



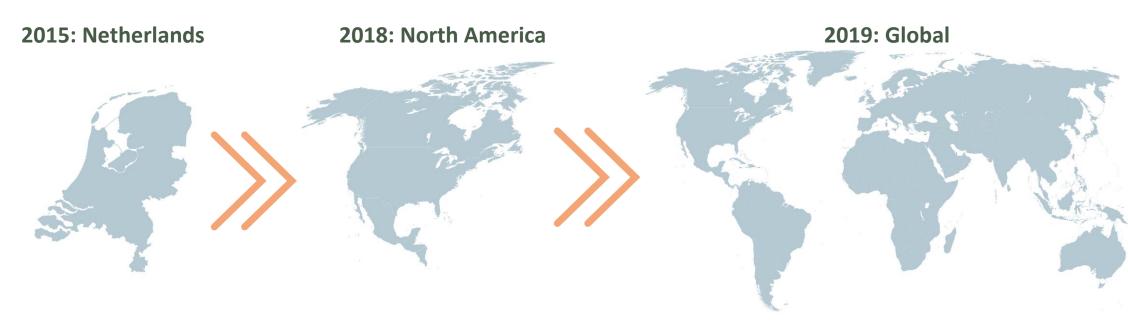
## Partnership for Carbon Accounting Financials

Enabling financial institutions to assess and disclose financed emissions

Giel Linthorst Executive Director, PCAF Secretariat



## PCAF: A global industry-led initiative to standardize the measurement and disclosure of financed emissions



**Global Steering Committee** 









Morgan Stanley





UN-convened Net-Zero Asset Owner Alliance



### As of today, 130+ financial institutions in 40 countries are part of PCAF, representing 40+ trillion USD in total assets





Check the full list of PCAF participants here



**PCAF** 























# Since 2015, PCAF participants have developed and tested GHG accounting methods, leading to a globally harmonized Standard



### FOR THE FINANCIAL INDUSTRY



"This standard has been reviewed by the GHG Protocol and is in conformance with the requirements set forth in the Corporate Value Chain (Scope 3) Accounting and Reporting Standard, for Category 15 investment activities."



# The GLOBAL CARBON Standard

### FOR THE FINANCIAL INDUSTRY



### Listed Equity and Corporate Bonds

 $\frac{\textit{Outstanding amount}}{\textit{EVIC or Total company equity} + \textit{debt}} \times \textit{Company emissions}$ 

EVIC = enterprise value including cash



### Business Loans and Unlisted Equity

 $\frac{\textit{Outstanding amount}}{\textit{EVIC or Total company equity} + \textit{debt}} \times \textit{Company emissions}$ 

EVIC = enterprise value including cash



### **Project Finance**

Outstanding amount Total project equity  $+ debt \times Project$  emissions

### GHG accounting for six asset classes



#### Commercial Real Estate

Outstanding amount Property value at origination  $\times$  Building emissions



#### Mortgages

Outstanding amount Property value at origination  $\times$  Building emissions



#### Motor Vehicles Loans

 $\frac{\textit{Outstanding amount}}{\textit{Total value at origination}} \times \textit{Vehicle emissions}$ 



### Measuring and disclosing financed emissions furthers climaterelated business goals and aligns with other initiatives

**Business Goal 1** 

Create transparency for stakeholders

**Business Goal 2** 

Manage climate-related transition risks

**Business Goal 3** 

Develop climate-friendly financial products

**Business Goal 4** 

Align financial flows with the Paris Agreement

Measurement of financed emissions











# Financed emissions are a key metric for financial institutions in understanding their climate-related transition risk, in line with TCFD recommendations

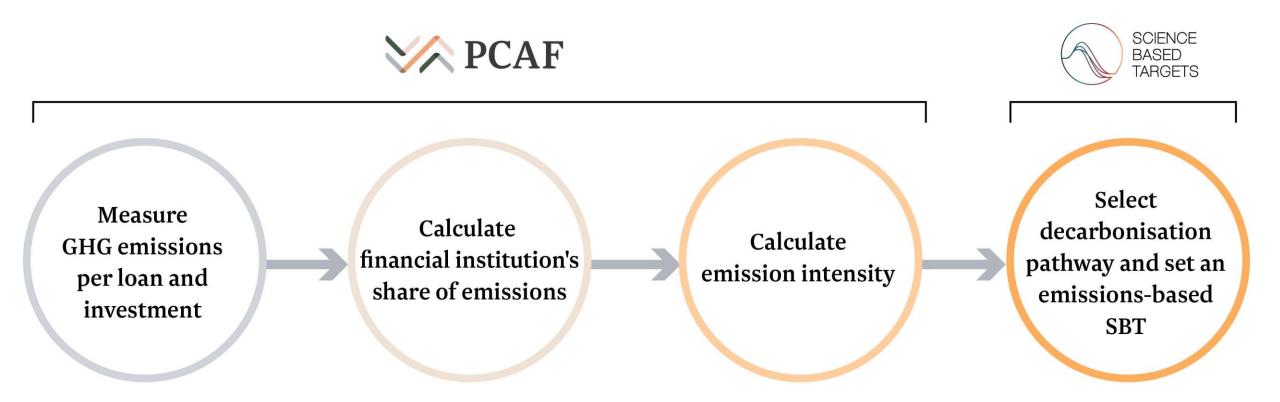
- One of the goals of the TCFD framework is to measure and disclose the transition risks posed to organizations by climaterelated policies and regulations.
- The PCAF's Global Standard directly supports this objective by providing methodologies to measure financed emissions.
   That's why the TCFD recommends financial institutions to disclose their financed emissions using PCAF's Standard
- As a result of emissions assessments, financial institutions can identify carbon-intensive hotspots that could be subject to higher transition risk.







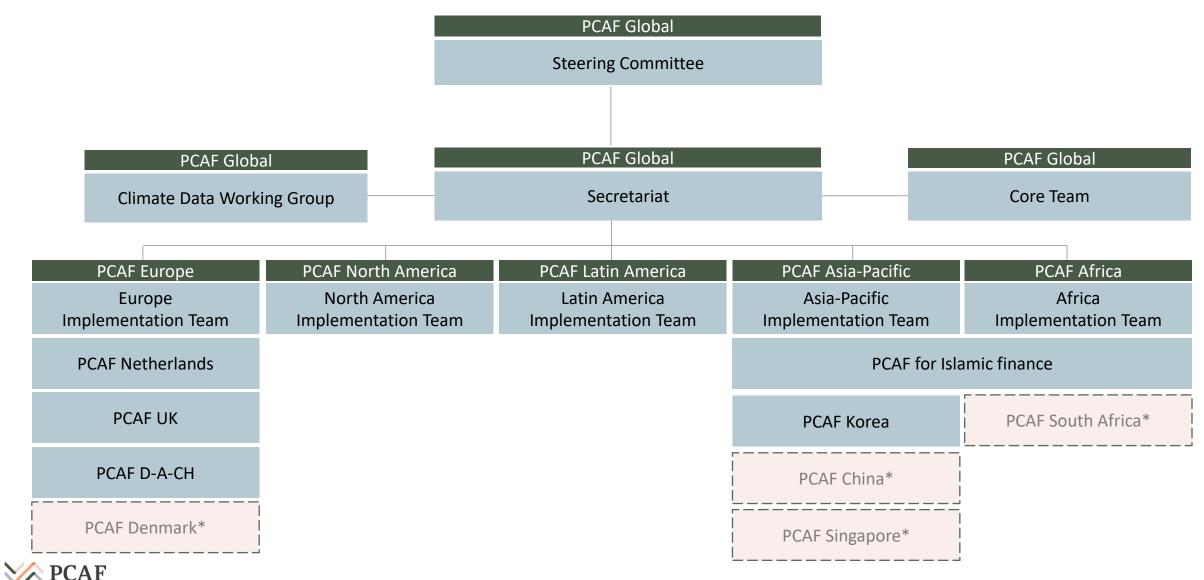
Measuring financed emissions sets the baseline for science-based targets using the Science Based Targets Initiative's (SBTi's) methodologies





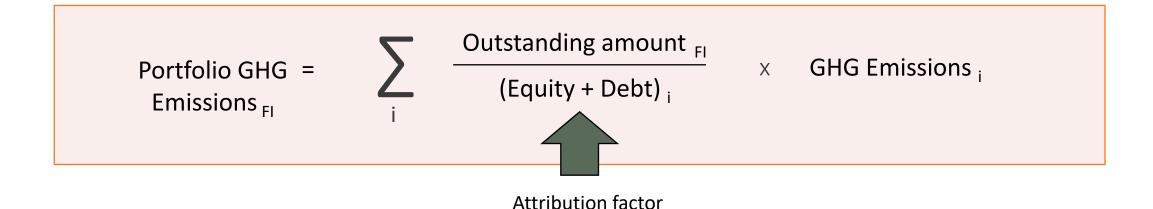
# Regional/Local collaboration and implementation

## PCAF drives implementation through regional and national collaborations



### Emissions are attributed to financial institutions based on robust and consistent accounting rules

GHG accounting for financial institutions is the annual accounting and disclosure of GHG emissions associated with loans and investments at a fixed point in time in line with financial accounting periods.



- The equation above is general and is **applied for each asset class** in a financial institution's portfolio
- The attribution factor is used to show the financial institution's share of the borrow or investee's emissions
- A borrower or investee is a general term and could represent a company, property, project or motor vehicle (depending on the asset class)



# For each asset class, specific accounting rules have been defined (1/2)

#### **Asset class**



Listed equity and corporate bonds



Business loans and unlisted equity



**Project finance** 

### **Specific accounting rules**







• Phase in of scope 3 of investees, starting with high emitting sectors



- Scope 1+2 (and scope 3 if relevant) as well as avoided emissions covered
- Emissions accounting in line with GHG Protocol on Project Accounting and UNFCCC IFI Harmonization Project
- Scope 1+2 lifetime emissions should be assessed if the FI is an initial sponsor/lender



# For each asset class, specific accounting rules have been defined (2/2)

#### **Asset class**





### **Specific accounting rules**

- Attribution based on the **property value at the time of origination**
- Annual **Scope 1+2 emissions** of each building (operational phase)
- Scope 3 emissions from construction and materials (embodied emissions) are voluntary





- Attribution based on the property value at the time of origination
- Annual Scope 1+2 emissions of each building (operational phase)



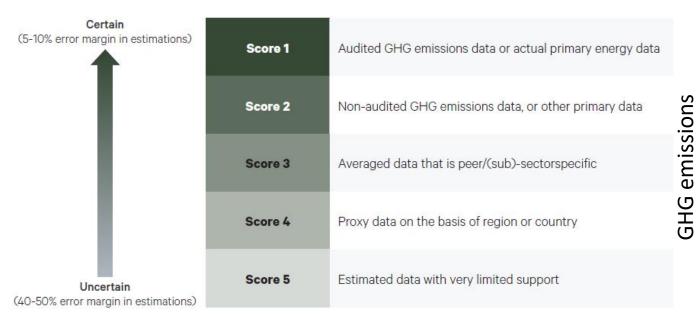


- Attribution based on total value at origination (equity + debt)
- Annual Scope 1+2 emissions of each vehicle (operational phase)
- Scope 3 emissions from vehicle production are voluntary (construction phase)

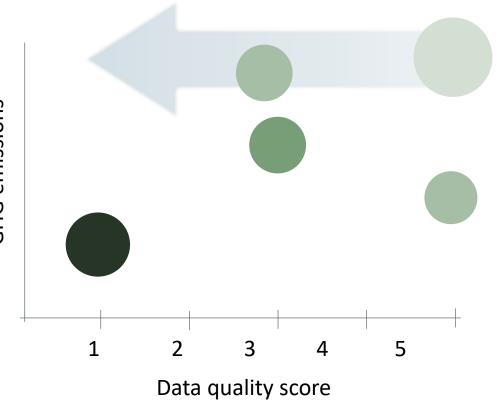


# The Standard addresses data quality issues and advises on which data can give the most robust results for each asset class

### Data quality scoring from 1 to 5....

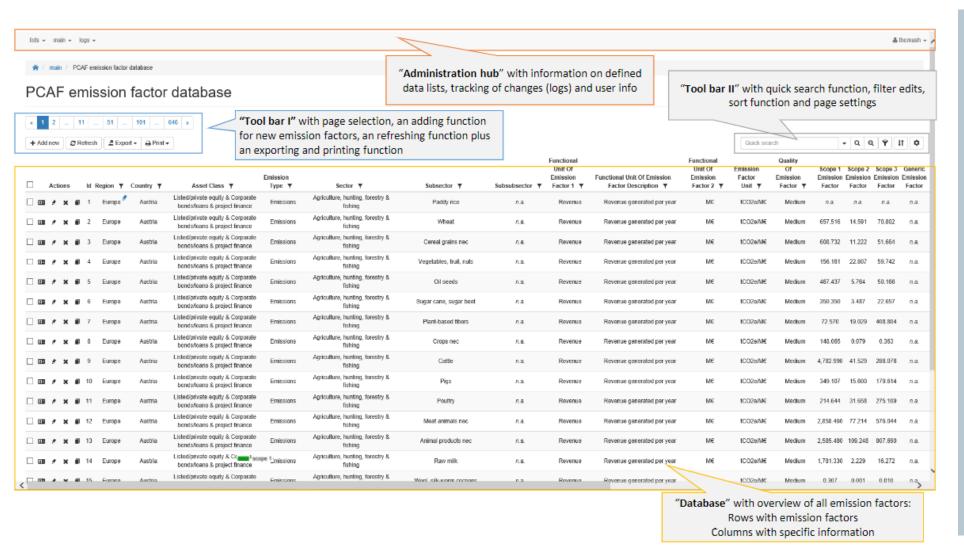


...enables financial institutions to develop a strategy to improve data over time





# PCAF's open-source database enables financial institutions to start with GHG accounting



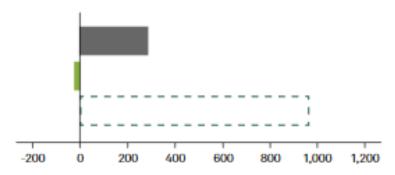
**Characteristics** 

- Free access
- Transparent
- Editable and thus extendable through "authorized" users
- Comprehensive with as many geographies, asset classes & sectors as possible
- Includes data quality score card

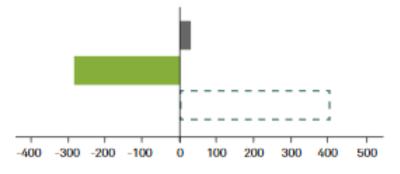


### Example of annual reporting by Triodos Bank

Climate impact of our loans & investments in ktonne CO2 eq. 2019



Climate impact in emission intensity 2019 in ktonne CO<sub>2</sub> eq./billion EUR financed



Generated emissions

Sequestered emissions

..... Avoided emissions



2019 - Climate impact of our loans and funds' investments

Impact sector		Total outstanding loans & funds investments covered (in 1,000 EUR)	emissions	Emission intensity (in ktonne CO <sub>2</sub> eq./ billion EUR)	Data quality score high quality = 1 low quality = 5
Generated emissions					
Environment:					
Organic farming		327,548	15	46	2.9
Sustainable property		1,046,640	34	32	3.1
Residential mortgages		2,192,019	35	16	2.3
Environmental - other		239,128	10	42	5.0
Social:					
Care for the elderly		652,871	24	37	3.8
Healthcare - other		419,541	16	38	5.0
Social housing		535,901	22	41	4.0
Inclusive finance & development		838,140	9	11	5.
Social other & municipalities		677,377	15	22	5.
Culture:					
Arts and culture		458,911	33	72	4.
Education		287,909	7	24	4.
Culture – other		255,683	16	63	5.
IEB funds		1,883,105	53	28	2.
		9,814,773	289	29	3.
Sequestered emissions Nature development &	•				
Forestry		84,769	-24	-283	2.
Net emissions		9,899,542	265	27	3.
Avoided emissions	0				
Renewable energy		2,391,993	962	402	1.0
Total <sup>1</sup>		12,291,535			3.

### Example of annual reporting by NatWest Group



The table below shows our preliminary estimates based on our work to date and should be read in conjunction with Section 5.7 (Caution about climate metrics) and Risk factors included in the 2020 Annual Report and Accounts.

The table below shows NatWest Group's (i) estimated financed emissions, (ii) physical and economic emissions intensities for the four sectors reviewed, (iii) preliminary physical emissions intensity estimates for year 2030 aligned to NatWest Group's climate ambition to reduce climate impact of financing activity by 50%, as well as for Paris alignment, (iv) Paris alignment physical emissions intensity in 2050. We will continue to work on this in 2021 and further refine our estimates as we enhance our understanding, calculation methodologies and data. We have used a combination of methodologies (some of which are still under development) to calculate these emissions. See section 5.6.1 to 5.6.4 for further details, by sector, on methodologies and approaches used, as well as data limitations.

		Preliminary e	estimates of financed en	Preliminary emission intensity estimates 2030 and 2050					
Sector	Financed emissions (MtCO₂e/y) (1)		Physical emissions intensity (2)	Economic emissions intensity (tCO <sub>2</sub> e/£M invested) <sup>(3)</sup>	PCAF Data quality score		Proposed 50% absolute emissions reduction intensity (2030)	Paris alignment emissions intensity (2030)	Paris alignment emissions intensity (2050)
	Scope 1 and 2	Scope 3			Scope 1 and 2	Scope 3			
Residential mortgages	2.2		39 kgCO₂e/m²	12	4.1		19 kgCO₂e/m²	20 kgCO₂e/m²	0.1 kgCO2e/m²
Agriculture (primary farming)	3.6		2,205 tCO <sub>2</sub> e/ £m revenue	940	4.3		1,103 tCO₂e/£m revenue	1,449 tCO₂e/£m revenue	1,165 tCO₂e/£m revenue
Automotive manufacturing <sup>(4)</sup>	0.01	0.53	168 gCO <sub>2</sub> /km	1,790	2.1	3.1	84 gCO <sub>2</sub> /km	121 gCO <sub>2</sub> /km	31 gCO <sub>2</sub> /km
Oil and gas extraction	0.08	1.9	75 tCO₂e/TJ	3,054	2.4	2.6	38 tCO₂e/TJ	Guidance under development	Guidance under development

#### Notes

- (1) MtCOze/y is million tonnes of carbon dioxde equivalent emitted per year.
- (2) Physical emissions intensity: Financed emissions divided by an output or activity value.
- (2) Economic emissions intensity; Financed emissions divided by the loan and investment amount. This helps understand how the emissions intensity of different portfolios (or parts of portfolios) compare to each other per monetary unit.
- (4) For automotive manufacturing, Scope 3 emissions and emissions intensity estimates only relate to tailpipe emissions.



### Example of annual reporting by Evenlode



### Total financed emissions per fund

