

FOUNDATION OWNERSHIP AND FIRM PERFORMANCE

INTERNATIONAL EVIDENCE



https://www.enterprisefoundations.dk/











Enterprise Foundations

- Foundations that own companies (at least 20 % of voting rights in this study)
- Governed by a foundation board according to a charter and purpose decided by the founder
- Typical goals
 - Company survival
 - Philanthropy
 - Founding family support
- Supervision by a foundation authority
- Created by donation





Company



20 Foundation-Owned Companies around the World

- A. P. Møller- Mærsk Denmark
- Armani Italy
- Bertelsmann-Germany
- Robert Bosch Germany
- CaixaBank Spain
- Carl Zeiss Germany
- Carlsberg Denmark
- The Guardian UK
- Hershey USA
- Inter Ikea Switzerland
- Investor (Wallenberg) Sweden
- Kavli Norway
- Kuehne + Nagel Switzerland
- Lloyds Register UK
- Mahle Germany
- Norske Veritas (DNV GL) Norway
- Novo Nordisk Denmark
- Pierre Fabre France
- Rolex Switzerland
- Tata Sons India



]	Number of	
Country	firms	% of Market Cap
Denmark	35	63,0%
Sweden	32	18,9%
India	27	6,1%
Germany	22	3,8%
Austria	17	26,1%
United States	11	1,1%
Norway	9	7,9%
Spain	9	0,2%
Switzerland	8	5,0%
Netherlands	7	14,2%
Luxembourg	6	61,7%
Belgium	5	0,7%
Finland	5	3,0%
Italy	4	6,3%
Pakistan	3	0,0%
Poland	3	0,0%
Brazil	3	0,1%
China	3	0,1%
Chile	3	1,6%
United Kingdom	2	0,7%
Turkey	2	3,5%
Croatia	2	1,0%
Bosnia and		
Herzegovina	2	0,0%
France	1	0,0%
Total	237	2,4%

Country breakdown of listed FoFs

1/3 Nordic % European

1% of Global Market VAlue

And counting....



Competing Theories

Agency Theory View

- Foundation-owned companies will underperform, because
 - Foundations (non-profits) have little or no profit motive (Fama and Jensen 1983)
 - Foundation-owned firms cannot (fully) diversify ownership and risk (Fama and Jensen 1983)
 - Foundation-owned companies are not disciplined by the market for corporate control (Manne 1965)

Purpose view

- Foundation owned companies benefit from
 - Absence of profit incentives (Hansmann 1980)
 - Greater social trust (Mayer 2020)
 - Long-term ownership commitment (Thomsen et al. 2018)
 - Purposeful ownership (British Academy 2018, 2019, 2021; Mayer 2019, 2020)
 - Motivated employees (Henderson and van den Steen 2015)
 - Virtual ownership (Hansmann and Thomsen 2021)



Note: Two types of enterprise foundations

➤ Charitable foundations with a philanthropic purpose (e.g. the Carlsberg foundation)

➤ Family foundations: support a founding family (e.g. Austrian private foundations or Anheuser Busch Foundation)

> Both may or may not have a formal company purpose



Competing Theories of Foundation Ownership

sStandard Agency Theory View

- Foundation-owned companies will underperform, because
 - Foundations (non-profits) have little or no profit motive (Fama and Jensen 1983)
 - Foundation-owned firms cannot (fully) diversify ownership and risk (Fama and Jensen 1983)
 - Foundation-owned companies are not disciplined by the market for corporate control (Manne 1965)

Purpose view

- Foundation owned companies benefit from
 - Absence of profit incentives (Hansmann 1980)
 - Trustworthiness (Mayer 2020)
 - Purposeful ownership (British Academy 2018, 2019, 2021; Mayer 2019, 2020)
 - Motivated employees (Henderson and van den Steen 2015)
 - Long-term ownership commitment (Thomsen et al. 2018)



Data

- All publicly listed foundation-owned firms around the world (that we could find)
- Two control groups: family-owned and investor-owned companies in the same industry and size class
- Final sample: Unbalanced panel of 318 publicly listed firms (106 FoFs, 106 Family Firms and 106 Investor-owned firms) and 3000+ firm-year observations
- Time period 2000 2020
- Financial information from Bloomberg etc.



Performance measures

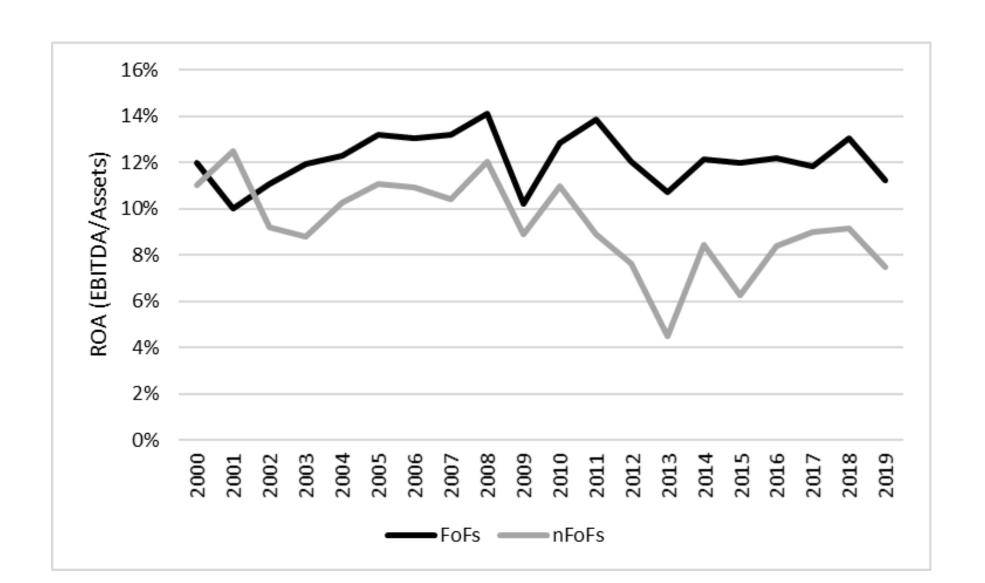
- Standard finance measures: ROA, firm value, shareholder returns, sales growth...
- Acquisition performance: Market reactions to acquisitions
- Sustainability: ESG ratings



Financial Performance



Profitability of Foundation-Owned Forms vs Control Group



Univariate Analysis

Parametric test

	Number of				
	Observations		<u>Means</u>		<u>Differences in means</u>
Variables	FOFs	nFoFs	FOFs	nFoFs	FoF-nFoF
ROA	1,674	3,691	11.84%	9.47%	2.37%***
Firm Value	1,493	3,415	1.66	1.36	0.30***
Stock return	1,323	3,183	19.45%	16.49%	2.96%**
Growth	1,585	3,514	7.69%	7.54%	0.14%

Non-parametric test

	Number of Observations			Rank Sum	<u>.</u>	<u>Differences in rank sum</u>
Variables	FOFs	nFoFs	Z	FOFs	nFoFs	nFoFs-FoFs
ROA	1,674	3,691	-8.219	4923358	9470937	4547579***
Firm Value	1,493	3,415	-5.707	3925193.5	8121492.5	4196299***
Stock return	1,323	3,183	-2.219	3069638	7084633	4014995**
Growth	1,585	3,514	-1.2	4100123	8902327	4802204



Regression results (Hypothesis 1): FoFs vs nFoFs

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
VARIABLES	ROA	Firm Value	Stock return	Sales	ROA	Firm Value	Stock return	Sales Growth
				Growth				
								_
Foundation-o.	0.00666	0.241	-0.0151	-0.00902	0.0235**	0.354**	-0.00575	-0.00914
	(0.0170)	(0.252)	(0.0199)	(0.0129)	(0.0109)	(0.172)	(0.0159)	(0.00910)
Firm size	0.0117***	-0.00384	-0.00896*	-0.00387	0.0101***	-0.0341	-0.0108***	-0.00556*
	(0.00438)	(0.0581)	(0.00493)	(0.00394)	(0.00378)	(0.0411)	(0.00407)	(0.00321)
Leverage	-0.0982***	-0.0987	0.0367	0.0256	-0.114***	-0.414	-0.00470	0.0279
	(0.0356)	(0.575)	(0.0626)	(0.0318)	(0.0304)	(0.501)	(0.0567)	(0.0309)
PPE/Sales	0.00491	-0.125	-0.00632	-0.0255	0.00395	-0.207***	-0.0119	-0.0265
	(0.00930)	(0.0842)	(0.0302)	(0.0249)	(0.00945)	(0.0699)	(0.0221)	(0.0188)
R&D/Sales	-0.143***	0.528***	-0.00897	0.0163	-0.113***	0.462***	-0.0103	0.0106
	(0.0236)	(0.138)	(0.0320)	(0.0182)	(0.0330)	(0.144)	(0.0236)	(0.0137)
Firm Age	-3.65e-05	-0.00374	0.000308	-0.000192	-0.000350**	-0.00439**	7.72e-05	-0.000338***
	(0.000167)	(0.00253)	(0.000260)	(0.000163)	(0.000135)	(0.00197)	(0.000216)	(0.000125)
Growth	0.0306*	0.551***	0.239***		0.0438***	0.599***	0.259***	
	(0.0172)	(0.178)	(0.0527)		(0.0167)	(0.185)	(0.0522)	
Intangibility	-0.0347	-0.780	-0.0137	0.0811*	-0.0147	-0.691*	-0.0140	0.0327
	(0.0301)	(0.522)	(0.0505)	(0.0425)	(0.0184)	(0.353)	(0.0446)	(0.0335)
Industry average					0.274*	0.774***	0.420**	0.612***
					(0.156)	(0.142)	(0.171)	(0.182)
Country average					0.825***	0.772***	0.719***	0.804***
					(0.110)	(0.111)	(0.181)	(0.181)
Constant	0.0961***	0.761**	-0.0225	0.0919***	-0.00749	-0.273	-0.0728	-0.0685*
	(0.0275)	(0.318)	(0.0569)	(0.0339)	(0.0355)	(0.388)	(0.0595)	(0.0357)
Time (year) effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Country effects	Yes	Yes	Yes	Yes	No	No	No	No
Industry effects	Yes	Yes	Yes	Yes	No	No	No	No
Observations	3,123	3,035	2,954	3,128	3,141	3,053	2,972	3,146
R-squared	0.527	0.419	0.264	0.163	0.426	0.333	0.244	0.141

 We separately compared the performance of FoFs with investor-owned and family-owned firms with qualitatively similar results



Regression results (Hypothesis 2): Charitable vs. Private Foundations

	(1)	(2)	(3)	(4)
VARIABLES	ROA	Firm Value	Stock return	Growth
~	0.004.5	0.404	0.44044	0.0404
Charitable foundation	0.0316	0.191	0.119**	-0.0606
	(0.0272)	(0.576)	(0.0547)	(0.0391)
Firm size	0.00799	0.136	-0.0384***	0.0110**
	(0.00543)	(0.147)	(0.00932)	(0.00535)
Leverage	-0.0308	0.809	-0.162	-0.0214
	(0.0450)	(1.086)	(0.122)	(0.0896)
PPE/Sales	-0.0290***	-0.270	-0.0519	-0.0618**
	(0.00960)	(0.247)	(0.0345)	(0.0292)
R&D/Sales	-0.309***	0.410	0.261**	-0.137*
	(0.115)	(2.841)	(0.123)	(0.0706)
Firm Age	-1.28e-05	-0.00881	0.000396	0.000199
	(0.000284)	(0.00686)	(0.000435)	(0.000340)
Growth	0.0490***	0.723**	0.501***	
	(0.0137)	(0.296)	(0.152)	
Intangibility	-0.157***	-3.287***	-0.0724	0.0306
	(0.0455)	(1.235)	(0.117)	(0.0527)
Constant	-0.0290	-2.683**	0.0520	0.0493
	(0.0443)	(1.249)	(0.122)	(0.0749)
Time (year) eff.	Yes	Yes	Yes	Yes
Country effects	Yes	Yes	Yes	Yes
Industry effects	Yes	Yes	Yes	Yes
Observations	837	807	779	837
R-squared	0.618	0.578	0.359	0.323



Robustness checks

- Heckman (1979) two-step treatment effects model
- (Bad) Instrumental variable regressio
- Subsamples
 Enterprise foundations with majority control (e.g. more than 50% control)

- Acquisition performance (event studies)
-
- Qualitatively similar results



Acquisition Performance



Stock Market Reactions to Acquisitions

- We use an event study method to test the robustness of the results since an event study can help to identify a causal impact of foundation ownership on performance.
- Our events of interest are announcements by foundation-owned companies and non-foundation-owned control companies to acquire controlling equity stakes in target firms.
- We use an estimation window of 250 days [- 11, -260] to obtain the OLS parameters.
- We apply four event windows namely, [-2,2], [-5,5], [0,1] and [0,2] in our study in the calculation of cumulative abnormal returns (CARs).
- The events occur between 2012 and 2020 and they cover 469 announcements from 182 sample firms (both FoFs and nFoFs)
- The data on corporate acquisitions is drawn from BvD Zephyr.
- The abnormal returns are estimated using the market model following Brown and Warner (1980, 1985) surrounding the days of the announcement, where the benchmark for the stock return of firm i is the return on the respective domestic market index.



Regression results (market reactions to acquisitions)

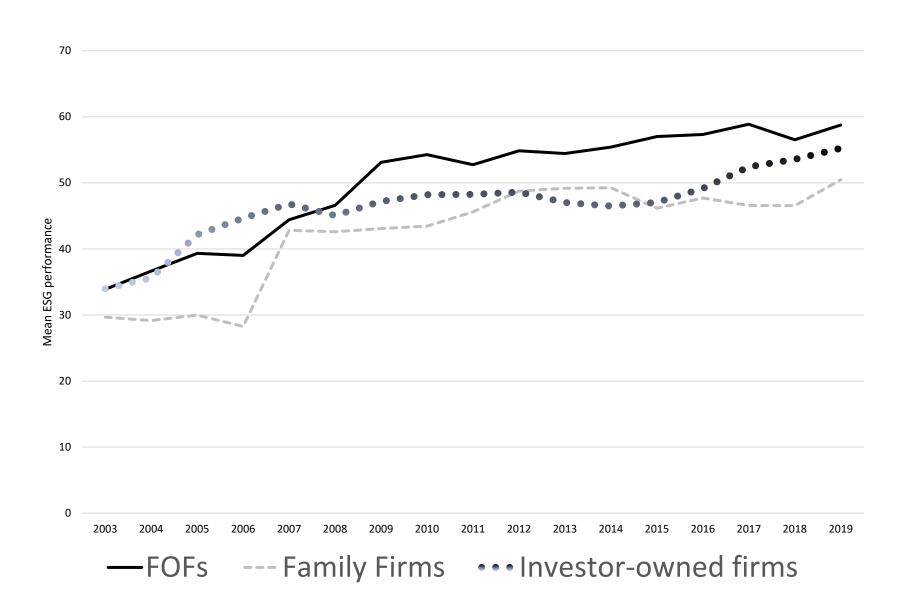
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
VARIABLES	CAR[-5,5]	CAR[-5,5]	CAR[-2,2]	CAR[-2,2]	CAR[0,1]	CAR[0,1]	CAR[0,2]	CAR[0,2]
P 1.1	0.0157		0.0112		0.00021		0.0104	
Foundation-o.	-0.0157		-0.0113		-0.00831		-0.0134	
Cl. 1.11	(0.0172)	0.0200**	(0.00753)	0.0000444	(0.0106)	0.0010*	(0.0119)	0.0107*
Charitable		-0.0399**		-0.0608***		-0.0219*		-0.0197*
foundation	0.00730*	(0.0181)	0.00120	(0.0163)	0.00302	(0.0118) -0.00654***	0.00220	(0.0110)
Firm size		0.00311	-0.00139 (0.00266)	-0.00542	(0.00302)		0.00330 (0.00343)	-0.00408*
T	(0.00441)	(0.00373)	((0.00526)	((0.00210)	((0.00221)
Leverage	0.0285	-0.00973	0.0696**	-0.0201	0.0647*	0.0137	0.0551	0.00223
G 4	(0.0495)	(0.0365)	(0.0303)	(0.0386)	(0.0351)	(0.0209)	(0.0376)	(0.0214)
Growth	-0.00380	-0.0127	-0.00154	-0.0569	-0.000753	0.0158	0.000778	0.0275
G 1 D	(0.0129)	(0.0474)	(0.0104)	(0.0343)	(0.00908)	(0.0306)	(0.0105)	(0.0268)
Cash Payment	0.0208*	-0.00304	0.00388	-0.00304	0.00856	-0.00344	0.0120	-0.00175
a 1.5	(0.0117)	(0.0129)	(0.00807)	(0.0102)	(0.00699)	(0.00729)	(0.00811)	(0.00815)
Stock Payment	0.0159	-0.00520	0.0179	0.00383	0.000993	-0.0145	0.00159	-0.0106
* * * * * *	(0.0249)	(0.0340)	(0.0232)	(0.0416)	(0.0165)	(0.0177)	(0.0201)	(0.0183)
Listed dummy	0.0106	0.0109	0.0176*	0.0105	0.0106	0.0114	0.0128	0.00997
	(0.0118)	(0.0157)	(0.0101)	(0.0121)	(0.00843)	(0.00718)	(0.00883)	(0.00650)
Firm age	2.81e-05		-7.91e-05		0.000137		0.000128	
	(0.000182)		(0.000126)		(0.000115)		(0.000126)	
Sic diff.	-0.0212**	0.00207	-0.00159	0.0263**	-0.00707	0.0144***	-0.00318	0.0133**
	(0.00921)	(0.0117)	(0.00761)	(0.0107)	(0.00660)	(0.00523)	(0.00721)	(0.00522)
Deal size	0.0603	5.769	-0.366	2.969	0.327	4.220**	-0.694	3.339**
	(0.725)	(4.140)	(0.435)	(2.564)	(0.388)	(1.912)	(0.442)	(1.611)
Prior stake	0.0201	-0.0111	0.00298	-0.0270**	0.0148	-0.0227***	0.0201	-0.0289***
	(0.0151)	(0.0332)	(0.0139)	(0.0133)	(0.0118)	(0.00602)	(0.0143)	(0.00519)
Industry avg.		0.597**	1.589***	0.180		0.167		0.243*
		(0.274)	(0.356)	(0.255)		(0.116)		(0.126)
Country avg.		-0.00135	0.924**			-0.119		-0.135
		(0.345)	(0.427)			(0.190)		(0.170)
Constant	-0.466	0.0192	0.101	0.0726	-0.436*	0.0625**	-0.316	0.0424
Country effects	Yes	No	No	Yes	Yes	No	Yes	Yes
Year effects	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Industry effects	Yes	No	No	No	Yes	No	Yes	Yes
Observations	2,431	748	1,105	340	442	136	663	204
R-squared	0.435	0.296	0.351	0.488	0.501	0.428	0.500	0.394



Sustainability (ESG ratings)



Sustainability - ESG ratings





ESG Regressions

-				
	(1)	(2)	(3)	(4)
VARIABLES	ESG	ENV	SOC	GOV
FOWN	10.05**	9.853*	13.08***	5.501
	(4.576)	(5.611)	(4.428)	(6.271)
Leverage	1.528	-6.232	-0.00327	7.501
	(8.752)	(14.15)	(10.64)	(11.30)
Firm size	9.548***	10.09***	9.985***	8.795***
	(1.064)	(1.580)	(1.158)	(1.525)
Cash holdings	-37.26***	-52.46***	-39.64***	-20.06
	(11.50)	(16.03)	(12.64)	(15.82)
Firm value	0.833	1.117	0.274	1.097
	(1.053)	(1.387)	(1.274)	(1.464)
R&D/Sales	38.09	29.02	48.91	21.04
	(25.53)	(28.63)	(32.04)	(24.90)
ROA	26.16*	45.21*	36.74**	-9.654
	(15.01)	(26.57)	(17.70)	(18.73)
Constant	-73.69***	-73.18***	-77.78***	-68.60***
	(13.08)	(19.15)	(13.37)	(17.67)
Time (year) eff.	Yes	Yes	Yes	Yes
Country effects	Yes	Yes	Yes	Yes
Industry effects	Yes	Yes	Yes	Yes
Observations	868	868	868	868
R-squared	0.666	0.612	0.645	0.483



Other sustainability measures

	(1)	(2)	(3)	(4)	(5)
VARIABLES	Employee satisfaction	C02 Emmissions Intensity	Waste Recycling ratio	LTIR (Employees)	LTIR (All Contractors
FOWN	4.282**	-59.11**	0.0547**	-1.611***	-0.828**
	(1.925)	(25.09)	(0.0229)	(0.499)	(0.402)
Firm Size	-0.272	-1.559	-0.0157*	-0.791***	-0.675***
	(0.768)	(9.002)	(0.00834)	(0.133)	(0.148)
Leverage	5.223	117.4	-0.139**	1.060	1.884*
	(5.260)	(88.14)	(0.0619)	(1.100)	(1.118)
Firm value	-0.395	-18.34**	0.0412***	-0.585***	-0.474***
	(0.490)	(8.829)	(0.0105)	(0.167)	(0.152)
ROA	34.73***	-7.855	0.393**	8.113***	8.353***
	(10.26)	(203.3)	(0.159)	(2.036)	(2.102)
Cash holdings	-2.882	-334.1***	-0.574***	-5.579***	-6.008***
	(7.690)	(98.33)	(0.0846)	(1.832)	(2.307)
Constant	45.96***	335.3***	-0.142	29.12***	22.22***
	(6.002)	(92.89)	(0.144)	(10.17)	(4.299)
Time (year) eff.	Yes	Yes	Yes	Yes	Yes
Country effects	Yes	Yes	Yes	Yes	Yes
Industry effects	Yes	Yes	Yes	Yes	Yes
Observations	311	1,395	864	801	884
R-squared	0.582	0.596	0.621	0.614	0.575



ESG Scores: Charitable vs Family Foundations

				_
	(1)	(2)	(3)	(4)
VARIABLES	ESG	ENV	SOC	GOV
Charitable f.	4.632	(19.57**)	2.254	-6.377
	(4.899)	(7.412)	(8.046)	(11.24)
Leverage	-28.13	-37.08*	-23.93	-21.97
-	(17.27)	(20.60)	(20.76)	(23.32)
Firm size	6.408***	6.090**	7.109***	5.835***
	(1.809)	(2.489)	(2.242)	(2.049)
Cash holdings	-25.29*	-67.62***	-19.67	2.423
	(14.42)	(17.04)	(21.22)	(24.54)
Firm value	1.463	2.267	1.470	0.104
	(1.303)	(1.375)	(1.683)	(1.889)
R&D/Sales	-50.51***	-50.47**	-51.11***	-40.51
	(16.55)	(22.74)	(18.02)	(35.71)
ROA	0.521	-11.96	20.01	-17.05
	(18.86)	(21.86)	(21.35)	(30.21)
Constant	-23.80*	-25.09	-34.94*	-9.840
	(14.05)	(20.09)	(18.25)	(18.71)
Time (year) eff.	Yes	Yes	Yes	Yes
Country eff.	Yes	Yes	Yes	Yes
Industry eff.	Yes	Yes	Yes	Yes
-				
Observations	436	436	436	436
R-squared	0.756	0.751	0.707	0.587



Conclusion

- Foundation-owned firms have broadly similar financial performance
- Lower acquisition performance in companies owned by charitable foundations
- Good esg performance particularly compared to family-owned firms



So what?

- Enterprise foundation law
- Value of responsible long-run ownership => "Stewardship"
 - relevant for family businesses, coops and (at times) state-owned enterprises
- Similarities with purposeful companies
 - => company purpose needs not harm financial performance



TAK!





Enterprise Foundations

Taxation

Taxation of founders

 Founders typically escape estate taxes by donating to a foundation (wealth taxes, capital gains taxes, inheritance taxes)

Taxation of Foundations

- Charitable Foundations are typically tax exempt (or can deduct donations)
- Enterprise foundations are taxed on their business activity (corporate income taxes)

Bottom line

- Enterprise foundations pay very little tax at the foundation level
- Foundation-owned companies pay normal corporate taxes
- Typically no private tax incentive: (family) donation recipients pay income tax



DIF in DIFs test on ESG ratings Using the financial crisis 2008- as an experiment

	Model 1 (Full)	Model 2 (Restricted)
FOF×Post-Crisis	5.389**	5.819**
	(2.653)	(2.671)
Firm Controls	Yes	Yes (except the firm age variable)
Year effects	Yes	Yes
Firm Fixed Effects	Yes	Yes
Standard errors clustered by	Firm	Firm
Observations	563	479



ESG Ratings before and during the financial crisis

