Climate Change Shareholder Engagement and Systemic Downside Risk

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Research Question and Findings

- This paper studies the effects of shareholder engagement regarding Climate Change issues on the Systemic and Idiosyncratic risk trends of the approached firms.
- Climate Change investor engagement reduces both systemic and, specially, specific risk of US firms, with the effect being higher with more successful engagements. However, a global effect is not found.

Methodology

- Systematic and specific risk measures
 - Beta decomposition method proposed by Bollerslev, Patton and Quaedvlieg (2022)
- Matching
 - One-to-one genetic matching (Diamond and Sekhon, 2013)
- DID
 - With one of the risk measures as the outcome variable and shareholders' engagement as the treatment

$$RiskMeasure_{i,m} = \beta_1 Target_i * Post_{i,m} + \beta_2 Target_i + \beta_3 Post_{i,m} + \beta_4' Controls_{i,m} + \epsilon_{i,m}$$

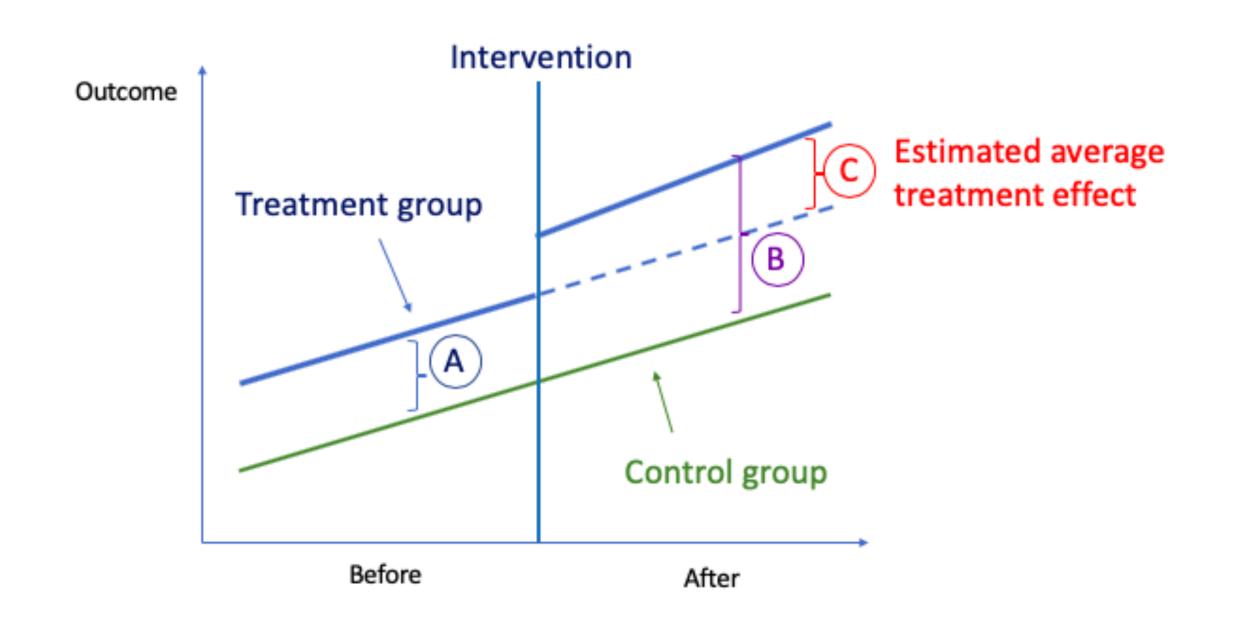


Table: Climate Engagement on Global Sample. Systemic Risk

	Dependent variable:				
	SystemicRisk				
	ALL	Below Mil 2	Mil 2 and above	Mil 3 and above	
	(1)	(2)	(3)	(4)	
Target x Post	-0.074*	-0.113	-0.068	-0.073	
	(0.044)	(0.093)	(0.049)	(0.070)	
Post	0.060	0.163**	0.049	0.081	
	(0.038)	(0.079)	(0.046)	(0.059)	
Target	4.391***	6.470***	4.401***	4.256***	
	(1.041)	(1.468)	(1.186)	(1.430)	
Year FE	Yes	Yes	Yes	Yes	
Country FE	Yes	Yes	Yes	Yes	
Sector FE	Yes	Yes	Yes	Yes	
Observations	10,705	1,700	9,005	4,112	
R^2	0.239	0.293	0.242	0.299	

Note:

Table: Climate Engagement on Global Sample. Specific Risk

	Dependent variable:				
	SpecRisk				
	ALL	Below Mil 2	Mil 2 and above	Mil 3 and above	
	(1)	(2)	(3)	(4)	
Target x Post	-0.020	-0.092	-0.008	-0.064	
	(0.037)	(0.068)	(0.041)	(0.053)	
Post	-0.007	0.026	-0.021	0.023	
	(0.037)	(0.058)	(0.043)	(0.057)	
Target	2.718***	3.434***	2.796***	2.810**	
	(0.834)	(1.075)	(0.937)	(1.156)	
Year FE	Yes	Yes	Yes	Yes	
Country FE	Yes	Yes	Yes	Yes	
Sector FE	Yes	Yes	Yes	Yes	
Observations	10,705	1,700	9,005	4,112	
R^2	0.337	0.407	0.335	0.392	

Note:

Table: Climate Engagement on US Sample. Systemic Risk

	Dependent variable:				
	SystemicRisk				
	ALL	Below Mil 2	Mil 2 and above	Mil 3 and above	
	(1)	(2)	(3)	(4)	
Target x Post	-0.136* (0.069)	-0.201 (0.135)	-0.145* (0.075)	-0.155* (0.091)	
Post	0.018 (0.054)	0.061 (0.067)	0.029 (0.061)	0.046 (0.074)	
Target	3.263** (1.462)	2.417 (2.251)	3.872*** (1.490)	3.566** (1.418)	
Year FE Country FE	Yes Yes	Yes Yes	Yes Yes	Yes Yes	
Sector FE Observations	Yes 3,262	Yes 476	Yes 2,786	Yes 1,945	
R ²	0.302	0.241	0.316	0.361	
Adjusted R ²	0.294	0.199	0.307	0.352	

Note:

Table: Climate Engagement on US Sample. Specific Risk

	Dependent variable:				
	SpecRisk				
	ALL	Below Mil 2	Mil 2 and above	Mil 3 and above	
	(1)	(2)	(3)	(4)	
Target x Post	-0.106** (0.052)	-0.131 (0.115)	-0.105* (0.057)	-0.144** (0.062)	
Post	-0.042 (0.050)	0.036 (0.089)	-0.057 (0.060)	-0.037 (0.067)	
Target	1.433 (1.035)	-0.548 (2.800)	1.780 (1.133)	1.532 (1.221)	
Year FE Country FE Sector FE Observations R ²	Yes Yes Yes 3,262 0.400	Yes Yes Yes 476 0.480	Yes Yes Yes 2,786 0.411	Yes Yes Yes 1,945 0.454	
Adjusted R ²	0.400	0.480	0.411	0.454	

Note:

Comments/Questions

- How to interpret the result that the treatment group has on average much higher BOTH systematic and specific risk?
- What are the variables included in the matching? Does the matched firm come from the same country and sector?