GREENWASHING AND ESG INVESTING AT A CROSSROADS



ECGI + Indiana U Kelley ICG - Public Lecture Series On Corporate Governance [December 7, 2023]



Pedro Matos

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DARDEN SCHOOL of BUSINESS

ESG INVESTING AT A CROSSROADS:

2021:

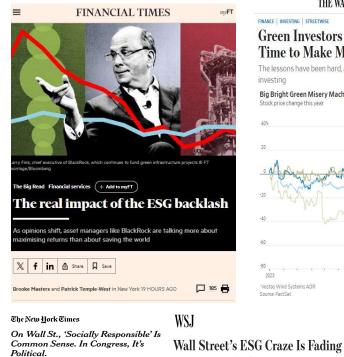
REUTERS

How 2021 became the year of ESG investing December 23, 2021

2022:



2023:



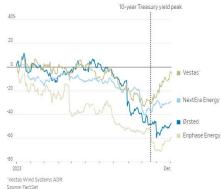
THE WALL STREET JOURNAL. Dec. 5, 2023

FINANCE INVESTING STREETWISE

Green Investors Were Crushed. Now It's Time to Make Money.

The lessons have been hard, and are a reminder of the basic facts of investing

Big Bright Green Misery Machine Stock price change this year



WSJ

Defense Stocks Benefit From War, **Renewing ESG Debate for Everyda** Investors hares of w ince Oct. 7

Dec. 2, 2023.

How 'ESG' came to mean everything and

Investors pulled more than \$14 billion from sustainable funds this year



2

nothing 15th November 2023, 06:30 EST

By Shane Shifflett Follow Nov. 19, 2023 5:30 am ET

'ESG' Is Too Important to Ax. Investors Say Bloomberg BI survey shows vast majority of C-suites, investors back ESG

ESG & Investing

Survey findings come as ESG fund flows show a mixed picture

Lawmakers are trying to restrict these investment choices in workplace retirement plans, but big fund managers are trying to give shareholders a voice.

ESG INVESTING AT A CROSSROADS (2):

Reasons to be a pessimist...

and tenth to ninetieth percentile range)





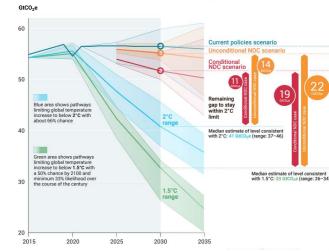
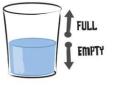


Figure ES.4 Global GHG emissions under different scenarios and the emissions gap in 2030 and 2035 (median estimate

https://www.unep.org /resources/emissionsgap-report-2023

... or an optimist?



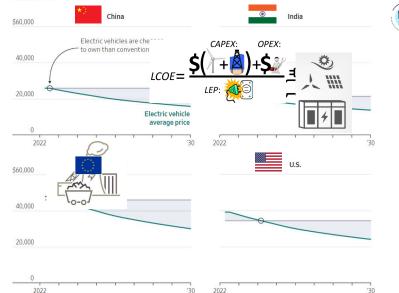
THE WALL STREET JOURNAL.

Now for Some Good News About Climate

By Ed Ballard Follow

Nov. 27, 2023 12:01 am ET

Projected ownership costs for mid-range electric vehicles and internal-combustion-engine vehicles in key markets



Note: Projections from 2023 onwards; price includes purchase price and cost of use; future cost projections are based on historic trends.

Source: Economics of Energy Innovation and System Transition

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ESG INVESTING AT A CROSSROADS (3):

...



... a risk management system?

...

- ... a philosophy?
- ... an ideology?
- ... "woke agenda"?



... hyperbole or nonsense?

ESG INVESTING AT A CROSSROADS (4): "GREENWASHING"?

Greenwashing

['grēn-,wo-shin]

The act of providing the public or investors with misleading or outright false information about the environmental impact of a company's products and operations.

Investopedia



Progress Report on Greenwashing

" ... greenwashing is a practice where sustainability-related statements, declarations, actions, or communications do not clearly and fairly reflect the underlying sustainability profile of an entity, a financial product or financial service. This practice may be misleading to consumers, investors, or other market participants."







Blowing the whistle on ESG

In Desiree Fixler's short time at Germany's top asset manager DWS Group, she made a ... In other words, she accused DWS of greenwashing. Jun 7, 2022 -

FT Financial Times

German police raid DWS and Deutsche Bank over greenwashing allegations

German police raided the offices of DWS and its majority owner Deutsche Bank on Tuesday morning as part of a probe into allegations of... May 31, 2022 -

FT Financial Times

DWS chief resigns after police raid over greenwashing claims

The chief executive of Germany's top asset management firm DWS Group has resigned hours after the company's offices in Frankfurt were raided... Jun 1, 2022 -

C Reuters

DWS to pay \$25 mln to end US probe into greenwashing, other issues

Deutsche Bank-controlled investment firm DWS will pay \$25 million to settle charges over misstatements regarding its environmental, social,...





FT Financial Times

SEC fines BNY Mellon over ESG in first case of its kind

The US Securities and Exchange Commission has fined BNY Mellon's investment adviser division \$1.5mn for allegedly misstating and omitting... May 23, 2022 -



NY MELL









FT Financial Times

Goldman Sachs to pay \$4mn penalty over ESG fund claims

Goldman Sachs has agreed to pay a \$4mn penalty over US regulatory charges that the bank's asset management division misled customers about...

Nov 22, 2022



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GREENWASHING AND ESG INVESTING AT A CROSSROADS

1. Background on ESG Investing

- Matos (CFA Institute, 2020) "ESG and Responsible Institutional Investing Around the World: A Critical Review"

2. Greenwashing: Do Investors "Walk the (ESG) Talk"?

- Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) "Do Responsible Investors Invest Responsibly?"

3. Does "Walking the (ESG) Talk" Result in Real Impact?

- Atta-Darkua, Glossner, Krueger & Matos (working paper, 2023) "Decarbonizing Institutional Investor Portfolios: Helping to Green the Planet or Just Greening Your Portfolio?"

4. Conclusions + Open Questions for Future Research

GREENWASHING AND ESG INVESTING AT A CROSSROADS

DISCLAIMERS:

Main message:

- It's good to have a healthy dose of skepticism!

- ESG investing is undergoing a shakeout in which "greenwash" and "hype" lose out but I see ESG factors increasingly part of the toolkit for investors to succeed (and for us as professors and students)!

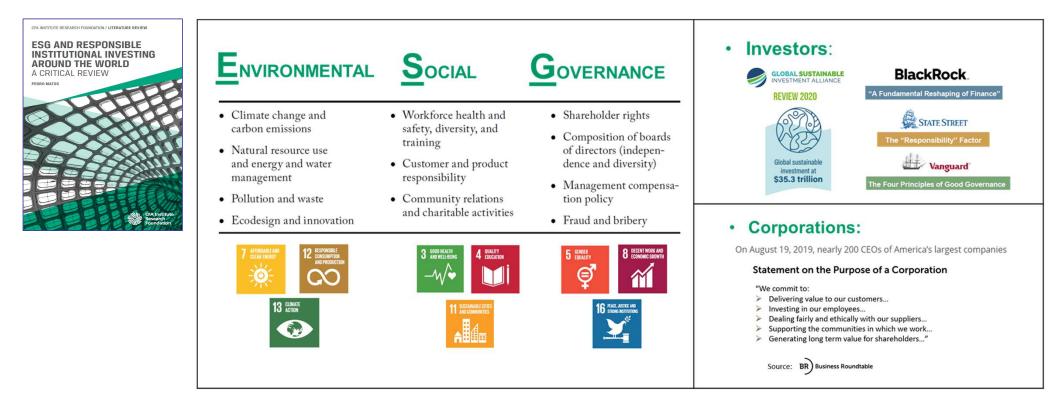
Caveats:

- a biased focus on my own journey in this topic (with special thanks to my co-authors!)

- there are a lot more papers than the ones I'll cite, there are **many other good surveys** (e.g. Starks AFA Presidential address 2023) and do watch **Kelley ICG /ECGI Public Lectures on ESG**!

beware of ESG "competency greenwashing" and recall Alex Edmans: "1.A story is not fact (it may not be true)
... 2. A fact is not data (it may not be representative) ... 3. Data is not evidence (it may not be supportive) ... 4.
Evidence may not be proof (it may not be universal) ... Even if you've documented causation (not just correlation) in one setting, it may not apply to other settings. Beware of studies that claim indisputable proof!"

TAKING A STEP BACK ... DEFINING "ESG INVESTING"



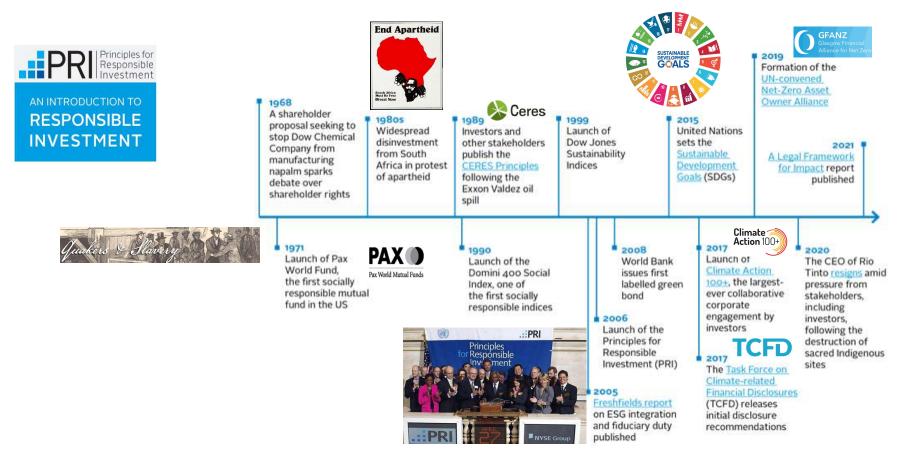
https://rpc.cfainstitute.org/en/research/foundation/2020/esg-and-responsible-institutional-investing

TAKING A STEP BACK ... DEFINING "ESG INVESTING" (2)



https://rpc.cfainstitute.org/en/research/foundation/2020/esg-and-responsible-institutional-investing

TWO STEPS BACK ... SHORT HISTORY OF ESG INVESTING



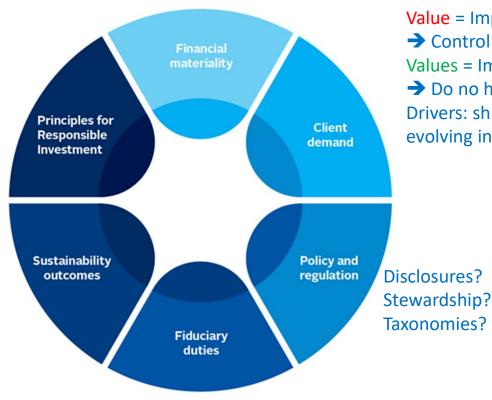
https://www.unpri.org/investment-tools/introductory-guides-to-responsible-investment

WHAT'S DRIVING ESG INVESTING?

PRI Principles?

 We will incorporate ESG issues into investment analysis and decision-making processes.
 We will be active owners and incorporate ESG issues into our ownership policies and practices.
 We will seek appropriate disclosure on ESG issues by the entities in which we invest.
 We will promote acceptance and implementation of the Principles within the investment industry.
 We will work together to enhance our effectiveness in implementing the Principles.
 We will each report on our activities and progress towards implementing the Principles.





ESG issues and financial performance?

Value = Improve Investments?
→ Control risk? Enhance returns?
Values = Improve the World?
→ Do no harm? Make a difference?
Drivers: shifting social landscape and evolving investor preferences?

Biden Vetoes Anti-ESG Investing Legislation?

https://www.unpri.org/investment-tools/introductory-guides-to-responsible-investment

HOW BIG IS ESG INVESTING?

Depends where you look!!!

M RNINGSTAR Oct. 25, 2023

Global Sustainable Fund Flows: Q3 2023 in Review

Inflows decrease further amid gloomy markets, but Europe continues to show resilience.

Billions

200

180 160

140

120

100

80 60

40

20

-20

03

2020

Exhibit 3 Quarterly Global Sustainable Fund Assets (USD Billion)

Exhibit 2 Quarterly Global Sustainable Fund Flows (USD Billion)

Europe

US

Rest of World

04 01 02 03

2023

0.1 0.2 0.3



Morningstar: Global Sustainable Fund Flows Q3 2023





Q4 Q1 Q2 Q3 Q4

HOW BIG IS ESG INVESTING?

Depends where you look!!!

\$2.7 trillion (2023-Q3)?

Morningstar: Global Sustainable Fund Flows Q3 2023

... \$30 trillion (2022)?

GSIA: Global Sustainable Investment Review 2022

Bloomberg

Global ESG Market Shrinks After Sizable Decline in US

The industry's assets fell to \$30.3 trillion from \$35 trillion
Drop in US tied to change in methodology for calcuating number

November 28, 2023

FIGURE 1

Snapshot of global sustainable investing assets, 2016–2022 (USD billions)

REGION	2016	2018	2020	2022
Europe	12,040	14,075	12,017	14,054
Canada	1,086	1,699	2,423	2,358
Australia & New Zealand	516	734	906	1,220
Japan	474	2,180	2,874	4,289
Sub-total (USD Billions)	14,115	18,688	18,220	21,921
% change		32%	-3%	20%
United States	8,723	11,995	17,081	8,400
Total (USD Billions)	22,838	30,683	35,301	30,321
% change		34%	15%	n/a







https://www.gsi-alliance.org/

HOW BIG IS ESG INVESTING?

Depends where you look!!!

\$2.7 trillion (2023-Q3)

Morningstar: Global Sustainable Fund Flows Q3 2023

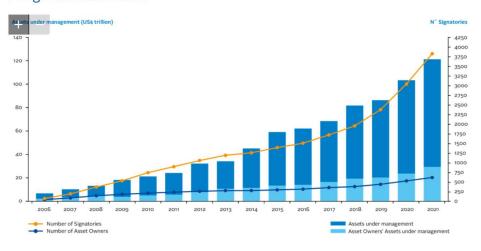
... \$35 trillion (2022)?

GSIA: Global Sustainable Investment Review 2020

...\$120 trillion (2021)?

PRI: UN-Sponsored Principles for Responsible Investment





https://www.unpri.org/about-us/about-the-pri

MY RESEARCH ON ESG INVESTING



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Launched in 2006, the Principles for Responsible Investing (PRI) is widely recognized as the most influential organization devoted to the advancement of ESG investing globally

https://www.unpri.org/about-us/about-the-pri

THE SIX PRINCIPLES AND SIGNATORIES' COMMITMENT

- We will incorporate ESG issues into investment analysis and decision-making processes.
 We will be active owners and incorporate ESG issues into our ownership policies and practices.
 We will seek appropriate disclosure on ESG issues by the entities in which we invest.
 We will promote acceptance and implementation of the Principles within the investment industry.
 We will work together to enhance our effectiveness in implementing the Principles.
- We will each report on our activities and progress towards implementing the Principles.



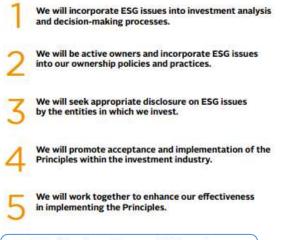




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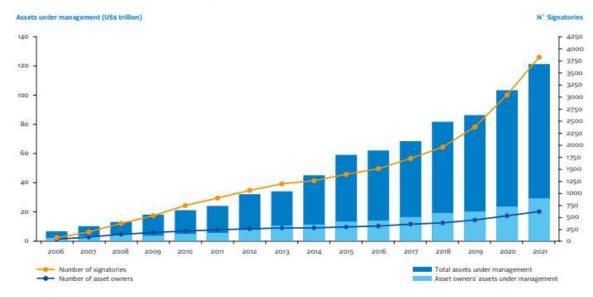
https://www.unpri.org/about-us/about-the-pri

THE SIX PRINCIPLES AND SIGNATORIES' COMMITMENT



We will each report on our activities and progress towards implementing the Principles.

The PRI has grown consistently since it began in 2006:



As of April 2021

Source: PRI Annual Report 2020 https://www.unpri.org/annual-report-2020/how-we-work/more/new-and-former-signatories



Principles for Responsible Investment

https://www.unpri.org/about-us/about-the-pri

Launched in 2006, the Principles for Responsible Investing (PRI) is widely recognized as the most influential organization devoted to the advancement of ESG investing globally

European-based THE SIX PRINCIPLES AND institutional investors SIGNATORIES' COMMITMENT lead in PRI signatories BENELUX NORDIC 204 (+199 We will incorporate ESG issues into investment analysis 100-4 (+23% and decision-making processes. UK & IRELAND 510 (+2 CEE & CIS 18 (+80% We will be active owners and incorporate ESG issues FRANCE into our ownership policies and practices. 240 CANADA GERMANY & AUSTRIA SOUTHERN 143 EUROPE SWITZERLAND We will seek appropriate disclosure on ESG issues 157 (+40 122 (+33%) JAPAN CHINA by the entities in which we invest. 587 (+27 84 (+17%) 39 (+77% MIDDLE EAST 14 (+100%) We will promote acceptance and implementation of the Principles within the investment industry. LATIN AMERICA (EX. BRAZIL) REST OF ASIA AFRICA 40 (+90%) 107 (+41% 88 (+101 BRAZIL We will work together to enhance our effectiveness 65 (+30%) in implementing the Principles. AUSTRALIA & NZ 197 (+16%) We will each report on our activities and progress towards implementing the Principles. Net new signatories vs 2017/18 Increase 1: As of 31st March 2020 2: Net new signatories since 1 April 2019

Source: PRI Annual Report 2020 https://www.unpri.org/annual-report-2020/how-we-work/more/new-and-former-signatories

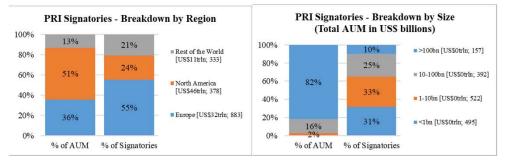
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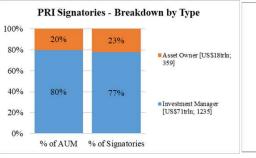


Table 2. Top PRI Reporting Signatories by Region (as of 2019)

Region	Investor Name	Signatory Year	Type*	Total AUM (in US\$ bn)
Europe	Amundi	2006	IM	\$1,626
	AXA Group	2012	AO	1,625
	Credit Suisse Group AG	2014	IM	1,354
	Legal & General Inv. Mgmt.	2010	IM	1,201
	Norges Bank Investment Management	2006	AO	976
North America	BlackRock	2008	IM	5,976
	The Vanguard Group, Inc.	2014	IM	4,867
	State Street Global Advisors	2012	IM	2,511
	Fidelity Investments	2017	IM	2,420
	Capital Group	2010	IM	1,677
Rest of the world	GPIF	2015	AO	1,377
	Japan Post Insurance Co.	2017	AO	660
	Korea National Pension Service	2009	AO	569
	Sumitomo Mitsui Trust Asset Mgmt.	2006	IM	554
	Nippon Life Insurance Co.	2017	AO	529

Figure 5. Statistics on PRI Signatories Reporting in 2019: AUM and Number of Signatories





PRI Signatories' Portfolio -Percent AUM by Asset Class

*IM stands for investment manager; AO stands for asset owner.

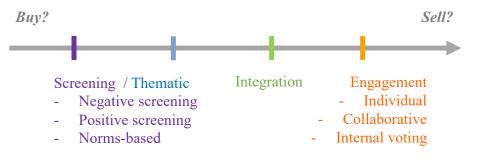
https://rpc.cfainstitute.org/en/research/foundation/2020/esg-and-responsible-institutional-investing

HOW TO INVEST RESPONSIBLY?









Screening:

• Negative screening: The exclusion from a portfolio of certain sectors, companies, or practices based on specific ESG criteria.

• **Positive/best-in-class screening:** Investment in companies selected for positive ESG performance relative to industry peers.

• Norm-based screening: Screening of investments against minimum standards of business practice based on international norms.

Thematic:

Investment in assets specifically related to sustainability (e.g., clean energy, green technology, or sustainable agriculture).

Integration:

The systematic and explicit inclusion of ESG factors into financial analysis.

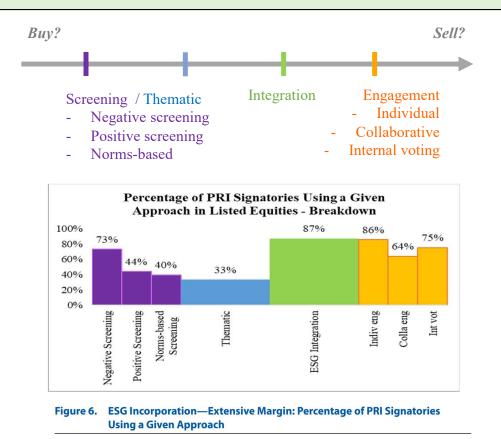
Engagement:

• Individual: The investor's internal staff using shareholder power to influence corporate behavior, including through direct corporate engagement (i.e., communicating with senior management and company boards) and filing shareholder proposals.

• **Collaborative:** *The conduct of corporate engagement, as defined above; however, it is undertaken jointly with other investors.*

• **Internal voting:** *The use of proxy voting guided by ESG guidelines where the voting decisions are undertaken internally and not outsourced to an external service provider.*

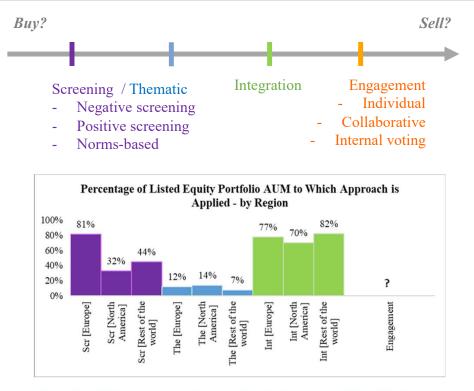




When surveyed on ESG incorporation, a large fraction of PRI signatories report high levels of engagement, ESG integration and negative screening.









When surveyed on ESG incorporation, a large fraction of PRI signatories report high levels of engagement, ESG integration (US) and negative screening (Europe).

GREENWASHING AND ESG INVESTING AT A CROSSROADS

1. Background on ESG Investing

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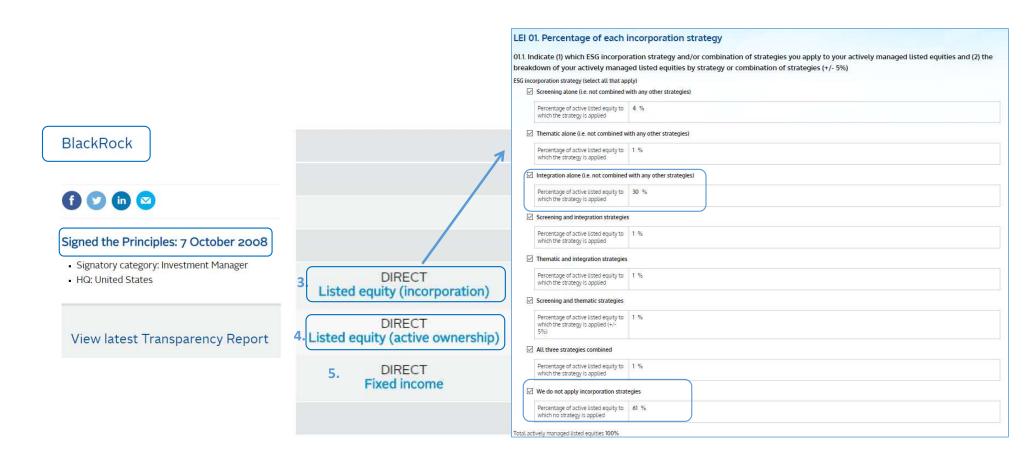
4. Conclusions + Open Questions for Future Research

Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) <u>Do Responsible Investors Invest</u> <u>Responsibly?</u>

- Responsible investing (RI) no-longer a fringe phenomenon in financial markets
 - USSIF (2018): \$12tn ... GSIA (2018): \$30tn ... PRI (2020): >\$100tn in assets?
 - What % of investors really implement ESG (or "greenwash") and does it lead to more sustainable capital allocation?
- ... yet, only emerging academic work on RI by institutional investors
 - ESG policies
 - Dyck et al. (2019); Starks, Venkat & Zhu (2018); Gibson & Krueger (2018)
 - Active ownership on ESG issues
 - Dimson, Karakaş & Li (2015, 2018)
 - Valuation & social preferences for RI of investors
 - Hartzmark & Sussman (2019); Riedl & Smeets (2017), Ceccarelli, Ramelli & Wagner (2019); Krueger (2015); Hong & Kacperczyk (2009); Renneboog, Ter Horst and Zhang (2008)
 - Institutional investor surveys on ESG and climate risk issues
 - Amel Zadeh & Serafeim (2018); Krueger, Sautner & Starks (2019)

Do Responsible Investors Invest Responsibly? Resultant have been block with the second second

Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) <u>Do Responsible Investors Invest</u> <u>Responsibly?</u>



Source: <u>https://www.unpri.org/signatory-directory/blackrock/948.article</u>

Do Responsible Investors Invest Responsibly?

Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest* <u>Responsibly?</u>

Data (cont.):

BlackRock https://www.blackrock.com/corporate/sustainability/pri-report

Principles for Responsible Investment 2020 Highlights

- BlackRock earned an A+ Strategy & Governance score, reflecting the strength of our overall sustainable investing and ESG integration programs. The median score for large asset managers was A.
- BlackRock Investment Stewardship (BIS) earned an A+ for Listed Equity Active Ownership. This stands out from the median score of B for large asset managers.
- Every BlackRock direct investment practice area improved its score with A+ earned in
 equities, fixed income, private equity, property, and infrastructure. BlackRock investment
 teams have dedicated significant resources in recent years to integrate ESG into investment
 practices and communicate their efforts clearly.
- BlackRock continues to increase transparency and report on new practice areas. In 2020 we reported our infrastructure solutions activities for the first time and received an A+.

Below is BlackRock's 2020 PRI assessment report card and for key highlights in our submission, read our RI Transparency Report.

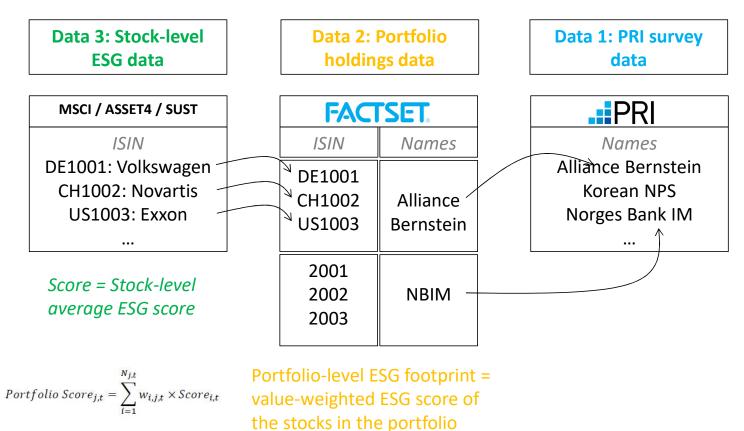
		2019 BLK Score	2020 BLK Score	2020 Median
	Strategy & Governance	A+	A+	А
	Listed Equity Incorporation	A	A+	А
	Listed Equity Active Ownership	A+	A+	В
	Fixed Income SSA	A	A+	В
	Fixed Income Corporate Financial	A	A+	В
Managed by BlackRock	Fixed Income Corporate Non- Financial	A	A+	В
	Fixed Income Securitized	В	A	в
	Private Equity	Α	A+	A
	Property	A	A+	В
	Infrastructure	А	A+	A

Full report >

https://www.blackrock.com/corporate/literature/publication/blk-pri-public-transparency-report-2020-web.pdf

Do Responsible Investor Invest Responsibly? Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) <u>Do Responsible Investors Invest</u> <u>Responsibly?</u>

Data (cont.):



Do Responsible Investors Invest Responsibly? Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest* <u>Responsibly?</u>

Results:

-> Growth in

signatories

number of PRI

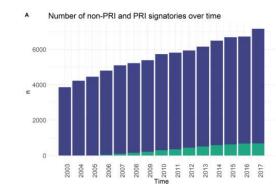


Fig. 1. The growth of the Principles for Responsible Investment

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5 20

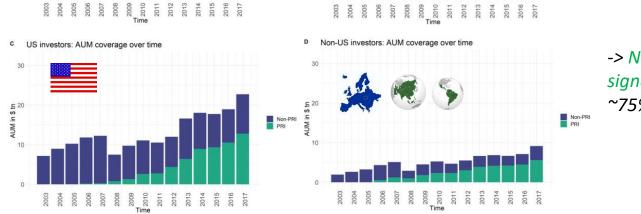
AUM in \$

Non-PRI PRI AUM coverage over time

-> Growth in \$ AUM of PRI signatories : ~60% by 2017 !

Non-PRI PRI

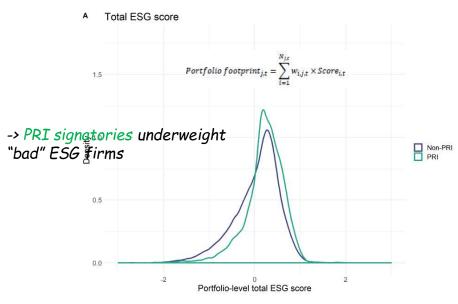
-> U.S. PRI signatories: late, ~ 50% of AUM



-> Non-U.S. PRI signatories: early, ~75% of AUM! Do Responsible Investors Invest Responsibly? Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) <u>Do Responsible Investors Invest</u> <u>Responsibly?</u>

Results (cont.):

Densities of portfolio-level ESG footprints: PRI signatories vs. non-PRI investors



PRI signatories "walk the ESG talk" in their portfolio holdings, but US-domiciled PRI signatories do not: is it "<u>GREENWASHING</u>"?

Table 3. Is the ESG portfolio footprint different for PRI signatory institutional investors?

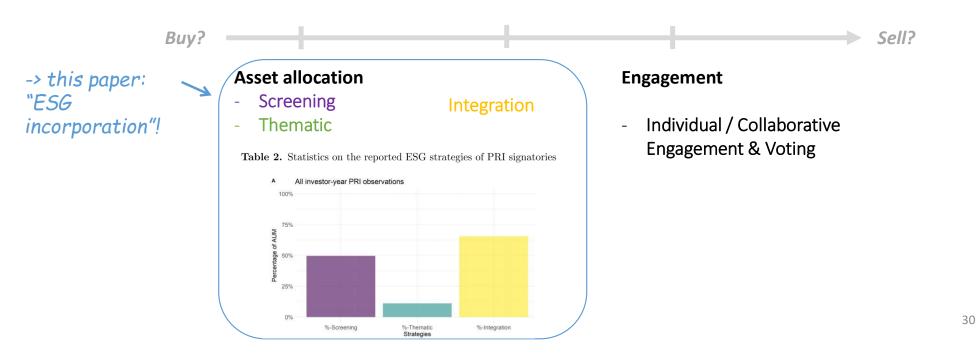
	Dependent variable:				
	Total ESG footprint (1)	Environmental footprint (2)	Social footprint (3)	Governance footprin (4)	
PRI dummy	-0.05^{*} (0.03)	-0.05 (0.03)	-0.03(0.02)	-0.04^{**} (0.02)	
Controls	Yes	Yes	Yes	Yes	
Year fixed effects	Yes	Yes	Yes	Yes	
Observations	43,620	43,620	43,620	43,620	
Adjusted R ²	0.35	0.36	0.31	0.25	
	Dependent variable:				
	Total ESG footprint (1)	Environmental footprint (2)	Social footprint (3)	Governance footprin (4)	
PRI dummy	0.07*** (0.02)	0.05*** (0.02)	0.06^{***} (0.01)	0.04^{*} (0.02)	
	Yes	Yes	Yes	Yes	
Controls			Yes	Yes	
Controls Year fixed effects	Yes	Yes	168		
	Yes 32,715	Yes 32,715	32,715	32,715	



Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) <u>Do Responsible Investors Invest</u> <u>Responsibly?</u>

Results (cont.):

• PRI survey uses commonly-used taxonomy of RI (Amel-Zadeh & Serafeim, 2018; CFAI, 2015; GSIA, 2018; see also AQR, 2019)



Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest Responsibly?*

Results (cont.):

Table 5. Are the ESG footprints of PRI signatories different by level of ESG incorporation?

	Dependent variable:			
	Total ESG footprint (1)	Environmental footprint (2)	Social footprint (3)	Governance footprint (4)
PRI: Fully committed	-0.04(0.03)	-0.06(0.04)	-0.03(0.03)	-0.03(0.03)
PRI: Partially committed	-0.07(0.05)	-0.08(0.05)	-0.04(0.03)	-0.06^{*} (0.03)
PRI: Uncommitted	-0.12^{**} (0.04)	-0.13^{**} (0.03)	-0.08(0.04)	-0.04 (0.03)
Controls and year fixed effects	Yes	Yes	Yes	Yes
Observations	17,641	17,641	17,641	17,641
Adjusted R^2	0.34	0.36	0.26	0.15

Panel B: US institutional investors

Panel C: Non-US institutional investors

	Dependent variable:			
	Total ESG footprint (1)	Environmental footprint (2)	Social footprint (3)	Governance footprin (4)
PRI: Fully committed	0.09^{**} (0.02)	0.05^{**} (0.02)	0.07^{**} (0.02)	0.05(0.03)
PRI: Partially committed	0.06(0.03)	0.07^* (0.03)	$0.07^{*} (0.03)$	-0.05(0.04)
PRI: Uncommitted	0.06(0.03)	0.03(0.03)	0.05~(0.03)	0.04(0.04)
Controls and year fixed effects	Yes	Yes	Yes	Yes
Observations	12,870	12,870	12,870	12,870
Adjusted R^2	0.22	0.23	0.17	0.18

-> <u>US signatories</u> with no ESG incorporation have **worse (!)** footprints than non-PRI investors ... "**greenwashing**"?

-> <u>Non-US signatories</u> with full or part ESG incorporation have better footprints Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest* <u>Responsibly?</u>

"Greenwashing" in the U.S.: Why is there a continental divide in ESG incorporation?

(1) commercial motives in the U.S.:

US institutions receive higher investor flows after joining the PRI and are more likely to sign the PRI when they recently underperformed.

(2) regulatory uncertainty about fiduciary duties in the U.S.:

Regulatory shock in UK: UK PRI signatories improve their portfolio ESG scores relative to non-signatories in the UK after the regulator's clarifications.

(3) lower ESG market maturity in the U.S.:

As % of AUM by PRI signatories increases in a region, so do portfolio ESG scores of PRI signatories

Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest* <u>Responsibly?</u>

Conclusions:

- First paper to use data from PRI Reporting Framework to study ...
 - institutional investors' public commitment to ESG in active equity investing
 - effectiveness of ESG incorporation strategies in delivering portfolio-level sustainability
- Main findings:
 - In the US: Disconnect between ESG commitments and portfolios, consistent with "greenwashing" (especially if underperformed recently, are retail-oriented and joined the PRI late)
 - **Outside the US:** "words" and "actions" more aligned; we observe better footprints for signatories that report full/partial incorporation of ESG
 - > further research should be done on this "transatlantic divide"!

Do Responsible Investo Invest Responsibly?

Gibson Brandon, Glossner, Krueger, Matos & Steffen (Review of Finance, 2022) *Do Responsible Investors Invest* <u>Responsibly?</u>

Do Responsible Investors Invest Responsibly? 🝩

Rajna Gibson Brandon, Simon Glossner 🕿 , Philipp Krueger, Pedro Matos, Tom Steffen

Review of Finance, Volume 26, Issue 6, November 2022, Pages 1389–1432, https://doi.org/10.1093/rof/rfac064 Published: 22 September 2022 Article history •

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Abstract

We study whether institutional investors that sign the Principles for Responsible Investment (PRI), a commitment to responsible investing, exhibit better portfolio-level environmental, social, and governance (ESG) scores. Signatories outside of the USA have superior ESG scores than nonsignatories, but US signatories have at best similar ESG ratings, and worse scores if they have underperformed recently, are retail-client facing, and joined the PRI late. US signatories do not improve the ESG scores of portfolio companies after investing in them. Commercial motives, uncertainty about fiduciary duties, and lower ESG market maturity explain why US-domiciled PRI signatories do not follow through on their responsible investment commitments.







Do the US **#PRI** signatories actually "walk the talk"? Thrilled to have our paper featured in this week's **The Economist** with Rajna Gibson, **Simon Glossner**, **Philipp Krueger** and **Tom Steffen**, **PhD** https://lnkd.in/eyAEjuu4 . For the paper see "Do Responsible Investors Invest Responsibly?" https://lnkd.in/d7xVqAv. For a non-technical summary see https://lnkd.in/ejuJ-3d5. Grateful to Alex Edmans and Marcin Kacperczyk for the special issue of the Review of Finance and I highly recommend reading all of the other papers on **#sustainablefinance**!



Dubious green funds are rampant in America

economist.com • 3 min read

https://www.linkedin.com/posts/pedro-matos-644bb633 dubious-green-funds-are-rampant-inamerica-activity-7004162409787498496-iQl4?utm source=share&utm medium=member desktop

https://www.economist.com/finance-and-economics/2022/12/01/dubious-green-funds-are-rampant-in-america

VERY ACTIVE LITERATURE:

- **PRI:**

Kim & Yoon (2023, US equity mutual funds), Liang, Sun & Theo (2022, hedge funds), Humphrey & Li (2021, reducing carbon footprint), Dimson, Karakas & Li (2023, coordinated engagements), Dikolli, Frank, Guo & Lynch (2022, voting on shareholder proposals), Ceccarelli, Glossner & Homanen (2022)

- Greenwashing / impact washing by US mutual funds:

Dumitrescu, Gil-Bazo & Zhou (2022), Parise & Rubin (2023), Heath, Macciocchi, Michaely & Ringgenberg (2023), Michaely, Ordonez-Calafi & Rubio (2023), Sachdeva, Li & Naaraayanan (2022), Andrikogiannopoulou, Krueger, Mitali & Papakonstantinou (2023)

- Greenwashing by banks:

Kacperczyk & Peydró (2022), Kim, Kumar, Lee and Oh (2023), Giannetti, Jasova, Loumioti & Mendicino (2023)

- Greenwashing by corporations:

Yang (2018), Raghunandan & Rajgopal (2020), Duchin, Gao & Xu (2022), Bingler, Kraus, Leippold & Webersinke (2022), Dzieliński, Eugster, Sjöström & Wagner (2023), Cornaggia & Cornaggia (2023), Baker, Larcker, McClure, Saraph & Watts (2023)

Conflicts of interest by ESG rating agencies:
 Berg, Kölbel & Rigobon (2022), Berg, Fabisik & Sautner (2020)

COMBATING GREENWASHING?

Voluntary Standards:

https://www.cfainstitute.org/en/ethicsstandards/codes/esg-standards

💥 CFA Institute
GLOBAL ESG DISCLOSURE STANDARDS FOR INVESTMENT PRODUCTS 2021
GLOBAL ESG DISCLOSURE STANDARDS FOR INVESTMENT PRODUCTS HANDBOOK
EXAMINATION PROCEDURES FOR THE

GLOBAL ESG DISCLOSURE STANDARDS FOR INVESTMENT PRODUCTS

2023

Regulation:



 The EU sustainable linute framework

 Image: Corporate disclosures of of climate-relationship
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SEC Announces Enforcement Task Force Focused on Climate and ESG Issues

FOR IMMEDIATE RELEASE 2021-42

SEC Adopts Rule Enhancements to Prevent Misleading or Deceptive Investment Fund Names

FOR IMMEDIATE RELEASE 2023-188 Washington D.C., Sept. 20, 2023 -

Is the Grass Always Greener? Greenwashing Risk and Regulation

Sample of Greenwashing Measures

Dec 05 2023



Jurisdictions	Product disclosure (pre- contractual/periodic)	Entity disclosure	Portfolio requirements	Labels	Naming / Marketing Rules
EU	 SFDR: disclosure templates incl. Taxonomy and Sustainable Investments 	SFDR (incl. PAIs) Taxonomy CSRD	SFDR article 9 product: 100% Sustainable Investments ESMA guidelines (TBC) French AMF DOC-2020-03	Optional EU Green Bond Standard Optional national fund labels: label ISR, Febelfin, Greenfin, LuxFlag SFDR 2.0?	 ESMA guidelines (TBC) French AMF DOC-2020-03 AFM Guidelines on Sustainability Claims
UK	 TCFD UK SDR: strategy, relevant KPI 	TCFD UK SDR: TCFD report	 Four optional labels: > 70% of invested in accordance with its sustainability objective 	Optional labels: Focus, Improver, Impact and Mixed	 FCA Guidance on the anti- greenwashing rule
US	ESG template (TBC)	SEC climate disclosure (TBC)	Investment Company Act "Names Rule: 80% aligned with stated goals	Mandatory labels: ESG-integrated, ESG-Focused, Impact (TBC)	 Investment Company Act "Names Rule: 80% aligned with stated goals
нк	TCFD disclosure HK SFC ESG Circular	TCFD disclosure (HK SFC)	HK SFC ESG Circular: min % commensurate to the ESG focus of the fund	• NA	 HK SFC ESG Circular: use of ESG terms subject to authorisation

COMBATING GREENWASHING?



https://finance.ec.europa.eu/sustainable-finance/overview-sustainable-finance en Sustainable Finance Disclosure Regulation (SFDR) **Light Green Products Dark Green Products** Article 6 Article 8 Article 9 Products that have Products which do not Products that sustainable integrate promote sustainability into the environmental or investment as their investment process. social characteristics objective

RNINGSTAR 27 July 2023

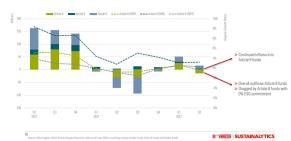
SFDR Article 8 and Article 9 Funds: Q2 2023 in Review

Article 8 funds bleed money again, while Article 9 funds register their lowest inflows on record.

Article 8 & 9 funds reach EUR 5 trillion milestone



Article 8 & 9 fund flows diverge



Reclassifications slow down too

Still many upgrades, but the wave of downgrades is over



Some working papers: Lambillon & Chesney (2023), Scheitza & Busch (2023)

GREENWASHING AND ESG INVESTING AT A CROSSROADS

1. Background on ESG Investing

- Matos (CFA Institute, 2020) "ESG and Responsible Institutional Investing Around the World: A Critical Review"

2. Greenwashing: Do Investors "Walk the (ESG) Talk"?

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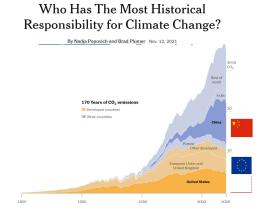
- Atta-Darkua, Glossner, Krueger & Matos (working paper, 2023) "Decarbonizing Institutional Investor Portfolios: Helping to Green the Planet or Just Greening Your Portfolio?"



4. Conclusions + Open Questions for Future Research



Addressing global warming





Need to reduce Greenhouse Gas (GHG)/carbon emissions to keep global temperature increase below 1.5C (Paris Agreement (2015), IPCC(2018))



Coordination to achieve the necessary actions is hard Tirole (2012), Pedersen (2023)]

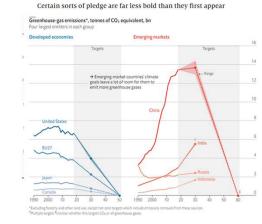


Can investor coalitions contribute to solving the climate crisis?

[theory: Oehmke & Opp (2022), Biais & Landier (2022); surveys: Krueger, Sautner & Starks (2020), Stroebel & Wurgler (2021)]



Addressing global warming



The Economist

AUG 7TH 2021

Green goals

How climate targets compare

against a common baseline



Need to reduce Greenhouse Gas (GHG)/carbon emissions to keep global temperature increase below 1.5C (Paris Agreement (2015), IPCC(2018))



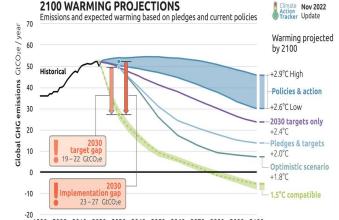
Coordination to achieve the necessary actions is hard Tirole (2012), Pedersen (2023)] Climate Action 100+

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Addressing global warming





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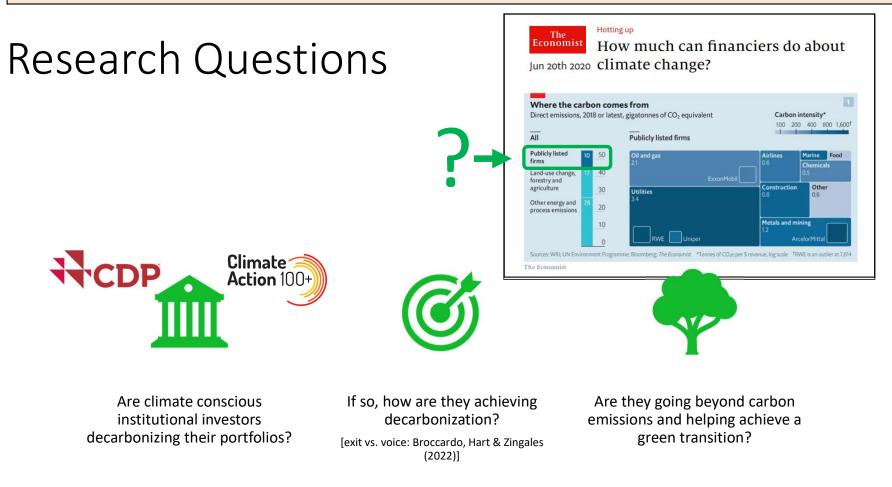
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Can investor coalitions contribute to solving the climate crisis?

[theory: Oehmke & Opp (2022), Biais & Landier (2022); surveys: Krueger, Sautner & Starks (2020), Stroebel & Wurgler (2021)]









ESG investing - Pastor, Stambaugh & Taylor (2021, 2022), Giglio, Kelly & Stroebel (2021). Pedersen, Fitzgibbons& Pomorski (2021), Goldstein et al (2021), Dyck et al (2019), Matos (2020), Gibson et al (2022), Oehmke & Opp (2022), Biais & Landier (2022)

Climate finance - Hong, Karolyi & Scheinkmann, (2020), Bolton & Kacperczyk (2021, 2021b, 2022, 2022a), Stroebel & Wurgler (2021), Hsu, Li & Tsou (2022), Duchin, Gao & Xu (2022), Pedersen (2023)

How institutional investors approach climate risk - Krueger, Sautner & Starks (2020), Ilhan et al. (2021), Flammer, Toffel & Viswanathan (2021), Azar et al (2021), Cohen, Kadach & Ormazabal (2022)

Institutional investors' divestment - Heinkel, Krauss & Zechner (2001), Hong & Kacpercyck (2009), Bessembinder, (2016), Davies & Van Wesep (2018), Choi et al (2022), Berk & Van Binsbergen (2022), Bolton, Kacpercyck & Samama (2022)

Institutional investors' engagement - Dimson et al. (2015, 2022), Edmans, Levit & Schneemeier (2022), Becht, Pajuste & Toniolo (2023)

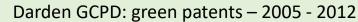




CDP

- 2005+: CDP initiative
 - founded in 2000 as the Carbon Disclosure Project
 - Disclosure-focused: firm questionnaire (GHG emissions and targets) sent to over 13,000 companies in 2021
 - List of investor signatories (623 with \$20tn Equity AuM in 2019)
- 2017+: Climate Action 100+ (CA100+)
 - Post-2015 Paris Agreement
 - Engagement-focused to accelerate the netzero emissions transition, work with the top 100 largest emitters (now top 167)
 - List of investor signatories (268 with \$5tn Equity Aum in 2019)

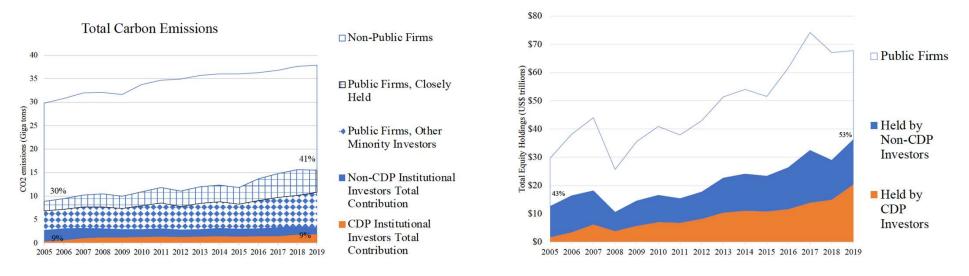






Results:

Panel A: Total Carbon (GHG) Emissions

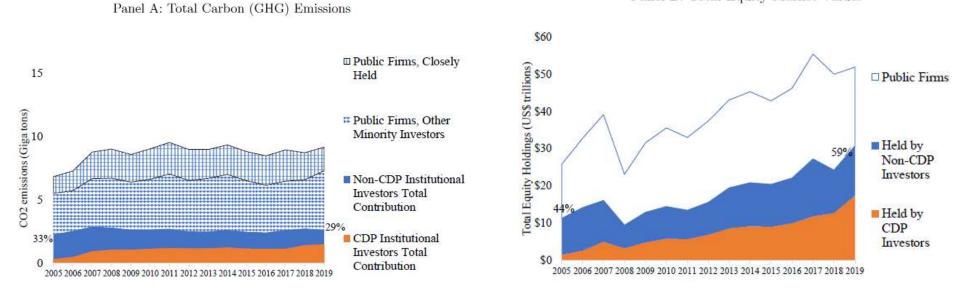


Institutional investors actively **decarbonizing** ... flat @ 9% of total global emissions instead of proportional 9% -> 15% {= 9%*[(53%/43%)*(41%/30%)]}

Panel B: Total Equity Market Values



... and decabornization by institutional investors even more pronounced if we restrict to MSCI ACWI stocks!



Institutional investors actively **decarbonizing** ... decreased from 33% =29% of MSCI ACWI total emissions instead of growing proportionally from 33% -> 44% {= 33%*[(59%/44%)}

46

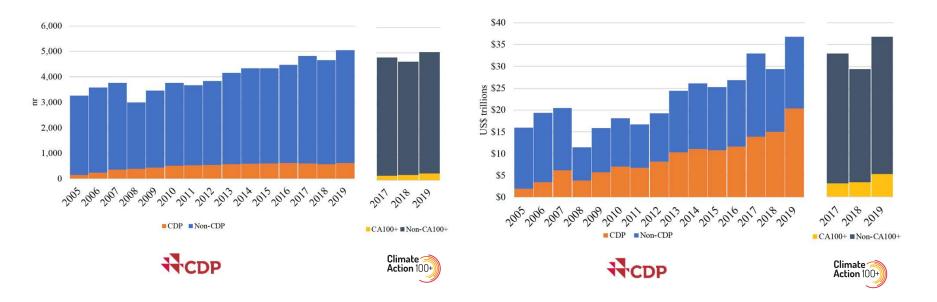
Panel B: Total Equity Market Values



Climate-Conscious Institutional Investors

Nr of Institutional Investors

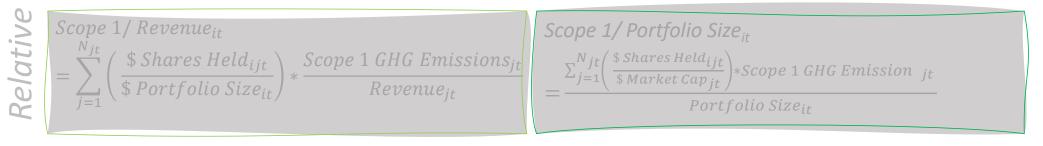
US\$ Institutional Investor Equity Holdings





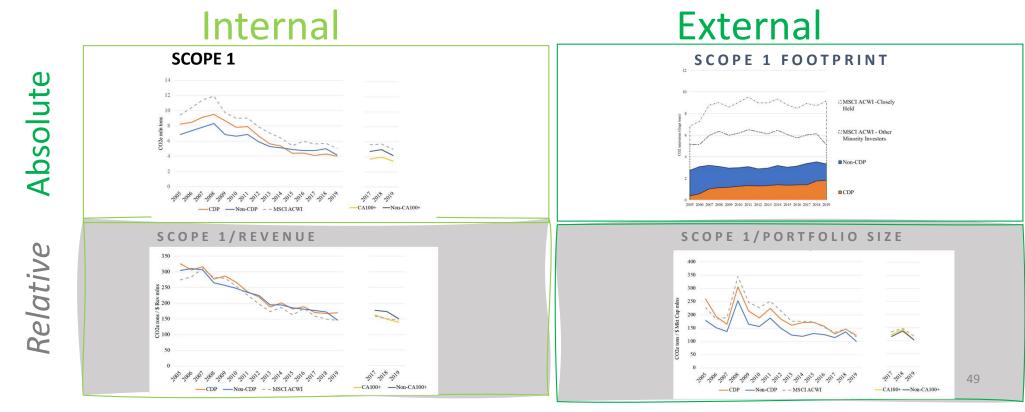
Portfolio Carbon Emissions Measures: Internal External







Portfolio Decarbonization by Climate-Conscious Institutional Investors





Summary map of regional, national and subnational carbon pricing initiatives

Carbon Emission Schemes (Source: World Bank Carbon Pricing Dashboard)

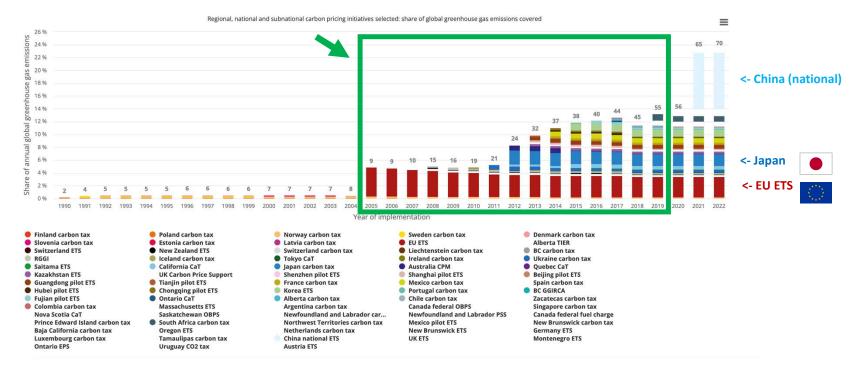


Carbon tax implemented or scheduled, ETS under consideration

https://carbonpricingdashboard.worldbank.org/map_data

Decarbonizing Institutional Investor Portfolios Atta-Darkua, Glossner, Krueger & Matos (working paper, 2023) <u>Decarbonizing Institutional Investor Portfolios</u>: <u>Helping to Green the Planet or Just Greening Your Portfolio?</u>

Carbon Emission Schemes (Source: World Bank Carbon Pricing Dashboard)



https://carbonpricingdashboard.worldbank.org/map_data

编





Do Climate-Conscious (CDP) Investors *Decarbonize* Their Portfolios Faster? (Yes/No Emission Scheme)

Yes, if based in countries with carbon pricing emissions scheme (i.e. within EU ETS) decarbonize @ -3% to -4% / year faster! (the 2015 Paris Agreement called for -7.6% / year decarbonization in 2020-30)

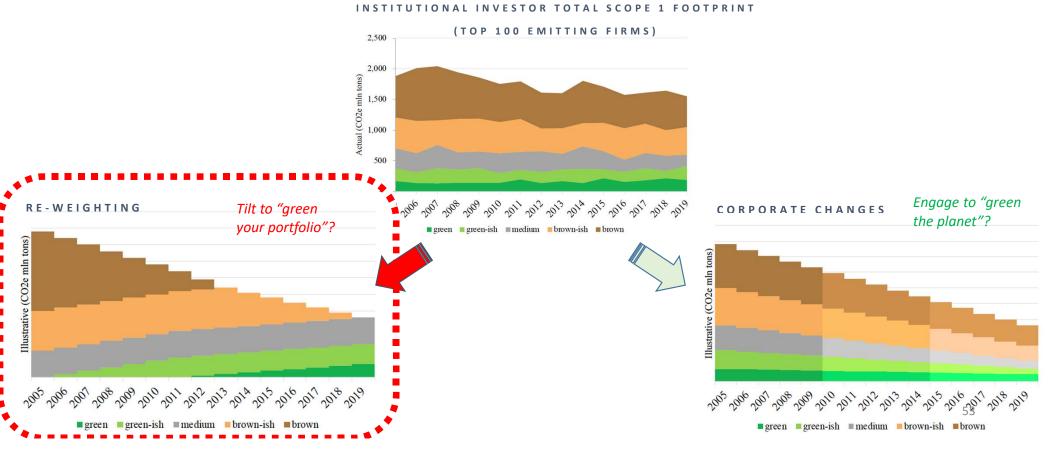
Δ Portfolio emissions metric _{it} = $a + b * CDP_{it} + c * Controls_{it} + FEffects + \varepsilon_{it}$
--

<u></u>	Emissions Scheme				No Emissions Scheme			
	Δ Total log	Scope 1 $(t+1)$	Δ Total log Scope 1 Footprint (t+1)		Δ Total log Scope 1 (t+1)		Δ Total log Scope 1 Footprint (t+1)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
CDP	-0.030***	-0.027***	-0.039***	-0.035**	-0.004	0.003	-0.016	-0.023*
	[0.008]	[0.008]	[0.013]	[0.013]	[0.015]	[0.015]	[0.014]	[0.011]
Investor Controls	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Portfolio Controls	No	Yes	No	Yes	No	Yes	No	Yes
Year FE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Observations	11109	11109	11109	11109	39888	39874	39888	39874
Adjusted \mathbb{R}^2	0.024	0.026	0.008	0.012	0.011	0.012	0.010	0.011

Panel A: Scope 1 Emissions Yearly Changes (Δ Total)

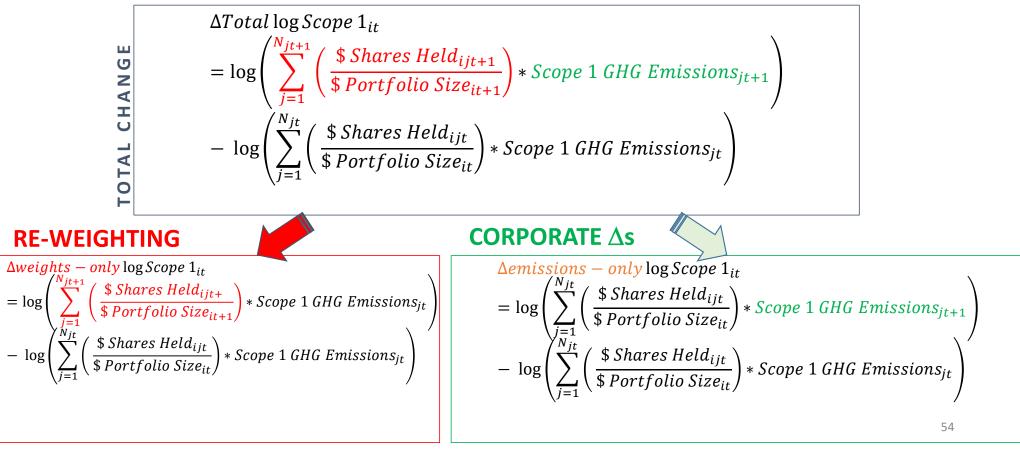


Portfolio Decarbonization Strategies:





Portfolio Emission Change Variables





Other Measures of "Greening" of Business Activities

 We look at two forward-looking measures to capture opportunities for developing solutions to address climate change

Green Revenues



FTSE

Russell

- FTSE Russell data for 16,000+ stocks, from 2017 onwards. Firm revenues classified as green using the EU Taxonomy on sustainable activities.
- We calculate a weighted average measure of the Green Revenue % of an investor's portfolio

UVA DARDEN

Green Patents

GLOBAL CORPORATE PATENT DATASET

- Combine UVA Darden Global Corporate Patent Dataset (https://patents.darden.virginia.edu/) developed by Bena, Ferreira, Matos and Pires and OECD environmental-related (2017) mapping developed by Hascic and Migotto (2015). The mapping is also used in Cohen et Green patents al. (2022), Hege et al. (2022), Bolton et al. (2023). We use granted patents, and since there is a lag in approving filed patents, this measure is available only from 2005 to 2012.
- Green Patent % is created as the ratio of average green patents to average total patents by the firms held by an institutional investor.



OECD



(Preliminary) Conclusions:



CDP institutions actively decarbonizing their equity portfolios between 2005 and 2019

Portfolio re-weighting is the predominant portfolio decarbonization strategy (especially for investors in *Emission Schemes* countries)

Very weak evidence of corporate changes among holdings of top emitting firms, over longer time periods, and following the Paris Agreement through the CA100+ initiative

No evidence of preference in favor of stocks developing climate patents but *some re-weighting* towards companies generating green product/service revenues

<u>Take-away</u>: **Mostly "Greening Portfolios" (not Helping "Green the Planet")** our analysis raises doubts about the effectiveness of institutional investors in helping reduce global GHG emissions

VERY ACTIVE LITERATURE:

- Carbon Pricing vs. Green Finance: Pedersen (2023)
- CDP/CA100+ and the Big 3: Cohen, Kadach & Ormazabal (2023)

- "Tilting in" vs. "tilting away" and the cost of capital channel: Berk & Van Binsbergen (2021), Choi, Gao, Jiang & Zhang (2023), Pedersen, Fitzgibbons & Pomorski (2021), Giglio, Maggiori, Rao, Stroebel & Weber (2021), Ardia, Bluteau, Boudt & Ingelbrecht (2022), Edmans, Levit & Schneemeier (2022), Pastor, Stambaugh & Taylor (2023), Hartzmark & Shue (2023)

- The debate over "carbon/green premium": Bolton & Kacperczyk (several papers), Aswani, Raghunandan & Rajgopal (2022), Karaolyi, Wu & Xiong (2023), Zerbib (2022), Sautner, Van Lent, Vilkov & Zhang (2023)

- Spillovers along supply chain / outsourcing: Duchin Gao, Xu (2022), Dai, Duan, Liang & Ng (2021), Bisetti, She & Zaldokas (2023)

- Other asset classes: Zerbib (2019), Baker, Bergstresser, Serafeim & Wurgler (2018), Painter (2020), Flammer (2021), Bauer & Rudebusch (2021), Berrada, Engelhardt, Gibson & Krueger (2022), Caramichael & Rapp (2022), D'Amico, Klausmann & Pancost (2023)

- Monetary policy: Papoutsi, Piazessi & Schneider (2021), Hansen (2022)

GREENWASHING AND ESG INVESTING AT A CROSSROADS

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4. Conclusions + Open Questions for Future Research

CONCLUSIONS:

- Beware of "greenwashing"!

- Even if investors do "walk the (ESG) talk" (ex: by "greening their portfolios") they may not help achieve the ESG goal ("help green the planet")

MANY OPEN QUESTIONS FOR FUTURE RESEARCH:

- Are there "chilling effects" from anti-ESG backlash and politicization?

- Other emerging dimensions of ESG in E (beyond climate ... ex: biodiversity?) or S (DEI, human rights, political influence)?

- Have 'green' regulations been effective?

- How does ESG/climate investing interact with social policies (ex: "just transition")?
- ESG to SDG: what is the additionality and impact of ESG/climate investing?





•••

JOIN THE PRI ACADEMIC NETWORK!

https://www.unpri.org/sustainability-issues/research

In 2023 (Tokyo) ...



https://www.unpri.org/sustainability-issues/research/academic-seminar-series



https://www.unpri.org/news-and-events/upcoming-events/pri-in-person-2024



