

The extension of secondary education in Spain, 1857-1901

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1. OBJECTIVES

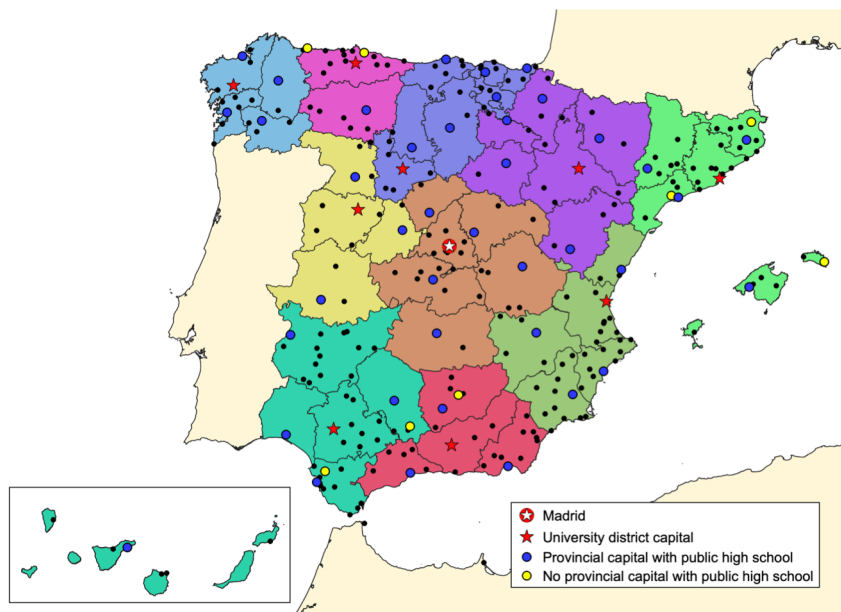
- What factors influenced the development of secondary education in Spain?
- Was there a relationship between the socioeconomic environment and secondary education?
- What was the relationship between the public and the private network of secondary schools?

2. METHODOLOGY

- We use **Probit panel data estimation** (all Spanish municipalities; four census years: 1860, 1877, 1887, 1900)
- Our dummy dependent variable is **the fact that a new private school has been created in a municipality** since the last time cut.
- Three sets of **potential explanatory variables**:
 - **Education demand factors**
 - **Administrative structure and educational context**
 - **Signs of modernity**

$$P(y_{it} = 1 | \Gamma_{it}) = \Phi(\beta_0 + \beta_1 \ln(pop_{it}) + \beta_2 \Delta pop_{it} + \beta_3 lit_{it} + \beta_4 distcap_{it} + \beta_5 public_{it} + \beta_6 privschool_{it} + \beta_7 privdistrict_{it} + \beta_8 agrarian_{it} + \beta_9 rail_{it} + \beta_{10} Z_{it} + \alpha_i + u_{it})$$

3. GRAPHS AND TABLES



	(1)	(2)
Population in t-1 (log)	0.840*** (0.0603)	1.136*** (0.0862)
Population growth (t-1 to t)	0.101*** (0.0296)	0.0835*** (0.0312)
Male literacy in t-1	0.00868*** (0.00313)	0.0170*** (0.00506)
Judicial district capital (dummy)	0.863*** (0.0981)	0.867*** (0.101)
Public high school (dummy)	-0.743*** (0.143)	-0.505** (0.245)
Private school (dummy)	-0.0998 (0.101)	-0.302*** (0.115)
Schools in the district (dummy)	-0.0811 (0.0787)	-0.152* (0.0873)
Constant	-8.808*** (0.608)	-10.34*** (1.852)
Controls and FE	N	Y
Observations	23289	23289

4. RESULTS AND CONCLUSIONS

- A **powerful network of private schools** developed throughout the national territory responding to demand factors such as population and literacy.
- The **administrative structure** (judicial districts) and **school competition** also determined the location of new private schools.
- Factors related to **socioeconomic change** did not have a significant effect on the creation of new private schools, implying a **dissociation between industrialization and education** at this level.