Bankruptcy Policy Reform and the Total Factor Productivity Dynamics in Korea

2005 Youngjae Lim, Chin Hee Hahn



Questions

- What was the problem with the old bankruptcy policies before the reform ?
- What was the impact of bankruptcy policy reform in Korea ?
- Why is it important to have an efficient bankruptcy policies ?

Table 9.1	Bankrı	uptey Filing	s before and	d after the C	Crisis (unit:	number of (cases, %)	
Bankruptey Procedure	1995	1996	1997	1998	1999	2000	2001	2002
Reorganization	79	52	132	148	37	32	31	:9
	(76.0)	(65.8)	(26.8)	(14.9)	(9,1)	(13.2)	(12.3)	(15.3)
Composition	13	9	322	728	140	78	51	23
	(12.5)	(11.4)	(65.5)	(73.3)	(34.4)	(32.2)	(20.2)	(18.6)
Liquidation	:2	18	38	117	230	132	170	82
	(11.5)	(22.8)	(7.7)	(11.8)	(56.5)	(54.6)	(67.5)	(66.1)
Total	104	79	492	993	407	242	252	124
40 00 000 maging ar	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

Source: Supreme Court of Korea (various issues),

Notes: The year 2002 covers January to October, Numbers in parentheses denote the percentage,

	Insolvent Firms' Procedure by the <i>Chaebol</i> Category (unit: trillion won, %) 1997 1998				1999						
	No Procedure	Composition	Corporate Reorganization	No Procedure	Composition	Corporate Reorganization	Workout	No Procedure		Corporate Reorganization	Workout
1–30 largest <i>chaebols</i> 31–60 largest <i>chaebols</i>	0.35 (3.38)	0.61 (5.80)	9.48 (90.82)	0.09983 (1.73)	0 (0.00)	0 (0.00)	5.669 (98.27)	0 (0.00)	0 (0.00)	0	3.455
61–300 largest chaebols	(0.00) 3.18	0 (0.00) 7.69	0.19 (100) 12.67	0 (0.00) 0.7850	0 (0.00) 1.560	0 (0.00) 6.795	5.713 (100)	0 (0.00)	0 (0.00)	(0.00) 0 (0.00)	(100) 0.5862 (100)
Small <i>chaebols</i> and independent firms	(13.51) 3.95 (29.16)	(32.66) 1.32 (9.73)	(53.84) 8.27 (61.11)	(3.54) 2.090 (24.44)	(7.03) 1.638 (19.16)	6.795 (30.62) 1.469 (17.18)	13.05 (58.81) 3.354 (39.22)	0 (0.00) 0.4627 (1.69)	1.081 (6.73) 0.9036 (3.29)	0.2857 (1.78) 0.4040 (1.47)	14.71 (91.50) 25.68

Source: Lim (2003).

Notes: The frequencies are weighted by the asset size. Author's calculation for all the firms in the National Information and Credit Evaluation (NICE) data. Numbers in parentheses denote the percentage.

		De	pendent Variable: Producti	vity	
Independent Variable	For the 1996 Cohort (1)	For the 1997 Cohort (2)	For the 1998 Cohort (3)	For the 1999 Cohort (4)	For the 2000 Cohor (5)
1993	-0.0687115	-0.0820866	-0.0069199	0.0251072	0.0092007
	(0.1739958)	(0.0596231)	(0.035766)	(0.0527104)	(0.0795996)
1994	-0.0629782	-0.0815479	-0.0366698	-0.0219148	-0.0277665
	(0.1739847)	(0.0602887)	(0.0347451)	(0.0500552)	(0.0750421)
1995	-0.0588727	-0.1367584**	-0.0390412	0.0127083	-0.0821738
	(0.1739736)	(0.0588782)	(0.0339194)	(0.0474052)	(0.0711893)
1996	-0.3647536	-0.1347013**	0.0070321	0.0317036	-0.0124563
	(0.02245488)	(0.0595412)	(0.0334223)	(0.0470457)	(0.0700231)
1997	-0.2869542	-0.2780865**	-0.0574577	-0.0368554	0.0304901
	(0.2245442)	(0.063298)	(0.0356012)	(0.0460487)	(0.0689116)
1998	-0.1409918	-0.2565868**	-0.3211885**	-0.1993039**	-0.003248
	(0.1739603)	(0.0650112)	(0.0447192)	(0.0648769)	(0.0711459)
1999	-0.1321559	-0.1544865**	-0.1599611**	-0.1475066**	-0.2036022**
	(0.2245506)	(0.0700572)	(0.0466198)	(0.0722738)	(0.091783)
2000	-0.1572699	-0.1793303**	-0.1627449**	-0.2222749**	-0.3875751**
	(0.2245766)	(0.0765336)	(0.0488477)	(0.0778949)	(0.1376069)
Year dummies included	Yes	Yes	Yes	Yes	Yes
Industry dummies included	Yes	Yes	Yes	Yes	Yes
No. of observations	40,205	40,476	41,025	40,588	40,373

 Table 9.3
 Productivity Dynamics of Bankruptcy Cohorts before and after Bankruptcy Policy Reform (firms undergoing corporate reorganization or composition)

Notes: Numbers in parentheses are standard errors. Independent variable = dummy variable denoting a specific cohort interacted with year and industry dummy. **Significant at the 5 percent level.

*Significant at the 10 percent level.

		De	pendent Variable: Profitab	ility	
Independent Variable	For the 1996 Cohort (1)	For the 1997 Cohort (2)	For the 1998 Cohort (3)	For the 1999 Cohort (4)	For the 2000 Cohort (5)
1993	-5.53285	-1.053267	1.02541	-2.983965	-4.046776
	(102.5908)	(35.0131)	(20.11472)	(28.94122)	(42.627)
1994	-5.593412	-2.923504	-0.1474853	-2.976718	-1.751188
	(102.5857)	(34.5993)	(19.65527)	(27.26436)	(39.96213)
1995	-3.757859	-4.626083	-0.618984	-2.501499	-7.389917
	(102.5831)	(34.20874)	(19.36783)	(26.70296)	(38.80357)
1996	-55.05091	-5.89941	-0.7878422	-2.480486	-2.169504
	(132,4078)	(34.98389)	(19.43056)	(26.52319)	(39.95305)
1997	-109.6434	-19.09772	-3.990996	-5.698947	-1.671837
	(102.5782)	(34.97537)	(20.27411)	(26.16555)	(38.25027)
1998	-3.665419	-29.41768	-32.68748	-31.58403	-13.42344
	(102.5801)	(37.19917)	(24.80246)	(36.19649)	(41.20706)
1999	-0.8003833	-12.61717	-5.174351	-15.59426	-19.05743
	(132.4098)	(36.73676)	(22.27227)	(31.50063)	(50.03865)
2000	-10.02233	-1.937577	-0.7337271	1.431097	-4.809503
	(132.4134)	(41.18623)	(24.02397)	(35.79111)	(59.18531)
2001	36.11783	9.827578	0.1038245	9.514607	-99.89773
	(132.4123)	(41.85452)	(25.12973)	(37.65765)	(61.25584)
Year dummies included	Yes	Yes	Yes	Yes	Yes
Industry dummies included	Yes	Yes	Yes	Yes	Yes
No. of observations	52,026	52,345	53,031	52,520	52,236

 Table 9.4
 Profitability Performance of the Bankruptcy Cohorts before and after Bankruptcy Policy Reform (firms undergoing corporate reorganization or composition)

Notes: Numbers in parentheses are standard errors. Independent variable = dummy variable denoting a specific cohort interacted with year and industry dummy. **Significant at the 5 percent level.

*Significant at the 10 percent level.

			Under 5	5 Years				
	1-	3	4	5	Tot	al	Over 5	Years
Year	Number of Plants	Current Output						
1995	53.32	17.13	14.22	9.09	67.54	26.22	32.46	73.78
1996	47.60	15.36	18.68	11.11	66.29	26.46	33.71	73.54
1997	45.40	14.77	18.67	10.63	64.08	25.40	35.92	74.60
1998	39.45	12.77	18.63	8.68	58.08	21.45	41.92	78.55

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			Within :	5 Years			Curring M	
	1-	3	4	5	Tot	al	Survive M 5 Ye	and the second second
Year	Number of Plants	Current Output						
1990	36.85	13.36	15.71	6.48	52.57	19.85	47.43	80.15
1991	37.41	14.52	17.11	7.62	54.52	22.14	45.48	77.86
1992	39.28	15.08	16.72	7.77	56.00	22.85	44.00	77.15
1993	43.71	14.92	20.23	9.13	63.93	24.05	36.07	75.95

Source: Hahn (2000).

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Table 9.	7 Ave	rage Product	ivity of Plant G	roups, 1990-9	98	
		Е	Intry		Exit	
Year	Continuing	Birth	Switch-In	Death	Switch-Out	Total
1990	-0.005			-0.044	-0.026	-0.016
1991	0.046	-0.031	0.041	-0.003	0.050	0.026
1992	0.061	-0.005	0.061	0.018	0.068	0.046
1993	0.087	0.030	0.096	0.051	0.101	0.072
1994	0.132	0.056	0.141	0.101	0.144	0.118
1995	0.190	0.132	0.199	0.150	0.202	0.174
1996	0.197	0.143	0.208	0.160	0.214	0.185
1997	0.239	0.177	0.252	0.182	0.245	0.218
1998	0.256	0.200	0.267			0.249

Source: Hahn (2000).

Note: Unweighted averages.

	Births 1991	Births 1993	Births 1995
Deaths 1992	-0.065	allerente de marti	
	(0.005)		
Deaths 1993	-0.044		
	(0.004)		
Deaths 1994	-0.036	-0.042	
	(0.004)	(0.003)	
Deaths 1995	-0.032	-0.032	
	(0.004)	(0.003)	
Deaths 1996	-0.048	-0.030	-0.053
	(0.004)	(0.003)	(0.003)
Deaths 1997	-0.038	-0.044	-0.039
	(0.003)	(0.002)	(0.002)

Source: Hahn (2000).

Note: Numbers in parentheses are standard errors.

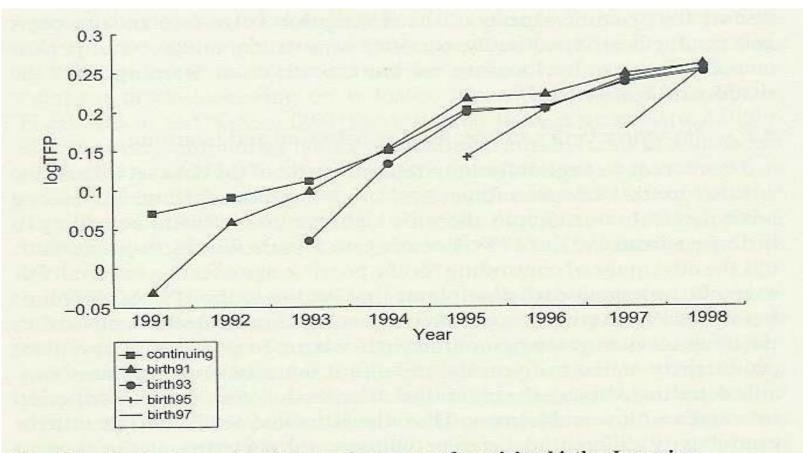


Fig. 9.1 Postentry productivity performance of surviving births: Learning *Source:* Hahn (2000).

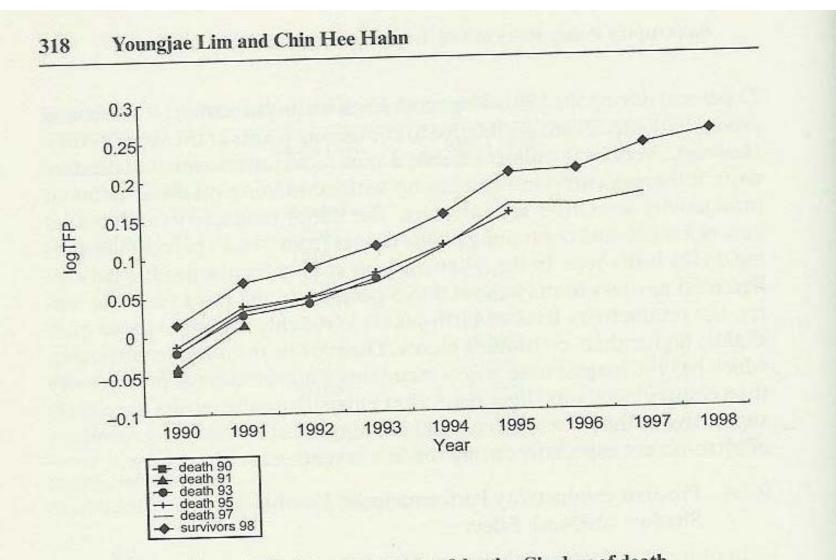


Fig. 9.2 Pre-exit productivity performance of deaths: Shadow of death *Source:* Hahn (2000).

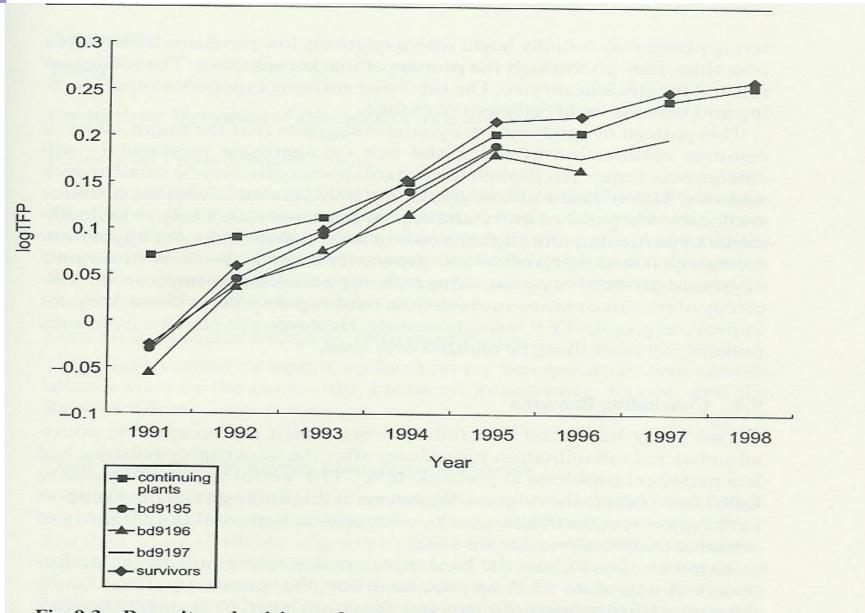


Fig. 9.3 Pre-exit productivity performance of deaths among 1991 births