

# Unacknowledged Urbanisation

## New Census Towns of India

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The unexpected increase in the number of census towns in the last census has thrust them into the spotlight. The new CTs account for almost 30% of the urban growth in the last decade. The estimated contribution of migration is similar to that in previous intercensal periods. Further, the data indicates a dispersed pattern of in situ urbanisation, with the reluctance of state policy to recognise new statutory towns partly responsible for the growth of new CTs. A growing share of India's urban population, living in these CTs, is being governed under the rural administrative framework, despite very different demographic and economic characteristics, which may affect their future growth.

The release of urbanisation figures from the 2011 Census has evoked several reactions. For the first time the absolute growth in urban population (91 million) is more than its rural counterpart (Figure 1a, p 44) and slightly higher than expected (Kundu 2011; Bhagat 2011). The urban growth rate, which fell in the last two decades, also rose in this census. But the major surprise came with the number of census towns (CTs) rising from 1,362 to 3,894, while the number of statutory towns (STs) increased marginally from 3,799 to 4,041 (Figure 1b, p 44). Up to 2001, the focus on CTs was limited; as their share in the total urban population was low (7.4% in 2001) and their numbers were growing gradually. However, the sudden increase in the number of CTs has highlighted the need for more attention to this class of settlements. This paper uses a hitherto unexploited data set to examine the nature of these new CTs, their size and contribution to population and their location in relationship to existing urban centres.

### Definition of Census Towns

Urban areas in India are of three broad types: STs, CTs and outgrowths (OGs). STs are administratively declared urban areas by a state law which includes all manner of urban local bodies (ULBs), such as municipalities, town panchayats, cantonment boards, etc. CTs are complete settlement units that are classified as urban areas by the Registrar General of India (RGI), as part of the census operations, if they cross the threshold on three specific urban characteristics, viz, size (population of at least 5,000), density (at least 400 persons per square kilometre) and non-farm nature of workforce (at least 75% of male workforce in non-farm sector). However, settlements declared as CTs continue to be administered as rural areas. OGs are viable units which emerge adjacent to, but outside the administrative limits of STs. These are, however, not complete settlement units, like an entire village.<sup>1</sup> Since the census schedules for urban and rural areas are different, settlements are identified as CTs before the start of the census operations. This has led some commentators to speculate that the urbanisation for 2011 may have been artificially inflated (Kundu 2011).

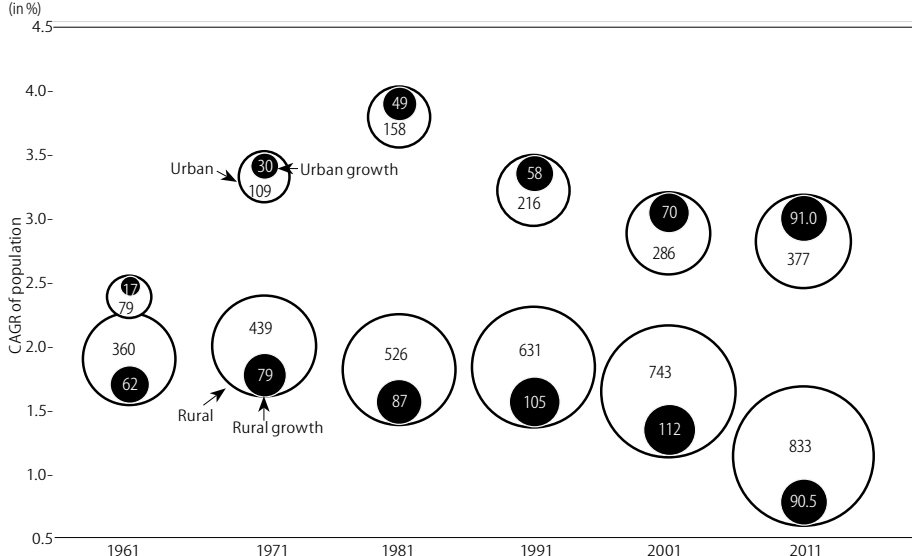
### Data and Methodology

The census provides a unique code for all settlements in India, with separate groups of code for the urban and rural sector, to facilitate a comparison between censuses. But for some settlement units, there is also a change in the sector between census periods, i.e., some rural units have become urban or vice versa.

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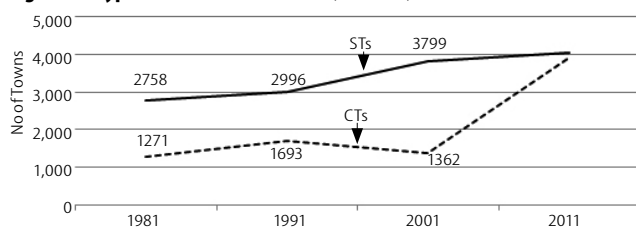
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**Figure 1a: Rural and Urban Population Growth (1961-2011)**



The outer bubble shows the total population (in million) and the inner bubble shows the increase of population (in million) with respect to the previous census. CAGR is the compound annual growth rate. Source: Census of India 2011.

**Figure 1b: Types of Urban Settlements (1981-2011)**



Source: Sivaramakrishnan, Kundu, Singh (2005) and Census of India 2011.

As these units move from one group to another, their census code changes from one group to another. A common classification across census periods for such units is needed to make them comparable across census periods. Such a classification is available at the e-Governance Standards portal,<sup>2</sup> part of the Government of India's National e-Governance Plan (NeGP), which provides lists of all settlement units in 2011 and their correspondence with the 2001 Census.

This list has been prepared by the Census of India. The portal provides state-wise lists of all settlement units for 2011, separately for rural and urban areas, and their corresponding 2001 Census code. This database could be considered as a rich source for comparative study between 2001 and 2011.<sup>3</sup> This analysis covers all the states of India, but it should be noted that Mizoram had no CT in either 2011 or 2001.

**Matching of Settlements**

The e-Governance data set facilitates matching of 2011 CTs with the corresponding 2001 settlement units. Of the 3,894 CTs, 48 could not be matched, of which 44 are in Tamil Nadu.<sup>4</sup> But there are other units which are also important for this study. Some units which were classified as CT in 2001 no longer exist in 2011 because either they have been de-notified to villages or reclassified as statutory towns or merged with other units. The first two types of issues (de-notification to villages and reclassification into STs) can be addressed with the e-Governance

data set, but it is not useful to match the CTs in 2001 that were merged into other units. For this, we use publicly available information. Even though the attempt was to use official sources like ULB websites, city development plans, state government notifications and other official documents, there are 35 such CTs for which news articles and other sources from internet were used, which could not be independently verified.<sup>5</sup>

**Origin of Census Towns**

The changes in the number of CTs between census periods can happen in many ways, e.g., an increase due to reclassification of villages and OGS, and, rarely, STs into CTs,<sup>6</sup>

**Table 1: Dynamics of Census Town between 2001 and 2011**

| Sl No | State                  | Total CT in 2001 | Change in 2001 CT      |                |           | New CT in 2011         |                          | Total CT in 2011 |       |
|-------|------------------------|------------------|------------------------|----------------|-----------|------------------------|--------------------------|------------------|-------|
|       |                        |                  | De-notified to Village | Merged with ST | Not Known | Other Urban Area to CT | From Village Known to CT |                  |       |
|       | All India              | 1,362            | 55                     | 144            | 11        | 141                    | 2,553                    | 48               | 3,894 |
| 1     | Andhra Pradesh         | 93               | 6                      | 18             |           | 22                     | 137                      |                  | 228   |
| 2     | Arunachal Pradesh      | 17               |                        | 17             |           |                        | 1                        |                  | 1     |
| 3     | Assam                  | 45               | 2                      | 3              |           | 6                      | 80                       |                  | 126   |
| 4     | Bihar                  | 5                |                        | 1              |           | 4                      | 52                       |                  | 60    |
| 5     | Chhattisgarh           | 22               | 2                      | 13             | 3         | 0                      | 10                       |                  | 14    |
| 6     | Goa                    | 30               |                        |                |           | 1                      | 25                       |                  | 56    |
| 7     | Gujarat                | 74               | 1                      | 24             |           | 21                     | 83                       |                  | 153   |
| 8     | Haryana                | 22               |                        | 4              | 2         | 8                      | 49                       | 1                | 74    |
| 9     | Himachal Pradesh       | 1                |                        | 1              |           |                        | 3                        |                  | 3     |
| 10    | Jammu and Kashmir      | 3                |                        |                |           | 6                      | 27                       |                  | 36    |
| 11    | Jharkhand              | 108              | 4                      | 23             |           |                        | 107                      |                  | 188   |
| 12    | Karnataka              | 44               |                        | 11             |           | 13                     | 81                       |                  | 127   |
| 13    | Kerala                 | 99               |                        |                |           | 16                     | 346                      |                  | 461   |
| 14    | Madhya Pradesh         | 55               | 3                      | 4              |           | 18                     | 46                       |                  | 112   |
| 15    | Maharashtra            | 127              | 11                     | 8              |           |                        | 171                      |                  | 279   |
| 16    | Manipur                | 5                |                        |                |           |                        | 18                       |                  | 23    |
| 17    | Meghalaya              | 6                |                        |                |           |                        | 6                        |                  | 12    |
| 18    | Nagaland               | 1                |                        | 1              |           |                        | 6                        | 1                | 7     |
| 19    | Odisha                 | 31               | 1                      |                |           |                        | 86                       |                  | 116   |
| 20    | Punjab                 | 18               | 3                      | 1              |           | 5                      | 55                       |                  | 74    |
| 21    | Rajasthan              | 38               | 3                      | 2              | 1         | 4                      | 76                       |                  | 112   |
| 22    | Sikkim                 | 1                |                        | 1              |           |                        | 1                        |                  | 1     |
| 23    | Tamil Nadu*            | 111              | 6                      |                |           |                        | 227                      | 44               | 376   |
| 24    | Tripura                | 10               | 1                      | 6              |           |                        | 23                       |                  | 26    |
| 25    | Uttarakhand            | 12               | 1                      |                |           | 2                      | 29                       |                  | 42    |
| 26    | Uttar Pradesh          | 66               | 4                      |                | 3         | 2                      | 204                      | 2                | 267   |
| 27    | West Bengal            | 252              | 4                      | 4              | 1         | 11                     | 526                      |                  | 780   |
| 28    | Andaman and Nicobar    | 2                |                        |                |           |                        | 2                        |                  | 4     |
| 29    | Chandigarh             | 0                |                        |                |           |                        | 5                        |                  | 5     |
| 30    | NCT of Delhi           | 59               | 3                      |                | 1         |                        | 55                       |                  | 110   |
| 31    | Dadra and Nagar Haveli | 2                |                        | 2              |           |                        | 5                        |                  | 5     |
| 32    | Daman and Diu          | 0                |                        |                |           |                        | 6                        |                  | 6     |
| 33    | Lakshadweep            | 3                |                        |                |           |                        | 3                        |                  | 6     |
| 34    | Puducherry             | 0                |                        |                |           | 2                      | 2                        |                  | 4     |

Mizoram had no CT in either 2011 or 2001. Source: Based on author's calculation.

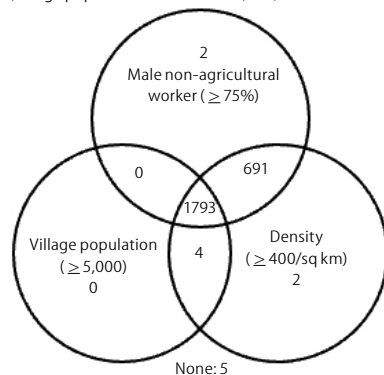
and a decrease due to de-notification of existing CTs to villages, reclassification or amalgamation of existing CTs into STs.

As can be seen from Table 1 (p 44), while the absolute increase of CTs between 2001 and 2011 for the country is 2,532, the number of settlements reclassified from village to CT (henceforth new CTs) is 2,553 and an additional 141 settlements have been reclassified from OG or ST to CT. Since 48 CTs could not be matched between 2001 and 2011, the actual number might be slightly higher. Concomitantly, 55 CTs have been de-notified to villages and 144 CTs have been recognised as STs or merged with other STs in this period. In terms of distribution of the new CTs across states, the state with maximum number of new CTs is West Bengal (526) followed by Kerala (346), Tamil Nadu (227) and Uttar Pradesh (204). Along with Andhra Pradesh and Maharashtra, these six states have more than 60% of the new CTs. Arunachal Pradesh and Chhattisgarh are the only states where the total number of CTs has reduced over this period. In Arunachal Pradesh, all 17 CTs of 2001 were converted into notified towns in 2011 and one new CT was created in this period. In Chhattisgarh, 13 out of 22 CTs in 2001 were merged into other STs even as 10 new CTs were added in this period. It appears from this analysis that most of the new CTs (more than 90%) were former villages, and further, very few of the CTs existing in 2001 (about 15%) were given statutory status whether by recognition or merging. If this trend continues, a progressively smaller share of urban settlements will be governed as urban areas.

### Characteristics of New Census Towns

As CTs are identified prior to the census operation, information from the last census is used to examine the process of identification. A priori, all the new CTs should be on the “threshold” of CT criterion, though such a threshold itself is somewhat subjective. Figures 2a and 2b show the number of the new CTs that

**Figure 2a: Characteristics of New CTs**  
(Village population threshold of 5,000)



The analysis is limited to 2,497 new CTs and excludes 37 new CTs as information on their area of settlement was unavailable. Another nine villages in 2001 became 19 CTs in 2011 by partition and all these nine villages satisfied the three conditions in 2001.

Source: Based on the Primary Census Abstract and Village Directory, Census of India 2001.

satisfied the three criteria, i.e., population, density and male non-agricultural workforce in 2001. Figure 2a shows that 1,793 settlements that have been declared as new CTs fulfilled all the three conditions in 2001, and indeed, were qualified to be CTs at that time itself. Similarly, another 691 new CTs fulfilled

the density and workforce conditions. In addition to this, there were another nine villages in 2001 which became 19 CTs in 2011 which qualified all the three conditions. Figure 2b relaxes the population threshold to 4,000, which is used by the RGI under the presumption that such a settlement is expected to have a population of 5,000 in 2011.<sup>7</sup> Figure 2b shows that, with this modification, almost all new CTs fulfilled all three conditions in 2001. This indicates that the settlements designated as CTs in the 2011 Census are very likely to satisfy the definition of a CT. If anything, the fact that 1,812 of them already met the criterion in 2001 and were not recognised indicates that there may be more such settlements in 2011. The concerns over inflated urbanisation therefore may not be warranted. Indeed, it would appear that in both years, the extent of urbanisation may be underestimated, e.g., including the population of the 1,812 settlements in 2001 would add 20.3 million people to the urban population in 2001 raising the urbanisation rate by 1.97% to 29.8%. It is therefore conceivable that such an adjustment, after the Census 2011 settlement-wise figures are available, could increase the urbanisation rate even further.

### Contribution of New CTs to Urban Growth

So, if India has added roughly twice the number of new CTs in the last decade than in its history, what is their contribution to the total urban growth in this period?

**Estimation of Population:** Since the detailed population figure for 2011 is not yet available, the population in 2001 is used to estimate the current population of a new CT. If one assumes zero population growth between 2001 and 2011 (unlikely for a large number of units in a country growing at 17.6% per decade), the 2001 population can be considered as a lower bound, though it is possible that some settlements may experience negative growth, as in some Class I cities in Kerala. An alternative “Base Estimate” is constructed by assuming that these settlements have grown at a rate similar to the total state population (both urban and rural) growth rate.

Table 2 (p 46), shows that 29.5% of the urban growth (26.8 million people) between 2001 and 2011 at the all-India level is due to reclassification of rural areas into CTs. If one assumes zero population growth of these new CTs in this period, this would be 26% (23.7 million people), the lower bound referred to above.<sup>8</sup> This share of growth attributable to reclassification varies widely between states. Among the major states (represented in descending order of this share in Figure 3, p 46), the share is the highest for Kerala (93%) followed by West Bengal (66%).

Thus, almost the entire jump in the share of urban population in Kerala, from 26% to 48%, and two-thirds of the increase in West Bengal, from 28% to 32%, can be attributed to reclassification. It is the lowest for Chhattisgarh (4%) and Madhya Pradesh (9%). Similarly, among the smaller states/union territories, it is 93% for Lakshadweep, 73% for Goa, 63%

**Table 2: Share of New CTs to Total Urban Population Growth between 2001 and 2011**

| Sl No | State                  | New CTs Reclassified from Villages |                      | Absolute Change in Urban Population 2001-11 (mn) | Share of New CTs (Low) | Share of New CTs (Base) |                            |
|-------|------------------------|------------------------------------|----------------------|--|------------------------|-------------------------|----------------------------|
|       |                        | Number                             | Population 2001 (mn) |  |                        |                         | Population 2011 (Est) (mn) |
|       | All India              | 2,553                              | 23.68                | 26.82  | 90.99                  | 26.0                    | 29.5                       |
| 1     | Kerala                 | 346                                | 6.80                 | 7.13   | 7.67                   | 88.8                    | 93.1                       |
| 2     | Lakshadweep            | 3                                  | 0.02                 | 0.02   | 0.02                   | 87.3                    | 92.8                       |
| 3     | Goa                    | 25                                 | 0.16                 | 0.17   | 0.24                   | 67.7                    | 73.3                       |
| 4     | West Bengal            | 526                                | 3.89                 | 4.43   | 6.71                   | 57.9                    | 66.0                       |
| 5     | Daman and Diu          | 6                                  | 0.05                 | 0.08   | 0.13                   | 40.9                    | 62.8                       |
| 6     | Tripura                | 23                                 | 0.22                 | 0.25   | 0.42                   | 52.7                    | 60.5                       |
| 7     | Andaman and Nicobar    | 2                                  | 0.01                 | 0.01   | 0.02                   | 55.2                    | 58.8                       |
| 8     | Manipur                | 18                                 | 0.12                 | 0.14   | 0.25                   | 48.7                    | 57.7                       |
| 9     | Assam                  | 80                                 | 0.46                 | 0.54   | 0.95                   | 48.5                    | 56.7                       |
| 10    | Dadra and Nagar Haveli | 5                                  | 0.03                 | 0.05   | 0.11                   | 30.3                    | 47.0                       |
| 11    | Jharkhand              | 107                                | 0.71                 | 0.86   | 1.94                   | 36.5                    | 44.7                       |
| 12    | Odisha                 | 86                                 | 0.50                 | 0.57   | 1.48                   | 33.6                    | 38.3                       |
| 13    | Meghalaya              | 6                                  | 0.04                 | 0.05   | 0.14                   | 25.2                    | 32.2                       |
| 14    | Andhra Pradesh         | 137                                | 1.75                 | 1.95   | 7.54                   | 23.2                    | 25.8                       |
| 15    | Tamil Nadu             | 227                                | 1.62                 | 1.87   | 7.47                   | 21.7                    | 25.1                       |
| 16    | NCT of Delhi           | 55                                 | 0.70                 | 0.84   | 3.43                   | 20.3                    | 24.6                       |
| 17    | Uttarakhand            | 29                                 | 0.19                 | 0.22   | 0.91                   | 20.5                    | 24.4                       |
| 18    | Jammu and Kashmir      | 27                                 | 0.17                 | 0.21   | 0.90                   | 19.0                    | 23.6                       |
| 19    | Himachal Pradesh       | 3                                  | 0.02                 | 0.02   | 0.09                   | 19.5                    | 22.0                       |
| 20    | Punjab                 | 55                                 | 0.39                 | 0.44   | 2.12                   | 18.2                    | 20.7                       |
| 21    | Rajasthan              | 76                                 | 0.64                 | 0.78   | 3.87                   | 16.6                    | 20.2                       |
| 22    | Nagaland               | 6                                  | 0.05                 | 0.05   | 0.23                   | 19.7                    | 19.6                       |
| 23    | Haryana                | 49                                 | 0.40                 | 0.48   | 2.71                   | 14.6                    | 17.6                       |
| 24    | Uttar Pradesh          | 204                                | 1.42                 | 1.70   | 9.93                   | 14.3                    | 17.2                       |
| 25    | Maharashtra            | 171                                | 1.37                 | 1.59   | 9.73                   | 14.1                    | 16.3                       |
| 26    | Chandigarh             | 5                                  | 0.03                 | 0.03   | 0.22                   | 13.5                    | 15.8                       |
| 27    | Bihar                  | 52                                 | 0.34                 | 0.42   | 3.05                   | 11.1                    | 13.9                       |
| 28    | Puducherry             | 2                                  | 0.02                 | 0.03   | 0.20                   | 10.9                    | 13.9                       |
| 29    | Gujarat                | 83                                 | 0.66                 | 0.78   | 6.78                   | 9.7                     | 11.5                       |
| 30    | Karnataka              | 81                                 | 0.56                 | 0.65   | 5.62                   | 10.0                    | 11.5                       |
| 31    | Madhya Pradesh         | 46                                 | 0.30                 | 0.36   | 4.09                   | 7.2                     | 8.7                        |
| 32    | Arunachal Pradesh      | 1                                  | 0.01                 | 0.01   | 0.09                   | 6.3                     | 8.0                        |
| 33    | Sikkim                 | 1                                  | 0.01                 | 0.01   | 0.09                   | 5.7                     | 6.4                        |
| 34    | Chhattisgarh           | 10                                 | 0.06                 | 0.07   | 1.75                   | 3.4                     | 4.2                        |

Est: Estimated population using the growth rate of total state population.

Source: Based on author's calculation.

for Daman and Diu and 61% in Tripura, while Sikkim (6%) and Arunachal Pradesh (8%) have the lowest share of increase due to reclassification.

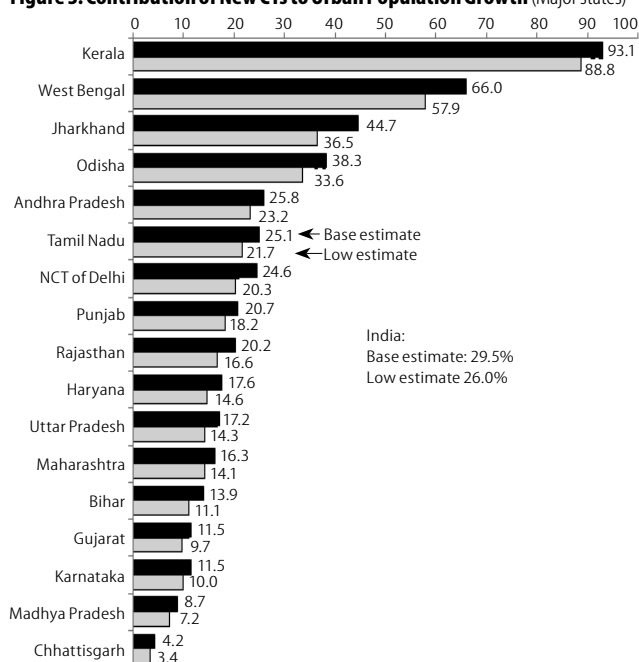
This implies a doubling in the share of CTs, assuming that the old CTs have grown at the same rate as overall urban population. While the share of CTs in the total urban population was 7.4% in 2001, the share of CTs in 2011 would be between 13.7% and 14.5% of the urban population. This is a form of in situ urbanisation (Zhu 2002) that is occurring without substantial migration between settlements and as such is contrary to the usual perception of the process of urbanisation.

### Estimate of the Contribution of Migration

The estimation of the contribution of CTs to urban population growth helps in estimating the contribution of migration to this growth. This is estimated as a residual, after removing the estimated contribution of natural growth, net reclassification

of rural settlements into CTs and STs and incorporation of rural settlements into existing STs by expansion of their boundaries. Bhagat (2011) estimates that 44% of the urban growth between 2001 and 2011, is natural growth, and the remaining 56% is due to net reclassification, expansion of boundaries and migration. As shown earlier, 29.5% of the growth is because of reclassification of rural settlements into CTs, implying the remaining 26.5% is attributable to net reclassification of rural settlements into STs, the incorporation of such settlements into existing STs by expansion of their boundaries and migration.<sup>9</sup> The net change in STs happens because of declassification of STs or merging of one or more STs into other STs (decrease) or reclassification of rural and other urban areas (CTs and OGS) into STs (increase). While merging of STs and reclassification of other urban areas to STs will have no impact on the total urban population, declassification of STs and reclassification of rural areas into STs will affect the urban population.

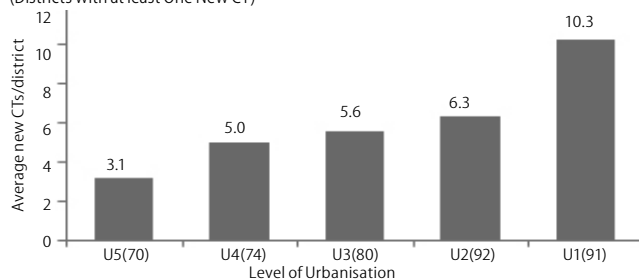
Estimating the extent of urban growth due to net change in STs is difficult till detailed information on their 2001 constituent units is released. A preliminary attempt to compare the 2011 STs with 2001 STs suggests that 98.5% of the STs in 2001 (3,741 out of 3,799) remain as ST in 2011. The remaining STs in 2001 have either been de-notified into rural areas or merged with other STs, with a major share of the population expected to be in the latter category since it is the smaller STs that are de-notified. Out of the 58 STs in 2001, which are not STs in 2011, the 35 STs that were merged with eight large ULBs account for 93% of total population.<sup>10</sup> This implies that conversion of urban area into rural area due to de-notification of ST would be very small. Similarly, there are 55 CTs of 2001 which became STs in 2011. Out of the 243 STs in 2011 which were rural areas in 2001, the 2001 population

**Figure 3: Contribution of New CTs to Urban Population Growth (Major states)**

This is limited to states with growth of at least one million in absolute urban population between 2001 and 2011. These 17 states together account for 94% of the total urban growth. "Low Estimate" assumes no growth in 2001 population and "Base Estimate" uses the growth rate of total state population to estimate population in 2011.

**Figure 4a: Urbanisation and Average Number of New CTs Per District**

(Districts with at least One New CT)



The first quintile (U1) represents the highest level of urbanisation and fifth quintile (U5) represents the lowest level of urbanisation. U5 (<8.7%), U4 (8.7-15.1%), U3 (15.1-21.8%), U2 (21.8-34.9%).

of 214 units, without accounting for other rural areas which could also have merged in these units, was 2.1 million or 2.3% of the total urban growth in the last decade.<sup>11</sup> A figure of 2.3% of urban growth due to reclassification of rural areas into STs would imply that the remaining 24.2% of the urban growth could be because of migration and expansion of boundaries.

Expansion of boundary, which is to a large extent limited to STs, is a process of urbanisation where smaller ULBs and villages come within the city limits over time. When expansion includes existing urban areas, it does not change the aggregate urban population, but if the expansion also includes villages, a phenomenon which can be seen for a number of cities in the last decade (e.g., 111 in Bruhat Bengaluru Mahanagara Palika (BBMP) in 2007, 23 in Pune Municipal Corporation, 53 in Vasai-Virar Municipal Corporation, etc), it reclassifies such rural areas into urban areas.<sup>12</sup> The magnitude of expansion of boundaries in India varies with time. It was 11.9% in 1971-81, 2.1% in 1981-91 and 9.9% in 1991-2001 (HPEC 2011). Even an assumption of 2% of urban growth due to expansion of boundaries, which is the lowest in last three decades, would imply that 22.2% of urban growth in the last decade is due to migration. This is similar to the contribution over 1971-81, 1981-91 and 1991-2001, of 19.9%, 22.6% and 21.1%, respectively (ibid), suggesting that the contribution of migration has not changed significantly.<sup>13</sup>

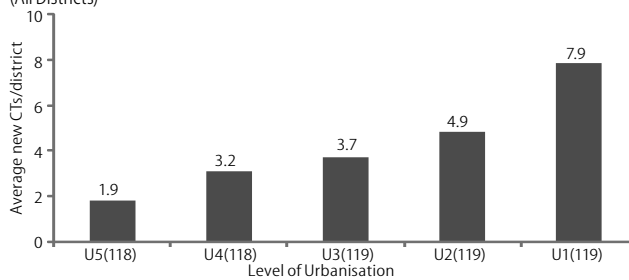
A comparison of the extent of migration with the share of new CTs to urban growth suggests that the extent of the latter (29.5% of urban growth) is larger than the extent of migration (22.2% of the urban growth). Since migration is a residual here, even the lower estimate of the new CTs (26% of urban growth) would imply the extent of migration (25.7% of urban growth) would be at best as large as the new CTs. So, it would be interesting to see whether this is the first time when the extent of urbanisation due to change in classification (in situ urbanisation) is more than the extent of urbanisation due to migration. Hence, this pattern hints towards a shift in the pattern of urbanisation in India with an increasing share of rural-administered urban areas in India.

### Location of New Census Towns

After the contribution of new CTs to urban growth and their interstate variations, another important question is about the location of these new CTs. This is examined in three ways. First, is the number of new CTs in a district associated with its district characteristics? Second, what is the proportion of new CTs that are located around existing cities? Finally, are new

**Figure 4b: Urbanisation and Average Number of New CTs Per District**

(All Districts)



CTs constituents of existing built-up agglomerations? For the last inquiry, a novel method of agglomerating built-up areas used by Denis and Marius-Gnanou (2011) is used.

### New CTs and District Characteristics

It can be expected that urbanisation of a district would have some positive bearing on the formation of new CTs. As a district becomes more urbanised, its employment pattern concentrates more on non-farm sectors and if this share for a particular village crosses the specified limit, it would meet one condition for becoming a CT.

Figures 4a and 4b show the average number of new CTs per district when all 2001 districts are divided into quintiles based on urbanisation rate, for those districts with at least one new CT (4a) and all 2001 districts (4b). This appears to indicate that the average number of new CTs increase with a move to a higher quintile, indicating some association of new CTs and urbanisation.

In order to further verify the above relationship, a simple multivariate regression analysis was conducted with the following form.

$$\begin{aligned} (\text{No of New CTs in 2011})_{ij} \\ = \text{Constant} + \alpha (\text{No of Existing CTs in 2001})_{ij} \\ + \beta (\text{Other District Characteristics})_{ij} + \gamma (\text{State Dummy})_j + e_{ij} \end{aligned}$$

for district  $i$  in state  $j$

The inclusion of the number of existing CTs as a determinant of the number of new CTs is similar to the specification in Bhoumik et al (2009) on the number of new firms in an area. It

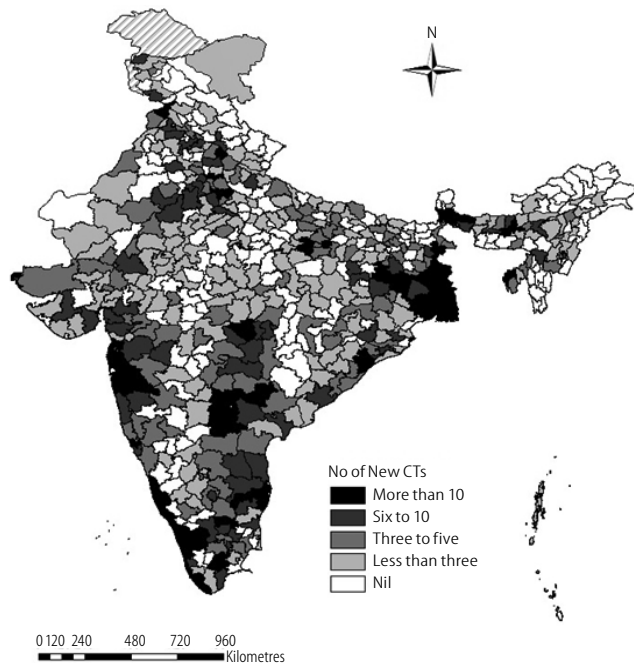
**Table 3: Relationship between New CTs and District Characteristics**

| Independent Variable                              | (I)     | (II)     | (III)     |
|---|---------|----------|-----------|
| No of existing CTs in 2001                        |         | 0.890*** | 0.700***  |
|   |         | (0.21)   | (0.18)    |
| Urbanisation rate in 2001                         | 0.084** | 0.007    | -0.109*** |
|   | (0.03)  | (0.02)   | (0.03)    |
| No of large villages in 2001 (population > 4,000) |         |          | 0.055***  |
|   |         |          | (0.02)    |
| Share of non-agricultural male workforce in 2001  |         |          | 0.149***  |
|   |         |          | (0.03)    |
| Metropolitan district (Yes = 1)                   |         |          | 4.299*    |
|   |         |          | (1.87)    |
| Constant  | -0.712  | 0.023    | -9.448*** |
|   | (1.40)  | (0.81)   | (2.02)    |
| N   | 593     | 593      | 593       |
| Adjusted R <sup>2</sup>                           | 0.39    | 0.57     | 0.66      |

\* p<0.05, \*\* p<0.01, \*\*\* p<0.001

The figure in the parentheses represents the robust standard error. The metropolitan districts include 45 districts in 2001 including 23 from seven metropolitan regions (Ahmedabad, Bangalore, Chennai, Hyderabad, Kolkata, Mumbai and Pune) and 22 from the NCR. All models are controlled for state effects.

Figure 5: District-wise Distribution of New CTs in India



For NCT of Delhi, the whole state is shown as one unit and the average number of new CTs per district is shown.

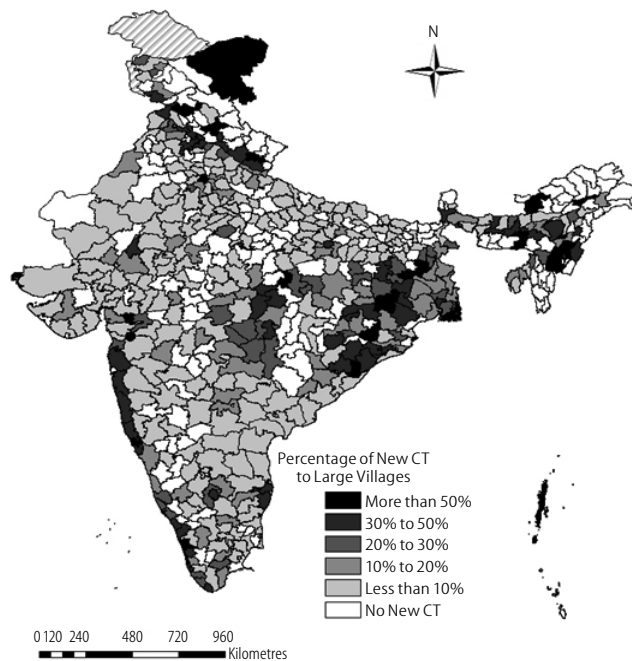
reflects the state's reluctance to recognise large villages with urban characteristics as statutory urban areas. In addition, the number of new CTs in a district is a function of other district characteristics such as its urbanisation rate, number of large villages (having a population greater than 4,000), the share of non-agricultural male workforce and whether or not the district is part of a major metropolitan region.<sup>14</sup> The state dummies control for other state-specific characteristics.

The results of OLS regression are reported in Table 3 (p 47). The statistical significance of district urbanisation rate in the first model does not survive controlling for existing CTs (see Model 11). The number of existing CTs is statistically significant and positively associated with the number of new CTs in a district. The third model shows the continued statistical significance of the number of existing CTs, the number of large villages, the share of non-agricultural male workforce and the major metropolitan district dummy variable. The positive coefficient on the number of existing CTs implicitly reflects the nature of state policy and the reluctance of the state to declare them as STUs. It is interesting that the urbanisation rate now has a negative and significant coefficient. This is consistent with a dual urbanisation process where the growth of CTs occurs both in the proximity of the major centres of urbanisation, as reflected in the major metropolitan district dummy variable, as well as in a more dispersed manner, as is shown later in the discussion on the proximity of the new CTs to existing large towns (see also Denis et al 2012).

#### New CTs in the Proximity of Large Towns

Following on from the previous analysis of the determinants of new CTs a number of questions arise about their spatial distribution. Do rural areas close to an existing city transform faster

Figure 6: Share of New CTs to Total Large Villages



For NCT of Delhi, the whole state is shown as one unit and the average of all districts is taken. Large villages are those with population more than 4,000 in 2001.

in terms of criteria for becoming a CT? Are these new CTs spread more or less evenly across space or are they concentrated near particular areas? In this regard, it is important to note that if one village is important for its surrounding villages for socio-economic reasons (for marketing their products, education, health, banking, etc) it can become a CT over time with the growth of its surrounding areas, without proximity to a city (Rondinelli 1983; Gupta 2010).

Figure 5 shows the number of new CTs in each district. A visual inspection of the map confirms the impression of the previous section that while a large number of new CTs are concentrated around major metropolises, many of them are also geographically dispersed.<sup>15</sup>

However, the share of new CTs to total number of large villages (more than 4,000 populations) has a somewhat different spatial picture from that of the number of new CTs (Figure 6). It shows a more limited effect of proximity to large cities, and the share is also high in some districts in north-east states and Odisha. This is possibly due to variations in the size structure of settlements by districts, e.g., the higher number of large villages for districts with more than 10 new CTs (an average of 11.8) and smaller number of large villages in districts with ratio of new CTs to large villages greater than 50% (an average of 10).

In order to address this phenomenon, more precisely, the number of new CTs that come within a certain radial distance (not road distance) of the larger cities is calculated. Some caveats are necessary. First, each city has a unique shape and a radius for one city may not be applicable to another city of the same size. Second, a single radius may not be appropriate for even the same class of cities, for example, in a hilly state vis-à-vis a plain state. Taking care of such issues requires detailed city-specific study, which is outside the scope of this paper. However, in

order to partially address these issues, buffers are differentiated by city size and a robustness check is carried out.

All towns with more than one lakh population, i.e., Class I towns, in 2011 are grouped into four classes on the basis of population, viz: 1-5 lakh, 5-10 lakh, 10-40 lakh and more than 40 lakh. A base radius of 10 km for 1-5 lakh towns, 15 km for 5-10 lakh towns, 20 km for 10-40 lakh towns and 25 km for more than 40 lakh towns was considered and then the number of new CTs under this area was estimated. If one CT comes under the radius of multiple cities, it is only counted once and attributed to the buffer of the city with largest population. For robustness, the above exercise was repeated by changing the

**Table 4: New CTs and Proximity to Large Towns**

| Sl No | State                  | Case-I (Base)<br>(% of Total<br>CTs in State) | Case-II (+25%)<br>(% of Total<br>CTs in State) | Case-III (-25%)<br>(% of Total<br>CTs in State) | CTs Under<br>Analysis<br>(No Pop in Million) |
|-------|------------------------|---|--|---|--|
| 1     | Andhra Pradesh         | 30.4 (24.3)                                   | 34.1 (25.8)                                    | 28.1 (21.4)                                     | 135 (1.72)                                   |
| 2     | Arunachal Pradesh      | 0 (0)   | 0 (0)  | 0 (0)   | 1 (0.01)                                     |
| 3     | Assam                  | 18.8 (18.4)                                   | 23.2 (23.2)                                    | 14.5 (14.3)                                     | 69 (0.39)                                    |
| 4     | Bihar                  | 36.5 (34.0)                                   | 42.3 (46.4)                                    | 32.7 (29.8)                                     | 52 (0.34)                                    |
| 5     | Chhattisgarh           | 30.0 (33.1)                                   | 30.0 (33.1)                                    | 20.0 (25.1)                                     | 10 (0.06)                                    |
| 6     | Goa                    | 0 (0)   | 0 (0)  | 0 (0)   | 25 (0.16)                                    |
| 7     | Gujarat                | 37.3 (33.9)                                   | 44.6 (43.2)                                    | 34.9 (30.4)                                     | 83 (0.64)                                    |
| 8     | Haryana                | 67.3 (66.7)                                   | 69.4 (68.3)                                    | 57.1 (54.7)                                     | 49 (0.40)                                    |
| 9     | Himachal Pradesh       | 0 (0)   | 0 (0)  | 0 (0)   | 3 (0.02)                                     |
| 10    | Jammu and Kashmir      | 46.2 (49.8)                                   | 50.0 (54.1)                                    | 26.9 (29.2)                                     | 26 (0.17)                                    |
| 11    | Jharkhand              | 32.7 (30.7)                                   | 40.2 (36.9)                                    | 27.1 (26.4)                                     | 107 (0.71)                                   |
| 12    | Karnataka              | 37.5 (35.7)                                   | 47.5 (43.5)                                    | 21.3 (18.2)                                     | 80 (0.56)                                    |
| 13    | Kerala                 | 14.1 (14.2)                                   | 22.4 (22.9)                                    | 7.9 (8.7)                                       | 340 (6.69)                                   |
| 14    | Madhya Pradesh         | 24.4 (24.3)                                   | 31.1 (32.2)                                    | 13.3 (15.7)                                     | 45 (0.29)                                    |
| 15    | Maharashtra            | 45.5 (42.5)                                   | 48.5 (45.5)                                    | 41.9 (38.5)                                     | 167 (1.35)                                   |
| 16    | Manipur                | 0 (0)   | 0 (0)  | 0 (0)   | 15 (0.10)                                    |
| 17    | Meghalaya              | 0 (0)   | 0 (0)  | 0 (0)   | 0 (0)  |
| 18    | Nagaland               | 50.0 (47.3)                                   | 50.0 (47.3)                                    | 50.0 (47.3)                                     | 6 (0.05)                                     |
| 19    | Odisha                 | 8.2 (9.7)                                     | 12.9 (13.1)                                    | 4.7 (5.4)                                       | 85 (0.49)                                    |
| 20    | Punjab                 | 43.6 (50.5)                                   | 56.4 (62.6)                                    | 36.4 (45.0)                                     | 55 (0.39)                                    |
| 21    | Rajasthan              | 18.4 (13.9)                                   | 21.1 (15.5)                                    | 14.5 (11.2)                                     | 76 (0.64)                                    |
| 22    | Sikkim                 | 0 (0)   | 0 (0)  | 0 (0)   | 1 (0.01)                                     |
| 23    | Tamil Nadu             | 44.9 (45.4)                                   | 53.7 (54.7)                                    | 38.0 (38.6)                                     | 216 (1.57)                                   |
| 24    | Tripura                | 28.6 (36.0)                                   | 38.1 (47.8)                                    | 19.0 (24.1)                                     | 21 (0.20)                                    |
| 25    | Uttarakhand            | 62.1 (60.9)                                   | 72.4 (69.8)                                    | 58.6 (58.2)                                     | 29 (0.19)                                    |
| 26    | Uttar Pradesh          | 63.2 (66.2)                                   | 68.6 (70.0)                                    | 53.9 (58.1)                                     | 204 (1.42)                                   |
| 27    | West Bengal            | 43.1 (45.0)                                   | 55.8 (57.2)                                    | 29.9 (32.5)                                     | 511 (3.76)                                   |
| 28    | Andaman and Nicobar    | 50.0 (61.0)                                   | 50.0 (61.0)                                    | 50.0 (61.0)                                     | 2 (0.01)                                     |
| 29    | Chandigarh             | 100 (100)                                     | 100 (100)                                      | 100 (100)                                       | 5 (0.03)                                     |
| 30    | NCT of Delhi           | 89.1 (95.0)                                   | 96.4 (98.4)                                    | 80.0 (90.8)                                     | 55 (0.70)                                    |
| 31    | Dadra and Nagar Haveli | 0 (0)   | 0 (0)  | 0 (0)   | 5 (0.03)                                     |
| 32    | Daman and Diu          | 0 (0)   | 0 (0)  | 0 (0)   | 6 (0.05)                                     |
| 33    | Lakshadweep            | 0 (0)   | 0 (0)  | 0 (0)   | 3 (0.02)                                     |
| 34    | Puducherry             | 50.0 (51.1)                                   | 100 (100)                                      | 50.0 (51.1)                                     | 2 (0.02)                                     |
|       | All India              | 37.2 (33.6)                                   | 44.8 (41.0)                                    | 29.5 (26.8)                                     | 2,489 (23.16)                                |

Case-I (Base): One to five lakh towns-10 km radius, five to 10 lakh towns-five km radius, 10 to 40 lakh towns-20 km radius, >40 lakh towns-25 km radius; Case-II (25% more): one to five lakh towns-12.5 km radius, five to 10 lakh towns-18.75 km radius, 10 to 40 lakh towns-25 km radius, >40 lakh towns- 31.25 km radius; Case-III (25% less): one to five lakh towns-7.5 km, five to 10 lakh towns-11.25 km, 10 to 40 lakh towns- 15 km, >40 lakh towns-18.75 km.

The first number in a cell shows the total number (or share) of new CTs and the figure in the parentheses shows the total (or share) of 2001 population. This analysis is based on 2,489 out of 2,553 new CTs for which it was possible to find the geo-reference. The 64 new CT, not included in the analysis, are distributed over the following states: two in Andhra Pradesh, 11 in Assam, one in Jammu and Kashmir, one in Karnataka, six in Kerala, one in Madhya Pradesh, three in Manipur, six in Meghalaya, four in Maharashtra, one in Odisha, 11 in Tamil Nadu, two in Tripura and 15 in West Bengal.

**Table 5: Proximity of New CTs by Size Class of Towns**

| Size Class of Towns (2011)            | Case-I (Base)<br>Number<br>(Population) | Case-II (+25%)<br>Number<br>(Population) | Case-III (-25%)<br>Number<br>(Population) |
|---------------------------------------|---|--|---|
| 100,000 to 500,000                    | 45.1% (42.3%)                           | 41.9% (41.1%)                            | 51.7% (49.4%)                             |
| 500,000 to 1,000,000                  | 14.8% (18.6%)                           | 14.9% (18.3%)                            | 14.7% (17.5%)                             |
| 1,000,000 to 4,000,000                | 18.4% (15.6%)                           | 17.1% (14.3%)                            | 19.5% (16.5%)                             |
| More than 4,000,000                   | 21.7% (23.4%)                           | 26.1% (26.3%)                            | 14.1% (16.7%)                             |
| Total in the Proximity of large towns | 926 (7.8mn)                             | 1115 (9.5mn)                             | 735 (6.2mn)                               |
| Not in the Proximity of large towns   | 1,563 (15.4mn)                          | 1,374 (13.7mn)                           | 1,754 (16.9mn)                            |

If a CT comes under multiple classes of city proximity, then it is considered under the proximity of larger city class.

radius of each class of cities by 25% to see how the result changes with the change in the radius.<sup>16</sup>

The result is reported in Table 4. The last (sixth) column shows the total state-wise number of new CTs studied under this exercise and the corresponding 2001 population (figure in parenthesis) of these new CTs. The third to fifth column shows the proportion of new CTs around large towns based on three combinations of distances and the corresponding 2001 population. For all the states together, 37% of the new CTs are within the buffer of large towns and it accounts for 34% of the total population of new CTs. Thus, about two-thirds of the population of the new CTs is outside the buffer area of the Class I towns. If the radius is increased by 25%, it goes up to 45% and 41% for the number of CTs and population, respectively. Similarly, a 25% reduction in distance would bring it down to 30% and 27%, respectively. However, there is a wide interstate variation of the share of new CTs in the proximity of large towns. The share for Kerala, which has the second largest number of new CTs in India, is very low compared to the national average. Similarly, Assam, Odisha, Madhya Pradesh and Rajasthan are other states in which the share of new CTs in the proximity of large towns is very low. On the other hand, states with a large share of new CTs in the proximity of large towns are Delhi, Haryana and Uttar Pradesh.

Table 5 shows the distribution of new CTs in the proximity of large towns by the size-class of towns. It indicates that, among the new CTs in the vicinity of Class I towns, 45% of the number of CTs and 42% of population are in the proximity of towns with population of 1-5 lakh. Similarly, another 15% of the number of CTs and 19% of population are in the proximity of towns with population of 5-10 lakh. This means that even among the new CTs in the vicinity of Class I towns, only 39% of their population is in the vicinity of million plus cities, i.e., only 13.1% of the population of the new CTs is in the vicinity of the million plus cities. It confirms the initial observation that while there are a large number of CTs in close proximity to Class I towns, many of them are not around the megacities and there are many more that are widely spread across the countryside. This appears to indicate that there may be multiple urbanisation processes at work.<sup>17</sup>

### New CTs and Built-up Agglomerations

Denis and Marius-Gnanou (2011) have recently constructed a new measure of agglomeration based on proximity of built-up area. According to their methodology, if the built-up area of one settlement, irrespective of the classification by the Census

**Table 6: New CTs by Size of Settlement Agglomerations (SA)**

| Size of New CT (2001) | Size of SA (2001) | Less than 10,000 | 10,000 to 30,000 | 30,000 to 50,000 | 50,000 to 100,000 | 100,000 to 200,000 | 200,000 to 500,000 | Greater than 500,000 | Total in SA | Not in SA |
|-----------------------|-------------------|------------------|------------------|------------------|-------------------|--------------------|--------------------|----------------------|-------------|-----------|
| Less than 5,000       |                   | 12               | 52               | 22               | 34                | 52                 | 41                 | 128                  | 341         | 376       |
| 5,000 to 10,000       |                   | 413              | 138              | 36               | 86                | 99                 | 67                 | 280                  | 1,119       | 35        |
| 10,000 to 20,000      |                   |                  | 158              | 23               | 30                | 23                 | 28                 | 189                  | 451         | 11        |
| 20,000 to 50,000      |                   |                  | 19               | 11               | 8                 | 3                  | 6                  | 162                  | 209         | 4         |
| More than 50,000      |                   |                  |                  |                  | 1                 |                    | 1                  | 5                    | 7           |           |
| Total (Per cent)      |                   | 425 (20.0)       | 367 (17.3)       | 92 (4.3)         | 159 (7.5)         | 177 (8.30)         | 143 (6.7)          | 764 (36)             | 2,127 (100) | 426       |

of India as rural or urban, is within 200 m of the built-up area of another settlement, both settlements are part of the same settlement agglomeration (SA). Using a threshold population of 10,000 for SA, they have estimated that the share of people who live in such SAs in India as 37.5% in 2001, versus the official urbanisation figure of 26.6% for urban population in settlements above 10,000 in population. Using their database for SAs with a population of 5,000 or more, Table 6 examines whether the new CTs form part of such SAs. It shows that a large number of new CTs in 2011 (83% of all CTs and 97% of CTs with a population above 5,000) were already part of a SA in 2001. Many of these CTs (884 or 42%) are in SAs with a population of 50,000 and less, indicating that they are not around large population centres. It also shows that many of these new CTs are not stand-alone settlements but part of a cluster of settlements which are relatively proximate to each other, even if they are relatively distant from Class I towns.

### Governance Implications

The CTs near and away from metropolitan areas have distinct sets of challenges for urban governance. Though population growth within the administrative limits of large metropolitan cities in the last decade has shown a downward trend, their peripheries have shown higher growth and some of this is due to the growth in CTs as well. The interaction between the core city and the peripheries is crucial for the growth and development of both types of entities. It is an open question as to whether the growth of such units happened because of the lack of land use planning and building restrictions; but it is difficult to dispute that these units are vital for the growth of the main cities and require proper governance arrangements. Expansion of municipal boundary is one of such process by which these units become part of the formal governance arrangement. At times such expansion may be resisted by such settlements.<sup>18</sup>

However, as seen above, not all CTs are near large towns. Depending upon the combinations of radii chosen, the number of new CTs in the proximity of large towns may vary, but it is clear from the above that a large share of the population of new CTs is not around the large towns. These CTs could have different characteristics than the CTs near large towns and the nature of interaction of these units with their surrounding areas (mainly villages) and within them may be very different from the latter. However, ignoring them from a governance point of view, as currently the case, is not a solution. Jairam Ramesh, the union minister of rural development, remarking on the growth of such CTs, said recently: "Our policies have been

either for rural or urban areas. We lack an approach to such *trishanku* (middle world) areas".<sup>19</sup> In this context, the centrally-sponsored scheme for the Provision of Urban Amenities in Rural Areas (PURA) is being restructured and is eventually intended to cover non-municipal block headquarters and rural areas with potential growth centres and 3,000 CTs.<sup>20</sup> PURA, however, focuses only on certain services; it is also important to think about proper governance systems in these areas.

Given current practice, where few CTs get statutory recognition, it is likely their governance arrangements would continue to be rural for some time to come. At times, this is a part of a deliberate strategy of the state government to access central government funds. On 11 June 2004, the Government of Tamil Nadu directed the "reclassification of 566 town panchayats as village panchayats". The government determined that since "most of the town panchayats are financially weak, and *rural in character* ...town panchayats having a population of less than 30,000 may be reclassified as village panchayats so as to enable them to receive more funds from the Government of India and State Government under various grants and assistance" (emphasis added).<sup>21</sup>

### Conclusions

The urban population growth of 91 million between 2001 and 2011 is for the first time higher than the absolute rural growth. Using a novel census data set, this paper finds that the 2,553 new CTs, which were rural areas in 2001, accounted for 29.5% of the urban growth in the last decade. From this, it can be calculated that the extent of the urban migration in the last decade is similar to the migration rate of the last three decades, i.e., 22.2% despite the growth in the rural-urban differential. Further it shows that, the extent of urbanisation due to reclassification is more than urbanisation through migration, which is unusual. Further, it finds that only 37.2% of these new CTs are in the proximity of Class I towns.

There is also large interstate variation in these findings. West Bengal has the maximum number of new CTs followed by Kerala, Tamil Nadu and Uttar Pradesh. While 93% of total urban growth in Kerala is due to new CTs, it is only 4% for Chhattisgarh. Similarly, proximity of new CTs near large towns is higher in Delhi, Haryana and Uttar Pradesh and lower in Assam, Odisha and Madhya Pradesh.

Since it is estimated that about a third of the population in these new CTs are in the proximity of Class I towns, it could be argued that they may come under the city jurisdiction through the process of future boundary expansion and would be governed by the formal urban system. However, there are a large number of the new CTs which are away from major urban centres and part of smaller SA and are governed under the rural administrative framework. Indeed, the empirical analysis seems to indicate that reluctance of state policy to recognise new CTs is partly responsible for the growth of new CTs. Since these units are different from other rural areas by their economic characteristics and have the potential for future growth, proper governance arrangements would be crucial.

Contemporary urban studies in India put a great deal of effort in understanding migration and migrants in one hand,



and larger urban areas on the other hand. However, the existence of a large number of rural settlements with urban characteristics is not seriously acknowledged and their economic importance is hardly understood. This paper tries to give

some basic picture about the new CTs in the last decade but there are many unexplored areas and unanswered questions in the field which will hopefully be addressed by future academic debate and research.

## NOTES

- 1 Apart from OGs, there are instances where a part of the village is considered as a unit to declare it as a CT. For example, Gunduupalavadi was a village in 2001 in Cuddalore district of Tamil Nadu. In the census of 2011 part of the settlement remains as village and other part has become a CT.
- 2 <http://governance.gov.in/location-code-directory>
- 3 There are some instances of wrong matching, for example, Barki Saraiya, a CT in 2011 in Giridih district of Jharkhand, has been matched with Sahibganj municipality of 2001. However, the urban directory shows that Sahibganj has been reclassified from municipality to nagar parishad and it is situated in a different district (Sahibganj district). Since there was only one settlement by the name of Barki Saraiya in the whole state and in one district in 2001 and in 2011 with a population of more than 15,000 population matching of Barki Saraiya CT from 2011 with Barki Saraiya village in 2001 seems more appropriate. This is only one of possible type of error in the database presented here, but there would be other issues like missing codes, where personal judgments are needed.
- 4 For nine other CTs, when the settlement in 2001 is divided into multiple CTs, the 2001 population is equally distributed among the new CTs. The data for Tamil Nadu, a state with a large number of new CTs is especially problematic. First, the 2001 code is missing for a large number of CTs. Second, there are instances where villages have been divided into multiple parts and a portion of them have been identified as urban and the other as rural, making it difficult to allocate the population in 2001 between rural and urban areas.
- 5 The 35 CTs are distributed in the following states, viz: Andhra Pradesh (3), Jammu and Kashmir (3), Gujarat (15), Haryana (2), national capital territory (NCT) of Delhi (1), Maharashtra (1), Punjab (1), Rajasthan (1), Sikkim (1), Tamil Nadu (3), Uttar Pradesh (1) and West Bengal (3).
- 6 Sadaura, in Yamunanagar district of Haryana is one such example. It was a municipal committee (MC) in the census of 2001 with 2,398 households. It was reportedly converted to a village panchayat in 2001 and back to an MC in 2006. In 2007, due to protests from residents, it was reverted back to a village panchayat. Since it possesses all the urban characteristics, it was classified as CT in 2011, with 3,075 households. See "Sadaura to Have Panchayat, Not MC: Poll Cancelled", *The Tribune*, 28 February 2007 (accessed at <http://www.tribuneindia.com/2007/20070301/haryana.htm#9> on 25 July 2012).
- 7 <http://censusindia.gov.in/2011-Circulars/Circulars/11-31-10-Circular-02.doc> (accessed on 10 January 2013).
- 8 Since the household data of all CTs for 2011 is now available, the 2011 population was estimated by applying the average district household size into these CTs. According to these estimates, these new CTs account for 32.6% of the total urban growth if either the total district or the rural district household size is used and 32.8% if the urban household size is used.

Further, it is important to note that since a large number of CTs in Tamil Nadu could not be matched and some of them are classified from villages to CT; the actual figure could even go up marginally.

- 9 Though 55 CTs in 2001 were de-notified to villages, relatively smaller size of these settlements would imply that its impact would be insignificant.
- 10 Out of the 35, one ST each has been merged with Visakhapatnam, Junagarh and Jamnagar, two with Vasai-Virar, four with Dhanbad, six with Bengaluru, nine with Hyderabad and 11 with Ahmedabad.
- 11 Since the 2001 population for 29 STs could not be estimated, because the corresponding settlement in 2001 could not be identified, the actual figure at 2011 population could be higher than this.
- 12 "Vasai-Virar Civic Body Not a Good Idea, Say Villagers", *The Indian Express*, 21 July 2009 (accessed at [www.indianexpress.com/news/vasai-virar-civic-body-not-a-good-idea-say-villagers/491940/on](http://www.indianexpress.com/news/vasai-virar-civic-body-not-a-good-idea-say-villagers/491940/on) 25 July 2012); "Draft Development Plan For The Newly Merged 23 Villages", Pune Municipal Corporation (accessed at [www.punecorporation.org/pmcwebn/dp23\\_vill.aspx](http://www.punecorporation.org/pmcwebn/dp23_vill.aspx) on 25 July 2012); "BBMP Jurisdiction is Vast But Resources Are Limited", *The Hindu*, 17 March 2012 (accessed at [www.hindu.com/2010/03/17/stories/2010031763290400.htm](http://www.hindu.com/2010/03/17/stories/2010031763290400.htm) on 25 July 2012).
- 13 Chandrasekhar (2011), on the basis of NSS data for 2009-10, estimates that 8.05 million rural non-agricultural workers commute to urban areas for their work. This is 9.1% of the total urban non-agricultural workforce. Though these people are an active part of the urban economy, the present system does not recognise them under urban areas.
- 14 The metropolitan districts include 45 districts in 2001 including 22 from the National Capital Region in and around Delhi and 23 from seven other major metropolitan regions, viz, Ahmedabad, Bangalore, Chennai, Hyderabad, Kolkata, Mumbai and Pune.
- 15 Few examples of such districts where the number of new CTs is more than 10 are north-west, south, south-west and Ghaziabad in NCR; Hugli, Haora, Nadia, North 24 Parganas and South 24 Parganas in Kolkata Metropolitan Region; Mahbubnagar, Medak and Rangareddy in Hyderabad Metropolitan Region; Raigarh and Thane in Mumbai Metropolitan Region; Kancheepuram and Thiruvallur in Chennai Metropolitan Region; Coimbatore district, Nagpur district, Pune district, etc.
- 16 The radius combination which is 25% more than the base radius is 12.5 km for 1-5 lakh towns, 18.75 km for 5-10 lakh towns, 25 km for 10-40 lakh towns and 31.25 km for more than 40 lakh towns. Similarly, the radius combination which is 25% less than the base radius is 7.5 km for 1-5 lakh towns, 11.25 km for 5-10 lakh towns, 15 km for 10-40 lakh towns and 18.75 km for more than 40 lakh towns.
- 17 Denis, Mukhopadhyay and Zerah (2012) also seem to suggest that multiple urbanisation processes may be at work in India, such as metropolitan agglomeration and what they term subaltern urbanisation.

18 See note 12.

19 "New Scheme to Uplift Semi-urban Settlements", *Hindustan Times*, 7 June 2012 accessed at <http://www.hindustantimes.com/India-news/NewDelhi/New-scheme-to-uplift-semi-urban-settlements/Article1-867589.aspx> on 25 July 2012.

20 The final Report of the Working Group on "Scheme for Provision of Urban Amenities in Rural Areas (PURA)", Ministry of Rural Development (accessed on 25 July 2012 at [http://planningcommission.nic.in/aboutus/committee/wrkgrp12/rd/wgrep\\_pura.pdf](http://planningcommission.nic.in/aboutus/committee/wrkgrp12/rd/wgrep_pura.pdf)).

21 Government of Tamil Nadu, GO No 270 dated 11 June 2004. Prior to this, "according to section 3-B of the Tamil Nadu District Municipalities Act, 1920, any local area having a population of not less than 5,000 and an annual income of not less than 1 lakh of rupees shall be constituted as a town panchayat", accessed on 25 July 2012 at <http://www.tn.gov.in/gorders/maws/maws-e-270-2004.htm> on 25 July 2012. This was subsequently overturned by the Government of Tamil Nadu, GO No 55 dated 14 July 2006 (accessed at [http://www.tn.gov.in/gorders/maws/maws\\_e\\_55\\_2006.htm](http://www.tn.gov.in/gorders/maws/maws_e_55_2006.htm)).

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