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## **IPE Seminars**

# **Approaches and Challenges of Measuring ESG in Investment Portfolios**

#### **PPCmetrics AG**

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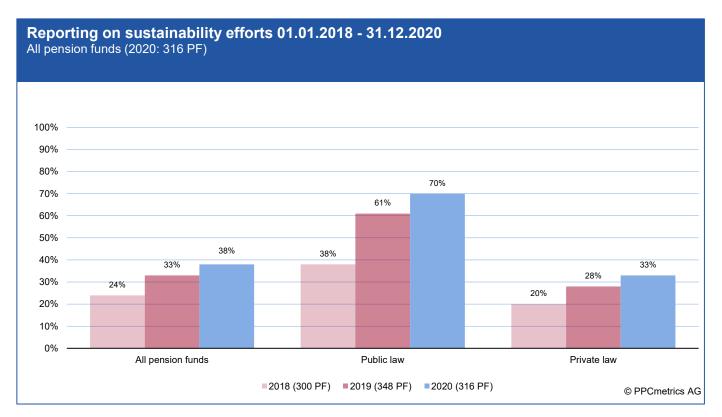
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### Introduction

- ESG investing has widely come to the attention of institutional investors in recent years.
- This presentation shows the extent to which Swiss pension funds disclose information on ESG.
- Furthermore, the possibilities for institutional investors to measure ESG are analysed.
- Measuring the ESG characteristics of a portfolio is not trivial. For this reason, various difficulties in this area are discussed.



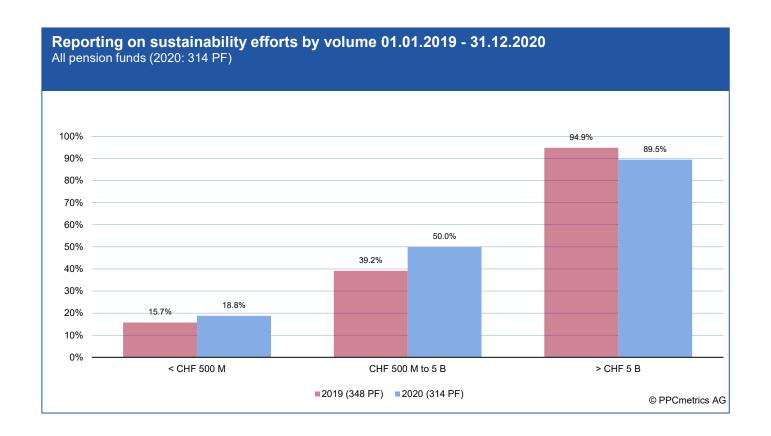
## **ESG** Reporting by Swiss Pension Funds (PF)



- As at the end of 2020, 38% of the evaluated PFs report on sustainability either on their website or in the annual report.
- Institutions under public law report more frequently on ESG.



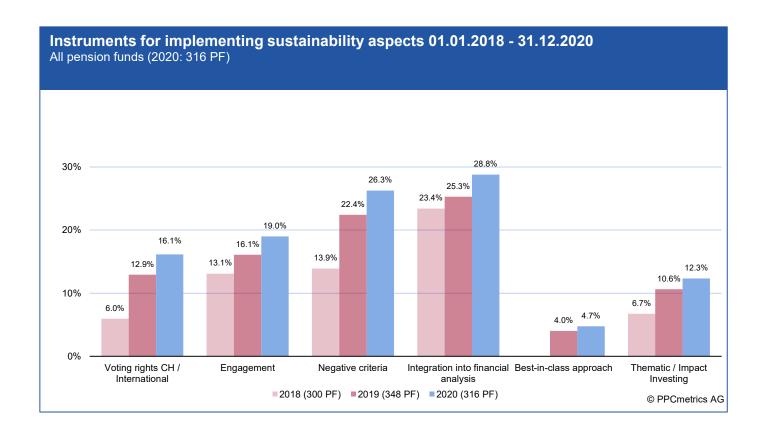
## Larger PFs Report More Frequently on ESG



Large PFs report more frequently on ESG than smaller PFs.



# Which Instruments Do PFs Report On?



 The most common instruments are negative criteria and the integration of sustainability criteria into the financial analysis.



## PFs Do More than They Report

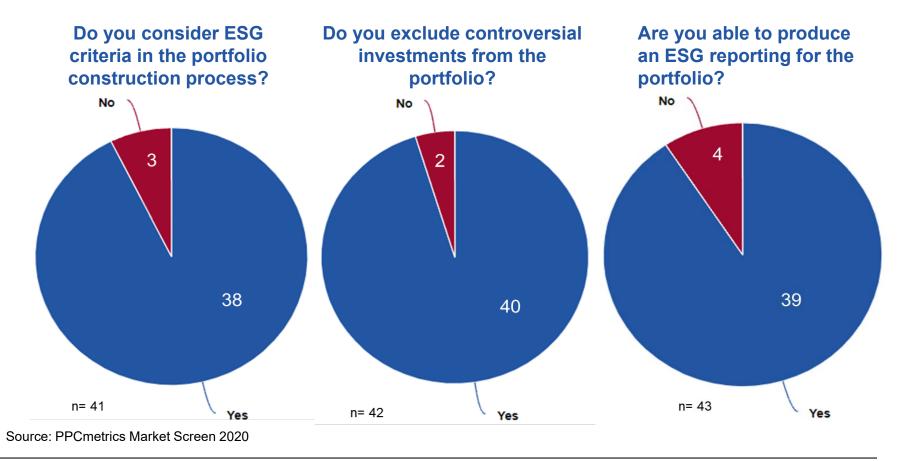
- Even in a standard balanced index mandate...
  - voting rights are usually exercised by the manager considering ESG.
  - the asset manager usually participates in an active engagement program.
  - ... the asset manager usually implements an exclusion list that relies on international agreements ratified by Switzerland (e.g. recommendations for exclusions by SVVK-ASIR).

## **Market Screen 2020**



## **Active Traditional Swiss Equity Mandates**

 In standard active mandates there is a high probability that the asset manager considers ESG as well:





# How Can ESG Be Measured by Investors?

- There is more ESG consideration in pension portfolios than disclosed.
- Before investors report on ESG....
- ...they have to measure ESG
- Ways to measure ESG characteristics of a portfolio:
- 1 ESG screening carried out by external service providers
- Collection of information directly from the asset managers (ESG questionnaire)



# **ESG Screening**Who Provides the Service?



- Many different providers:
  - Rating providers









Specialised companies that use external data or combine external data with own research







Banks and asset managers

Source for picture on the bottom right: https://pixabay.com/de/





## What Information Is Typically Shown?

#### **ESG** rating



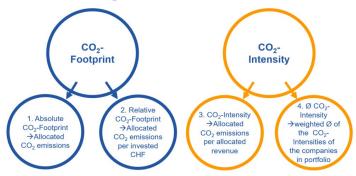


#### **Controversies**

Controversies	Portfolio	Benchmark
Controversial weapons	0.00%	2.10%
UN Global Compact violations	0.00%	0.01%
Pornography	0.00%	0.07%
Coal	0.00%	1.10%
Total	0.00%	3.28%

Source: Own illustrations; picture with SDGs on the bottom right: un.org

### **Carbon figures**



### **SDG** mapping















































## ESG Ratings: Understanding the Approach Is Key

#### Correlation between ESG ratings of different providers, Common sample = 924 companies

				SA MS							Average
ESG	0.77	0.65	0.53	0.53	0.62	0.6	0.49	0.42	0.4	0.37	
E											
$\mathbf{S}$	0.67	0.57	0.52	0.29	0.62	0.58	0.27	0.55	0.27	0.28	
G	0.55	0.48	0.36	0.34	0.7	0.7	0.43	0.68	0.38	0.34	

SA = Sustainalytics, RS = RobecoSAM, VI = Vigeo, A4 = Asset 4, MS = MSCI

- Also relevant for ESG indices which index is best for the investor?
- As a comparison: Correlation of credit ratings is typically around 0.99



Source: Berg, Florian and Kölbel, Julian and Rigobon, Roberto, Aggregate Confusion: The Divergence of ESG Ratings (May 17, 2020). Available at SSRN: <a href="https://ssrn.com/abstract=3438533">https://ssrn.com/abstract=3438533</a>; Picture on the bottom right: <a href="https://pixabay.com/de/">https://ssrn.com/abstract=3438533</a>; Picture on the bottom right: <a href="https://pixabay.com/de/">https://pixabay.com/de/</a>



## MSCI ESG Rating as an Example



MSCI ratings of 8 of the largest companies in Switzerland	2019	2020	2021
Nestlé SA	AA	AA	AA
Novartis AG	BBB	Α	Α
Roche Holding AG	Α	Α	Α
Zurich Insurance Group AG	AA	AA	AA
UBS Group AG	AA	AA	AA
ABB Ltd	AA	AA	AA
LafargeHolcim Ltd	BBB	BBB	Α
Swatch Group AG	BB	BB	BB

- MSCI ESG rating measures ESG performance relative to peers.
- «Best-in-class» rating
- It is not possible to compare ratings across sectors (e.g. to compare LafargeHolcim to Roche).
- ▶ Other agencies compute ratings that are comparable across sectors.

## Rating scale

CCC	В	ВВ	BBB	Α	AA	AAA		
LAGO	SARD		AVERAG	E	LEADER			

Rating comparisons between providers are difficult...

Source: <a href="https://www.msci.com/esg-ratings">https://www.msci.com/esg-ratings</a>; Picture on the bottom right: <a href="https://pixabay.com/de/">https://pixabay.com/de/</a>

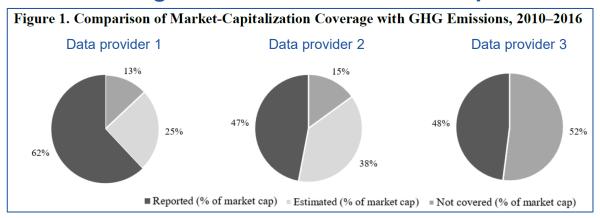




Carbon Figures: Data Quality

- Carbon data providers obtain data from companies or public data sources.
- Companies sometimes disclose data only selectively and not completely.
- Part of the data still has to be estimated.

#### Greenhouse gas emissions of three data providers:



 But company reporting is improving. Further improvement is expected through regulation (reporting based on recommendations of the TCFD).

Source: Kalesnik, V. and Wilkens, M. and Zink, J., Green Data or Greenwashing? Do Corporate Carbon Emissions Data Enable Investors to Mitigate Climate Change? (November 24, 2020)





## Carbon Figures: Difference between Scope 1, 2 and 3

#### Scope 1

Direct emissions from company-owned and controlled resources.

#### **Example:**

A car manufacturer produces a car in its factory. The emissions generated in this process are scope 1.

#### Scope 3

All other indirect emissions that occur in the value chain of the company.

#### **Example:**

The sold car emits gases during its lifetime, which are credited to the car producer as scope 3 emissions.

Source for picture on the bottom right: <a href="https://pixabay.com/de/">https://pixabay.com/de/</a>

#### Scope 2

Indirect emissions from electricity, steam, heat and cooling, purchased externally and used by the company.

#### **Example:**

The car manufacturer's factory uses electricity from a local power producer. The emissions generated in the production of this electricity are scope 2 for the car producer.

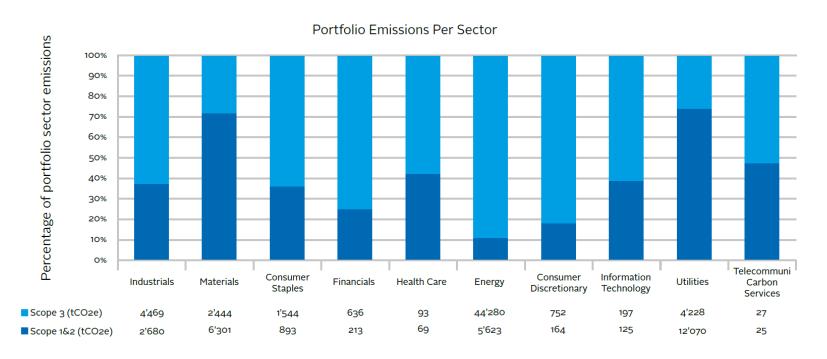
Should scope 3 emissions be included?







## Carbon Figures: Relevance of Scope 3 Emissions



- For most products, scope 3 emissions account for a large portion of total emissions.
- Since individual companies in many cases do not report scope 3 emissions, this data is often based on estimates.

Source: PRI Climate Change Strategy Project with data from South Pole Carbon (2015), <a href="https://www.unpri.org/download?ac=1876">https://www.unpri.org/download?ac=1876</a>





## Carbon Figures: Examples of Company Reporting

LafargeHolcim		2018	2019	2020
Absolute gross Scope 1 emissions (Scope 1)	Mt	122	121	110
Absolute Scope 2 emissions (Scope 2)	Mt	7	8	7
Absolute Scope 3 emissions (old methodology) (note 6a)	Mt	20	19	n/a
Absolute Scope 3 emissions (revised methodology) (note 6a)	Mt	n/a	n/a	29

Scope 1, 2 and 3 are reported

#### Nestlé

Indicator	Units	2010	2019	2020
Direct GHG emissions (scope 1)	10 <sup>6</sup> tonnes CO₂ eq.	3.8	3.3	3.3
Indirect GHG emissions (scope 2) (a)	10 <sup>6</sup> tonnes CO <sub>2</sub> eq.	3	2	2
Total GHG emissions (scope 1 & 2) (a)	10 <sup>6</sup> tonnes CO₂ eq.	7.1	5.5	5.2

Scope 3 is not reported on a yearly basis

Source: <a href="https://www.holcim.com/sustainability-reports?field\_year\_tid\_i18n\_exposed=1458">https://www.holcim.com/sustainability-reports?field\_year\_tid\_i18n\_exposed=1458</a> <a href="https://www.nestle.com/csv/performance">https://www.nestle.com/csv/performance</a>





## Carbon Figures: Is Lower Always Better?

	iShares Green Bond Index Fund (IE)	iShares Core Global Aggregate Bond UCITS ETF
Benchmark	Bloomberg Global <b>Green Bond</b> Index	Bloomberg Global Aggregate Bond Index
MSCI Weighted Average Carbon Intensity	395.25 (per 07/09/2021)	191.92 (per 06/08/2021)

- Issuers of green bonds often operate in carbon intensive industries.
- Carbon measures capture the whole emissions of the companies and not the financing purpose of the bond.

The numbers require an interpretation...

Source: <a href="https://www.ishares.com/ch/institutional/en/products/316313/ishares-green-bond-index-fund-ie">https://www.ishares.com/ch/institutional/en/products/316313/ishares-green-bond-index-fund-ie</a>; <a href="https://www.ishares.com/ch/institutional/en/products/291773/">https://www.ishares.com/ch/institutional/en/products/291773/</a>; Picture on the bottom right: <a href="https://pixabay.com/de/">https://pixabay.com/de/</a>



# **ESG Questionnaire** Methodology



#### ESG Reporting All answers must make reference to the mandate / product as of 30.06.2021



- ESG questionnaire to be completed by all asset managers ("self-declaration").
- All asset classes can be considered (not only listed bonds and equities).
- The rating and carbon figures will rely on different methodologies (chosen by the asset managers).

Source: Own illustration



## **ESG Questionnaire**



## Consolidation and Evaluation of the Questionnaires

Asset Class (Asset Manager)	Exclusions				ESG Profile			Carbon Profile			Stewardship			
Example	SVVK	Further Exclusions by Asset Manager	Client-specific Exclusions	ESG Score Portfolio (1)	ESG Score Benchmark (2)	Relative ESG Score [(1) / (2)]	Carbon Intensity Portfolio (1)	Carbon Intensity Benchmark (2)	Relative Carbon Intensity [(1) / (2)]	UN PRI Signatory / member of SSF	Manager Specific Engagement	Voting rights	Engagement	EU SFDR
Bonds CHF (AM 1)				7.1	6.8	104%	109	95	115%					
Bonds FW Gov. hedged (AM 2)				5.0	6.6	76%	110	112	98%					
Bonds FW Corp. hedged (AM 2)				5.7	5.8	98%	302	368	82%					
Bonds LC EMMA (AM 3)				4.8	4.4	109%	623	809	77%					
Equities CH (AM 1)				7.3	6.4	114%	70	68	103%					
Equities World ex CH (AM 4)				21.5	22.3	104%	112	136	82%					8
Equities World ex CH hedged (AM 2)				6.9	6.7	103%	124	138	90%					6
Equities World Small Cap (AM 5)				29.7	29.3	99%	221	215	103%					6
Equities EMMA (AM 3)				5.3	5.2	102%	203	148	137%					
Real Estate CH (AM 6)				75.0	70.0	107%	401	450	89%					
Senior Secured Loans (AM 7)				4.9	4.8	102%	178	152	117%					
Average						102%			99%					

Source: Own illustration



## **Takeaways**

- The share of Swiss pension funds reporting on ESG is growing.
- Communicating ESG requires an adequate measurement method.
- Sustainability assessments may differ significantly between different providers.
- Data uncertainty is a challenge for investors and needs to be accepted to some degree.
- Results from an ESG assessment can be taken as a starting point to develop an ESG strategy or to identify assets with a need for action.

## **Contact**





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