Submitted to *Econometrica*

| 1 | ONI INE APPENDIX TO | 1 |
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| 2 | "MAKING SUBSIDIES WORK, DUI ES VS. DISCRETION" | 2 |
| 2 | MARINO SUBSIDIES WORK. RULES VS. DISCRETION | 3 |
| 5 | FEDERICO CINGANO | 5 |
| 4 | Bank of Italy | 4 |
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performed according to Cattaneo, Crump, Farrell & Feng (2024).



²⁹ and robust bias-corrected 95% confidence intervals (shaded areas), computed according to Cattaneo, Jansson &
³⁰ Ma (2020), are also reported in the figure.



are also shown by vertical lines. The predicted relationships between each variable and the score are estimated using a quadratic polynomial regression, controlling for cell-specific fixed effects. 90% confidence bands for the
predicted relationship (in gray) are computed based on heteroskedasticity-robust standard errors clustered by cell. 25







quadratic polynomial regression, controlling for cell-specific fixed effects. 90% confidence bands for the pre dicted relationship (in gray) are computed based on heteroskedasticity-robust standard errors clustered by cell.

















calls 1 and 2) and after (transparent bars, call 3) the introduction of political discretion. Only auctions concerning
industry are included.



Applicants "high on rules" ("low on rules") are those in the top (bottom) quintile of the objective sub-score SR; 28 similarly, applicants "high on discretion" ("low on discretion") are those in the top (bottom) quintile of the discretionary sub-score SD. In practice, the four estimates in each graph refer to the four "corners" of the heatmaps ²⁹

in Figure 8, and 90% confidence intervals are bootstrapped as in Online Appendix Table A8.

11

A ADDITIONAL FIGURES AND TABLES



the choice of the optimal number of bins are performed according to Cattaneo, Crump, Farrell & Feng (2024). $_{30}$

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|----------------------|---------|---------|------------|---------|---------|---------|---------|------------|--|
| Specification: | (-) | lin | ear | (1) | (2) | quad | Iratic | (*) | |
| Kernel | | form | triangular | | unif | uniform | | triangular | |
| Group fixed offects | | | | | | | | Sulai | |
| Stoup fixed effects | 110 | yes | 110 | yes | 110 | yes | 110 | yes | |
| og-employment | 0.044 | 0.002 | 0.027 | 0.006 | 0.000 | 0.017 | 0.020 | 0.026 | |
| | (0.043) | (0.034) | (0.04) | (0.034) | (0.048) | (0.04) | (0.048) | (0.04) | |
| | [0.721] | [0.995] | [0.92] | [0.989] | [0.999] | [0.959] | [0.912] | [0.871] | |
| og-change employment | 0.016 | 0.013 | 0.009 | 0.011 | -0.001 | 0.005 | 0.010 | 0.016 | |
| | (0.013) | (0.014) | (0.014) | (0.015) | (0.018) | (0.018) | (0.019) | (0.019) | |
| | [0.721] | [0.887] | [0.92] | [0.906] | [0.998] | [0.959] | [0.912] | [0.871] | |
| og-revenues | -0.071 | -0.004 | -0.102 | -0.041 | -0.151 | -0.094 | -0.120 | -0.076 | |
| | (0.06) | (0.049) | (0.061) | (0.051) | (0.078) | (0.063) | (0.079) | (0.064) | |
| | [0.721] | [0.995] | [0.486] | [0.906] | [0.342] | [0.642] | [0.63] | [0.806] | |
| og-change revenues | -0.021 | -0.030 | -0.032 | -0.038 | -0.048 | -0.051 | -0.036 | -0.037 | |
| | (0.017) | (0.018) | (0.018) | (0.019) | (0.023) | (0.025) | (0.025) | (0.026) | |
| | [0.721] | [0.557] | [0.457] | [0.33] | [0.282] | [0.276] | [0.642] | [0.687] | |
| og-investment | 0.022 | 0.049 | 0.001 | 0.022 | -0.034 | -0.009 | -0.027 | -0.009 | |
| | (0.079) | (0.071) | (0.083) | (0.077) | (0.107) | (0.098) | (0.108) | (0.098) | |
| | [0.79] | [0.887] | [0.997] | [0.989] | [0.981] | [0.959] | [0.912] | [0.938] | |
| og-change investment | 0.124 | 0.088 | 0.102 | 0.065 | 0.066 | 0.045 | 0.109 | 0.088 | |
| | (0.065) | (0.067) | (0.064) | (0.066) | (0.078) | (0.081) | (0.084) | (0.086) | |
| | [0.409] | [0.733] | [0.486] | [0.906] | [0.849] | [0.959] | [0.712] | [0.871] | |
| og-VA | -0.112 | -0.088 | -0.165 | -0.133 | -0.249 | -0.208 | -0.214 | -0.188 | |
| | (0.079) | (0.07) | (0.08) | (0.073) | (0.103) | (0.093) | (0.103) | (0.094) | |
| | [0.614] | [0.733] | [0.293] | [0.41] | [0.141] | [0.215] | [0.296] | [0.342] | |
| og-change VA | -0.065 | -0.071 | -0.073 | -0.077 | -0.084 | -0.088 | -0.084 | -0.078 | |
| | (0.05) | (0.052) | (0.055) | (0.057) | (0.073) | (0.076) | (0.075) | (0.077) | |
| | [0.721] | [0.729] | [0.551] | [0.724] | [0.781] | [0.775] | [0.756] | [0.871] | |
| og VA/worker | -0.081 | -0.050 | -0.109 | -0.083 | -0.153 | -0.143 | -0.150 | -0.144 | |
| | (0.047) | (0.048) | (0.05) | (0.051) | (0.067) | (0.065) | (0.068) | (0.067) | |
| | [0.462] | [0.844] | [0.253] | [0.542] | [0.192] | [0.239] | [0.233] | [0.249] | |
| og-change VA/worker | -0.077 | -0.089 | -0.089 | -0.099 | -0.108 | -0.116 | -0.097 | -0.099 | |
| | (0.05) | (0.051) | (0.057) | (0.058) | (0.077) | (0.079) | (0.078) | (0.08) | |
| | [0.569] | [0.516] | [0.486] | [0.503] | [0.672] | [0.642] | [0.712] | [0.78] | |
| îrm age | 0.261 | 0.177 | 0.029 | 0.029 | -0.335 | -0.224 | -0.333 | -0.249 | |
| - | (0.245) | (0.216) | (0.249) | (0.22) | (0.313) | (0.287) | (0.31) | (0.282) | |
| | [0.721] | [0.887] | [0.991] | [0.989] | [0.786] | [0.919] | [0.756] | [0.871] | |
| start-up | -0.006 | -0.001 | -0.006 | -0.004 | -0.007 | -0.006 | -0.010 | -0.009 | |
| r | (0.004) | (0.004) | (0.004) | (0.004) | (0.005) | (0.005) | (0.006) | (0.006) | |
| | (| (| (| (| (| (| (21000) | (| |

Notes: This table presents the results from a comparison of firm characteristics one year before the call between
applicants scoring just above and just below the cutoff. All variables are described in Online Appendix Table B1.
Start-up identifies firms in the age class (0-1). The numbers without brackets are the estimated coefficients from

RD regressions analogous to Equation (3) in the main text in which the dependent variable is the firm characteristic indicated in each row and the main explanatory variable is a dummy equal to one for firms scoring just above the

²⁶ cutoff. The specification in columns (1)-(4) also includes the standardized application score and its interaction with
the dummy for applicants above the cutoff, while columns (5)-(8) also include the squared application score and
²⁷ is in the dummy for applicants above the cutoff, while columns (5)-(8) also include the squared application score and

its interaction with the dummy; odd columns include group fixed effects for firms competing in the same ranking;
and columns (3)-(4) and (7)-(8) weight observations by a triangular kernel in distance from the cutoff. Standard 28 errors clustered by cell are reported in parenthesis. For each specification, *p*-values computed controlling the

29 family-wise error rate when performing multiple hypothesis tests (Westfall & Young 1993) are reported in square 29 brackets.

30

| kin in the Game 0.508 0.519 0.052 ob Creation 0.009 0.009 -0.004 | 0.808 |
|--|-------|
| b Creation 0.009 0.009 -0.004 | |
| | 1.000 |
| o Waste 1.346 1.279 -0.099 | 0.982 |
| og) Size 2.820 3.362 0.266 | 0.001 |
| mployment Growth 0.184 0.222 0.063 | 0.960 |
| og) Funds Requested 5.659 5.846 0.150 | 0.960 |

Notes: The second and third columns of the table report averages of firms' and firms' projects' characteristics for 9 9 applicants matched only in the INPS dataset and in the INPS and Cerved dataset, respectively. The fourth and

fifth columns report the normalized difference (see Imbens & Rubin 2015, Section 14.2) of the second and third 10 10 columns, and the Westfall & Young (1993) p-values computed controlling the family-wise error rate for multiple

11 11 hypothesis tests. Only auctions concerning industry are included. The typical rule of thumb to detect imbalances r (the absolute value of) th ulized diffe nce is 0.25 (see Imbens & Wooldridge 2009, p_{24})

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| 13 | | | | | | 1. |
|----|-------------------------------------|----------------|------------------|-----------------|-----------------|------|
| 14 | | TAB | LE A3 | | | 1 |
| 15 | Condit | IONAL INI | DEPENDENC | E TESTS | | 1. |
| 16 | | emplo | oyment | inves | tment | 1 |
| 17 | Variable | left | right | left | right | 1 |
| 18 | | | | | | 1 |
| 19 | Conditional on X^* | 0.0012 | 0.0020 | 0.004 | 0.015 | 1 |
| 20 | <i>t</i> -statistic | 0.0012 | -0.0029 0.334 | -0.004 0.321 | -0.015 0.943 | 2 |
| 21 | <i>p</i> -value | 0.754 | 0.734 | 0.749 | 0.346 | 2 |
| 22 | Unconditional | | | | | 2: |
| 23 | score | 0.0388 | 0.0145 | 0.047 | -0.039 | 2. |
| 24 | <i>t</i> -statistic <i>p</i> -value | 5.155 0.000 | 1.265 0.206 | 2.672 0.008 | 1.723 0.085 | 2 |
| 25 | Obs | 16,007 | 11,045 | 11,891 | 8,233 | . 2. |

26 26 Notes: The table reports regression-based tests of the conditional independence assumption in Equation (4) in the main text. We regressed employment growth in the six years after the award of L488/92 subsidies on the running 27 27 variable (i.e., the application score) separately for the sub-samples of applicants above and below the cutoff. The

top panel shows the estimated coefficients when controlling for cell fixed effects and for the vector of covariates 28 28 X^{\star} , while the bottom panel reports the estimated coefficients when controlling only for cell fixed effects. Results

29 29 are robust to including a quadratic polynomial in the running variable. The covariates included in X^* are listed at the beginning of Section 6 of the main text. 30

30

| Variabl Name | le | Before Discretion | After Discretion | Normalized Difference | Westfall-Young <i>p</i> -value |
|---|---|--|--|---|---|
| Skin in the Ga | me | 0.458 | 0.453 | -0.019 | 0.915 |
| Job Creation | | 0.006 | 0.007 | 0.098 | 0.915 |
| No Waste | | 1.288 | 1.359 | 0.233 | 0.459 |
| (log) Size | | 3.463 | 3.095 | -0.247 | 0.414 |
| Age | | 11.297 | 10.840 | -0.048 | 0.999 |
| (log) Wage | | 7.765 | 7.803 | 0.094 | 0.972 |
| Share Blue Co | ollar | 0.749 | 0.751 | 0.005 | 0.993 |
| Has Managers | | 0.207 | 0.153 | -0.143 | 0.934 |
| Has Apprentic | es | 0.345 | 0.344 | -0.004 | 0.873 |
| Employment C | Growth | 0.136 | 0.245 | 0.183 | 0.998 |
| (log) Funds Re | equested | 5.903 | 5.700 | -0.158 | 0.998 |
| Investment Ra | te | 0.113 | 0.120 | 0.059 | 0.365 |
| table reports ave introduction of the Westfall & Y tests. Only auction olute value of) th | erages of a political c doung (19 ons conce ne normali | pplicants' cha liscretion, thei 93) <i>p</i> -values o rning industry ized difference | racteristics in r normalized computed con are included e is 0.25 (see | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woole | ore (calls 1 and 2) a Imbens & Rubin 2 nily-wise error rate e of thumb to detect dridge 2009, p.24). |
| table reports ave introduction of the Westfall & Y tests. Only auction solute value of) th | erages of a political d foung (19 ons conce ne normali | pplicants' cha liscretion, thei 93) <i>p</i> -values of rning industry ized difference T | racteristics in r normalized computed con are included e is 0.25 (see ABLE A5 | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woold | ore (calls 1 and 2) a Imbens & Rubin 2 nily-wise error rate e of thumb to detect dridge 2009, p.24). |
| table reports ave introduction of the Westfall & Y tests. Only auctiv olute value of) th COST OF | verages of a political c voung (19 ons conce ne normali NEW JOB | pplicants' cha liscretion, thei 93) <i>p</i> -values of rning industry ized difference T S AND INVES (2) | racteristics in r normalized computed con are included e is 0.25 (see ABLE A5 TMENT MATC (3) | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woold | The South |
| cost measure: | NEW JOB (1) cost per (thousand | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference T S AND INVES (2) new job ls of €'s) | racteristics in r normalized computed cor are included e is 0.25 (see ABLE A5 TMENT MATO (3) cost per work (thousands o | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woold CHING FIRMS IN (4) (5 er-year cost f \in 's) (cost | tore (calls 1 and 2) a Imbens & Rubin 2 nily-wise error rate e of thumb to detect dridge 2009, p.24). (THE SOUTH (THE SOUTH (6) t of new investment per \in 1 of investment) |
| cost measure: | NEW JOB (1) cost per (thousand manual | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference T S AND INVES (2) new job ls of \in 's) data-driven | racteristics in r normalized computed cor are included e is 0.25 (see ABLE A5 TMENT MATC (3) cost per work (thousands o manual data | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woold Imbens & Woold (4) (2 er-year cost f \in 's) (cost i-driven mar | tore (calls 1 and 2) a Imbens & Rubin 2 nily-wise error rate e of thumb to detect dridge 2009, p.24). THE SOUTH 5) (6) to f new investment per \in 1 of investment) nual data-driven |
| table reports ave introduction of the Westfall & Y tests. Only auction olute value of) th COST OF Cost measure: X^* : all regions | NEW JOB (1) cost per (thousand 115 | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference T S AND INVES (2) new job ls of €'s) data-driven | ABLE A5 TMENT MATO (3) cost per work (thousands of manual data 30 | the auctions bef difference (see htrolling the fan . The typical rul Imbens & Woold CHING FIRMS IN (4) (2) er-year cost f \in 's) (cost I-driven mar 30 0.0 | THE SOUTH (THE |
| table reports ave introduction of the Westfall & Y tests. Only auction olute value of) th COST OF Cost measure: X*: all regions | NEW JOB (1) cost per (thousand [87; 220] | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference (2) new job ls of \in 's) data-driven 106 [80; 206] 122 | racteristics in r normalized computed cor are included e is 0.25 (see ABLE A5 TMENT MATC (3) cost per work (thousands o manual data 30 [27; 38] [2 | the auctions bef difference (see htrolling the fan . The typical rul Imbens & Woold (4) (2 er-year cost f \in 's) (cost j -driven mar 30 0.0.7; 36] [0.47; 25 000 | THE SOUTH (THE |
| table reports ave introduction of the Westfall & Y tests. Only auction olute value of) th COST OF Cost measure: X*: all regions south | NEW JOB (1) cost per (thousand 115 [87; 220] 140 107: 2381 | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference T S AND INVES (2) new job ls of \in 's) data-driven 106 [80; 206] 122 [95: 205] | racteristics in r normalized computed cor are included e is 0.25 (see ABLE A5 TMENT MATC (3) cost per work (thousands o manual data 30 [27; 38] [2 39 [33; 51] [3] | the auctions bef difference (see htrolling the fan . The typical rul Imbens & Woold (4) (2 er-year cost f \in 's) (cost driven mar 30 0. 7; 36] [0.47; 35 0.' 1: 44] [0 50] | THE SOUTH THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (1) (1) (1) (2) (2) (3) (4) (2) (3) (4) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4 |
| table reports ave introduction of he Westfall & M tests. Only auction blute value of) th COST OF Cost measure: X^* : all regions south north-center | NEW JOB (1) cost per (thousand 115 [87; 220] 140 107; 238] 68 | pplicants' cha liscretion, thei 93) p-values of rning industry ized difference (2) new job ds of \in 's) data-driven 106 [80; 206] 122 [95; 205] 70 | ABLE A5 ABLE A5 ABLE A5 ABLE A5 ABLE A5 ABLE A5 (3) cost per work (thousands o manual data 30 [27; 38] [2 39 [33; 51] [3 16 | the auctions bef difference (see ntrolling the fan . The typical rul Imbens & Woold (Imbens & Imbens & | THE SOUTH THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (THE SOUTH (G) (G) (G) (G) (G) (G) (G) (G) |

 26 six-year period. All amounts are expressed in thousand \in at constant 2010 prices. Differently from Table 4 in the main text, costs are calculated on a subsample of Southern firms matched (1-to-1) to Northern firms based on a set of observables (age and industry, size and employment composition, average wage, and past employment growth).

of observables (age and industry, size and employment composition, average wage, and past employment growth).
The estimates in columns labeled as "manual" employ the set of covariates listed at the beginning of Section 6 of
the main text, while the estimates in columns labeled as "data-driven" employ the set of covariates selected by the

algorithm described in detail in Section S3 of the Supplementary Materials. 90% confidence intervals are reported in brackets and are computed using 1,000 draws of a non-parametric cluster Efron bootstrap, where clusters are

 $_{30}$ defined at the cell-level.

ADDITIONAL FIGURES AND TABLES А

TABLE A6 1 1 POLICY INVARIANCE TEST, DIFFERENCE-IN-DIFFERENCES 2 2 Variable Skin in Job No (log) Age (log) Name the Game Creation Waste Size [t-1]Wage 3 3 4 $POST1998 \times DISCRETION$ -0.032 -0.000 0.082 -0.108 0.138 0.052 4 (0.027)(0.001)(0.086)(0.073)(0.280)(0.014)5 5 Obs 38.367 38.367 38,367 38.367 38.367 34,747 Adj. R^2 0.109 0.100 0.685 0.121 0.045 0.092 6 6 0.932 0.932 WY p-value 0.826 0.870 0.746 0.142 7 7 Has Has Employment (log) Funds Share of Investment **Blue Collar** Managers Apprentices Growth [t-1]Requested Rate 8 8 $POST1998 \times DISCRETION$ -0.004 -0.005 -0.065 -0.018 -0.030 0.008 9 9 (0.011) (0.016)(0.012)(0.012)(0.062)(0.007)10 10 Obs 38,367 34,819 38,367 15 104 34,747 38.367 Adj. R^2 0.020 0.070 0.053 0.006 0.230 0.009 11 11 WY p-value 0.932 0.932 0.104 0.736 0.932 0.826

12 12 Notes: This table shows the results of difference-in-differences regressions comparing project and applicant characteristics between regions attributing and not attributing discretionary points, before and after the introduc-13 13 tion of discretion. In particular, we estimate the specification $Y_{irt} = \phi(POST1998_t \times DISCRETION_r) + \phi(POST1998_t \times DISCRETION_r)$ $FE_r + FE_t + \nu_{irt}$, where $POST1998_t = 1$ for the period after 1998 and $POST1998_t = 0$ otherwise, 14 14 $DISCRETION_r = 1$ in regions attributing discretionary points and $DISCRETION_r = 0$ otherwise, and 15 15 FE_r and FE_t are region and year fixed effects, respectively. Robust standard errors clustered at the region-year level and reported in brackets. The last row reports Westfall & Young (1993) p-values corrected for multiple-16 16 hypothesis tests. 17 17 18 18 TABLE A7 19 19 COST OF NEW JOBS AND INVESTMENT GENERATED BY L488 SUBSIDIES 20 20 (1)(2)(3)(4)(5)(6)21 21 Cost Measure cost per new job cost per worker-year cost of new investment (thousand of €'s) (thousand of €'s) (thousand of €'s) 22 22 X^{\star} manual data-driven manual data-driven manual data-driven 23 23 all firms 178 159 54 56 0.81 0.63 [118; 260] [47; 62] [51; 62] [0.59; 1.25] [0.48; 0.87][133; 299] 24 24 large 78 78 24 29 0.4 0.29 [47; 222] [52; 174] [19; 30] [25; 35] [0.27; 0.74][0.21; 0.41]25 25 small 253 209 80 74 1.08 0.87 [203; 349] [162; 296] [73; 90] [68; 81] [0.83; 1.49] [0.68; 1.15] 26 26

Notes: This table shows the cost of new jobs and investment generated by the L488 subsidies over a six-year 27 27 period. All amounts are expressed in thousand € at constant 2010 prices. The estimates in columns labeled as "manual" employ the set of covariates listed at the beginning of Section 6 of the main text, while the estimates 28 28 in columns labeled as "data-driven" employ the set of covariates selected by the algorithm described in detail in

29 29 Section S3 of the Supplementary Materials. 90% confidence intervals are reported in brackets and are computed

using 1,000 draws of a non-parametric cluster Efron bootstrap, where clusters are defined at the cell-level. 30

| 1 | | 1 |
|----|--|----|
| 2 | | 2 |
| 3 | | 3 |
| 4 | TABLE A8 | 4 |
| 5 | JOB, RULES VS. DISCRETION | 5 |
| 6 | Panel A: Treatment Effect | 6 |
| 7 | quintiles of sub-score SR | 7 |
| 8 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 8 |
| 9 | \overline{a} [.14; .175] [.163; .217] [.151; .195] [.159; .201] [.163; .214] \overline{a} 0.126 0.155 0.163 0.167 0.149 | 9 |
| 10 | $\begin{array}{c} 3 \\ \hline \\ \hline \\ 2 \\ \hline \\ 2 \\ \hline \\ 2 \\ \hline \\ 2 \\ \hline \\ \\ 2 \\ \hline \\ \\ 156 \\ \hline \\ \\ 156 \\ \hline \\ \\ 157 \\ \hline \\ \\ 176 \\ \hline \\ \\ 177 \\ \hline \\ 177 \\ 177 \\ \hline \\ 177$ | 10 |
| 11 | 5 [.126; .193] [.139; .185] [.148; .189] [.154; .203] [.152; .197] 5 0.122 0.151 0.148 0.166 0.171 | 11 |
| 12 | $\begin{bmatrix} 2 \\ [.09; .154] \\ .127; .171] \\ [.122; .168] \\ [.133; .194] \\ [.142; .192] \\ .112 \\ 0.112 \\ 0.107 \\ 0.132 \\ 0.135 \\ 0.157 \end{bmatrix}$ | 12 |
| 13 | [.088; .144] [.084; .136] [.107; .156] [.114; .155] [.138; .176] | 13 |
| 14 | Panel B: Cost Effectiveness | 14 |
| 15 | quintiles of sub-score SR | 15 |
| 16 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 16 |
| 17 | 5 [.203; .33] [.269; .468] [.286; .519] [.291; .695] [.48; .882] | 17 |
| 1/ | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1/ |
| 18 | $\frac{1}{2}$ 0.487 0.428 0.526 0.681 1.054 $\frac{1}{2}$ 3.88: 6771 [337: 577] [30: 772] [403: 001] [611: 1.648] | 18 |
| 19 | $\frac{1}{2}$ $\frac{1}$ | 19 |
| 20 | [1,324;.741] $[.343;.589]$ $[.32;.754]$ $[.472;.837]$ $[.588;1.935]0.373$ 0.703 0.753 0.816 1.284 | 20 |
| 21 | ⁵ [.172; .745] [.505; .987] [.595; .999] [.621; 1.124] [.827; 1.979] | 21 |
| 22 | Notes: This table reports the heterogeneity in treatment effects on firm employment growth (Panel A) and | 22 |

the cost-effectiveness of subsidies (Panel B), by quintiles of the sub-scores for objective rules (SR) and po-litical discretion (SD). In Panel A, the treatment effect for each bin (SR = r, SD = d) is estimated as $\mathbb{E}\left[Y^1 - Y^0 \mid SR = r, SD = d\right] = (\beta_1 - \beta_0) \cdot \mathbb{E}\left[X^\star \mid SR = r, SD = d\right].$ The covariates included in X^\star are listed at the beginning of Section 6 of the main text. In Panel B, cost-effectiveness is measured by the number of newly created per €100,000 of subsidies received by the firm. The number of newly created jobs in each bin is computed by multiplying the size of each firm by the treatment effect for its respective bin, as reported in Panel A, and aggregating across all firms in that bin. 90% confidence intervals are reported in brackets and computed using 1,000 draws of a non-parametric cluster Efron bootstrap, where clusters are defined at the cell-level.

| | 18 | B DATA DESCRIPTION | |
|----|-------|--|----|
| 1 | | B. DATA DESCRIPTION | 1 |
| 2 | | | 2 |
| 3 | Т | he analysis leverages three main sources of microdata: | 3 |
| 4 | 1. | The administrative data on all applications for L488/92 subsidies (1996-2007), | 4 |
| 5 | | sourced from the Italian Ministry of Economic Development, DG Firm subsidies | 5 |
| 6 | | (Ministero dello Sviluppo Economico 2009); | 6 |
| 7 | 2. | The National Social Security Institute (INPS) firm archive (called DM10M) covering | 7 |
| 8 | | the universe of Italian firms with at least one dependent worker, available starting from | 8 |
| 9 | | 1986 (INPS n.d.); | 9 |
| 10 | 3. | The Cerved database containing balance sheet information on Italian limited liability | 10 |
| 11 | | companies, available starting from 1993 (Cerved Group n.d.). | 11 |
| 12 | Т | he L488/92 archive contains administrative data on 74,584 applications for L488/92 | 12 |
| 13 | subs | sidies, submitted by 49,082 firms. It covers nearly the universe of rankings (only some | 13 |
| 14 | sma | ller auctions are excluded) for which it contains all submitted applications. | 14 |
| 15 | Т | he data contain: | 15 |
| 16 | (i) | information on the project: a unique project identifier; the three (five) sub-indexes | 16 |
| 17 | | measuring project quality; the score (the forcing variable) obtained aggregating the | 17 |
| 18 | | sub-indexes standardized at the auction and region level; the position in the ranking; | 18 |
| 19 | | an indicator for winning projects; the amount of funds requested in the application | 19 |
| 20 | | and that of funds actually transferred - separate by each of three installments; whether | 20 |
| 21 | | financed on EU or Italian sources. | 21 |
| 22 | (ii) | information on the auction (number, region, and sector of destination of funds, date of | 22 |
| 23 | | issuance, date of closure, dates of each of the three installments). | 23 |
| 24 | (iii) | information on the firm (fiscal identifier or individual fiscal code (in case of sole pro- | 24 |
| 25 | | prietorships), legal form, address, municipality. | 25 |
| 26 | А | dditional information on the auction, recovered from the Official Journal of the Ital- | 26 |
| 27 | ian I | Republic (Gazzetta Ufficiale della Repubblica Italiana n.d.), associates each project to | 27 |
| 28 | "cel | ls" identified by the following dimensions: firm size (Large/Medium/mall), sector (In- | 28 |
| 29 | dust | ry, energy, Tourism, Trade, Services), eligibility for co-financing (Yes/No), and geo- | 29 |
| 30 | grap | phical area (Region). This additional information allowed us to allocate projects exactly | 30 |

to the several sub-rankings within the same call, region, and (possibly) special category of 1
applicants (see Section 1 of the Supplementary Materials).

The firm archive is assembled by INPS sourcing on a master dataset collecting all social security payments made every month by legal entities for any employee with open-ended, fixed-term, and apprenticeship contracts. The archive covers therefore the universe of firms with at least one employee at some point during a given calendar year. The data is available between 1986 and 2015. For each firm, it reports the fiscal code; monthly information on the number of employees; and yearly information on the number of employees and their total wage bill by qualification (manager, blue-collar; white collar; apprentices; others); date of birth, and cessation of activity; detailed geographical (municipality) and industry (3-digit) data; and an identified for firms belonging to groups. Information on firms' balance sheets and income statements comes from a proprietary database assembled by the Cerved Group S.p.a. The Cerved Firm Registry, which is the Italian source of the Orbis database, covers the universe of limited liability firms in the private non-financial sector and is available since 1993.¹ Further data used in the paper include (i) the administrative registries of local politicians (Ministero dell'Interno n.d.a) and local elections (Ministero dell'Interno n.d.b), available from the Italian Ministry of Interior, respectively at https://elezionistorico.interno.gov.it/ eligendo/opendata.php and https://dati.interno.gov.it/; (ii) a classification of local govern-ments' ideologies, sourced from the Local Opportunities Lab (Local Opportunities Lab n.d.) at https://www.localopportunitieslab.it/; (iii) data on various economic variables re-lated to labor market participation, unemployment, employment rates, education, and other 2.2 demographic and economic indicators at the municipality level, obtained from the Cen-sus (ISTAT (n.d.a), available at https://ottomilacensus.istat.it/); and (iv) regional data on per-capita GDP and population in 1995 (CRENOS n.d.). 2.6

28
¹Nominal values were deflated sourcing on (ISTAT n.d.*b*), (ISTAT n.d.*c*), and (ISTAT n.d.*d*). Supplementary
²⁹ information on firms' industry codes was sourced from (Infocamere n.d.) and (Ministero dell'Economia e delle

³⁰ Finanze – Agenzia delle Entrate n.d.).

B DATA DESCRIPTION

TABLE B1 1 1 DESCRIPTION AND SOURCE OF ALL THE VARIABLES USED IN THE ANALYSIS. 2 2 Variable Description Source 3 З Main variables from L488/92 data 4 4 Info on Auctions Date, region, and result of the auction. Complementary infor-**MinEcDev** mation from the Official Journal includes, for each project, all 5 5 the details required to recover the rankings within each auction-6 6 region cell, as explained in Section S1 of the Supplementary Materials 7 7 Score Project quality obtained combining the 3(5) indicators below, MinEcDev 8 8 once standardized within each call-region Ratio of the applicant's own investment in the project relative to Skin in the Game MinEcDev 9 9 the amount requested 10 Job Creation Number of jobs created by the project MinEcDev 10 Proportion of funds requested in relation to an ad-hoc bench-No Waste MinEcDev 11 11 mark set by the EU Commission Score attributed on the basis of priorities indicated by the re-Political Discre-MinEcDev 12 12 tion gional government 13 13 Compliance with the requirements of an environmental man-Environmental MinEcDev agement system, e.g. ISO 14001 or EMAS Responsibility 14 14 **Funds Requested** Amount of subsidies requested in application MinEcDev 15 15 Amount of subsidies disbursed to winners, in three instalments Funds Paid MinEcDev 16 16 Main variables from INPS 17 17 Number of employees, available at monthly frequency **INPS** Size 18 18 Employment growth rate between two dates. Computed over Growth INPS different horizons starting and ending in the month of the auc-19 19 tion 20 20 Firm age at any given year INPS Age Average wage of employees. Obtained aggregating yearly data Wage INPS 21 21 on wage bill and employees by qualification (managers, blue collar; white collar; apprentices; others) 2.2 2.2 Share of blue col-Ratio between blue collar employees and total employees, com-**INPS** 23 23 puted from the same data lars Dummy for presence of (middle) managers in workforce Manager INPS 24 24 Apprentices Dummy for presence of apprentices in workforce INPS 25 25 Survival Dummy for whether firm is alive at any given future horizon INPS Headquarter municipality Area INPS 26 26 3-digits NACE Rev. 2 industry codes Industry INPS 27 27 28 Main variables from CERVED 28 Firm revenues (sales) (thousand \in) Revenues CERVED 29 29 VA Firm value added(thousand \in) CERVED 30 30 **Total Assets** Total assets (thousands of \in) CERVED Investment in tangible and intangible fixed assets (thousand \in) Investment CERVED

| Variable | Description | Source |
|--|---|--|
| Political proxin | nity and other predictors of the discretionary sc | ore (SD) |
| Political alignment | Dummy for the same party (right, centre, left, civic) ruling both the Region and the munici- pality the firm is located | Ministry of Interior and Local Opportu- nities Lab |
| Margin of victory | Dummy for the margin of victory in the last elections municipality the firm is located | Ministry of Interior |
| Birthplace of Regional president | Dummy for the president of the Regional government being born in the municipality the firm is located | Ministry of Interior |
| Birthplace of Regional counsellor | Dummy for at least one counsellor in the Re- gional government being born in the munici- | Ministry of Interior |
| Birthplace of Regional al- derman | Dummy for at least one alderman in the Re- gional government being born in the munici- | Ministry of Interior |
| Human capital of Regional president / municipality | Dummy for level of schooling of Regional president / municipality mayor (primary, | Ministry of Interior |
| mayor Local unemployment | Unemployment rate at province level (ISTAT) | ISTAT |
| Credit constraints | Spread between loan and deposit rates in provinces | Guiso, Pistaferri & Schivardi (2013) |
| | Main variables from Census Data | |
| Participation Rate | Labor market participation (males, females), ratio of active and inactive young people | Census data |
| NEET | Incidence of young people aged 15-29 not studying, not working, and outside the labor | Census data |
| Unemployment | Male, female, and youth unemployment rate | Census data |
| Employment | Male, female, and youth employment rate, employment turnover index, incidence of em- ployment in the agricultural industrial ter- | Census data |
| Education | tiary (excluded trade), and trade sector Early exit from the education and training system, incidence of adults with a diploma | Census data |
| o · · · | or higher, incidence of adults with a middle school diploma | |
| Socio-economic | Population density, housing usage potential in urban centers, incidence of families at risk | Census data |

C RD ESTIMATES AT THE CUTOFF: ADDITIONAL RESULTS

C. RD ESTIMATES AT THE CUTOFF: ADDITIONAL RESULTS

Two important issues could affect the interpretation of our RD estimates in Section 5 of the main text. First, applicants in a given call may re-apply (and obtain funds) in subsequent calls. We deal with this issue in Supplementary Appendix, Section S2. Second, the effects on funded firms may spill over to other, non-funded firms.

Spillovers Employment increases by subsidized firms may affect other, non-subsidized 7
firms. The sign of these effects is also unclear a priori. The growth of subsidized firms 8
may benefit upstream and downstream producers in the same market, or it may erode the 9
market share of competitors – possibly including firms in the control group. In the latter 10
case, estimates in Section 5 would overstate the effects of the policy. 11

To address this possibility, we look across Italian Local Labor Markets (LLM) comparing
the employment dynamics of non-subsidized firms in subsidized LLMs to those of firms in
non-subsidized LLMs; spillover effects should affect more (or exclusively) employment in
the former group. We focus on the following specification:

 $\ln L_{m,t+k} - \ln L_{m,t} = \theta_k D_{m,t} + \alpha \ln L_{m,t} + F E_m + F E_t + \varepsilon_{m,t}$ (1)

where $L_{m,t+k}$ and $L_{m,t}$ are the total employment of non-subsidized firms in the *m*-th LLM in year t + k and t, taken from the INPS administrative data on the universe of workers in (non-agricultural) firms; $D_{m,t}$ is a dummy equal to 1 when at least one firm in LLM m received funds in year t; FE_m and FE_t are LLM- and year-specific fixed effects; and 2.2 $\varepsilon_{m,t}$ is a residual summarizing the effect of other factors. The coefficient of main interest, θ_k , captures the differential employment response, after k years, of non-subsidized firms within the same LLM as a subsidized firm relative to non-subsidized firms in other LLMs. Figure C1i plots the estimated coefficients θ_k 's for two different subsets of non-2.6 2.6 subsidized firms - respectively, applicant firms not obtaining the subsidy (left graph) and non-applicant firms in the same LLM-industry cell as subsidized firms.² Both graphs

²Industry is defined at the 3-digit level.

| 1 | present baseline difference-in-differences estimates as well as "corrected" estimates ac- | 1 |
|----|---|----|
| 2 | counting for the staggered research design, using the approach suggested by de Chaise- | 2 |
| 3 | martin & D'Haultfœuille (2020). | 3 |
| 4 | Overall, there is no evidence of significant spillover effects; the same is true when re- | 4 |
| 5 | placing the binary indicator $D_{m,t}$ in Equation 1 with the (log of) funds actually paid to | 5 |
| 6 | subsidized firms in each LLM or LLM-industry, see Figure C1ii. | 6 |
| 7 | These results imply that higher employment among subsidized firms reflects a net | 7 |
| 8 | increase in aggregate employment, rather than a mere reallocation of jobs from non- | 8 |
| 9 | subsidized to subsidized firms. Cerqua & Pellegrini (2022) reach the same conclusion by | 9 |
| 10 | decomposing worker flows towards subsidized firms. Using worker-level data, they show | 10 |
| 11 | that the majority of recruits come from new entrants in the labor market, and conclude that | 11 |
| 12 | L488/92 subsidies generate few displacement effects across firms, if at all. | 12 |
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right panel focuses on non-participating firms in the LLM and (3-digit) industry as treated firms. The treatment variable is the log of funds received by treated firm in an LLM (or LLM-industry cell). "Baseline point" estimates and confidence intervals are obtained from specification 1 in the main text, clustering heteroskedasticity-robust standard errors by LMM. "Corrected" coefficients are obtained using the estimator proposed by de Chaisemartin & D'Haultfœuille (2020) to account for biases arising if group-time treatment effects are averaged with negative weights.

D. POLITICIANS' RESPONSE TO (EXPECTED) OBJECTIVE SCORES As explained in Section 2.2 of the main text, local politicians attribute a discretionary score SD to projects depending the municipality within the region and industrial sectors in which they are realized, and the type of investment to be implemented. In addition, SD must be set ex-ante and communicated to the Ministry of Economic Development by October 30th of the year before each call was issued, and it is not circulated publicly. When allocating the discretionary points by the municipality-industry-type of each project (SD), politicians may in principle take into account the *expected* score received by projects on objective criteria, call it SR^e – the actual score will only be revealed a few months later. In particular, they should attribute more points to projects that they favor and, at the same time, they expect to score lower on objective criteria. Letting Z denote the triple of projects' operating municipality, industry, and type of investment, and \mathcal{Z} the set of possible values for such triple, politicians allocate SD across Z's taking into account the scores received on the objective criteria: $SD(Z, SR^e(Z)).$ Therefore, SD depends on Z both directly and indirectly through SR^e , and we expect that SR^e enters negatively SD. In order to estimate such effect, we need to impose assump-tions on how politicians form expectations SR^e , since our data allow us to observe ex-post realizations of SR in each call t but not the ex-ante expectations. In particular, we consider 2.2 two alternative hypotheses. (i) "Adaptive expectations": politicians form such expectations based on the average realizations of SR within each group $z \in \mathcal{Z}$ in the previous call t-1, $SR^e_{z,t} =$ $\sum_{g(j)=z,t-1} SR_{j,t-1}/N_{t-1}^z$, where N_{t-1}^z denotes the number of projects in each group $z \in \mathcal{Z}$ in call t-1 and $g: \{1, 2, \dots, N\} \to \mathcal{Z}$ is a function mapping rankings into groups. (ii) "Perfect foresight": politicians are able to correctly predict the average realization of SR in group z in the call at time t ($SR_{z,t}^e = \sum_{g(j)=z,t} SR_{j,t}/N_t^z$).

In addition, we must impose that politicians' utility is stable over time. Under these assumptions, we can identify the effect of SR^e on SD across groups defined by Z leveraging longitudinal variation over subsequent calls and controlling non-parametrically for differences in projects' characteristics across groups through a full set of fixed effects:

$$SD_{z,t} = \beta SR_{z,t}^e + FE_z + FE_t + \varepsilon_{z,t}, \qquad (2)$$

where FE_z and FE_t are fixed effects by group z and call, respectively. We weight the regression across Z's by the number of projects in each Z triple.

Estimates of Equation (2) are reported in Table D1. When assuming adaptive expecta-tions (columns 1-4), the estimated coefficient β is essentially zero; in particular, we can reject (with 95% confidence) effects as small as a -0.03 standard deviation changes in the discretional score for a one standard deviation increase in the objective score. When assum-ing perfect foresight (columns 5-8), the coefficient is more precisely estimated but remains extremely small in magnitude – we can reject effects larger than a -0.04 standard deviation changes in the discretional score for a one standard deviation increase in the objective score. The results are very similar when assuming that politicians predict the median – rather than the mean - of SR (columns 3 and 7); when running on the unweighted regression across Z's (columns 2 and 6); and when considering a quadratic specification (columns 4 and 8). In the Supplementary Materials, we presents additional analysis, which allows for a flex-ible relationship between SD and SR^e . These additional results corroborate the evidence that SR^e is independent of SD.

| | | | | TABLE | D1 | | | |
|---------------------|--------------|------------|------------------------------|------------|--------------|---------------|-----------------------------|-----------|
| | | | SI | D RESPONS | SE TO SR | | | |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | expectati | ions based | on avg. S | R in $t-1$ | expe | ctations base | ed on avg. SI | R in t |
| SR^e , | -0.004 | 0.001 | -0.005 | -0.002 | -0.024*** | -0.023*** | -0.025*** | -0.026*** |
| SR^e , squared | (0.012) | (0.013) | (0.012) -0.001 (0.002) | (0.012) | (0.008) | (0.009) | (0.008) 0.002 (0.002) | (0.008) |
| Obs | 3,083 | 3,083 | 3,083 | 3,083 | 8,471 | 8,471 | 8,471 | 8,471 |
| N. Z-triples | 1,284 | 1,284 | 1,284 | 1,284 | 3,518 | 3,518 | 3,518 | 3,518 |
| Weighted | \checkmark | X | \checkmark | 1 | \checkmark | X | 1 | 1 |
| Statistic | average | average | average | median | average | average | average | median |
| Aaj. K ⁻ | 0.41/ | 0.393 | 0.41/ | 0.41/ | 0.385 | 0.574 | 0.386 | 0.386 |

Notes: This table reports the results of regressions on equation (2) across groups of projects defined by triples of municipality-industry-type of project. The dependent variable is the sub-score *SD* attributed by politicians to each group. The main explanatory variable are politicians' expectations on the average score *SR* in each group $z \in \mathbb{Z}$. In columns (1)-(4) we assume that such expectations are based on the average realizations of *SR* within each group in the previous call t - 1 ($SR_{z,t}^e = \sum_{g(j)=z,t-1} SR_{j,t-1}/N_{t-1}^z$, where N_{t-1}^z denotes the number of projects in group $z \in \mathbb{Z}$ during the call t - 1 and $g : \{1, 2, ..., N\} \to \mathbb{Z}$ is a function mapping rankings into

of projects in group $z \in \mathbb{Z}$ during the call t - 1 and $g : \{1, 2, ..., N\} \to \mathbb{Z}$ is a function mapping rankings into 21 groups), while in columns (5)-(8) we assume that they are based on the average realizations of SR within each 22 group in the call at time t ($SR_{z,t}^e = \sum_{g(j)=z,t} SR_{j,t}/N_t^z$). All regressions include fixed effects by group and 23 call Standard errors clustered by group are reported in parenthesis



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28 D POLITICIANS' RESPONSE TO (EXPECTED) OBJECTIVE SCORES

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