

# Path Dependency, Demographic Change, and the (De-)Differentiation of the German Secondary School System

## Online Appendix / Online-Anhang

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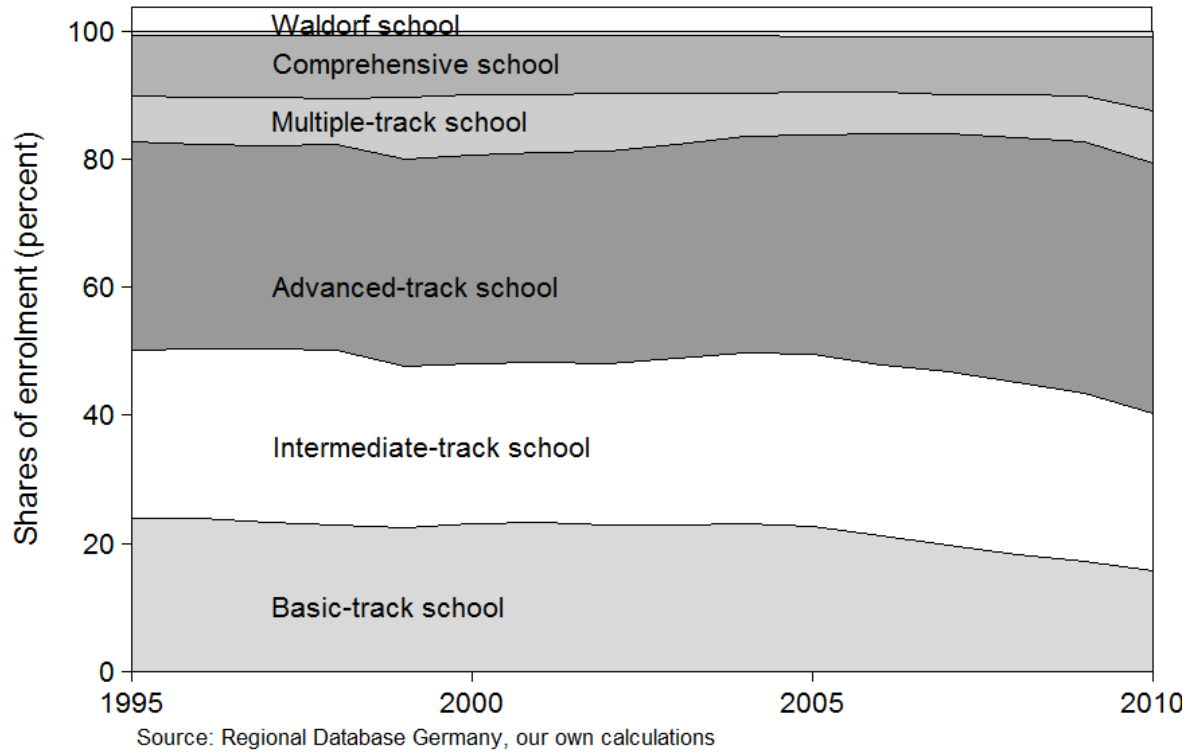
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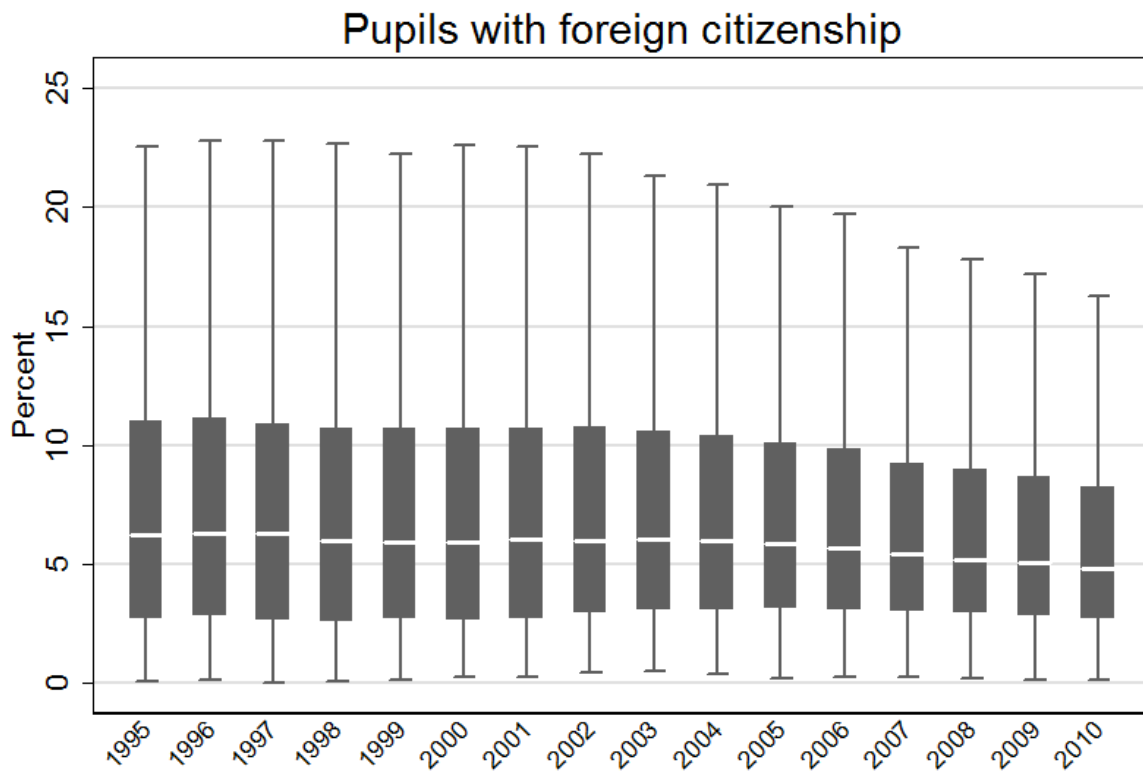
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**Figure A1:** Distribution of enrollment across school types of general secondary education in Germany (1995-2010)



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Source: Regional Database Germany, our own calculations

**Table A1:** Integrative reforms of general secondary education in Germany by state and year of implementation (1995-2010)

<b>State</b>	<b>Year</b>	<b>Reform type 1: 2 educational programs</b>	<b>Year</b>	<b>Reform type 2: 3 educational programs</b>
Baden-Wuerttemberg				
Bavaria				
Berlin			2010	<i>Integrierte Sekundarschule</i>
Brandenburg	2005	<i>Oberschule</i>		
Bremen	2004 [2006]	<i>Sekundarschule</i>		
Hamburg	2008	<i>Integrierte Haupt- und Realschule</i>	2010	<i>Stadtteilschule</i>
Hesse				
Mecklenburg-Western Pomerania	2002	<i>Regionale Schule</i>		
Lower Saxony				
North Rhine-Westphalia				
Rhineland-Palatine	1997	<i>Regionalschule</i>		
	2009	<i>Realschule plus</i>		
Saarland	1996	<i>Erweiterte Realschule</i>		
Saxony				
Saxony-Anhalt				
Schleswig-Holstein	2010	<i>Regionalschule</i>	2010	<i>Gemeinschaftsschule</i>
Thuringia				

[ ] Year in which the reform affects grade 7.

Source: Bartl 2012: 21.

**Table A2:** Within variation of structural features of regions at the county level in West and East Germany (1995-2010)

	SD	Min.	Median	Max.
<b>West Germany (N = 5232)</b>				
Effective number of school forms	0,20	-1,69	0,01	1,41
Population aged 10 to 14*	1,46	-27,84	0,04	29,76
Population density**	19,11	-216,33	0,60	312,44
Share of foreign pupils ***	0,95	-8,88	0,09	5,56
GDP (county level) ****	1,03	-12,23	-0,01	16,76
<b>East Germany (N = 1280)</b>				
Effective number of school forms	0,25	-0,80	-0,01	1,04
Population aged 10 to 14*	3,14	-8,41	-0,32	10,46
Population density**	25,34	-111,13	0,22	262,60
Share of foreign pupils ***	0,68	-3,09	0,02	3,02
GDP (county level) ****	0,43	-3,13	-0,01	2,43
<b>Total (N = 6512)</b>				
Effective number of school forms	0,21	-1,69	0,01	1,41
Population aged 10 to 14*	1,91	-27,84	0,03	29,76
Population density**	20,48	-216,33	0,57	312,44
Share of foreign pupils ***	0,91	-8,88	0,07	5,56
GDP (county level) ****	0,94	-12,23	-0,01	16,76

\* Thousand inhabitants, \*\* inhabitants per square kilometer, \*\*\* percent, \*\*\*\* billion euros  
 Group-mean centered values; source: Regional Database Germany, our own calculations

**Table A3:** Determinants of the effective number of school forms by subsamples for West and East Germany

	(1) Hybrid West Germany	(2) Hybrid East Germany
<b>Population aged 10 to 14</b>	0.0097***	0.0027
<b>Population density</b>	0.0004*	-0.0013***
<b>Share of foreign students</b>	0.0261***	-0.0001
<b>SPD government</b> (ref. CDU/CSU government)	0.0693***	-0.0838**
<b>Reform type 1</b> (integrating 2 education programs)	0.0629**	-0.2267***
<b>Reform type 2</b> (integrating 3 education programs)	0.0596	-
<b>GDP (county level)</b>	-0.0135***	0.0894***
<b>Settlement structure</b> (Cities with county status = 1)	-0.2213**	0.3119***
<b>Constant</b>	2.5900***	1.8956***
Observations	5232	1280
<b>R<sup>2</sup> within</b>	0.0578	0.1064
R <sup>2</sup> between	0.5207	0.8949
<b>R<sup>2</sup> overall</b>	0.387	0.6596

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