SUPPLEMENTARY MATERIAL

Table S1: Distribution of business groups in Italy and Spain by industry.

| MACE D 2 | Ita | ıly | Spa | ain |
|---|--------|-------|--------|-------|
| NACE Rev. 2 | No. | % | No. | % |
| A – Agriculture, forestry and fishing | 523 | 1.8 | 275 | 1.6 |
| B – Mining and quarrying | 76 | 0.3 | 69 | 0.4 |
| C – Manufacturing | 9,791 | 33.9 | 3,691 | 22.1 |
| D – Electricity, gas, steam and air conditioning supply | 690 | 2.4 | 217 | 1.3 |
| E – Water supply; sewerage, waste management and remediation activities | 622 | 2.2 | 231 | 1.4 |
| F – Construction | 1,362 | 4.7 | 1,165 | 7.0 |
| G – Whole sale and retail trade; repair of motor vehicles and motorcycles | 7,580 | 26.2 | 5,110 | 30.6 |
| H – Transportation and storage | 1,659 | 5.7 | 936 | 5.6 |
| I – Accommodation and food service activities | 594 | 2.1 | 625 | 3.7 |
| J – Information and communication | 908 | 3.1 | 549 | 3.3 |
| K – Financial and insurance activities | 594 | 2.1 | 571 | 3.4 |
| L – Real estate activities | 864 | 3.0 | 909 | 5.4 |
| M – Professional, scientific and technical activities | 1,401 | 4.9 | 857 | 5.1 |
| N – Administrative and support service activities | 1,152 | 4.0 | 768 | 4.6 |
| O – Public administration and defence; compulsory social securities | 2 | 0.0 | 16 | 0.1 |
| P – Education | 64 | 0.2 | 104 | 0.6 |
| Q – Human health and social work activities | 727 | 2.5 | 291 | 1.7 |
| R – Arts, entertainment and recreation | 195 | 0.7 | 253 | 1.5 |
| S – Other service activities | 75 | 0.3 | 71 | 0.4 |
| Total | 28,879 | 100.0 | 16,708 | 100.0 |

Notes: Authors' elaboration on Amadeus database. Percentage values are defined on column totals.

Table S2: Distribution of business groups in Italy and Spain by manufacturing sector.

| NACE Rev. 2 | Ita | ıly | Sp | ain |
|---|-------|-------|-------|-------|
| NACE Rev. 2 | No. | % | No. | % |
| CA – Food, beverages and tobacco | 1,347 | 13.8 | 955 | 25.9 |
| CB – Textile, wearing apparel and accessories | 964 | 9.8 | 162 | 4.4 |
| CC – Wood and wood products; paper and printing | 492 | 5.0 | 252 | 6.8 |
| CD – Coke and refined petroleum products | 59 | 0.6 | 4 | 0.1 |
| CE – Chemicals and chemical products | 603 | 6.2 | 360 | 9.8 |
| CF – Pharmaceutical, chemical-medical and botanical products | 164 | 1.7 | 119 | 3.2 |
| CG – Rubber and plastic products, other non-metallic mineral products | 1,144 | 11.7 | 453 | 12.3 |
| CH – Basic metals and metal products, excluding machinery and plants | 1,633 | 16.7 | 481 | 13.0 |
| CI – Computer, electronic and optical products | 288 | 2.9 | 64 | 1.7 |
| CJ – Electrical products | 437 | 4.5 | 135 | 3.7 |
| CK – Machinery and equipment N.E.C. | 1,578 | 16.1 | 250 | 6.8 |
| CL – Transport | 388 | 4.0 | 291 | 7.9 |
| CM – Other manufacturing products | 694 | 7.1 | 165 | 4.5 |
| Total | 9,791 | 100.0 | 3,691 | 100.0 |

Notes: Authors' elaboration on Amadeus database. Percentage values are defined on column totals.

Table S3: Sample representativeness by country.

| | Ita | aly | Sp | ain | Total | | |
|---------------|-------|-------|-------|-------|-------|--------|--|
| | No. | % | No. | % | No. | % | |
| EFIGE Dataset | 2,983 | 51.73 | 2,783 | 48.27 | 5,766 | 100.00 | |
| Sample | 1,406 | 45.30 | 1,698 | 54.70 | 3,104 | 100.00 | |

Notes: Percentage values are defined on row totals.

Table S4: Sample representativeness by size class.

| Size Class | EFIGE Dataset | Sample |
|---------------------------|---------------|--------|
| Small (10-49 employees) | 80.80% | 78.45% |
| Medium (50-249 employees) | 14.27% | 15.63% |
| Large (≥ 250 employees) | 4.93% | 5.93% |

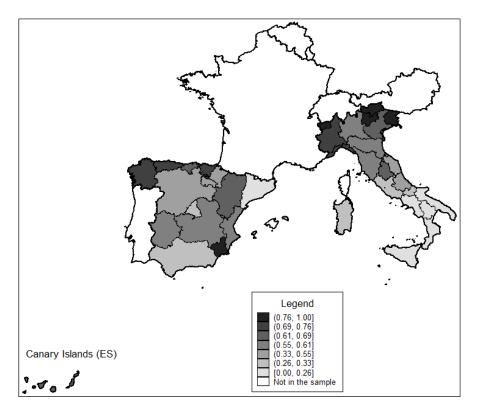
Notes: Percentage values refer to the total values of Italy and Spain.

Table S5: Sample distribution by manufacturing sector and country.

| NACE D 2 | Italy | | Sp | ain | To | otal |
|-------------|-------|--------|-------|--------|-------|--------|
| NACE Rev. 2 | No. | % | No. | % | No. | % |
| CA | 131 | 9.32 | 304 | 17.90 | 435 | 14.01 |
| CB | 183 | 13.02 | 89 | 5.24 | 272 | 8.76 |
| CC | 104 | 7.40 | 168 | 9.89 | 272 | 8.76 |
| CD | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| CE | 55 | 3.91 | 72 | 4.24 | 127 | 4.09 |
| CF | 15 | 1.07 | 12 | 0.71 | 27 | 0.87 |
| CG | 163 | 11.59 | 201 | 11.84 | 364 | 11.73 |
| CH | 334 | 23.76 | 381 | 22.44 | 715 | 23.03 |
| CI | 45 | 3.20 | 31 | 1.83 | 76 | 2.45 |
| CJ | 65 | 4.62 | 43 | 2.53 | 108 | 3.48 |
| CK | 163 | 11.59 | 193 | 11.37 | 356 | 11.47 |
| CL | 43 | 3.06 | 60 | 3.53 | 103 | 3.32 |
| CM | 105 | 7.47 | 144 | 8.48 | 249 | 8.02 |
| Total | 1,406 | 100.00 | 1,698 | 100.00 | 3,104 | 100.00 |

Notes: Percentage values are defined on column totals.

Figure S1: Spatial distribution of the regional institutional quality index.



Notes: The index of regional institutional quality is standardised in the interval [0, 1]. The darker the shade, the better the institutional environment of a region.

Table S6: Definition of the variables and data source.

| Variable | Definition | Source |
|---|---|----------------|
| ΔTurnover _{imrc} | Deflated turnover growth of firm i operating in industry m and located in region r in country c over the period 2010-2013 | EFIGE, Amadeus |
| ΔValue Added _{imrc} | Deflated value added growth of firm i operating in industry m and located in region r in country c over the period 2010-2013 | EFIGE, Amadeus |
| $\Delta Employment_{imrc}$ | Employment growth of firm i operating in industry m and located in region r in country c over the period 2010-2013 | EFIGE, Amadeus |
| $log(Turnover_{imrc})$ | Logarithm of firm-level deflated turnover in the year 2010 | EFIGE, Amadeus |
| log(Value Added _{imrc}) | Logarithm of firm-level deflated value added in the year 2010 | EFIGE, Amadeus |
| $log(Employment_{imrc})$ | Logarithm of firm-level employment in the year 2010 | EFIGE, Amadeus |
| Firm Type _{imrc} | Categorical variable for independent firm (value zero), national business group member (value one), and multinational business group member (value two) | EFIGE |
| Independent Firm _{imrc} | Dummy variable taking value one if a firm does not belong to a business group | EFIGE |
| National Group Member _{imrc} | Dummy variable taking value one if a firm belongs to a national business group | EFIGE |
| International Group Member _{imrc} | Dummy variable taking value one if a firm belongs to an international business group | EFIGE |
| $log(Age_{imrc})$ | Logarithm of firm-level age, defined as year 2010 minus the year of a firm's incorporation | EFIGE, Amadeus |
| Product Innovation _{imrc} | Dummy variable taking value one if a firm has introduced only product innovations in the period 2007-2009 | EFIGE |
| Process Innovation _{imrc} | Dummy variable taking value one if a firm has introduced only process innovations in the period 2007-2009 | EFIGE |
| Product & Process Innovation _{imrc} | Dummy variable taking value one if a firm has introduced product and process innovations in the period 2007-2009 | EFIGE |
| R&D _{imrc} | Dummy variable taking value one if a firm has invested in R&D activities in the period 2007-2009 | EFIGE |
| Investment _{imrc} | Dummy variable taking value one if a firm has invested in capital goods in the period 2007-2009 | EFIGE |
| Not Internationalised _{imrc} | Dummy variable taking value one if a firm was not internationalised in the period 2007-2009 | EFIGE |
| One Internationalisation Mode _{imrc} | Dummy variable taking value one if a firm relied on one internationalisation mode (import, export, production) in the period 2007-2009 | EFIGE |
| Two Internationalisation Mode _{imrc} | Dummy variable taking value one if a firm relied on two internationalisation modes (import, export, production) in the period 2007-2009 | EFIGE |
| Three Internationalisation Mode _{imrc} | Dummy variable taking value one if a firm relied on three internationalisation modes (import, export, production) in the period 2007-2009 | EFIGE |
| Credit Constrained _{imrc} | Dummy variable taking value one if a firm has asked for credit without receiving it in the year 2009 | EFIGE |
| $Institution_{rc}$ | Regional institutional quality index (rule of law, government effectiveness, voice and accountability, fight against corruption) | EQI |
| log(GDP Per Capita _{rc}) | Logarithm of regional Gross Domestic Product over regional population | Eurostat |
| $log(Population Density_{rc})$ | Logarithm of regional population per square kilometre | Eurostat |

Table S7: Descriptive statistics of dependent and continuous explanatory variables.

| | Mean | Standard Deviation | Minimum | Maximum |
|--|--------|--------------------|---------|---------|
| ΔTurnover _{imrc} | 0.064 | 0.678 | -7.145 | 8.251 |
| ΔValue Added _{imrc} | -0.089 | 0.535 | -6.621 | 3.751 |
| Δ Employment _{imrc} | -0.074 | 0.383 | -4.710 | 3.689 |
| log(Turnover _{imrc}) | 8.308 | 1.472 | 4.859 | 18.367 |
| log(Value Added _{imrc}) | 9.415 | 1.256 | 5.136 | 15.643 |
| log(Employment _{imrc}) | 3.464 | 0.967 | 2.303 | 8.837 |
| log(Age _{imrc}) | 3.044 | 0.571 | 1.099 | 4.700 |
| Institution _{rc} | 0.518 | 0.188 | 0.000 | 1.000 |
| log(GDP Per Capita _{rc}) | -3.644 | 0.228 | -4.111 | -3.262 |
| log(Population Density _{rc}) | 5.167 | 0.823 | 3.267 | 6.677 |

Table S8: Correlation matrix of explanatory variables.

| | | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] | [14] | [15] | [16] | [17] | [18] |
|---|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| log(Turnover _{imrc}) | [1] | 1.00 | | | | | | | | | | | | | | | | | |
| log(Value Added _{imrc}) | [2] | 0.91 | 1.00 | | | | | | | | | | | | | | | | |
| log(Employment _{imrc}) | [3] | 0.83 | 0.90 | 1.00 | | | | | | | | | | | | | | | |
| $log(Age_{imrc})$ | [4] | 0.17 | 0.17 | 0.13 | 1.00 | | | | | | | | | | | | | | |
| Product Innovation _{imrc} | [5] | 0.01 | -0.01 | 0.00 | 0.02 | 1.00 | | | | | | | | | | | | | |
| Process Innovation _{imrc} | [6] | -0.04 | -0.03 | -0.05 | -0.04 | -0.27 | 1.00 | | | | | | | | | | | | |
| Product & Process Innovation _{imrc} | [7] | 0.20 | 0.21 | 0.20 | 0.00 | -0.32 | -0.34 | 1.00 | | | | | | | | | | | |
| R&D _{imrc} | [8] | 0.25 | 0.26 | 0.22 | 0.04 | 0.13 | -0.03 | 0.32 | 1.00 | | | | | | | | | | |
| Investment _{imrc} | [9] | 0.08 | 0.12 | 0.13 | -0.02 | -0.06 | 0.11 | 0.12 | 0.13 | 1.00 | | | | | | | | | |
| One Internationalisation Mode _{imrc} | [10] | -0.04 | -0.05 | -0.07 | 0.04 | 0.03 | 0.05 | -0.02 | 0.00 | -0.02 | 1.00 | | | | | | | | |
| Two Internationalisation Mode _{imrc} | [11] | 0.26 | 0.25 | 0.22 | 0.06 | 0.06 | -0.08 | 0.17 | 0.20 | 0.05 | -0.50 | 1.00 | | | | | | | |
| Three Internationalisation Mode _{imrc} | [12] | 0.28 | 0.27 | 0.27 | 0.06 | 0.04 | -0.05 | 0.08 | 0.14 | 0.02 | -0.16 | -0.14 | 1.00 | | | | | | |
| Credit Constrained _{imrc} | [13] | -0.05 | -0.03 | 0.00 | -0.06 | -0.02 | -0.01 | 0.01 | -0.01 | 0.00 | -0.02 | 0.03 | 0.01 | 1.00 | | | | | |
| National Group Member _{imrc} | [14] | 0.22 | 0.23 | 0.23 | -0.04 | 0.00 | 0.00 | 0.05 | 0.10 | 0.02 | -0.02 | 0.09 | -0.01 | 0.04 | 1.00 | | | | |
| International Group Member _{imrc} | [15] | 0.42 | 0.44 | 0.43 | 0.03 | 0.02 | -0.06 | 0.10 | 0.12 | 0.03 | -0.08 | 0.11 | 0.33 | 0.00 | -0.11 | 1.00 | | | |
| Institution _{rc} | [16] | 0.05 | 0.04 | 0.03 | 0.03 | 0.00 | 0.02 | -0.03 | 0.04 | -0.02 | 0.02 | 0.01 | 0.01 | -0.02 | 0.03 | -0.01 | 1.00 | | |
| log(GDP Per Capita _{rc}) | [17] | 0.18 | 0.19 | 0.08 | 0.17 | 0.06 | -0.02 | 0.00 | 0.12 | -0.05 | 0.06 | 0.07 | 0.07 | -0.03 | -0.01 | 0.06 | 0.24 | 1.00 | |
| log(Population Density _{rc}) | [18] | 0.10 | 0.11 | 0.05 | 0.13 | 0.05 | -0.02 | -0.02 | 0.04 | -0.05 | 0.04 | 0.02 | 0.04 | 0.01 | -0.01 | 0.01 | -0.18 | 0.53 | 1.00 |

Table S9: Correlation between endogenous variables and instrumental variables.

| Instrumental Variable — | | Endogenous Variable | |
|---|---------------------------|---------------------------------------|--|
| Instrumental variable | Institution _{rc} | National Group Member _{imrc} | International Group Member _{imrc} |
| Literacy Rate ^{1870s} | 0.317 [0.000] | | ••• |
| $\log(\overline{\mathrm{Assets}}_{imrc}^{2003-2007})$ | ••• | 0.621 [0.000] | 0.713 [0.000] |
| Similarity to Type _{imrc} | | 0.468 [0.000] | 0.524 [0.000] |

Table S10: Correlation between dependent variables and instrumental variables.

| Instrumental Variable | Dependent Variable | | | | | |
|---|--------------------------|------------------------------|-------------------------------------|--|--|--|
| instrumentai variable | $\Delta Turnover_{imrc}$ | ΔValue Added _{imrc} | Δ Employment _{imrc} | | | |
| Literacy Rate ^{1870s} | 0.023 [0.202] | 0.029 [0.109] | 0.020 [0.278] | | | |
| $\log(\overline{\text{Assets}}_{imrc}^{2003-2007})$ | 0.007 [0.705] | 0.025 [0.165] | 0.006 [0.721] | | | |
| Similarity to Type _{imrc} | 0.008 [0.661] | 0.021 [0.235] | -0.022 [0.213] | | | |

Table S11: Premium of international business group members with respect to national business group members – OLS estimates.

| Dependent Variable | ΔTurnover _{imrc} | ΔValue Added _{imrc} | ΔEmployment _{imrc} |
|---|---------------------------|------------------------------|-----------------------------|
| | (1) | (2) | (3) |
| National Group Member _{imrc} | Ref. | Ref. | Ref. |
| International Group Member _{imrc} | 0.127** | 0.122*** | 0.051* |
| | (0.061) | (0.044) | (0.030) |
| Institutional Quality and Control Variables | Yes | Yes | Yes |
| Industry Dummies | Yes | Yes | Yes |
| Country Dummies | Yes | Yes | Yes |
| Number of Firms | 627 | 627 | 627 |
| \mathbb{R}^2 | 0.10 | 0.23 | 0.07 |
| Adjusted R ² | 0.06 | 0.19 | 0.06 |

Notes: * p < 0.1; *** p < 0.05; **** p < 0.01; **** p < 0.001. Standard errors are clustered at the NUTS-2 level, and are reported in parentheses. All specifications include a constant term. National group members are set as the reference category ("Ref.").

Table S12: Correlation between endogenous variables and IV for share of the ultimate owner.

| T., -4 | Endogenous Variable | | | | | |
|--------------------------------|---------------------------------------|--|--|--|--|--|
| Instrumental Variable | National Group Member _{imrc} | International Group Member _{imrc} | | | | |
| Ultimate Owner _{imrc} | 0.167 [0.000] | 0.265 [0.000] | | | | |

Table S13: Correlation between dependent variables and IV for share of the ultimate owner.

| Instrumental Variable – | Dependent Variable | | | |
|--------------------------------|---------------------------|------------------------------|-------------------------------------|--|
| | ∆Turnover _{imrc} | ΔValue Added _{imrc} | Δ Employment _{imrc} | |
| Ultimate Owner _{imrc} | 0.028 [0.123] | 0.053 [0.330] | 0.039 [0.295] | |

Table S14: TSLS estimates on turnover, value added, and employment growth with additional IV capturing the share of the ultimate owner.

| Dependent Variable | Δ Turnover _{imrc} | | ΔValue Added _{imrc} | | ΔEmployment _{imrc} | |
|---|-----------------------------------|---------------|------------------------------|---------------|-----------------------------|---------------|
| | (1) | (2) | (3) | (4) | (5) | (6) |
| Independent Firm _{imrc} | Ref. | Ref. | Ref. | Ref. | Ref. | Ref. |
| National Group Member _{imrc} | 0.009 | 0.172 | -0.014 | 0.195 | 0.004 | 0.575 |
| | (0.050) | (0.185) | (0.022) | (0.220) | (0.022) | (0.481) |
| International Group Member _{imrc} | 0.193*** | 0.558** | 0.113**** | 0.380** | 0.064*** | 0.401* |
| | (0.064) | (0.251) | (0.021) | (0.150) | (0.019) | (0.226) |
| Institution _{rc} | 0.379** | 0.424*** | 0.223** | 0.260*** | 0.232* | 0.211 |
| | (0.192) | (0.148) | (0.102) | (0.095) | (0.131) | (0.270) |
| Independent $Firm_{imrc} \times Institution_{rc}$ | | Ref. | ••• | Ref. | ••• | Ref. |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | ••• | -0.353 | ••• | -0.421 | ••• | -1.115 |
| | | (0.298) | | (0.394) | | (0.915) |
| $International\ Group\ Member_{imrc} \times Institution_{rc}$ | | -0.748* | ••• | -0.496* | ••• | -0.750* |
| | | (0.421) | | (0.255) | | (0.447) |
| Control Variables | Yes | Yes | Yes | Yes | Yes | Yes |
| Industry Dummies | Yes | Yes | Yes | Yes | Yes | Yes |
| Country Dummies | Yes | Yes | Yes | Yes | Yes | Yes |
| Number of Firms | 3,104 | 3,104 | 3,104 | 3,104 | 3,104 | 3,104 |
| \mathbb{R}^2 | 0.02 | 0.02 | 0.06 | 0.06 | 0.06 | 0.11 |
| Adjusted R ² | 0.02 | 0.01 | 0.05 | 0.05 | 0.05 | 0.10 |
| First-Stage F Statistic on Excluded IV [p-value] | | | | | | |
| Institution _{rc} | 13.97 [0.000] | 31.89 [0.000] | 27.97 [0.000] | 32.35 [0.000] | 19.40 [0.000] | 40.39 [0.000] |
| National Group Member _{imrc} | 51.42 [0.000] | 51.67 [0.000] | 62.16 [0.000] | 51.23 [0.000] | 50.19 [0.000] | 64.79 [0.000] |
| International Group Member _{imrc} | 47.30 [0.000] | 32.18 [0.000] | 46.63 [0.000] | 31.67 [0.000] | 48.06 [0.000] | 12.32 [0.000] |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | | 39.85 [0.000] | ••• | 39.75 [0.000] | | 92.48 [0.000] |
| International Group $Member_{imrc} \times Institution_{rc}$ | ••• | 26.20 [0.000] | ••• | 26.10 [0.000] | ••• | 11.38 [0.000] |
| Hansen J Statistic (p-value) | 0.396 | 0.103 | 0.131 | 0.504 | 0.205 | 0.553 |

Notes: * p < 0.1; *** p < 0.05; *** p < 0.01; **** p < 0.001. Standard errors are clustered at the NUTS-2 level, and are reported in parentheses. All specifications include a constant term. Independent firms are set as the reference category ("Ref.").

Table S15: TSLS estimates on turnover, value added, and employment growth removing highly collinear variables.

| Dependent Variable | ∆Turnover _{imrc} | ΔValue Added _{imrc} | ΔEmployment _{imrc} |
|---|---------------------------|------------------------------|-----------------------------|
| _ | (1) | (2) | (3) |
| Independent Firm _{imrc} | Ref. | Ref. | Ref. |
| National Group Member _{imrc} | 0.190 | 0.151 | 0.763 |
| | (0.294) | (0.222) | (0.449) |
| International Group Member _{imrc} | 0.779** | 0.381*** | 0.507** |
| | (0.354) | (0.147) | (0.194) |
| Institution _{rc} | 0.311 | 0.198** | 0.321 |
| | (0.230) | (0.088) | (0.238) |
| Independent $Firm_{imrc} \times Institution_{rc}$ | Ref. | Ref. | Ref. |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | -0.386 | -0.334 | -1.421 |
| | (0.531) | (0.394) | (0.855) |
| International Group Member _{imrc} \times Institution _{rc} | -1.138* | -0.476* | -0.842** |
| | (0.650) | (0.256) | (0.376) |
| Control Variables | Yes | Yes | Yes |
| Industry Dummies | Yes | Yes | Yes |
| Country Dummies | Yes | Yes | Yes |
| Number of Firms | 3,104 | 3,104 | 3,104 |
| \mathbb{R}^2 | 0.04 | 0.04 | 0.03 |
| Adjusted R ² | 0.03 | 0.04 | 0.02 |
| First-Stage F Statistic on Excluded IV [p-value] | | | |
| Institution _{rc} | 41.04 [0.000] | 41.12 [0.000] | 42.34 [0.000] |
| National Group Member _{imrc} | 70.69 [0.000] | 68.48 [0.000] | 72.09 [0.000] |
| International Group Member _{imrc} | 41.77 [0.000] | 39.41 [0.000] | 15.45 [0.000] |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | 55.26 [0.000] | 53.49 [0.000] | 19.26 [0.000] |
| International Group Member $_{imrc}$ × Institution $_{rc}$ | 34.09 [0.000] | 32.73 [0.000] | 13.19 [0.000] |
| Hansen J Statistic (p-value) | 0.918 | 0.654 | 0.672 |

Notes: * p < 0.1; *** p < 0.05; *** p < 0.01; **** p < 0.001. Standard errors are clustered at the NUTS-2 level, and are reported in parentheses. All specifications include a constant term. Independent firms are set as the reference category ("Ref.").

Table S16: TSLS estimates on turnover and value added controlling for size dummies.

| Dependent Variable | ΔTurnover _{imrc} | ΔValue Added _{imrc} | |
|---|---------------------------|------------------------------|--|
| | (1) | (2) | |
| Independent Firm _{imrc} | Ref. | Ref. | |
| National Group Member _{imrc} | 0.198 | 0.149 | |
| | (0.241) | (0.222) | |
| International Group Member _{imrc} | 0.506** | 0.364** | |
| | (0.202) | (0.151) | |
| Institution _{rc} | 0.352 | 0.203** | |
| | (0.304) | (0.091) | |
| Independent $Firm_{imrc} \times Institution_{rc}$ | Ref. | Ref. | |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | -0.392 | -0.336 | |
| | (0.464) | (0.392) | |
| International Group Member _{imrc} \times Institution _{rc} | -0.666** | -0.458* | |
| | (0.336) | (0.259) | |
| Control Variables | Yes | Yes | |
| Industry Dummies | Yes | Yes | |
| Country Dummies | Yes | Yes | |
| Number of Firms | 3,104 | 3,104 | |
| \mathbb{R}^2 | 0.03 | 0.04 | |
| Adjusted R ² | 0.02 | 0.04 | |
| First-Stage F Statistic on Excluded IV [p-value] | | | |
| Institution _{rc} | 41.26 [0.000] | 41.44 [0.000] | |
| National Group Member _{imrc} | 64.51 [0.000] | 64.20 [0.000] | |
| International Group Member _{imrc} | 34.92 [0.000] | 34.62 [0.000] | |
| National Group Member _{imrc} × Institution _{rc} | 50.13 [0.000] | 49.96 [0.000] | |
| International Group Member $_{imrc}$ × Institution $_{rc}$ | 28.56 [0.000] | 28.55 [0.000] | |
| Hansen J Statistic (p-value) | 0.890 | 0.639 | |

Notes: * p < 0.1; ** p < 0.05; *** p < 0.01; **** p < 0.001. Standard errors are clustered at the NUTS-2 level, and are reported in parentheses. All specifications include a constant term. Independent firms are set as the reference category ("Ref.").

Table S17: Probit and IV-LPM estimates on innovativeness.

| Dependent Variable | Innovativeness _{imrc} | | | |
|---|--------------------------------|-----------|---------------|---------------|
| Estimation Method | Pı | robit | IV-I | LPM |
| | (1) | (2) | (3) | (4) |
| Independent Firm _{imrc} | Ref. | Ref. | Ref. | Ref. |
| National Group Member _{imrc} | 0.136 | 0.138 | 0.044 | 0.536 |
| | (0.099) | (0.085) | (0.039) | (0.368) |
| International Group Member _{imrc} | 0.166* | 0.222** | 0.056* | 0.992**** |
| | (0.099) | (0.106) | (0.034) | (0.071) |
| Institution _{rc} | 0.180* | 0.226**** | 0.156* | 0.702**** |
| | (0.108) | (0.049) | (0.092) | (0.094) |
| Independent Firm _{imrc} \times Institution _{rc} | | Ref. | | Ref. |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | | -0.156 | | -0.996 |
| | | (0.110) | | (0.690) |
| International Group Member $_{imrc}$ × Institution $_{rc}$ | | -0.253* | | -1.877**** |
| | | (0.149) | | (0.033) |
| Control Variables | Yes | Yes | Yes | Yes |
| Industry Dummies | Yes | Yes | Yes | Yes |
| Country Dummies | Yes | Yes | Yes | Yes |
| Number of Firms | 3,104 | 3,104 | 3,104 | 3,104 |
| Pseudo R ² | 0.15 | 0.15 | | |
| R^2 | | ••• | 0.70 | 0.72 |
| Adjusted R ² | ••• | ••• | 0.69 | 0.72 |
| First-Stage F Statistic on Excluded IV [p-value] | | | | |
| Institution _{rc} | | ••• | 32.02 [0.000] | 17.46 [0.000] |
| National Group Member _{imrc} | | ••• | 68.60 [0.000] | 48.00 [0.000] |
| International Group Member _{imrc} | ••• | ••• | 70.56 [0.000] | 92.51 [0.000] |
| National Group Member $_{imrc}$ × Institution $_{rc}$ | | | | 34.61 [0.000] |
| $International \ Group \ Member_{imrc} \times Institution_{rc}$ | | | ••• | 88.17 [0.000] |
| Hansen J Statistic (p-value) | | | ••• | 0.447 |

Notes: *p < 0.1; *** p < 0.05; **** p < 0.01; **** p < 0.001. Standard errors are clustered at the NUTS-2 level, and are reported in parentheses. All specifications include a constant term. Independent firms are set as the reference category ("Ref.").