to democratic legitimacy (Scharpf 1999). The fundamental assumption in these debates is that changing the size of political units is likely to affect the democratic quality (input legitimacy) and functional effectiveness (output legitimacy) of governments. What is the population level at which delivery of public services is optimized?

Recent debates on the topic attribute considerable virtues to small jurisdictions. In democratic societies, the economic and political arguments tend to converge.

Small jurisdictions are believed to enhance political participation, make politics less abstract, politicians more responsive, and facilitate exit-based empowerment of citizens (Blom-Hansen, Houlberg, and Serritzlew 2014). Decentralisation will also increase economic efficiency as the local governments have an information advantage and can respond better to variance in preferences at the local level (Oates 1972), and population mobility will lead to competition between local authorities and better provision of public goods. Decentralised service delivery especially when citizens directly elect the local governments is expected to provide better coverage, quality and efficiency (Smoke 2015). Competing local governments may experiment with various ways to provide public goods and lead to innovations that can be applied elsewhere. These considerations suggest that public goods that are (1) sensitive to local preferences and (2) do not have large spillover (3) nor scale effects: infrastructure, public education, etc. are better provided under decentralisation (Tiebout 1960, Oates 1972). Empirical evidence on the effect of size on local government performance is inconclusive (Holzer 2009). It is this economic argument that is considered further in this paper.

This argument requires further exploration because in India, decentralization at the local government level is a step that is frequently taken - often without the backup of empirical examination of its effectiveness. In the period since the 1950s, And India is not alone in the implementation of administrative bifurcations at the local government level. Brazil, in the period from 1990 to 2000, increased the number of municipalities from 4,491 to 5,560 (Tomio 2005). Russia adopted Local Government Reform in 2003 and since then has doubled the number of municipalities (Turgel 2008). At the same time, much of Europe has seen consolidation at the local government level (Mouritzen 2010, Bikker and Linde 2016). The United States has seen consolidation of education districts and a parallel creation of special purpose districts (Strang 1987, McCabe 2000)

There are those who argue that it does not. The critics of decentralisation argue that its effectiveness is often greatly hampered by the particular context of its implementation. Vito Tanzi offers an argument for corruption to be higher at local levels than at central government levels, because of closer interaction at the local level between the bureaucrats and citizens that can enable nepotism and personal favours (Tanzi 1996). Also, local bureaucracies may be poorly staffed and ill-equipped to handle the responsibilities associated with the decentralised provision of public goods (Prud'Homme 1995). The precise nature of decentralisation, such as the financial autonomy of the local government may also play a role in determining whether the benefits can be reaped. These factors caution against the implementation of decentralisation as a panacea for administrative ills. It also means that any instance of decentralisation can be explored further to understand the context of success or failure.

There is evidence from the decentralisation reforms in Bolivia and Columbia to suggest that decentralisation has enhanced the local allocative efficiency of public funds. Notably, it has resulted in shifting resources towards education in regions

where education performance has historically been worse. But data limitations prevent the authors from testing whether the improvement extends to education outcomes, such as literacy and test scores (Faguet and Sanchez 2008). Also, there is evidence from California state, to suggest that students in smaller districts perform better than those in larger districts in standardised tests after controlling for a variety of other factors (Driscoll, Halcoussis, and Svorny 2003). The effect of each of these policies - bifurcation or consolidation or a combination of both - depends on the particular context and capabilities of the local administrative body.

This paper explores the impact of bifurcation of districts on the quality of public service delivery - specifically, the quality of public education. Public education is not seen as imposing strong externalities on neighbouring regions, nor does it have large scale effects. Therefore, under the classic explanation, a smaller district should be able to provide better service. At the same time, we might need to build administrative capacity when a larger district is split into two or more before any benefits can be reaped. Also, if the districts are too small in the first place, there might be some benefit in consolidating two or more districts and managing them together. I test my propositions using data collected on public education settings in the districts of Karnataka in India over a 9 year period from 2005 to 2013. In the last decade Karnataka state in the south of India carved out three new districts from three existing ones. A new district is created by reallocating some of the taluks (sub-districts) within a district to a new one. Two new districts were created from two existing ones in 2007, and a third new district was created from an existing one in 2010 taking the total in the state up to 30. Creation of a new district entail additional administrative costs as the new districts often need to create the administrative infrastructure. In this paper I estimate the effect of the bifurcation of the administrative district on the public spending and quality of educational service delivered in the district. The identification is complicated by the fact the districts that were not split may be different from those that were. The demand for creation a new district usually arises from within the district, and the political traction gained by the idea has a role to play in the eventual decision made by the state. The basic idea of the identification strategy is thus to determine whether the relative disadvantage in budget allocation and spending in the taluks of bifurcated districts and non bifurcated districts is declining over time.

References

- [1] Aristotle. *Politics*. Trans. by Benjamin Jowett. 1984.
- [2] V V Balakrishna. “New Districts to Precede New Constituencies”. In: *The New Indian Express* (May 7, 2016).
- [3] Jacob Bikker and Daan van der Linde. “Scale economies in local public administration”. In: *Local Government Studies* 42.3 (May 2016), pp. 441–463. ISSN: 0300-3930. DOI: 10.1080/03003930.2016.1146139.

- [4] Jens Blom-Hansen, Kurt Houlberg, and Søren Serritzlew. “Size, Democracy, and the Economic Costs of Running the Political System”. In: *American Journal of Political Science* 58.4 (2014), pp. 790–803. ISSN: 0092-5853.
- [5] Robert Alan Dahl and Edward R. Tufte. *Size and democracy*. Vol. 2. Stanford University Press, 1973.
- [6] Donna Driscoll, Dennis Halcoussis, and Shirley Svorny. “School district size and student performance”. In: *economics of education review* 22.2 (2003), pp. 193–201.
- [7] Jean-Paul Faguet and Fabio Sanchez. “Decentralization’s effects on educational outcomes in Bolivia and Colombia”. In: *World Development* 36.7 (2008), pp. 1294–1316.
- [8] Marc Holzer. *Literature review and analysis related to optimal municipal size and efficiency*. Rutgers–Newark, School of Public Affairs and Administration, 2009.
- [9] Debashis Konar. “West Bengal CM Mamata Banerjee creates five new districts”. In: *Times of India* (Dec. 18, 2015).
- [10] Barbara Coyle McCabe. “Special-district formation among the states”. In: *State & Local Government Review* (2000), pp. 121–131.
- [11] Poul Erik Mouritzen. “The Danish Revolution in Local Government: How and Why?” en. In: *Territorial Choice*. Ed. by Harald Baldersheim and Lawrence E. Rose. DOI: 10.1057/9780230289826_2. Palgrave Macmillan UK, 2010, pp. 21–41. ISBN: 978-1-349-31340-2 978-0-230-28982-6.
- [12] Wallace E. Oates. *Fiscal federalism*. Edward Elgar Publishing, 1972.
- [13] Remy Prud’Homme. “The dangers of decentralization”. In: *The world bank research observer* 10.2 (1995), pp. 201–220.
- [14] PTI. “Haryana mulls creation of three new districts”. In: *The Times of India* (Apr. 20, 2016).
- [15] Fritz W. Scharpf. *Governing in Europe: effective and democratic?* Oxford University Press, 1999.
- [16] Paul Smoke. “Rethinking decentralization: assessing challenges to a popular public sector reform”. In: *Public Administration and Development* 35.2 (2015), pp. 97–112.
- [17] David Strang. “The administrative transformation of American education: School district consolidation, 1938-1980”. In: *Administrative Science Quarterly* (1987), pp. 352–366.
- [18] Vito Tanzi. “Macroeconomic Aspects”. In: *Annual World Bank conference on development economics*. 1996, pp. 295–317.
- [19] Charles M. Tiebout. “Economies of Scale and Metropolitan Governments”. In: *The Review of Economics and Statistics* 42.4 (1960), pp. 442–444. ISSN: 0034-6535. DOI: 10.2307/1925694.

- [20] Fabricio Ricardo de Limas Tomio. “The creation of municipalities after the 1988 constitution”. In: *Revista Brasileira de Ciências Sociais* 1.5E (2005), pp. –.
- [21] Irina Turgel. “New Local Self-Government Reform in Russia: A Step to Decentralization or Consolidation of Vertical Authority?” In: *16th NISPAcee Annual Conference Public Policy and Administration: Challenges and Synergies*. 2008.

1 Appendix

Table 1: New Districts created in India - Statewise

States/UTs	1971-81	1981-91	1991-2001	2001-11
Andaman and Nicobar Islands	1	0	0	1
Andhra Pradesh	2	0	0	0
Arunachal Pradesh	4	2	2	3
Assam	0	13	0	4
Bihar	14	11	8	1
Chhattisgarh	0	0	9	2
Daman and Diu	0	2	0	0
Delhi	0	0	8	0
Goa	0	-1	0	0
Gujarat	0	0	6	1
Haryana	5	4	3	2
Himachal Pradesh	2	0	0	0
Jammu and Kashmir	4	0	0	8
Jharkhand	0	0	5	6
Karnataka	0	1	7	3
Kerala	2	2	0	0
Madhya Pradesh	2	0	7	5
Maharashtra	0	4	5	0
Manipur	1	2	1	0
Meghalaya	3	0	2	0
Mizoram	3	0	5	0
Nagaland	4	0	1	3
Odisha	0	0	17	0
Punjab	1	0	5	3
Rajasthan	0	1	5	1
Tamil Nadu	2	5	9	2
Tripura	0	0	1	0
Uttar Pradesh	2	7	16	1
Uttarakhand	0	0	4	0
West Bengal	0	1	1	1
Overall	52	54	127	47

Table 2: No# of Districts in India - Statewise

States/UTs	1971	1981	1991	2001	2011
Andaman & Nicobar Islands	1	2	2	2	3
Andhra Pradesh	21	23	23	23	23
Arunachal Pradesh	5	9	11	13	16
Assam	10	10	23	23	27
Bihar	17	31	42	37	38
Chandigarh	1	1	1	1	1
Chhattisgarh				16	18
Dadra & Nagar Haveli	1	1	1	1	1
Daman & Diu			2	2	2
Delhi	1	1	1	9	9
Goa	3	3	2	2	2
Gujarat	19	19	19	25	26
Haryana	7	12	16	19	21
Himachal Pradesh	10	12	12	12	12
Jammu & Kashmir	10	14	14	14	22
Jharkhand				18	24
Karnataka	19	19	20	27	30
Kerala	10	12	14	14	14
Lakshadweep	1	1	1	1	1
Madhya Pradesh	43	45	45	45	50
Maharashtra	26	26	30	35	35
Manipur	5	6	8	9	9
Meghalaya	2	5	5	7	7
Mizoram		3	3	8	8
Nagaland	3	7	7	8	11
Orissa	13	13	13	30	30
Pondicherry	4	4	4	4	4
Punjab	11	12	12	17	20
Rajasthan	26	26	27	32	33
Sikkim	4	4	4	4	4
Tamil Nadu	14	16	21	30	32
Tripura	3	3	3	4	4
Uttar Pradesh	54	56	63	70	71
Uttaranchal				13	13
West Bengal	16	16	17	18	19
States	19	22	25	29	
Union Territories	10	9	7	6	
Districts	356	412	466	593	640