Online Appendix to "Better Alone? Evidence on the Costs of Intermunicipal Cooperation"

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A. Additional figures and tables



Figure A1: Impact on housing depending on the exact year of integration

Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression, using as outcome the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The first graph includes only treated municipalities that entered an IC in 2011 or 2012. The second (resp. third) graph includes only treated municipalities that entered an IC in 2013 (resp. 2014).

Figure A2: Impact on the probability to deliver at least one building permit



Notes: This graph plots the estimates and 95-percent-confidence intervals from the leads-and-lags regression, using as outcome an indicator variable equal to 1 if the municipality delivers at least one building permit.

Figure A3: Impact on housing for municipalities that voluntarily integrated between 2004 and 2010



Notes: The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The sample is made up of municipalities that voluntarily integrated between 2004 and 2010. The graph plots the estimates and 95-percent-confidence intervals from a regular staggered adoption design (method 1). The period of analysis goes from 1999 to 2018. More information in Section III.B.

Figure A4: Impact on housing: Urban area



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression, using as outcome the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The first graph includes only municipalities that are not part of an urban area. The second graph includes only municipalities that are part of an urban area. The third graph includes only municipalities that are part of an urban area. The third graph includes only municipalities in the core of the urban area (using a different scale given the magnitude of the results).



Figure A5: Impact on housing inside urban areas: Housing density

Notes: All graphs focus on municipalities inside an urban area. These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression, using as outcome the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The first (resp. second) graph includes only rural (resp. urban) municipalities. The third (resp. fourth) graph includes only municipalities with a housing density in 2010 below (resp. above) the median.



Figure A6: Impact on economic activity: Urban area

Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The two graphs focus on municipalities inside an urban area. On the left-hand graph, the outcome is the number of establishments created in a given year, per 10,000 inhabitants (using the 2010 population). The agricultural sector and establishments created by individual entrepreneurs are excluded. On the right-hand graph, the outcome is the yearly total wages received by residents, divided by the 2010 population. The total wage computation includes only full-time employed residents. It excludes self-employed workers as well as the agricultural and public sectors. It is missing for the 311 smallest municipalities (2 percent). On both graphs, the average value of the outcome in the treatment group before 2010 is displayed on the top left corner.

Figure A7: Impact on population size



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the number of household in the municipality on a given year, obtained from income tax declaration data. I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.8 percent of the sample). On the right-hand graph, the sample is restricted to municipalities part of an urban area. On both graphs, the average value of the outcome in the treatment group before 2010 is displayed on the top left corner.

Figure A8: Impact on public services: Full sample



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. In the left-hand graph, the outcome is the number of child daycare spots in the municipality per 10,000 inhabitants (using the 2010 population). In the right-hand graph, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population), and the sample is restricted to the 7 départements for which data are available starting in 2009.



Figure A9: Impact on the number of daycare facilities

Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the number of daycare facilities in the municipality per 10,000 inhabitants (using the 2010 population). The graph on the bottom left-hand side includes only rural municipalities, while the graph on the bottom right-hand side includes only urban municipalities.





Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The sample includes only rural municipalities. On the left-hand graph, the outcome is an indicator variable equal to 1 if the municipality has at least one daycare spot. On the right-hand graph, the outcome is an indicator variable equal to 1 if the municipality has at least one public library, and the sample is restricted to the 7 départements for which data are available starting in 2009.

Figure A11: Impact on public schools: Rural municipalities



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The sample includes only rural municipalities. On the left-hand graph, the outcome is the number of public preschools and primary schools in the municipality, per 10,000 inhabitants (using the 2010 population). On the right-hand graph, the outcome is the number of secondary schools, high schools, and universities in the municipality, per 10,000 inhabitants (using the 2010 population). It includes both fully public schools and private but publicly subsidized schools. On both graphs, the average value of the outcome in the treatment group before 2010 is displayed on the top left corner.

Figure A12: Comparison with municipalities that voluntarily integrated: Transport



Notes: The outcome is an indicator variable equal to 1 if the municipality has access to public transport. The sample includes only municipalities that voluntarily integrated between 2000 and 2010 and excludes municipalities in the Parisian region of Île-de-France, for which the data are not available. The left-hand graph plot the estimates and 95-percent-confidence intervals from a regular staggered adoption design (method 1). The right-hand graph uses de Chaisemartin and D'Haultfoeuille (2020)'s method, implemented using the Stata command did_multiplegt, available on SSC repository (method 2). In method 1, the period of analysis goes from 1999 to 2017, whereas, in method 2, it goes from 1999 to 2009. More information on the two methods in Section III.B.

Figure A13: Impact on municipalities' own local tax revenues



Notes: This graph plots the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the municipality's own local tax revenues per capita (using the 2010 population). I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.2 percent of the sample).





Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. On the left-hand (resp. right-hand) side graph, the outcome is the municipality's tax revenues (resp. state transfers) per capita (using the 2010 population). The outcome construction is described in Section III.B. I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample).



Figure A15: Comparison with municipalities that voluntarily integrated: Fiscal revenues

Notes: The sample is made up of municipalities that voluntarily integrated between 2000 and 2010. The outcome in panel A (resp. B, C) is the municipality's total fiscal revenue (resp. tax revenue, state transfers) per capita, as described in Section V.B. Data on fiscal revenues are only available starting in 2002. The analysis is thus restricted to municipalities integrating between 2003 and 2010. I exclude from the analysis a few municipalities for which the data are missing for at least one year over the period 2002–2018 (3.5 percent of the sample). Left-hand graphs plot the estimates and 95-percent-confidence intervals from a regular staggered adoption design (method 1). Right-hand graphs use de Chaisemartin and D'Haultfoeuille (2020)'s method (method 2). In method 1, the period of analysis goes from 2002 to 2018, whereas, in method 2, it goes from 2002 to 2009. The second method goes only back to year -4 for fiscal outcomes. To compute the impact in year -5, we would need to observe some municipalities both 4 years before and after treatment, which is not possible given the lack of data prior to 2002.

| | Treated | municip | alities (N | l=1,299) | Control municipalities (N=15,097) | | | | |
|----------------------|---------|-----------------------------------|------------|----------|-----------------------------------|--------|--------|---------|--|
| | mean | sd | min | max | mean | sd | min | max | |
| Panel A | Socio-d | Socio-demographic characteristics | | | | | | | |
| population | 1,640 | 4,692 | 16 | 72,939 | 1,959 | 11,686 | 7 | 851,420 | |
| w/out largest | 1,640 | 4,692 | 16 | 72,939 | 1,574 | 4,139 | 7 | 66,095 | |
| Δ population | 0.102 | 0.160 | -0.397 | 1.385 | 0.100 | 0.149 | -0.500 | 2.692 | |
| density | 162.1 | 541.6 | 2.11 | 6,884 | 156.3 | 450.1 | 0.60 | 9,976 | |
| urban | 0.204 | 0.403 | 0.000 | 1.000 | 0.223 | 0.416 | 0.000 | 1.000 | |
| urban area | 0.637 | 0.481 | 0.000 | 1.000 | 0.614 | 0.487 | 0.000 | 1.000 | |
| core urban area | 0.091 | 0.287 | 0.000 | 1.000 | 0.119 | 0.324 | 0.000 | 1.000 | |
| immigrants | 0.044 | 0.040 | 0.000 | 0.333 | 0.036 | 0.039 | 0.000 | 0.665 | |
| unemployed | 0.082 | 0.039 | 0.000 | 0.571 | 0.088 | 0.040 | 0.000 | 0.417 | |
| below 5 y/o | 0.060 | 0.020 | 0.000 | 0.172 | 0.062 | 0.020 | 0.000 | 0.206 | |
| above 65 y/o | 0.170 | 0.066 | 0.000 | 0.522 | 0.176 | 0.063 | 0.000 | 0.666 | |
| av. # children | 0.907 | 0.245 | 0.000 | 2.000 | 0.904 | 0.220 | 0.000 | 2.500 | |
| farmers | 0.036 | 0.053 | 0.000 | 0.444 | 0.038 | 0.050 | 0.000 | 0.600 | |
| executives | 0.070 | 0.065 | 0.000 | 0.429 | 0.052 | 0.043 | 0.000 | 0.563 | |
| workers | 0.152 | 0.080 | 0.000 | 1.000 | 0.169 | 0.069 | 0.000 | 0.667 | |
| retired | 0.280 | 0.101 | 0.000 | 0.800 | 0.286 | 0.095 | 0.000 | 1.000 | |
| no diploma | 0.172 | 0.069 | 0.000 | 0.463 | 0.185 | 0.067 | 0.000 | 0.614 | |
| baccalaureate | 0.156 | 0.039 | 0.000 | 0.324 | 0.153 | 0.036 | 0.000 | 0.557 | |
| high education | 0.088 | 0.071 | 0.000 | 0.507 | 0.072 | 0.045 | 0.000 | 0.542 | |
| residents' income | 14,064 | 4,362 | 5,495 | 59,093 | 12,488 | 2,863 | 3,273 | 65,758 | |
| Panel B | Land-us | e charad | cteristics | | | | | | |
| share built land (%) | 0.742 | 1.416 | 0.024 | 15.882 | 0.791 | 1.411 | 0.006 | 21.892 | |
| average height | 1.561 | 0.216 | 1.048 | 4.727 | 1.569 | 0.191 | 1.000 | 4.391 | |
| FAR (p30) | 0.110 | 0.076 | 0.001 | 0.901 | 0.109 | 0.080 | 0.001 | 0.895 | |
| FAR (p50) | 0.171 | 0.116 | 0.003 | 1.812 | 0.173 | 0.121 | 0.004 | 1.901 | |

Table A1: Descriptive statistics using the control group only – 2010 (Panels A and B)

Notes: Socio-demographic variables come from the 2008 census, which applies to the year 2010. Line 2 removes the 31 municipalities with a population higher than that of the largest treated municipality from the control group. The variation in the population (line 3) is computed by comparing the 1999 and 2008 censuses. Indicator variables for whether the municipality is urban, part of an urban area, or in the urban core are based on the INSEE 2010 classification. Land-use characteristics come from Combes et al. (2021) and each variable is built considering only construction before 2010. The share of built land is computed considering all construction, whereas the average height and floor-to-area ratio (FAR) are computed considering only housing construction. The average height gives the average number of housing stories. To measure the FAR stringency, I follow Combes et al. (2021) and take the 30th percentile of the distribution of realized floor-to-area ratios of all housing buildings in the municipality (FAR p(30)). I also show the statistics using the median (FAR p(50)).

| | Treated | 1 munici | palities (| N=1,299) | Control municipalities (N=15,097) | | | | | |
|----------------------|----------|---------------------------|------------|----------|-----------------------------------|-------|-------|-------|--|--|
| | mean | sd | min | max | mean | sd | min | max | | |
| Panel C | Politice | Political characteristics | | | | | | | | |
| turnout municipal | 0.763 | 0.096 | 0.431 | 1.000 | 0.774 | 0.090 | 0.367 | 1.000 | | |
| turnout presidential | 0.874 | 0.040 | 0.655 | 1.000 | 0.872 | 0.039 | 0.600 | 1.000 | | |
| voteshare right | 0.602 | 0.107 | 0.152 | 1.000 | 0.563 | 0.105 | 0.143 | 1.000 | | |
| voteshare far-right | 0.138 | 0.057 | 0.000 | 0.467 | 0.128 | 0.054 | 0.000 | 0.519 | | |
| right-wing mayor | 0.620 | 0.486 | 0.000 | 1.000 | 0.568 | 0.495 | 0.000 | 1.000 | | |
| left-wing mayor | 0.267 | 0.443 | 0.000 | 1.000 | 0.336 | 0.472 | 0.000 | 1.000 | | |
| NC mayor | 0.112 | 0.316 | 0.000 | 1.000 | 0.094 | 0.292 | 0.000 | 1.000 | | |
| woman mayor | 0.161 | 0.368 | 0.000 | 1.000 | 0.138 | 0.345 | 0.000 | 1.000 | | |
| age mayor | 57.1 | 9.1 | 25.0 | 87.0 | 56.1 | 8.6 | 18.0 | 85.0 | | |
| incumbent mayor | 0.661 | 0.474 | 0.000 | 1.000 | 0.626 | 0.484 | 0.000 | 1.000 | | |
| change orientations | 0.210 | 0.407 | 0.000 | 1.000 | 0.212 | 0.409 | 0.000 | 1.000 | | |

Table A1 (continued): Descriptive statistics using the control group only – 2010 (Panel C)

Notes: The municipal turnout rate and mayor's characteristics are based on the results of the 2008 municipal elections. The presidential turnout rate and far-right vote share come from the results of the first round of the 2007 presidential elections. The right-wing vote share comes from the results of the second round of the 2007 presidential elections. NC stands for "non classified".

| | Treated | 1 munici | palities (| N=1,299) | Integrated municipalities (N=26,9 | | | s (N=26,991) |
|-------------------|---------|----------|------------|----------|-----------------------------------|-------|-------|--------------|
| | mean | sd | min | max | mean | sd | min | max |
| population | 1,511 | 4,427 | 18 | 67,406 | 1,615 | 9,170 | 2 | 797,491 |
| density | 150.4 | 518.9 | 1.20 | 6,629 | 133.3 | 413.1 | 0.17 | 10,153 |
| urban | 0.179 | 0.384 | 0.000 | 1.000 | 0.174 | 0.379 | 0.000 | 1.000 |
| urban area | 0.574 | 0.495 | 0.000 | 1.000 | 0.542 | 0.498 | 0.000 | 1.000 |
| core urban area | 0.078 | 0.268 | 0.000 | 1.000 | 0.093 | 0.291 | 0.000 | 1.000 |
| unemployed | 0.101 | 0.046 | 0.000 | 0.345 | 0.105 | 0.048 | 0.000 | 0.500 |
| below 5 y/o | 0.048 | 0.018 | 0.000 | 0.152 | 0.049 | 0.017 | 0.000 | 0.250 |
| above 65 y/o | 0.180 | 0.073 | 0.025 | 0.514 | 0.189 | 0.071 | 0.000 | 0.778 |
| av. # children | 0.949 | 0.308 | 0.000 | 3.500 | 0.947 | 0.286 | 0.000 | 5.000 |
| farmers | 0.051 | 0.062 | 0.000 | 0.500 | 0.052 | 0.059 | 0.000 | 1.000 |
| executives | 0.053 | 0.056 | 0.000 | 0.429 | 0.038 | 0.036 | 0.000 | 0.500 |
| workers | 0.159 | 0.072 | 0.000 | 0.600 | 0.171 | 0.066 | 0.000 | 0.667 |
| retired | 0.250 | 0.091 | 0.000 | 0.750 | 0.258 | 0.086 | 0.000 | 1.000 |
| no diploma | 0.200 | 0.080 | 0.029 | 0.682 | 0.219 | 0.078 | 0.000 | 0.692 |
| baccalaureate | 0.115 | 0.039 | 0.000 | 0.286 | 0.110 | 0.035 | 0.000 | 0.500 |
| high education | 0.060 | 0.057 | 0.000 | 0.413 | 0.046 | 0.035 | 0.000 | 0.518 |
| residents' income | 8,434 | 3,199 | 2,739 | 30,590 | 7,252 | 1,929 | 1,937 | 38,509 |

Table A2: Descriptive statistics using municipalities' characteristics in 1999

Notes: Data on the municipal population, age, education, and occupational composition come from the 1999 census. The share of immigrants is not available for this census year. Residents' income corresponds to the 2000 taxable income data.

| | Treate | ed municip | alities (N | N=265) | Integrated municipalities (N=5,628) | | | | |
|----------------------|----------|------------|------------|-----------|-------------------------------------|--------|--------|---------|--|
| | mean | sd | min | max | mean | sd | min | max | |
| Panel A | Socio-de | emographi | ic charac | teristics | | | | | |
| population | 6,199 | 9,009 | 137 | 72,939 | 6,302 | 20,376 | 77 | 85,1420 | |
| Δ population | 0.106 | 0.160 | -0.167 | 1.385 | 0.086 | 0.129 | -0.257 | 2.070 | |
| density | 617.9 | 1,081.7 | 26.2 | 6,883.5 | 496.5 | 826.6 | 12.4 | 9,976.5 | |
| urban area | 0.838 | 0.369 | 0.000 | 1.000 | 0.852 | 0.355 | 0.000 | 1.000 | |
| core urban area | 0.445 | 0.498 | 0.000 | 1.000 | 0.518 | 0.500 | 0.000 | 1.000 | |
| immigrants | 0.070 | 0.047 | 0.005 | 0.281 | 0.050 | 0.044 | 0.000 | 0.395 | |
| unemployed | 0.092 | 0.036 | 0.013 | 0.237 | 0.099 | 0.041 | 0.000 | 0.296 | |
| below 5 y/o | 0.059 | 0.013 | 0.030 | 0.091 | 0.059 | 0.013 | 0.014 | 0.132 | |
| above 65 y/o | 0.165 | 0.063 | 0.037 | 0.406 | 0.169 | 0.054 | 0.021 | 0.431 | |
| av. # children | 0.954 | 0.187 | 0.416 | 1.471 | 0.924 | 0.158 | 0.376 | 1.833 | |
| farmers | 0.007 | 0.012 | 0.000 | 0.103 | 0.009 | 0.013 | 0.000 | 0.190 | |
| executives | 0.099 | 0.069 | 0.000 | 0.319 | 0.070 | 0.044 | 0.000 | 0.340 | |
| workers | 0.125 | 0.057 | 0.016 | 0.305 | 0.148 | 0.052 | 0.000 | 0.400 | |
| retired | 0.265 | 0.081 | 0.070 | 0.578 | 0.274 | 0.069 | 0.029 | 0.617 | |
| no diploma | 0.163 | 0.064 | 0.018 | 0.359 | 0.176 | 0.064 | 0.025 | 0.557 | |
| baccalaureate | 0.164 | 0.027 | 0.090 | 0.251 | 0.155 | 0.026 | 0.032 | 0.362 | |
| high education | 0.125 | 0.092 | 0.025 | 0.507 | 0.093 | 0.055 | 0.000 | 0.542 | |
| residents' income | 16,197 | 4,867 | 8,963 | 40,218 | 13,792 | 3,229 | 6,164 | 57,126 | |
| Panel B | Land-us | e characte | eristics | | | | | | |
| share built land (%) | 2.377 | 2.474 | 0.247 | 15.882 | 2.183 | 2.274 | 0.122 | 23.943 | |
| average height | 1.678 | 0.317 | 1.135 | 4.727 | 1.635 | 0.233 | 1.061 | 4.391 | |
| FAR (p30) | 0.170 | 0.085 | 0.030 | 0.493 | 0.170 | 0.089 | 0.008 | 1.465 | |
| FAR (p50) | 0.245 | 0.146 | 0.061 | 1.812 | 0.244 | 0.126 | 0.027 | 1.901 | |

Table A3: Descriptive statistics – 2010: Urban municipalities (Panels A and B)

Notes: The sample includes only urban municipalities. Socio-demographic variables come from the 2008 census, which applies to the year 2010. The variation in the population (line 2) is computed by comparing the 1999 and 2008 censuses. Indicator variables for whether the municipality is part of an urban area, or in the urban core are based on the INSEE 2010 classification. Land-use characteristics come from Combes et al. (2021) and each variable is built considering only construction before 2010. The share of built land is computed considering all construction, whereas the average height and floor-to-area ratio (FAR) are computed considering only housing construction. The average height gives the average number of housing stories. To measure the FAR stringency, I follow Combes et al. (2021) and take the 30th percentile of the distribution of realized floor-to-area ratios of all housing buildings in the municipality (FAR p(30)). I also show the statistics using the median (FAR p(50)).

| | Treated | ł munici | palities (| (N=265) | Integrated municipalities (N=5,628) | | | | es (N=5,628) | |
|----------------------|----------|---------------------------|------------|---------|-------------------------------------|-------|-------|-------|--------------|--|
| | mean | sd | min | max | | mean | sd | min | max | |
| Panel C | Politice | Political characteristics | | | | | | | | |
| turnout municipal | 0.677 | 0.086 | 0.431 | 0.883 | | 0.696 | 0.084 | 0.367 | 0.985 | |
| turnout presidential | 0.869 | 0.032 | 0.761 | 0.943 | | 0.863 | 0.036 | 0.724 | 0.993 | |
| voteshare right | 0.592 | 0.093 | 0.340 | 0.828 | | 0.541 | 0.089 | 0.276 | 0.924 | |
| voteshare far-right | 0.115 | 0.039 | 0.034 | 0.224 | | 0.119 | 0.043 | 0.020 | 0.380 | |
| right-wing mayor | 0.589 | 0.493 | 0.000 | 1.000 | | 0.492 | 0.500 | 0.000 | 1.000 | |
| left-wing mayor | 0.343 | 0.476 | 0.000 | 1.000 | | 0.444 | 0.497 | 0.000 | 1.000 | |
| NC mayor | 0.068 | 0.252 | 0.000 | 1.000 | | 0.063 | 0.243 | 0.000 | 1.000 | |
| woman mayor | 0.140 | 0.347 | 0.000 | 1.000 | | 0.109 | 0.312 | 0.000 | 1.000 | |
| age mayor | 57.6 | 9.0 | 30.0 | 81.0 | | 56.4 | 8.6 | 23.0 | 83.0 | |
| incumbent mayor | 0.701 | 0.459 | 0.000 | 1.000 | | 0.623 | 0.485 | 0.000 | 1.000 | |
| change orientations | 0.170 | 0.377 | 0.000 | 1.000 | | 0.203 | 0.403 | 0.000 | 1.000 | |

 Table A3 (continued): Descriptive statistics – 2010: Urban municipalities (Panel C)

Notes: The sample includes only urban municipalities. The municipal turnout rate and mayor's characteristics are based on the results of the 2008 municipal elections. The presidential turnout rate and far-right vote share come from the results of the first round of the 2007 presidential elections. The right-wing vote share comes from the results of the second round of the 2007 presidential elections. NC stands for "non classified".

| | Treated | municip | alities (N | =1,034) | Integrated municipalities (N=21,363) | | | |
|----------------------|---------|----------|------------|-------------|--------------------------------------|-------|--------|--------|
| | mean | sd | min | max | mean | sd | min | max |
| Panel A | Socio-d | emograp | hic chard | acteristics | | | | |
| population | 472 | 469 | 16 | 3,391 | 501 | 491 | 3 | 5,438 |
| Δ population | 0.101 | 0.160 | -0.397 | 1.279 | 0.104 | 0.157 | -0.500 | 2.692 |
| density | 45.2 | 50.3 | 2.1 | 525.1 | 47.3 | 57.8 | 0.2 | 2,750 |
| urban area | 0.585 | 0.493 | 0.000 | 1.000 | 0.546 | 0.498 | 0.000 | 1.000 |
| immigrants | 0.038 | 0.034 | 0.000 | 0.333 | 0.034 | 0.036 | 0.000 | 0.667 |
| unemployed | 0.080 | 0.040 | 0.000 | 0.571 | 0.084 | 0.040 | 0.000 | 0.429 |
| below 5 y/o | 0.061 | 0.022 | 0.000 | 0.172 | 0.062 | 0.022 | 0.000 | 0.206 |
| above 65 y/o | 0.171 | 0.067 | 0.000 | 0.522 | 0.180 | 0.067 | 0.000 | 0.667 |
| av. # children | 0.895 | 0.257 | 0.000 | 2.000 | 0.884 | 0.242 | 0.000 | 3.000 |
| farmers | 0.044 | 0.057 | 0.000 | 0.444 | 0.046 | 0.055 | 0.000 | 1.000 |
| executives | 0.063 | 0.062 | 0.000 | 0.429 | 0.048 | 0.044 | 0.000 | 0.563 |
| workers | 0.159 | 0.083 | 0.000 | 1.000 | 0.170 | 0.074 | 0.000 | 1.000 |
| retired | 0.283 | 0.106 | 0.000 | 0.800 | 0.291 | 0.104 | 0.000 | 1.000 |
| no diploma | 0.175 | 0.071 | 0.000 | 0.463 | 0.184 | 0.068 | 0.000 | 0.674 |
| baccalaureate | 0.154 | 0.042 | 0.000 | 0.324 | 0.152 | 0.039 | 0.000 | 0.557 |
| high education | 0.079 | 0.061 | 0.000 | 0.500 | 0.068 | 0.041 | 0.000 | 0.435 |
| residents' income | 13,515 | 4,048 | 5,495 | 59,093 | 12,312 | 2,735 | 3,273 | 65,758 |
| Panel B | Land-us | e charac | cteristics | | | | | |
| share built land (%) | 0.323 | 0.308 | 0.024 | 3.631 | 0.341 | 0.408 | 0.004 | 25.987 |
| average height | 1.531 | 0.169 | 1.048 | 2.325 | 1.540 | 0.168 | 1.000 | 3.000 |
| FAR (p30) | 0.095 | 0.065 | 0.001 | 0.901 | 0.090 | 0.065 | 0.000 | 0.965 |
| FAR (p50) | 0.152 | 0.099 | 0.003 | 1.614 | 0.150 | 0.108 | 0.003 | 1.790 |

Table A4: Descriptive statistics – 2010: Rural municipalities (Panels A and B)

Notes: The sample includes only rural municipalities. Socio-demographic variables come from the 2008 census, which applies to the year 2010. The variation in the population (line 2) is computed by comparing the 1999 and 2008 censuses. The indicator variable for whether the municipality is part of an urban area is based on the INSEE 2010 classification. Land-use characteristics come from Combes et al. (2021) and each variable is built considering only construction before 2010. The share of built land is computed considering all construction, whereas the average height and floor-to-area ratio (FAR) are computed considering only housing construction. The average height gives the average number of housing stories. To measure the FAR stringency, I follow Combes et al. (2021) and take the 30th percentile of the distribution of realized floor-to-area ratios of all housing buildings in the municipality (FAR p(30)). I also show the statistics using the median (FAR p(50)).

| | Treated | l munici | palities (I | N=1,034) | Integrated municipalities (N=21,363) | | | | |
|----------------------|----------|---------------------------|-------------|----------|--------------------------------------|-------|-------|-------|--|
| | mean | sd | min | max | mean | sd | min | max | |
| Panel C | Politice | Political characteristics | | | | | | | |
| turnout municipal | 0.785 | 0.086 | 0.499 | 1.000 | 0.800 | 0.078 | 0.464 | 1.000 | |
| turnout presidential | 0.876 | 0.042 | 0.655 | 1.000 | 0.876 | 0.040 | 0.000 | 1.000 | |
| voteshare right | 0.604 | 0.111 | 0.152 | 1.000 | 0.569 | 0.108 | 0.106 | 1.000 | |
| voteshare far-right | 0.144 | 0.059 | 0.000 | 0.467 | 0.133 | 0.056 | 0.000 | 0.556 | |
| right-wing mayor | 0.628 | 0.484 | 0.000 | 1.000 | 0.577 | 0.494 | 0.000 | 1.000 | |
| left-wing mayor | 0.248 | 0.432 | 0.000 | 1.000 | 0.308 | 0.462 | 0.000 | 1.000 | |
| NC mayor | 0.124 | 0.330 | 0.000 | 1.000 | 0.113 | 0.317 | 0.000 | 1.000 | |
| woman mayor | 0.166 | 0.373 | 0.000 | 1.000 | 0.151 | 0.358 | 0.000 | 1.000 | |
| age mayor | 57.0 | 9.1 | 25.0 | 87.0 | 56.0 | 8.8 | 18.0 | 88.0 | |
| incumbent mayor | 0.651 | 0.477 | 0.000 | 1.000 | 0.624 | 0.484 | 0.000 | 1.000 | |
| change orientations | 0.221 | 0.415 | 0.000 | 1.000 | 0.226 | 0.418 | 0.000 | 1.000 | |

Table A4 (continued): Descriptive statistics – 2010: Rural municipalities (Panel C)

Notes: The sample includes only rural municipalities. The municipal turnout rate and mayor's characteristics are based on the results of the 2008 municipal elections. The presidential turnout rate and far-right vote share come from the results of the first round of the 2007 presidential elections. The right-wing vote share comes from the results of the second round of the 2007 presidential elections. NC stands for "non classified".

| | (1) | (2) | (3) |
|-----------------|-----------|------------|----------------|
| Outcome | Number of | housing bu | ilding permits |
| | Log(y+1) | Asinh(y) | Poisson |
| Treatment | 0.118 | 0.138 | 0.187 |
| | (0.015) | (0.018) | (0.050) |
| Exp(β) | 1.126 | 1.148 | 1.205 |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 245,940 | 245,940 | 243,510 |

Table A5: Impact on housing: Alternative estimation strategies

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The outcome, denoted y, is the number of housing building permits delivered in the municipality per year. Column 1 takes as outcome the log transformation ln(y+1), while Column 2 takes as outcome the inverse hyperbolic sine transformation $log(y + (y^2 + 1)^{1/2})$. Column 3 estimates a Poisson regression model, using the ppmlhdfe stata package (Correia et al., 2020). As explained in Correia et al. (2020), the ppmlhdfe command may drop "separated observations", that do not convey relevant information for the estimation process.

| | (1) | (2) | (3) | (4) |
|-----------------|---------|-------------|------------|-----------|
| Outcome | Numbe | r of housin | g building | permits |
| | 2010 ро | pulation | Current p | opulation |
| Treatment | 8.141 | 8.172 | 16.953 | 16.568 |
| | (1.517) | (1.515) | (2.878) | (2.884) |
| Municipality FE | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes |
| Observations | 245,940 | 243,360 | 243,930 | 243,360 |
| Mean DepVar | 64.836 | 65.088 | 121.994 | 122.420 |
| Sd DepVar | 90.844 | 89.481 | 175.066 | 175.163 |

Table A6: Impact on housing: Dividing by current population and adding controls

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants. In Columns 1 and 2 (resp. 3 and 4), the outcome is normalized by dividing by the 2010 population (resp. by the number of households in the municipality at year t). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) and should be used to compare the magnitude of the effect across the two measures. Controls included in Columns 2 and 4 are the number of households in the municipality and the average household's annual taxable income in year t. When using the number of households (resp. household's annual taxable income), the sample is restricted to a balanced panel of municipalities for which fiscal data are not missing during the period of analysis, excluding 134 (resp. 172) municipalities.

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | |
|-----------|---|---------|-----------|---------|-----------|---------|---------|---------|---------|------------|--|
| Outcome | Number of housing building permits per 10,000 inhabitants | | | | | | | | | | |
| | | Туре о | f housing | Res | idence | | Usage | | | Empty land | |
| | All | House | Apartment | Primary | Secondary | Self | Renting | Selling | Yes | No | |
| Treatment | 8.141 | 6.435 | 1.705 | 7.208 | 0.510 | 4.684 | 2.137 | 1.717 | 6.810 | 1.331 | |
| | (1.517) | (1.268) | (0.661) | (1.395) | (0.246) | (0.942) | (0.479) | (0.656) | (1.391) | (0.496) | |
| Mun FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Obs. | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | 245,940 | |
| Mean | 64.836 | 56.081 | 8.755 | 58.479 | 2.526 | 36.554 | 9.236 | 7.540 | 53.922 | 10.914 | |
| Sd | 90.844 | 78.198 | 41.721 | 84.826 | 15.593 | 64.329 | 32.912 | 38.170 | 82.793 | 35.660 | |

Table A7: Impact on housing: Characteristics of the building permits

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants. Columns 2 and 3 distinguish between building permits delivered for the construction of a house or an apartment. Columns 4 and 5 distinguish between building permits delivered for the construction of a primary or a secondary residence. Columns 6, 7 and 8 distinguish between three types of building permits depending on the use of the construction: if the home being built is intended to be used by the person receiving the permit, intended to be rented or to be sold. Columns 9 and 10 distinguish between building permits delivered for the construction of a new unit on empty land or for the extension of an existing housing building. Note that 9% of the entries did not specify whether the home was a primary or secondary residence and 31% did not specify the usage. In both cases, the impact on the number of building permits with missing information is small and not significant.

| | (1) |
|-------------------|------------------------------------|
| Outcome | Number of housing building permits |
| Integration | 2.730 |
| | (0.886) |
| IntegrationForced | 5.612 |
| | (1.728) |
| Municipality FE | Yes |
| Time FE | Yes |
| Observations | 263,860 |
| Mean DepVar | 67.549 |
| Sd DepVar | 93.550 |

Table A8: Impact on housing: Comparison with municipalities that voluntarily integrated

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable during the year preceding the integration. The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 1999 population). The treatment variable is an indicator variable equal to 1 if the municipality is integrated. The regression also includes the interaction between the treatment variable and an indicator variable equal to 1 if the municipality was forced to integrate following the 2010 law.

| | (1) | (2) | (3) |
|-----------------|---------|--------------|------------------|
| Outcome | Number | of housing b | ouilding permits |
| | All | Residents' | income median |
| | | Below | Above |
| Treatment | 8.141 | 4.518 | 8.114 |
| | (1.517) | (2.173) | (2.024) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 245.940 | 122.850 | 122.850 |

64.836

90.844

Table A9: Impact on housing: Residents' income

Mean DepVar

Sd DepVar

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 2 (resp. 3) includes only municipalities below (resp. above) the median of the per capita residents' annual taxable income in 2010. Data on taxable income in 2010 are missing for the 16 smallest municipalities.

66.216

87.332

81.021

102.097

| | (1) | (2) | (3) |
|-----------------|---------|--------------|------------------|
| Outcome | Number | of housing b | ouilding permits |
| | All | Residents' | income median |
| | | Below | Above |
| Treatment | 10.494 | 5.265 | 9.418 |
| | (1.812) | (2.907) | (2.333) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 151,500 | 75,735 | 75,720 |
| Mean DepVar | 63.660 | 70.743 | 80.285 |
| Sd DepVar | 85.197 | 83.777 | 102.510 |

Table A10: Impact on housing inside urban areas: Residents' income

Notes: The sample includes only municipalities inside an urban area. Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 2 (resp. 3) includes only municipalities below (resp. above) the median of the per capita residents' annual taxable income in 2010. Data on taxable income in 2010 are missing for the 3 smallest municipalities.

| | (1) | (2) | (3) | (4) | (5) |
|--|---------------------------------|--|--------------------------------------|--------------------------------|---|
| Outcome | Number of | of housing | building p | permits per | 10,000 inhabitants |
| | All | Rural | Urban | Housin | g density median |
| | | | | Below | Above |
| Treatment | 10.494 | 9.852 | 15.538 | 9.258 | 13.895 |
| | (1.812) | (1.967) | (3.755) | (2.230) | (2.759) |
| | | | | | |
| P-value (2)=(3), (4)=(5) | | 0.1 | 80 | | 0.191 |
| P-value (2)=(3), (4)=(5) Mun. FE | Yes | 0.1 Yes | 80 Yes | Yes | 0.191 Yes |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE | Yes Yes | 0.1 Yes Yes | 80 Yes Yes | Yes Yes | 0.191 Yes Yes |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE Obs. | Yes Yes 151,500 | 0.1 Yes Yes 105,345 | 80 Yes Yes 46,155 | Yes Yes 75,750 | 0.191 Yes Yes 75,750 |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE Obs. Mean | Yes Yes 151,500 63.660 | 0.1 Yes Yes 105,345 62.963 | 80 Yes Yes 46,155 65.558 | Yes Yes 75,750 64.714 | 0.191 Yes Yes 75,750 62.425 |

Table A11: Impact on housing inside urban areas: Housing density

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The sample includes only municipalities inside an urban area. Columns 2 to 5 add further restrictions: Column 2 (resp. 3) includes only rural (resp. urban) municipalities and Column 4 (resp. 5) includes only municipalities with a housing density in 2010 below (resp. above) the median.

| | (1) | (2) | (3) | (4) | (5) | |
|--|--------------------------------|---------------------------------------|---------------------------------------|--------------------------------|---|--|
| Outcome | Number | of housin | g building | g permits pe | er 10,000 inhabitants | |
| | All | Rural | Urban | Housir | ng density median | |
| | | | | Below | Above | |
| Treatment | 8.853 | 7.831 | 16.928 | 7.552 | 18.047 | |
| | (4.171) | (5.371) | (6.146) | (5.033) | (6.655) | |
| | 0.265 | | | 0.208 | | |
| P-value $(2)=(3), (4)=(5)$ | | 0.2 | 265 | | 0.208 | |
| P-value (2)=(3), (4)=(5) Mun. FE | Yes | 0.2 Yes | Yes | Yes | 0.208 Yes | |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE | Yes Yes | 0.2 Yes Yes | Yes Yes | Yes Yes | 0.208 Yes Yes | |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE Obs. | Yes Yes 39,180 | 0.2 Yes Yes 16,260 | 265 Yes Yes 22,920 | Yes Yes 19,590 | 0.208 Yes Yes 19,590 | |
| P-value (2)=(3), (4)=(5) Mun. FE Time FE Obs. Mean | Yes Yes 39,180 66.201 | 0.2 Yes Yes 16,260 67.800 | 265 Yes Yes 22,920 64.264 | Yes Yes 19,590 66.069 | 0.208 Yes Yes 19,590 66.415 | |

Table A12: Impact on housing inside urban areas: CA and CU ICs

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The sample includes only municipalities inside an urban area and that are part of a "CA" or "CU" IC in 2014 (standing for *Communauté d'Agglomération* and *Communauté Urbaine*). Columns 2 to 5 add further restrictions: Column 2 (resp. 3) includes only rural (resp. urban) municipalities and Column 4 (resp. 5) includes only municipalities with a housing density in 2010 below (resp. above) the median.

| | (1) | (2) | (3) | (4) |
|-----------|---------|-------------|------------|---------|
| Outcome | Numbe | r of housin | g building | permits |
| | All | < 3,500 | < 1,000 | < 500 |
| Treatment | 8.141 | 7.280 | 6.774 | 6.819 |
| | (1.517) | (1.531) | (1.687) | (1.964) |
| Mun. FE | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes |
| Obs. | 245,940 | 223,380 | 174,030 | 123,555 |
| Mean | 64.836 | 64.256 | 62.557 | 61.712 |
| Sd | 90.844 | 90.398 | 91.500 | 95.589 |

Table A13: Impact on housing by municipality size

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 2 (resp. 3, 4) includes only municipalities with less than 3,500 (resp. 1,000, 500) inhabitants in 2010.

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
|-----------------|---------|-----------|---------------|----------------|-------------------|---------------|----------------|
| Outcome | | Nur | nber of housi | ng building pe | ermits per 10,000 |) inhabitants | |
| | All | Median in | ncome ratio | Median im | migrants ratio | Median une | employed ratio |
| | | Below | Above | Below | Above | Below | Above |
| Treatment | 8.141 | 7.249 | 9.348 | 6.893 | 9.224 | 4.362 | 12.079 |
| | (1.517) | (2.126) | (2.128) | (2.118) | (2.171) | (2.174) | (2.103) |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 245,940 | 122,850 | 122,850 | 122,970 | 122,970 | 122,970 | 122,970 |
| Mean DepVar | 64.836 | 60.737 | 68.200 | 63.472 | 66.330 | 67.458 | 61.938 |
| Sd DepVar | 90.844 | 84.897 | 94.558 | 87.958 | 93.890 | 95.820 | 84.922 |

Table A14: Impact on housing: Direct neighbors' characteristics

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). For each municipality, the ratio divides the value of the heterogeneity variable in the municipality by the average value for the neighboring municipalities—defined as municipalities sharing a common border—weighted by their population. Column 2 (resp. 3) includes only municipalities below (resp. above) the median value of the 16 smallest municipalities. Column 4 (resp. 5) includes only municipalities below (resp. above) the median value of the ratio using the share of immigrants in 2010. Columns 6 and 7 repeat the same exercise using the share of unemployed workers in 2010.

| | (1) | (2) | (3) | (4) | (5) | | |
|-----------------|---------|------------------------------------|-----------|--------------|-----------|--|--|
| Outcome |] | Number of housing building permits | | | | | |
| | All | Median | non-Europ | ean immigrai | nts ratio | | |
| | | Dépar | tement | Direct n | eighbors | | |
| | | Below | Above | Below | Above | | |
| Treatment | 8.141 | 8.359 | 8.159 | 4.898 | 11.150 | | |
| | (1.517) | (1.778) | (2.531) | (2.062) | (2.260) | | |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | | |
| Time FE | Yes | Yes | Yes | Yes | Yes | | |
| Observations | 245,940 | 122,970 | 122,970 | 121,440 | 121,425 | | |
| Mean DepVar | 64.836 | 58.932 | 71.609 | 63.189 | 67.397 | | |
| Sd DepVar | 90.844 | 84.465 | 97.219 | 88.437 | 92.985 | | |

Table A15: Impact on housing: Neighbors' share of non-European immigrants

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). For each municipality, the ratio divides the share of non-European immigrants in the municipality by the average share in surrounding municipalities, weighted by their population. Surrounding municipalities are defined either as all the other municipalities from the same département (Columns 2 and 3) or as municipalities sharing a border (Columns 4 and 5). Columns 2 and 4 (resp. 3 and 5) includes only municipalities below (resp. above) the median value of the ratio. The ratio considering direct neighbors (Columns 4 and 5) is missing for 205 municipalities whose neighboring municipalities had zero non-European immigrants.

| | (1) | (2) | (3) | | (4) | (5) | | (6) | (7) |
|-----------|---------|-------------|-------------|------|------------|-------------|-------|-----------|----------|
| Outcome | | Number of l | housing bui | ildi | ng permits | per 10,000 |) inl | nabitants | |
| | All | Same or | ientation | | V | ote-share-d | lista | nce media | ın |
| | | as distric | t official | | Dépar | tement | | Direct n | eighbors |
| | | Yes | No | | Below | Above | | Below | Above |
| Treatment | 8.141 | 8.703 | 7.234 | | 5.962 | 9.951 | | 7.936 | 8.331 |
| | (1.517) | (1.964) | (2.380) | | (2.195) | (2.092) | | (2.203) | (2.093) |
| Mun. FE | Yes | Yes | Yes | | Yes | Yes | | Yes | Yes |
| Time FE | Yes | Yes | Yes | | Yes | Yes | | Yes | Yes |
| Obs. | 245,940 | 141,885 | 103,110 | | 122,970 | 122,970 | | 122,970 | 122,970 |
| Mean | 64.836 | 64.925 | 64.685 | | 69.661 | 60.908 | | 69.458 | 60.524 |
| Sd | 90.844 | 91.436 | 89.837 | | 94.704 | 87.388 | | 94.093 | 87.494 |

Table A16: Impact on housing: Political alignment

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 2 (resp. 3) includes only municipalities whose mayor had the same orientation (resp. a different orientation) as the member of parliament of their district in 2010. Column 4 (resp. 5) includes only municipalities below (resp. above) the median value of the absolute difference in the right-wing vote share in the 2007 presidential election between the municipality and the other municipalities from the same département. In Columns 6 and 7, surrounding municipalities are defined as direct neighbors.

| | (1) | (2) | (3) |
|-----------------|---------|------------|------------------|
| Outcome | Number | of housing | building permits |
| | All | Median | % homeowners |
| | | Below | Above |
| Treatment | 13.774 | 13.139 | 14.364 |
| | (3.691) | (5.548) | (4.883) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 54,420 | 27,210 | 27,210 |
| Mean DepVar | 69.875 | 74.602 | 65.253 |
| Sd DepVar | 93.921 | 100.447 | 86.876 |

Table A17: Impact on housing: Share of homeowners: Urban municipalities

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The sample includes only urban municipalities. The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 4 (resp. 5) includes only municipalities below (resp. above) the median value of the share of homeowners in 2010.

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------|----------|--------------|---------|----------|--------------|---------|
| Outcome | Numbe | r of daycare | e spots | Number | of public li | braries |
| | Log(y+1) | Asinh(y) | Poisson | Log(y+1) | Asinh(y) | Poisson |
| Treatment | -0.022 | -0.027 | -0.205 | -0.042 | -0.054 | -0.228 |
| | (0.005) | (0.007) | (0.064) | (0.016) | (0.020) | (0.083) |
| Exp(β) | 0.978 | 0.973 | 0.814 | 0.959 | 0.948 | 0.796 |
| Mun. FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Obs. | 153,216 | 153,216 | 153,216 | 11,020 | 11,020 | 3,520 |

Table A18: Impact on public services (rural municipalities): Alternative estimation strategies

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The sample is restricted to rural municipalities. In Columns 1 to 3, the outcome, denoted y, is the number of child daycare spots in the municipality; the period of analysis is 2007-2018. In Columns 4 to 6, the outcome, denoted y, is the number of public libraries in the municipality; the period of analysis is 2009–2018 and the sample is restricted to the 7 départements for which data are available starting in 2009. Columns 1 and 4 take as outcome the log transformation ln(y+1), while Columns 2 and 5 take as outcome the inverse hyperbolic sine transformation $log(y + (y^2 + 1)^{1/2})$. Columns 3 and 6 estimate a Poisson regression model, using the ppmlhdfe stata package (Correia et al., 2020). As explained in Correia et al. (2020), the ppmlhdfe command may drop "separated observations", that do not convey relevant information for the estimation process.

| | (1) | (2) | (3) | |
|-----------------|-----------|------------|------------|--|
| Outcome | Number of | of daycare | facilities | |
| | All | Rural | Urban | |
| Treatment | -0.032 | -0.046 | 0.036 | |
| | (0.030) | (0.034) | (0.060) | |
| P-value (2)=(3) | | 0.232 | | |
| Municipality FE | Yes | Yes | Yes | |
| Time FE | Yes | Yes | Yes | |
| Observations | 196,752 | 153,216 | 43,536 | |
| Mean DepVar | 0.402 | 0.169 | 1.310 | |
| Sd DepVar | 1.453 | 1.267 | 1.749 | |

Table A19: Impact on the number of daycare facilities

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of daycare facilities in the municipality per 10,000 inhabitants (using the 2010 population), and the period of analysis is 2007–2018. Column 2 (resp.3) include only rural (resp. urban) municipalities.

| Table A20: Imp | pact on local | public services | (rural municipalities |): Extensive margin |
|----------------|---------------|-----------------|-----------------------|---------------------|
| | | | | , . |

| | (1) | (2) | |
|-----------------|--------------|----------------|--|
| Outcome | At least one | | |
| | Daycare spot | Public library | |
| Treatment | -0.008 | -0.057 | |
| | (0.002) | (0.021) | |
| Municipality FE | Yes | Yes | |
| Time FE | Yes | Yes | |
| Observations | 153,216 | 11,020 | |
| Mean DepVar | 0.022 | 0.301 | |
| Sd DepVar | 0.148 | 0.460 | |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The sample includes only rural municipalities. In Columns 1, the outcome is an indicator variable equal to 1 if the municipality has at least one daycare spot; the period of analysis is 2007-2018. In Column 2, the outcome is an indicator variable equal to 1 if the municipality has at least one public library; the period of analysis is 2009–2018 and the sample is restricted to the 7 départements for which data are available starting in 2009.

| | (1) | (2) | (3) | (4) | (5) | (6) | | |
|---|--------------------------------|---------------------------------------|---------------------------------------|-------------------------------|--------------------------------------|------------------------------|--|--|
| Outcome | Numbe | Number of daycare spots | | | Number of public libraries | | | |
| | All rural | At least 1 | l in 2010 | All rural | At least 1 in 2010 | | | |
| | | Yes | No | | Yes | No | | |
| Treatment | -1.001 | 3.581 | -1.032 | -1.248 | -3.361 | -0.096 | | |
| | (0.463) | (14.510) | (0.271) | (0.620) | (1.698) | (0.134) | | |
| | | | | | 0.055 | | | |
| P-value (2)=(3), (5)=(6) | | 0.7 | 50 | | 0.0 |)55 | | |
| P-value (2)=(3), (5)=(6) Mun FE | Yes | 0.7 Yes | Y50 Yes | Yes | 0.0 Yes |)55 Yes | | |
| P-value (2)=(3), (5)=(6) Mun FE Time FE | Yes Yes | 0.7 Yes Yes | Yes Yes | Yes Yes | 0.0 Yes Yes |)55 Yes Yes | | |
| P-value (2)=(3), (5)=(6) Mun FE Time FE Obs. | Yes Yes 153,216 | 0.7 Yes Yes 4,872 | 750 Yes Yes 148,344 | Yes Yes 11,020 | 0.0 Yes Yes 3,260 | 055 Yes Yes 7,760 | | |
| P-value (2)=(3), (5)=(6) Mun FE Time FE Obs. Mean | Yes Yes 153,216 3.617 | 0.7 Yes Yes 4,872 149.583 | 750 Yes Yes 148,344 0.000 | Yes Yes 11,020 5.277 | 0.0 Yes Yes 3,260 15.104 | 055 Yes 7,760 0.000 | | |

Table A21: Impact on local public services (rural municipalities): Heterogeneity analysis

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). In Columns 1 to 3, the outcome is the number of child daycare spots in the municipality per 10,000 inhabitants (using the 2010 population); the period of analysis is 2007-2018. In Columns 4 to 6, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population); the period of analysis is 2009–2018 and the sample is restricted to the 7 départements for which data are available starting in 2009. The sample is restricted to rural municipalities. Column 2 (resp. 5) includes only rural municipalities that had at least one daycare spot (resp. public library) in 2010. Column 3 (resp. 6) includes only rural municipalities that did not have any daycare spots (resp. public libraries) in 2010.

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----------|---------------|-----------------------------------|---------|-----------------|------------------|--------------------|---------|---------|
| Outcome | Daycare spots | | | | Public Libraries | | | |
| | 2010 po | 010 population Current population | | 2010 population | | Current population | | |
| Treatment | -1.001 | -0.963 | -1.903 | -1.875 | -1.248 | -1.329 | -2.375 | -2.416 |
| | (0.463) | (0.467) | (0.780) | (0.782) | (0.620) | (0.649) | (1.145) | (1.175) |
| Mun. FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes | No | Yes | No | Yes |
| Obs. | 153,216 | 151,296 | 151,740 | 151,296 | 11,020 | 10,860 | 10,920 | 10,860 |
| Mean | 3.617 | 3.688 | 7.011 | 7.053 | 4.374 | 5.544 | 9.895 | 10.146 |
| Sd | 31.900 | 32.209 | 63.091 | 63.275 | 9.574 | 11.193 | 20.474 | 20.672 |

 Table A22: Impact on public services (rural municipalities): Dividing by current population and adding controls

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The sample includes only rural municipalities. In Columns 1 to 4, the outcome is the number of child daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007-2018. In Columns 4 to 8, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population), the period of analysis is 2009-2018, and the sample is restricted to the 7 départements for which data are available starting in 2009. In Columns 1, 2, 5, and 6 (resp. 3, 4, 7, and 8) the outcome is normalized by dividing by the 2010 population (resp. by the number of households in the municipality at year *t*). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) and should be used to compare the magnitude of the effect across the two measures. Controls included in Columns 2, 4, 6, and 8 are the number of households in the municipality and the average household's annual taxable income in year *t*. When using the number of households (resp. household's annual taxable income), the sample is restricted to a balanced panel of municipalities.
| | (1) | (2) |
|-----------------|----------|----------|
| Outcome | Public t | ransport |
| Treatment | 0.032 | 0.033 |
| | (0.007) | (0.007) |
| Municipality FE | Yes | Yes |
| Time FE | Yes | Yes |
| Controls | No | Yes |
| Observations | 221,368 | 220,178 |
| Mean DepVar | 0.024 | 0.024 |
| Sd DepVar | 0.152 | 0.153 |

Table A23: Impact on public transport: Adding controls

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is an indicator variable equal to 1 if the municipality has access to public transport. The sample excludes municipalities in the Parisian region of Île-de-France, for which the data are not available. Controls included in Column 2 are the number of households in the municipality and the average household's annual taxable income in year *t*. In Column 2, the sample is restricted to a balanced panel of municipalities for which fiscal data are not missing during the period of analysis, excluding 87 small municipalities.

| | (1) | (2) | (3) |
|-----------------|---------|-------------|----------|
| Outcome | Fi | scal revenu | ies |
| | All | Tax | Transfer |
| Treatment | 101.2 | 60.8 | 39.1 |
| | (4.813) | (4.929) | (2.410) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 244,965 | 244,965 | 244,965 |
| Mean DepVar | 698.6 | 424.4 | 274.2 |
| Sd DepVar | 430.0 | 349.2 | 150.0 |

Table A24: Impact on tax revenues and state transfers

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). In Column 1, the outcome is the municipality's total fiscal revenues per capita. In Column 2 (resp. 3), the outcome is the municipality's tax revenues (resp. state transfers), per capita. The construction of the outcomes is described in Section V.B. I exclude from the analysis few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample).

| | (1) | (2) | (3) | (4) | |
|-----------------|---------|-------------|-------------------|---------|--|
| Outcome | Fi | scal revenu | ues per cap | ita | |
| | 2010 ро | pulation | Current populatio | | |
| Treatment | 101.2 | 100.5 | 198.6 | 193.5 | |
| | (4.813) | (4.766) | (8.313) | (8.085) | |
| Municipality FE | Yes | Yes | Yes | Yes | |
| Time FE | Yes | Yes | Yes | Yes | |
| Controls | No | Yes | No | Yes | |
| Observations | 244,965 | 242,400 | 242,970 | 242,400 | |
| Mean DepVar | 698.6 | 693.8 | 1282 | 1277 | |
| Sd DepVar | 430.0 | 422.3 | 732.2 | 719.1 | |

Table A25: Impact on fiscal revenues: Dividing by current population and adding controls

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The outcome is the municipality's total fiscal revenues per capita, as described in Section V.B. I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample). In Columns 1 and 2 (resp. 3 and 4) the outcome is normalized by dividing by the 2010 population (resp. by the number of households in the municipality at year t). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) and should be used to compare the magnitude of the effect across the two measures. Controls included in Columns 2 and 4 are the number of households in the municipality and the average household's annual taxable income in year t. When using the number of households (resp. household's annual taxable income), the sample is restricted to a balanced panel of municipalities for which fiscal data are not missing during the period of analysis, excluding 134 (resp. 172) municipalities.

| | | 1 | 1 | 1 | | 1 | | | | | |
|------|------------|----------|------------------|-----------|---------|--------|---------|---------|-------|--------|---|
| (10) | | IC | ≥ 2 choices | -2.273 | (1.064) | Yes | Yes | 10,610 | 5.588 | 12.381 | |
| (6) | | Existing | Recent | -1.627 | (0.968) | Yes | Yes | 10,630 | 5.655 | 12.621 | |
| (8) | | | All | -1.349 | (0.698) | Yes | Yes | 10,920 | 5.096 | 11.524 | |
| (2) | libraries | New IC | | -0.516 | (0.366) | Yes | Yes | 10,290 | 6.600 | 5.644 | |
| (9) | Public | All | | -1.248 | (0.620) | Yes | Yes | 11,020 | 5.277 | 10.983 | , |
| (5) | | IC | ≥ 2 choices | -1.672 | (0.514) | Yes | Yes | 146,940 | 2.551 | 22.776 | |
| (4) | oots | Existing | Recent | -0.394 | (0.887) | Yes | Yes | 144,012 | 6.976 | 52.146 | , |
| (3) | Daycare sp | | All | -0.908 | (0.569) | Yes | Yes | 149,964 | 4.208 | 36.288 | , |
| (2) | | New IC | I | -1.265 | (0.341) | Yes | Yes | 144,060 | 1.951 | 13.115 | , |
| (1) | | All | | -1.001 | (0.463) | Yes | Yes | 153,216 | 3.617 | 31.900 | |
| | Outcome | | | Treatment | | Mun FE | Time FE | Obs. | Mean | Sd | , |

40

inhabitants (using the 2010 population) and the period of analysis is 2007–2018. In Columns 6 to 10, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population), the period of analysis is 2009–2018, and the sample is restricted to the 7 départements for which data are available starting in 2009. Columns 2 and 7 (resp. 3 and 8) include only treated municipalities that created a new IC resp. that joined an existing IC) after the 2010 law. Results on public libraries should be interpreted with caution for this restriction, as it includes only 10 rural treated municipalities. Columns 4 and 9 include only treated municipalities that entered an existing IC which had recently been created in which all other members integrated after 2000). Columns 5 and 10 include only treated municipalities that entered an existing IC and that had the The sample includes only rural municipalities. In Columns 1 to 5, the outcome is the number of child daycare spots in the municipality per 10,000 Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). choice between at least two of them in 2010.

Table A26: Impact on public services depending on the integration process: Rural municipalities

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------------|---------|---------------|----------|-------|---------------|----------|
| Outcome | | Daycare spots | ł | | Public librar | ies |
| | All | No big city | Big city | Al | l No big city | Big city |
| Treatment | -1.001 | -1.315 | -0.637 | -1.24 | 48 -1.029 | -1.474 |
| | (0.463) | (0.394) | (0.934) | (0.62 | (0.831) | (0.890) |
| P-value (2)=(3), (5)=(6) | | 0.50 | 4 | | 0.7 | 15 |
| Mun FE | Yes | Yes | Yes | Yes | s Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | s Yes | Yes |
| Obs. | 153,216 | 97,884 | 55,308 | 11,0 | 6,850 | 4,170 |
| Mean | 3.617 | 2.200 | 5.502 | 5.27 | 4.857 | 5.615 |
| Sd | 31.900 | 22.126 | 41.391 | 10.9 | 83 10.747 | 11.216 |

| Table A27: | Impact on | public services | depending o | n whether | the IC of | encompasses | big c | ities: |
|------------|-------------|-----------------|-------------|-----------|-----------|-------------|-------|--------|
| Rural muni | icipalities | | | | | | | |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The sample includes only rural municipalities. In Columns 1 to 3, the outcome is the number of child daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007–2018. In Columns 4 to 6, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population), the period of analysis is 2009–2018, and the sample is restricted to the 7 départements for which data are available starting in 2009. Columns 2 and 5 (resp. 3 and 6) include only municipalities that, in 2014, are part of an IC in which all municipalities are below 5,000 inhabitants (resp. encompassing a municipalities above 5,000 inhabitants).

| | (1) | (2) | (3) |
|-----------------|---------|----------------|---------------|
| Outcome | Nur | nber of buildi | ing permits |
| | All | Incumbent | Not incumbent |
| Treatment | 10.494 | 10.883 | 10.622 |
| | (1.812) | (2.347) | (2.851) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 151,500 | 93,300 | 55,620 |
| Mean DepVar | 63.660 | 64.866 | 61.206 |
| Sd DepVar | 85.197 | 84.970 | 85.156 |

 Table A28: Impact on housing depending on mayors' incumbency status: Urban areas

Notes: The sample includes only municipalities part of an urban area. Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 2 (resp. 3) includes only municipalities whose mayor was the incumbent in 2010 and had thus been in place since at least 2001 (resp. was not the incumbent and was thus newly elected in 2008).

| | (1) | (2) | (3) | | (4) | (5) | (6) | |
|-----------|---------------|-----------|---------------|--|------------------|-----------|---------------|--|
| Outcome | Daycare spots | | | | Public libraries | | | |
| | All | Incumbent | Not incumbent | | All | Incumbent | Not incumbent | |
| Treatment | -1.001 | -0.994 | -0.893 | | -1.248 | -1.582 | -0.490 | |
| | (0.463) | (0.650) | (0.603) | | (0.620) | (0.898) | (0.417) | |
| Mun FE | Yes | Yes | Yes | | Yes | Yes | Yes | |
| Time FE | Yes | Yes | Yes | | Yes | Yes | Yes | |
| Obs. | 153,216 | 94,524 | 55,812 | | 11,020 | 6,750 | 4,060 | |
| Mean | 3.617 | 4.183 | 2.713 | | 5.277 | 5.381 | 4.147 | |
| Sd | 31.900 | 35.382 | 24.956 | | 10.983 | 11.754 | 7.704 | |

 Table A29: Impact on public services depending on mayors' incumbency status: Rural municipalities

Notes: The sample includes only rural municipalities. Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). In Columns 1 to 3, the outcome is the number of child daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007–2018. In Columns 4 to 6, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population) and the sample is restricted to the 7 départements for which data are available starting in 2009. Columns 2 and 5 (resp. 3 and 6) include only municipalities whose mayor was the incumbent in 2010 and had thus been in place since at least 2001 (resp. was not the incumbent and was thus newly elected in 2008).

B. Additional robustness checks

In this section, I describe and present additional robustness tests to support the identification strategy. As the negative impact on public services is significant only for rural municipalities, I present the robustness tests on public services for rural municipalities only.

B1. Impact depending on the latest date of integration of the control municipalities

For each outcome, I test the robustness of the results to varying the control group depending on the latest date of integration of the control municipalities. In each table below, the first column gives the baseline estimate restricting the control group to municipalities integrated since 1999. The next columns provide the estimates obtained by considering instead all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively. The last column includes all municipalities already integrated in 2010.

| | (1) | (2) | (3) | (4) | (5) | (6) | | | | |
|--------------------|---------|---|---------|---------|---------|---------|--|--|--|--|
| Outcome | Nun | Number of building permits per 10,000 inhabitants | | | | | | | | |
| Latest integration | 1999 | 2002 | 2004 | 2006 | 2008 | 2010 | | | | |
| Treatment | 8.141 | 7.865 | 7.505 | 7.306 | 7.318 | 7.396 | | | | |
| | (1.517) | (1.496) | (1.490) | (1.489) | (1.488) | (1.487) | | | | |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes | | | | |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | | | | |
| Observations | 245,940 | 335,685 | 389,325 | 407,010 | 415,815 | 426,495 | | | | |
| Mean DepVar | 64.836 | 64.836 | 64.836 | 64.836 | 64.836 | 64.836 | | | | |
| Sd DepVar | 90.844 | 90.844 | 90.844 | 90.844 | 90.844 | 90.844 | | | | |

Table B1.1: Housing supply

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Column 1 reproduces the baseline estimate as reported in the paper, using as control group municipalities integrated since 1999. The next columns include in the control group all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively.

Table B1.2: Daycare: Rural municipalities

| | (1) | (2) | (3) | (4) | (5) | (6) | | | |
|--------------------|--|---------|---------|---------|---------|---------|--|--|--|
| Outcome | Number of daycare spots per 10,000 inhabitants | | | | | | | | |
| Latest integration | 1999 | 2002 | 2004 | 2006 | 2008 | 2010 | | | |
| Treatment | -1.001 | -0.969 | -1.027 | -1.091 | -1.059 | -1.019 | | | |
| | (0.463) | (0.437) | (0.437) | (0.434) | (0.431) | (0.430) | | | |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Observations | 153,216 | 210,816 | 245,412 | 256,680 | 262,704 | 270,180 | | | |
| Mean DepVar | 3.617 | 3.617 | 3.617 | 3.617 | 3.617 | 3.617 | | | |
| Sd DepVar | 31.900 | 31.900 | 31.900 | 31.900 | 31.900 | 31.900 | | | |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The sample includes only rural municipalities. The outcome is the number of daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007–2018. Column 1 reproduces the baseline estimate as reported in the paper, using as a control group municipalities integrated since 1999. The next columns include in the control group all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively.

| | (1) | (2) | (3) | (4) | (5) | (6) | | | |
|--------------------|---|---------|---------|---------|---------|---------|--|--|--|
| Outcome | Number of public libraries per 10,000 inhabitants | | | | | | | | |
| Latest integration | 1999 | 2002 | 2004 | 2006 | 2008 | 2010 | | | |
| Treatment | -1.248 | -1.340 | -1.475 | -1.501 | -1.500 | -1.483 | | | |
| | (0.620) | (0.617) | (0.615) | (0.614) | (0.614) | (0.614) | | | |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Observations | 11,020 | 14,820 | 18,170 | 18,960 | 19,030 | 19,580 | | | |
| Mean DepVar | 5.277 | 5.277 | 5.277 | 5.277 | 5.277 | 5.277 | | | |
| Sd DepVar | 10.983 | 10.983 | 10.983 | 10.983 | 10.983 | 10.983 | | | |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) The sample includes only rural municipalities. The outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population). The period of analysis is 2009–2018 and the sample is restricted to the 7 départements for which data are available starting in 2009. Column 1 reproduces the baseline estimate as reported in the paper, using as a control group municipalities integrated since 1999. The next columns include in the control group all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively.

Table B1.4: Public transport

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------|---------|---------|-------------|-------------|---------|---------|
| Outcome | | Ad | ccess to pu | blic transp | ort | |
| Latest integration | 1999 | 2002 | 2004 | 2006 | 2008 | 2010 |
| Treatment | 0.032 | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 |
| | (0.007) | (0.007) | (0.007) | (0.007) | (0.007) | (0.007) |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 221,368 | 304,178 | 350,938 | 364,994 | 372,918 | 382,088 |
| Mean DepVar | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| Sd DepVar | 0.152 | 0.152 | 0.152 | 0.152 | 0.152 | 0.152 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) The outcome is an indicator variable equal to one if the municipality has access to public transport. The sample excludes municipalities in the Parisian region of Île-de-France, for which the data are not available. Column 1 reproduces the baseline estimate as reported in the paper, using as a control group municipalities integrated since 1999. The next columns include in the control group all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively.

Table B1.5: Fiscal revenues

| | (1) | (2) | (3) | (4) | (5) | (6) |
|--------------------|---------|---------|-------------|-------------|---------|---------|
| Outcome | | Fi | scal revenu | ies per cap | ita | |
| Latest integration | 1999 | 2002 | 2004 | 2006 | 2008 | 2010 |
| Treatment | 101.2 | 102.6 | 101.0 | 101.1 | 100.0 | 98.2 |
| | (4.8) | (4.8) | (4.7) | (4.7) | (4.7) | (4.7) |
| Municipality FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Observations | 244,965 | 334,335 | 387,630 | 405,195 | 413,970 | 424,650 |
| Mean DepVar | 698.6 | 698.6 | 698.6 | 698.6 | 698.6 | 698.6 |
| Sd DepVar | 430.0 | 430.0 | 430.0 | 430.0 | 430.0 | 430.0 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010) The outcome is the municipality's total fiscal revenues per capita, as defined in Section V.B. I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample). Column 1 reproduces the baseline estimate as reported in the paper, using as a control group municipalities integrated since 1999. The next columns include in the control group all municipalities integrated since 2002, 2004, 2006, 2008, and 2010, respectively.

B2. Clusters at the IC level

Table B2.1: Housing supply

| | (1) | (2) | (3) |
|-----------------|--------------|------------|---------|
| Outcome | Number of | building p | ermits |
| Cluster | Municipality | IC 2014 | IC 2018 |
| Treatment | 8.141 | 8.141 | 8.141 |
| | (1.517) | (2.250) | (2.344) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 245,940 | 245,940 | 245,940 |
| Mean DepVar | 64.836 | 64.836 | 64.836 |
| Sd DepVar | 90.844 | 90.844 | 90.844 |

Notes: Standard errors are in parentheses. , , and indicate significance at 1%, 5%, and 10% respectively. In Column 1, standard errors are clustered at the municipality level. In Column 2 (resp. 3), standard errors are clustered at the IC level, considering the IC the municipality belongs to in 2014 (resp. 2018). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population).

| | (1) | (2) | (3) | | (4) | (5) | (6) |
|-----------|--------------|------------|---------|---|--------------|--------------|---------|
| Outcome | Day | care spots | | | Publ | ic libraries | |
| Cluster | Municipality | IC 2014 | IC 2018 | - | Municipality | IC 2014 | IC 2018 |
| Treatment | -1.001 | -1.001 | -1.001 | - | -1.248 | -1.248 | -1.248 |
| | (0.463) | (0.531) | (0.533) | | (0.620) | (0.474) | (0.478) |
| Mun FE | Yes | Yes | Yes | | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | | Yes | Yes | Yes |
| Obs. | 153,216 | 153,216 | 153,216 | | 11,020 | 11,020 | 11,020 |
| Mean | 3.617 | 3.617 | 3.617 | | 5.277 | 5.277 | 5.277 |
| Sd | 31.900 | 31.900 | 31.900 | | 10.983 | 10.983 | 10.983 |

Table B2.2: Local public services: Rural municipalities

Notes: Standard errors are in parentheses. , , and indicate significance at 1%, 5%, and 10% respectively. In Column 1, standard errors are clustered at the municipality level. In Column 2 (resp. 3), standard errors are clustered at the IC level, considering the IC the municipality belongs to in 2014 (resp. 2018). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). In Columns 1 to 3, the outcome is the number of daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007–2018. In Columns 4 to 6, the outcome is the number of public libraries in the municipality per 10,000 inhabitants (using the 2010 population), the period of analysis is 2009–2018, and the sample is restricted to the 7 départements for which data are available starting in 2009.

(2)(5) (1)(3) (4) Outcome Access to public transport Fiscal revenues per capita IC 2014 Municipality IC 2014 Cluster Municipality IC 2018 Treatment 0.032 0.032 0.032 101.2 101.2 (0.007)(0.013)(0.012)(4.813)(9.073)Mun FE Yes Yes Yes Yes Yes

Yes

221,368

0.024

0.152

(6)

IC 2018

101.2

(9.027)

Yes

Yes

244,965

698.6

430.0

Yes

244,965

698.6

430.0

Table B2.3: Public transport and fiscal revenues

Yes

221,368

0.024

0.152

Time FE

Obs.

Mean

Sd

Notes: Standard errors are in parentheses. , , and indicate significance at 1%, 5%, and 10% respectively. In Column 1, standard errors are clustered at the municipality level. In Column 2 (resp. 3), standard errors are clustered at the IC level, considering the IC the municipality belongs to in 2014 (resp. 2018). The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). In Columns 1 to 3, the outcome is an indicator variable equal to 1 if the municipality has access to public transport and the sample excludes municipalities in the Parisian region of Île-de-France, for which the data are not available. In Columns 4 to 6, the outcome is the municipality's total fiscal revenues per capita, as defined in Section V.B, and I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample).

Yes

221,368

0.024

0.152

Yes

244,965

698.6

430.0

B3. Matching

I test the robustness of the main results to using kernel-based propensity score matching. I use the Stata "diff" package to perform the matching (Villa, 2016) and I match control and treated municipalities based on the socio-demographic characteristics available in the 2008 census, which applies to the year 2010. The variables used are the following: the number of inhabitants; population growth since 1999; population density; whether the municipality is urban; whether it belongs to an urban area; whether it belongs to the core of the urban area; the share of immigrants; the share of unemployed workers; the share of students; the share of the population included in the labor force; the share of the population below 5 years old, between 15 and 64 years old, and above 65 years old; the average number of children per family; the share of the active population being farmers, craftsperson, executives, temporary employed, full-time employed, workers, retired, or others; the share of the population with no diploma, holding a primary school certificate (CEP), holding a secondary education diploma (BEPC), holding a certificate of vocational aptitude (CAP or BEP), holding the baccalaureate, who completed two years after the baccalaureate, or with higher education; and the per capita residents' annual taxable income.

In Tables B3.1 and B3.2, I report the differences between the control and treatment groups along with the t-tests for each variable, with and without using matching, respectively. The next tables provide the estimates. The first column gives the baseline estimate, the second column the estimate obtained using kernel-based propensity score matching, and the third column the estimate using matching on the common support of the propensity score. Given the very small sample for which library data are available, the analysis for public services is restricted to daycare.

| | Mean treatment | Mean control | Difference (T-C) | P-value |
|---------------------|----------------|--------------|------------------|---------|
| population | 1,640 | 1,959 | -319 | 0.048 |
| Δ population | 0.102 | 0.100 | 0.002 | 0.596 |
| density | 162.0 | 156.3 | 5.8 | 0.709 |
| urban mun | 0.204 | 0.223 | -0.019 | 0.108 |
| urban area | 0.637 | 0.614 | 0.022 | 0.107 |
| core urban area | 0.091 | 0.119 | -0.028 | 0.001 |
| immigrants | 0.044 | 0.036 | 0.008 | 0.000 |
| unemployed | 0.082 | 0.088 | -0.005 | 0.000 |
| students | 0.077 | 0.078 | -0.001 | 0.243 |
| labor force | 0.738 | 0.731 | 0.008 | 0.000 |
| below 5 y/o | 0.060 | 0.062 | -0.002 | 0.001 |
| 15-64 y/o | 0.639 | 0.633 | 0.006 | 0.000 |
| above 65 y/o | 0.170 | 0.176 | -0.006 | 0.002 |
| av. # children | 0.904 | 0.907 | 0.003 | 0.685 |
| farmers | 0.036 | 0.038 | -0.001 | 0.328 |
| craftsperson | 0.041 | 0.037 | 0.004 | 0.000 |
| executives | 0.070 | 0.052 | 0.019 | 0.000 |
| part-time employed | 0.133 | 0.125 | 0.008 | 0.000 |
| full-time employed | 0.153 | 0.155 | -0.002 | 0.154 |
| workers | 0.152 | 0.169 | -0.017 | 0.000 |
| retired | 0.280 | 0.286 | -0.006 | 0.036 |
| others | 0.134 | 0.139 | -0.004 | 0.010 |
| no diploma | 0.172 | 0.185 | -0.013 | 0.000 |
| CEP certificate | 0.139 | 0.146 | -0.007 | 0.000 |
| BEPC | 0.061 | 0.060 | 0.001 | 0.158 |
| CAP or BEP | 0.271 | 0.279 | -0.007 | 0.000 |
| baccalaureate | 0.156 | 0.153 | 0.004 | 0.002 |
| bac + 2 years | 0.112 | 0.107 | 0.005 | 0.000 |
| high education | 0.088 | 0.072 | 0.017 | 0.000 |
| residents' income | 14,064 | 12,488 | 1,575 | 0.000 |

Table B3.1: T-tests without matching

Notes: Data on the municipal population, age, education, and occupational composition come from the 2008 census, which applies to the year 2010. The variation in the population (line 2) is computed as the variation in the number of inhabitants between the 1999 and 2008 censuses. Indicator variables for whether the municipality is urban, part of an urban area, or located in the urban core are based on the INSEE 2010 classification. , , and indicate significance at 1%, 5%, and 10% respectively.

| | Mean treatment | Mean control | Difference (T-C) | P-value |
|---------------------|----------------|--------------|------------------|---------|
| population | 1,640 | 1,579 | 61 | 0.668 |
| Δ population | 0.102 | 0.104 | -0.002 | 0.731 |
| density | 162.0 | 146.9 | 15.1 | 0.331 |
| urban mun | 0.204 | 0.200 | 0.004 | 0.748 |
| urban area | 0.637 | 0.625 | 0.011 | 0.426 |
| core urban area | 0.091 | 0.092 | -0.001 | 0.913 |
| immigrants | 0.044 | 0.044 | 0.001 | 0.556 |
| unemployed | 0.082 | 0.084 | -0.002 | 0.160 |
| students | 0.077 | 0.077 | 0.001 | 0.388 |
| labor force | 0.738 | 0.737 | 0.002 | 0.356 |
| below 5 y/o | 0.060 | 0.061 | -0.000 | 0.506 |
| 15-64 y/o | 0.639 | 0.638 | 0.001 | 0.326 |
| above 65 y/o | 0.170 | 0.172 | -0.002 | 0.315 |
| av. # children | 0.900 | 0.907 | 0.007 | 0.341 |
| farmers | 0.036 | 0.037 | -0.001 | 0.440 |
| craftsperson | 0.041 | 0.040 | 0.001 | 0.195 |
| executives | 0.070 | 0.064 | 0.006 | 0.001 |
| part-time employed | 0.133 | 0.131 | 0.002 | 0.231 |
| full-time employed | 0.153 | 0.154 | -0.001 | 0.559 |
| workers | 0.152 | 0.157 | -0.005 | 0.022 |
| retired | 0.280 | 0.281 | -0.002 | 0.554 |
| others | 0.134 | 0.135 | -0.001 | 0.686 |
| no diploma | 0.172 | 0.177 | -0.004 | 0.041 |
| CEP certificate | 0.139 | 0.141 | -0.002 | 0.176 |
| BEPC | 0.061 | 0.060 | 0.000 | 0.680 |
| CAP or BEP | 0.271 | 0.275 | -0.003 | 0.070 |
| baccalaureate | 0.156 | 0.155 | 0.001 | 0.367 |
| bac + 2 years | 0.112 | 0.110 | 0.002 | 0.088 |
| high education | 0.088 | 0.082 | 0.006 | 0.004 |
| residents' income | 14,064 | 13,669 | 395 | 0.012 |

 Table B3.2: T-tests with matching

Notes: Data on the municipal population, age, education, and occupational composition come from the 2008 census, which applies to the year 2010. The variation in the population (line 2) is computed as the variation in the number of inhabitants between the 1999 and 2008 censuses. Indicator variables for whether the municipality is urban, part of an urban area, or located in the urban core are based on the INSEE 2010 classification. , , and indicate significance at 1%, 5%, and 10% respectively.

Table B3.3: Housing

| | (1) | (2) | (3) |
|-----------------|---------|-------------|----------------|
| Outcome | Nur | nber of bui | lding permits |
| Matching | No | Yes | Common support |
| Treatment | 8.141 | 7.152 | 7.269 |
| | (1.517) | (1.634) | (1.624) |
| Municipality FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Observations | 245,940 | 245,730 | 245,520 |
| Mean DepVar | 64.836 | 64.836 | 64.836 |
| Sd DepVar | 90.844 | 90.844 | 90.844 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the full treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). In Column 2, the analysis used propensity score matching. Column 3 repeats the same exercise on the common support of the propensity score.

| | (1) | (2) | (3) |
|-----------|---------|---------|----------------|
| Outcome | | Daycar | e spots |
| Matching | No | Yes | Common support |
| Treatment | -1.001 | -0.776 | -0.777 |
| | (0.463) | (0.490) | (0.491) |
| Mun FE | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes |
| Obs. | 153,216 | 153,024 | 152,772 |
| Mean | 3.617 | 3.617 | 3.617 |
| Sd | 31.900 | 31.900 | 31.900 |

Table B3.4: Daycare: Rural municipalities

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the full treatment group during the pre-reform period (before 2010). The sample includes only rural municipalities. The outcome is the number of daycare spots in the municipality per 10,000 inhabitants (using the 2010 population) and the period of analysis is 2007–2018. In Column 2, the analysis uses propensity score matching. Column 3 repeats the same exercise on the common support of the propensity score.

 Table B3.5: Public transport and fiscal revenues

| | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------|---------|-------------|------------------|---------|-------------|------------------|
| Outcome | A | ccess to pu | blic transport | Fi | scal revenu | ies per capita |
| Matching | No | Yes | + common support | No | Yes | + common support |
| Treatment | 0.032 | 0.032 | 0.032 | 101.2 | 94.85 | 94.81 |
| | (0.007) | (0.007) | (0.007) | (4.813) | (5.114) | (5.119) |
| Mun FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes |
| Obs. | 221,368 | 221,088 | 220,612 | 244,965 | 244,755 | 244,530 |
| Mean | 0.024 | 0.024 | 0.024 | 698.6 | 698.6 | 698.6 |
| Sd | 0.152 | 0.152 | 0.152 | 430.0 | 430.0 | 430.0 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the full treatment group during the pre-reform period (before 2010). In Columns 1 to 3, the outcome is an indicator variable equal to 1 if the municipality has access to public transport and the sample excludes municipalities in the Parisian region of Île-de-France, for which the data are not available. In Columns 4 to 6, the outcome is the municipality's total fiscal revenues per capita, as defined in Section V.B, and I exclude from the analysis the few municipalities for which the data are missing for at least one year over the period 2004–2018 (0.4 percent of the sample). In Columns 2 and 4, the analysis uses propensity score matching. Columns 3 and 6 repeats the same exercise on the common support of the propensity score.

B4. Placebo tests

In this section, I test the impact of a series a placebo reforms. I consider only the pre-treatment period from 2004 to 2010 and I run the same specification as the one described in Section II.C, pretending that the law passed in 2005, 2006, 2007, 2008, or 2009. The graph below provides the estimates obtained for each placebo reform, along with the impact of the true reform (first coefficient on each graph). Unfortunately, I cannot run these placebo tests on daycare and public libraries, given the few pre-treatment periods I have in the data. This analysis is thus restricted to the number of building permits, access to public transport, and fiscal revenues.

As seen Figure B4, no coefficient associated with placebo reforms is significant at the standard level for the number of building permits. For public transport and fiscal revenues, consistent with the presence of decreasing pre-trends (see Section V), the placebo estimates are significant but negative, which contrasts with the positive effect of the true reform. All in all, these results support the fact that the main results are capturing the impact of the 2010 law rather than the impact of factors that systematically affect treated and control municipalities differently.

Figure B4: Placebo tests



Notes: The figure shows the impact of a series of placebo reforms on the number of building permits, the probability of access to public transport, and fiscal revenues. In each graph, the first coefficient refers to the impact of the 2010 law, while the other estimates give the impact of a placebo reform implemented in 2005, 2006, 2007, 2008, and 2009, respectively. When estimating the impact of the placebo reforms, I include only the pre-treatment period from 2004 to 2010. Horizontal lines are 95-percent-confidence intervals.

B5. Alternative control groups

| | (1) | (2) | (3) | (4) | (5) |
|-----------------|---------|-------------|------------|--------------|-----------|
| Outcome | Number | of building | permits pe | er 10,000 in | habitants |
| Control group | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 |
| Treatment | 8.141 | 8.547 | 11.249 | 8.511 | 11.557 |
| | (1.517) | (1.537) | (1.637) | (1.524) | (1.638) |
| Municipality FE | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes |
| Observations | 245,940 | 190,410 | 75,825 | 224,310 | 74,040 |
| Mean DepVar | 64.836 | 64.836 | 64.836 | 64.836 | 64.836 |
| Sd DepVar | 90.844 | 90.844 | 90.844 | 90.844 | 90.844 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). In Column 1, the control group is the one used in the baseline estimation, including all municipalities integrated since 1999 (Group 1). In Column 2, I exclude from the control group all municipalities that were part of an IC that received a treated municipalities whose IC had changed since 1999 and until 2014, as a result of the 2010 law (Group 3). In Column 4, I exclude control municipalities that share a border with a treated municipality (Group 4). In Column 5, I exclude both control municipalities whose ICs changed and neighbors (Group 5).

| Dutcome | | | uj cur opo | | | | | | | |
|---------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---------|
| Control | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 |
| reat. | -1.001 | -0.781 | -1.048 | -0.922 | -1.127 | -1.248 | -1.418 | -1.417 | -1.276 | -1.423 |
| | (0.463) | (0.497) | (0.581) | (0.472) | (0.591) | (0.620) | (0.635) | (0.635) | (0.623) | (0.636) |
| Aun FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ïme FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|)bs. | 153,216 | 117,996 | 49,200 | 139,788 | 48,132 | 11,020 | 7,970 | 4,100 | 10, 140 | 4,030 |
| Aean | 3.617 | 3.617 | 3.617 | 3.617 | 3.617 | 5.277 | 5.277 | 5.277 | 5.277 | 5.277 |
| p | 31.900 | 31.900 | 31.900 | 31.900 | 31.900 | 10.983 | 10.983 | 10.983 | 10.983 | 10.983 |

| (| | | | | | | | | | | |
|---|--|---|---|--|--|--|---|--|---|--|--|
| 50 | Sd | 31.900 | 31.900 | 31.900 | 31.900 | 31.900 | 10.983 | 10.983 | 10.983 | 10.983 | 10.983 |
| Notes: The me The san inhabita in the n départen municip a treatec since 15 municip | Standard errors an of the depeinde includes c ints (using the final indicipality per ments for which adities integrate 1 municipality (99 and until 20 adity (Group 4) | s are in parer ndent variab only rural m 2010 popula r 10,000 inh h data are av ed since 1999 as a result of 014, as a res 014, as a res | theses and de gives the unicipalitie tition) and th tabitants (u: vailable star vailable star (2010 li) the 2010 li sult of the 2 1.5, I exclud | are cluster a average ol ss. In Colu he period o sing the 20 rting in 200 rting in 200 rting in 200 rting la Colum aw (Group (2010 law (C | f the outco f the outco imms 1 to 1 f analysis i 10 populat 9. In Colu 1, I exclu 2). In Colu 37. J froup 37. J | nunicipality le me variable i 3, the outcon is 2007–2018 iion), the per imn 1, the con ide from the c imn 3, I exclu In Column 4, palities whos | evel. , , and in the treatr ne is the nu . In Column iod of analy introl group control group ide more ger I exclude c e ICs change | indicate signation of the second structure of data as 4 to 6, the sis is 2009 is the one u p all municipally all control mun od and neight sid and neight second se | inificance a during the ycare spot e outcome -2018, and sed in the sed in the ipalities the ontrol mun icipalities the hbors (Gro | tr 1% , 5% , pre-reform is the num the sample baseline est tr were part icipalities v hat share a up 5). | and 10% respectively. period (before 2010). unicipality per 10,000 ther of public libraries e is restricted to the 7 timation, including all of an IC that received whose IC had changed t border with a treated |

Table B5.2: Local public services: Rural municipalities

| Outcome | | Access | to public ti | ansport. | | | Fiscal r | evenues pe | r capita | |
|---------|---------|---------|--------------|----------|---------|---------|----------|------------|----------|---------|
| Control | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 | Group 1 | Group 2 | Group 3 | Group 4 | Group 5 |
| Treat. | 0.032 | 0.036 | 0.058 | 0.033 | 0.058 | 101.2 | 98.16 | 101.2 | 101.0 | 101.7 |
| | (0.007) | (0.007) | (0.007) | (0.007) | (0.007) | (4.813) | (4.829) | (5.248) | (4.824) | (5.262) |
| Mun FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Obs. | 221,368 | 171,276 | 66,304 | 202,552 | 64,848 | 244,965 | 189,975 | 75,510 | 223,440 | 73,740 |
| Mean | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 698.6 | 698.6 | 698.6 | 698.6 | 698.6 |
| Sd | 0.152 | 0.152 | 0.152 | 0.152 | 0.152 | 430.0 | 430.0 | 430.0 | 430.0 | 430.0 |

| 61 | Sd | 0.152 | 0.152 | 0.152 | 0.152 | 0.152 | 430.0 | 430.0 | 430.0 | 430.0 | 430.0 |
|-------------|-------------------|--------------------------------|-------------------------|-------------------------------|---------------------------|-------------------------------------|--------------|-----------------------------|--------------------------|--|--|
| Notes: Sta | andard errors ; | are in parent | theses and | are clustere | d at the m | unicipality le | vel. , , and | indicate sig | nificance a | t 1%, 5%, a | and 10% respectively. |
| Columns | 1 to 5, the outco | ient variable ome is an ind | dicator van | average or u iable equal t | ne outcom o 1 if the n | le variable in l nunicipality ha | as access to | n group aur public trans | ang une presport and the | reiorm per control | riou (perore 2010). In scludes municipalities |
| in the Pari | isian region of | Île-de-Franc | ce, for which | ch the data a | re not avai | ilable. In Colu | imns 6 to 1 | 0, the outcor | me is the m | unicipality | 's total fiscal revenues |
| per capita | n, as defined in | 1 Section V. | B, and I e | xclude from | the analy | sis the few n | nnicipaliti | es for which | n the data | are missing | for at least one year |
| over the p | period 2004-20 | 018 (0.4 pei | rcent of th | e sample). | In Columi | n 1, the contr | ol group is | the one us | ed in the b | aseline esti | imation, including all |
| municipal | lities integrated | 1 since 1999 | (Group 1) |). In Column | 12, I exclu | ide from the c | ontrol grou | p all munici | palities tha | it were part | of an IC that received |
| a treated r | nunicipality as | s a result of | the 2010 l ⁵ | aw (Group 2 |). In Colu | mn 3, I exclue | le more gei | nerally all co | ontrol mun | icipalities w | vhose IC had changed |
| since 199 | 9 and until 20 | 14, as a resu | ult of the 2 | 2010 law (G. | roup 3). I | n Column 4, | I exclude c | ontrol muni | cipalities t | hat share a | border with a treated |
| municipal | lity (Group 4). | In Column | 5, I exclud | le both contr | ol municil | palities whose | ICs chang | ed and neigl | hbors (Gro | up 5). | |
| | | | | | | | | | | | |

Table B5.3: Public transport and fiscal revenues

C. Housing supply: Heterogeneity analysis

In the main text, I report the impact on housing supply obtained by splitting the full sample according to the median value of the heterogeneity variable I consider. In this section, I explore the heterogeneity of the treatment impact by estimating the following equation:

 $Y_{mt} = \alpha + \beta \mathbf{1}_{\{t > 2010\}} \mathbf{1}_{\{treated_m = 1\}} + \gamma Z_m \mathbf{1}_{\{treated_m = 1\}} + \eta Z_m \mathbf{1}_{\{t > 2010\}} + \psi Z_m \mathbf{1}_{\{t > 2010\}} \mathbf{1}_{\{treated_m = 1\}} + \delta_t + \theta_m + \varepsilon_{mt},$ (1)

where *m* stands for the municipality and *t* for the year. $1_{\{t>2010\}}$ is an indicator variable equal to 1 for 1 for years after the reform, starting in 2011. $1_{\{treated_m=1\}}$ is an indicator variable equal to 1 for municipalities that were isolated in 2010 and thus forced to join an IC (treatment group), and 0 for municipalities already integrated since 1999 (control group). δ_t and θ_m are time and municipality fixed effects, respectively. Z_m is the heterogeneity variable measured in 2010. I standardize each heterogeneity variable, subtracting its mean in the treatment group and dividing it by its standard error. As a result, in the tables below, the impact of the treatment β can be interpreted as the impact for a treated municipality with an average value of Z_m and ψ can be interpreted as the change in the treatment effect due to a one-standard-deviation increase in Z_m .

Table C1: Distance to the core of the urban area

| | (1) | (2) |
|-----------------|----------|----------------------------|
| Outcome | Number o | f housing building permits |
| Heterogeneity | Dis | stance to urban core |
| | Ratio | Log ratio |
| Treatment | 9.473 | 10.434 |
| | (1.913) | (1.918) |
| Interaction | -3.635 | -6.663 |
| | (1.906) | (2.011) |
| Municipality FE | Yes | Yes |
| Time FE | Yes | Yes |
| Observations | 121,560 | 121,350 |
| Mean DepVar | 63.195 | 63.195 |
| Sd DepVar | 85.954 | 85.954 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The sample includes only municipalities that are part of one urban area. It excludes municipalities outside of any urban areas or that are part of several urban areas, such that we cannot identify the core to which they are linked. The heterogeneity variable is the ratio between the municipality's Euclidean distance to the core divided by the average distance to the core of the other municipalities from the same urban area. The coordinates of the core are computed as the average coordinates of the different municipalities composing the core, weighted by their population. In Column 2, I consider the log of the ratio, thus excluding 14 municipalities in the control group that constitute the core of their urban area and for which the distance is thus 0.

Table C2: Residents' income

| | (1) |
|-----------------|------------------------------------|
| Outcome | Number of housing building permits |
| Heterogeneity | Residents' income |
| Treatment | 5.407 |
| | (1.560) |
| Interaction | 3.734 |
| | (1.856) |
| Municipality FE | Yes |
| Time FE | Yes |
| Observations | 245,700 |
| Mean DepVar | 64.780 |
| Sd DepVar | 90.330 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The heterogeneity variable is the per capita residents' annual taxable income in 2010. Data on taxable income in 2010 are missing for the 16 municipalities with the smallest populations.

Table C3: Housing density

For this heterogeneity test, in the second and forth columns, I also include the interaction between the treatment variable and the square value of the housing density. Indeed, even if we expect the impact on housing to be larger in denser municipalities, we might not expect the densest places to experience the largest increase, as they may be too dense for their housing supply to increase as much as elsewhere. As a result, the effect is likely to rise non monotonically with the housing density. The results confirm this hypothesis: while in the first column the interaction is close to zero and not significant, in the second column it is large and significant and the estimate associated to the interaction with the square value is negative and significant.

| | (1) | (2) | (3) | (4) |
|--------------------------|---------|-----------|------------------|------------------------|
| Outcome | | Number | of housing build | ling permits |
| Heterogeneity | | | Housing densit | ty |
| Sample | Urban a | rea - All | Urban area - | - part of CA or CU ICs |
| Treatment | 10.395 | 12.126 | 8.964 | 15.219 |
| | (1.787) | (1.838) | (4.129) | (4.582) |
| Interaction | -0.220 | 9.966 | -1.109 | 21.191 |
| | (1.896) | (3.636) | (2.988) | (8.912) |
| Interaction ² | | -1.435 | | -5.178 |
| | | (0.463) | | (1.993) |
| Municipality FE | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes |
| Observations | 151,500 | 151,500 | 39,180 | 39,180 |
| Mean DepVar | 63.660 | 63.660 | 66.201 | 66.201 |
| Sd DepVar | 85.197 | 85.197 | 89.274 | 89.274 |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The sample includes only municipalities inside an urban area. In columns 3 and 4 the sample is further restricted to municipalities that are part of a "CA" or "CU" IC in 2014 (standing for *Communauté d'Agglomération* and *Communauté Urbaine*). The heterogeneity variable is the number of housing units per square kilometer in 2010. In Columns 2 and 4, I also include the interaction between the treatment variable and the square of the housing density.

| | (1) | (2) | (3) | (4) | (5) |
|---------------|----------------|------------------|--------------------------|------------------|---------------------|
| Outcome | | Nu | mber of housing building | g permits | |
| Heterogeneity | Ratio revenues | Ratio immigrants | Ratio non-euro. imm. | Ratio unemployed | Vote-share distance |
| Treatment | 7.466 | 7.850 | 8.404 | 7.993 | 8.184 |
| | (1.517) | (1.513) | (1.514) | (1.518) | (1.517) |
| Interaction | 1.836 | -1.344 | 0.042 | 1.212 | 1.155 |
| | (1.590) | (2.210) | (1.713) | (1.666) | (1.889) |
| Mun. FE | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes |
| Obs. | 245,700 | 245,940 | 245,940 | 245,940 | 245,940 |
| Mean | 64.780 | 64.836 | 64.836 | 64.836 | 64.836 |
| Sd | 90.330 | 90.844 | 90.844 | 90.844 | 90.844 |

Table C4: Neighbors' characteristics: Département

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Each ratio (Columns 1 to 3) divides the value of the heterogeneity variable in the municipality by the average value in the other municipalities from the same département, weighted by their population. In Column 1, the heterogeneity variable used to compute the ratio is the residents' average annual taxable income. Data on taxable income in 2010 are missing for the 16 smallest municipalities. In Column 2 (resp. 3, 4), the heterogeneity variable is the share of all immigrants (resp. non-European immigrants, unemployed workers) in 2010. In Column 5, the heterogeneity variable is the absolute difference in the right-wing vote share in the 2007 presidential election, between the municipality and the other municipalities in the same département.

| | (1) | (2) | (3) | (4) | (5) |
|---------------|----------------|------------------|--------------------------|------------------|---------------------|
| Outcome | | Nu | mber of housing building | g permits | |
| Heterogeneity | Ratio revenues | Ratio immigrants | Ratio non-Euro. imm. | Ratio unemployed | Vote share distance |
| Treatment | 8.322 | 8.011 | 7.942 | 7.991 | 8.127 |
| | (1.514) | (1.517) | (1.527) | (1.518) | (1.523) |
| Interaction | 1.448 | 1.296 | 0.551 | 3.025 | -0.640 |
| | (1.646) | (1.705) | (1.502) | (1.590) | (2.030) |
| Mun. FE | Yes | Yes | Yes | Yes | Yes |
| Time FE | Yes | Yes | Yes | Yes | Yes |
| Obs. | 245,700 | 245,940 | 242,865 | 245,940 | 245,940 |
| Mean | 64.780 | 64.836 | 65.219 | 64.836 | 64.836 |
| Sd | 90.330 | 90.844 | 90.679 | 90.844 | 90.844 |

Table C5: Neighbors' characteristics: Direct neighbors

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). Each ratio (Columns 1 to 3) divides the value of the heterogeneity variable in the municipality by the average value in neighboring municipalities (defined as sharing a border), weighted by their population. In Column 1, the heterogeneity variable used to compute the ratio is the residents' average annual taxable income. Data on taxable income in 2010 are missing for the 16 smallest municipalities. In Column 2 (resp. 3, 4), the heterogeneity variable is the share of all immigrants (resp. non-European immigrants, unemployed workers) in 2010. In Column 5, the heterogeneity variable is the absolute difference in the right-wing vote share in the 2007 presidential election, between the municipality and the other municipalities in the same département. The ratio considering the share of non-European immigrants (Column 3) is missing for 205 municipalities for which neighboring municipalities had zero non-European immigrants.

Table C6: Share of homeowners

| (1) |
|------------------------------------|
| Number of housing building permits |
| Share of homeowners |
| 8.789 |
| (1.509) |
| -1.462 |
| (1.672) |
| Yes |
| Yes |
| 245,940 |
| 64.836 |
| 90.844 |
| |

Notes: Standard errors are in parentheses and are clustered at the municipality level. , , and indicate significance at 1%, 5%, and 10% respectively. The mean of the dependent variable gives the average of the outcome variable in the treatment group during the pre-reform period (before 2010). The outcome is the number of housing building permits delivered in the municipality per year per 10,000 inhabitants (using the 2010 population). The heterogeneity variable is the share of homeowners in the municipality in 2010.

D. Housing price indices

Description of the method

Following Combes et al. (2018), I built the housing price indices using official transaction records. These data come from an annual census conducted by the regional notary associations, which report the transactions of non-new dwellings. Although reporting is voluntary, it covers about 65 percent of all transactions. I built the indices separately for the Parisian region of Île-de-France and for the rest of France, as the two databases come from two distinct notary associations and do not use the same definitions for the dwellings' characteristics. The data are made available by the Ministry of Sustainable Development for every even year since 2000. They are available until 2014 for Île-de-France and 2016 for the rest of France.

I first run hedonic regressions, separately for houses and apartments. Following Gouriéroux and Laferrère (2009)'s and Musiedlak and Vignolles (2016)'s guidelines, I excluded some outliers from the transaction databases. Next, I regressed the log of the price per square meter of the dwelling on several characteristics. To build the baseline index, I regressed the log of the price per square meter on indicator variables for the quarter of the transaction and the construction period (Combes et al., 2018). I built a second index (which I refer to as the "augmented index") using additional characteristics. For houses, I added the floorspace, the size of the land, the number of rooms, bathrooms and floors; and whether the house has parking. For apartments, I added the floorspace, the floor on which it is located, the number of rooms and bathrooms, whether the building has an elevator, and whether the apartment has parking and a cellar.

While the price of the transaction is never missing, the floorspace is missing for 10 percent of the apartments and 36 percent of the houses. To compute the price per square meter, I replaced the missing floorspace by the average floorspace of an apartment or a house with the same number of rooms in the same département. Results are unchanged if I instead drop the transactions for which the floorspace is missing. Regarding the right-hand variables (the dwelling's characteristics), I replaced the missing values by the average of that variable and added an indicator variable equal to 1 if the variable was missing. I also centered all explanatory variables by subtracting the means and dividing by the standard errors.

After running the hedonic regressions, I computed the mean of the residuals over both houses and apartments for each year and municipality separately, after having added the regression constant. Since the explanatory variables are centered, we can interpret the resulting indices as the price per square meter of a reference dwelling.





Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the municipality housing price index giving the price per square meter of a reference dwelling. The sample includes all municipalities in which at least one housing transaction took place during the period studied. The graph on the left-hand side includes only municipalities in the Parisian region of Île-de-France, while the graph on the right-hand side includes all the other municipalities. On each graph, the average value of the price index in the treatment group before 2010 is displayed on the top left corner.

Figure D2: Impact on prices: Augmented index



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the municipality housing price index giving the price per square meter of a reference dwelling. For these graphs, I use an alternative version of the indices for which I include additional apartment and house characteristics in the hedonic regressions. The sample includes only municipalities in which at least one housing transaction took place each even year over the period studied. The graph on the left-hand side includes only municipalities in the Parisian region of Île-de-France, while the graph on the right-hand side includes all the other municipalities. On each graph, the average value of the price index in the treatment group before 2010 is displayed on the top left corner.

Figure D3: Impact on prices: Urban area



Notes: These graphs plot the estimates and 95-percent-confidence intervals from the leads-and-lags regression. The outcome is the municipality housing price index giving the price per square meter of a reference dwelling. The sample includes only municipalities that are part of an urban area and in which at least one housing transaction took place each even year over the period studied. The graph on the left-hand side includes only municipalities in the Parisian region of Île-de-France, while the graph on the right-hand side includes all the other municipalities. On each graph, the average value of the price index in the treatment group before 2010 is displayed on the top left corner.

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