

# Measuring and disclosing on financed emissions and target setting

# PROGRAMME



**CDP introduction** | Sam Cheung, CDP

**Overview of the Portfolio Impact module** | Christian Lonnqvist, CDP

- Q&A

**Partnership for Carbon Accounting Financials (PCAF)** | Tiange Wei, PCAF

- Q&A

**Science-based targets for financial institutions** | Eoin White, CDP SBTi

- Q&A

# CDP introduction

# ABOUT CDP



CDP is a global environmental impact non-profit working to secure a thriving economy that works for people and planet.



CDP runs the global disclosure system that enables companies, cities, states and regions to measure and manage their environmental impacts.



With the world's most comprehensive collection of self-reported data, the world's economy looks to CDP as the gold standard of environmental reporting.



Its network of investors, purchasers and policymakers around the globe, use our data and insights to make better-informed decisions.

# HOW WE WORK

CDP data informs capital markets & policy makers on environmental challenges and opportunities



# CDP IS FEEDING THE ESG ECOSYSTEM



# IMPACT IN 2021



**600+** investor & capital market signatories with US\$110 trillion in assets



**200+** supply chain members with over US\$5.5 trillion in purchasing power



**13,000+** companies disclosed environmental information



**64%** of global market capitalisation represented and disclosed

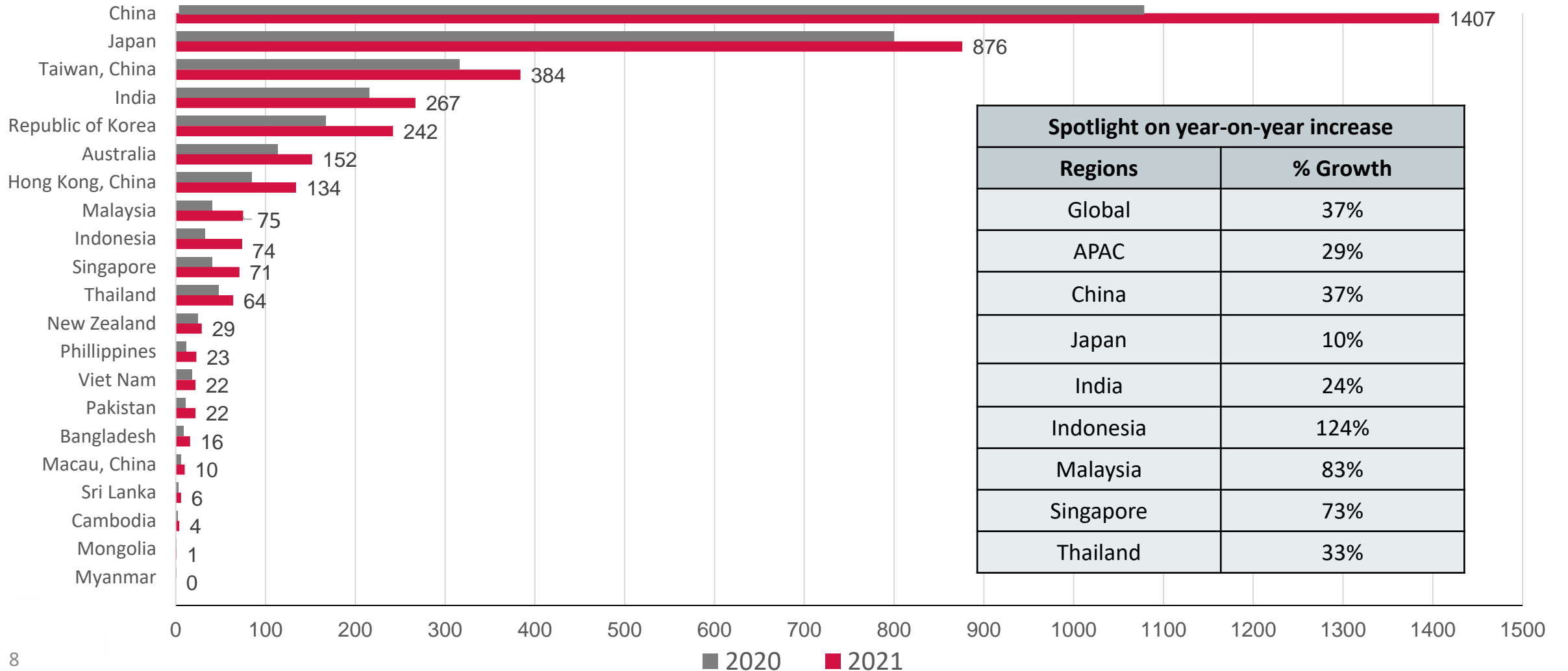


**1,100+** cities, states and regions disclosed

# APAC: 3,800+ COMPANIES DISCLOSED ON CLIMATE IMPACTS IN 2021



2020 vs 2021 Climate Change Disclosures



Spotlight on year-on-year increase	
Regions	% Growth
Global	37%
APAC	29%
China	37%
Japan	10%
India	24%
Indonesia	124%
Malaysia	83%
Singapore	73%
Thailand	33%



# EVOLUTION OF FINANCIAL SERVICES QUESTIONNAIRE



**Vision:** *Create a reporting framework for financial services covering all climate- and nature-related impacts of financing*

## Early 2020

- Launched first \*FS Q for financial sector
- Focused on climate change

## 2021

- Continued pilot of \*FS Q w/ next phase of forests metrics
- Developing water metrics

## 2020

- Piloted \*FS Q w/ climate change & forests metrics with banks
- Focused on Southeast Asia

## 2022 beyond

- Integration of metrics on climate change, forests and water security

# OVERVIEW OF FINANCIAL SERVICES QUESTIONNAIRE



Financial Services Questionnaire	
C0	Introduction
C1	Governance
C2	Risks and opportunities
C3	Business strategy
C4	Targets and performance
C5	Emissions methodology
C6	Emissions data
C7	Emissions breakdown
C8	Energy
C9	Additional metrics
C10	Verification
C11	Carbon pricing
C12	Engagement
C14	Portfolio impact
C15	Biodiversity
C16	Signoff
FW-FS	Forests and Water Security

## Note:

- **Module C14 – Portfolio Impact** is only presented to companies responding to the Financial Services questionnaire
- **Module C15 – Biodiversity** is a new module
- Module **FW-FS – Forests and Water Security** is a new module and only presented to companies responding to the Financial Services questionnaire

## Key changes to the 2022 Financial Services Questionnaire

### Exclusion policies

- Updated to align with SBTi Finance and RE100

### Carbon-related assets

- New question to improve transparency on financing & insurance volumes of carbon-related assets

### Portfolio targets

- New question allows companies to report to climate-related portfolio targets
- Alignment with SBTi-FI

### Covenants

- New question asking banks to disclose if and what covenants are included in financing agreements

### Net zero transition

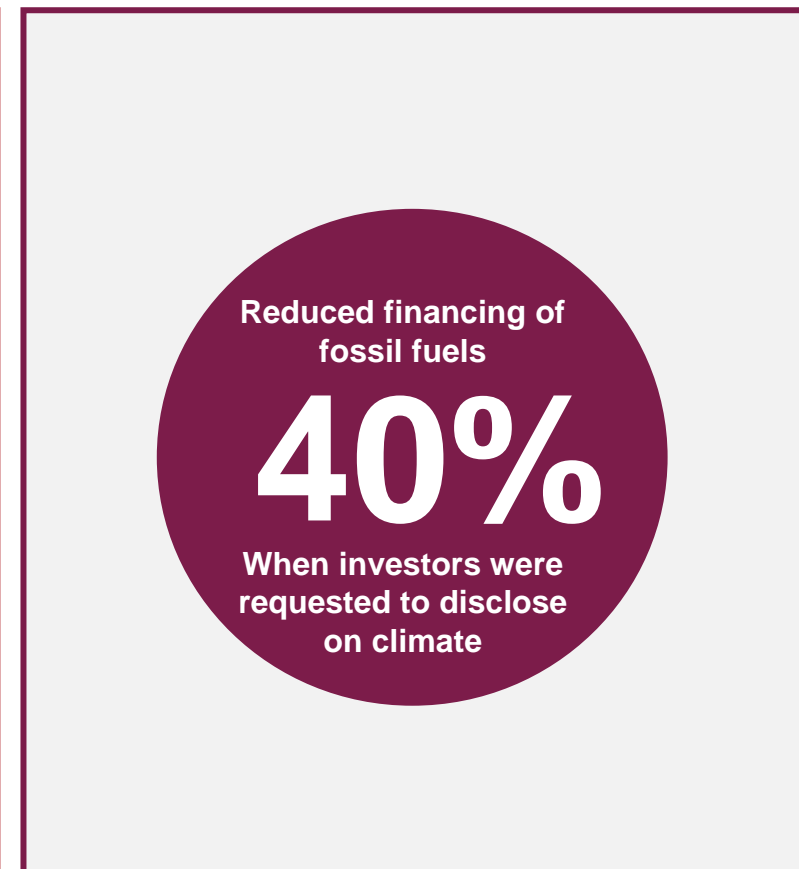
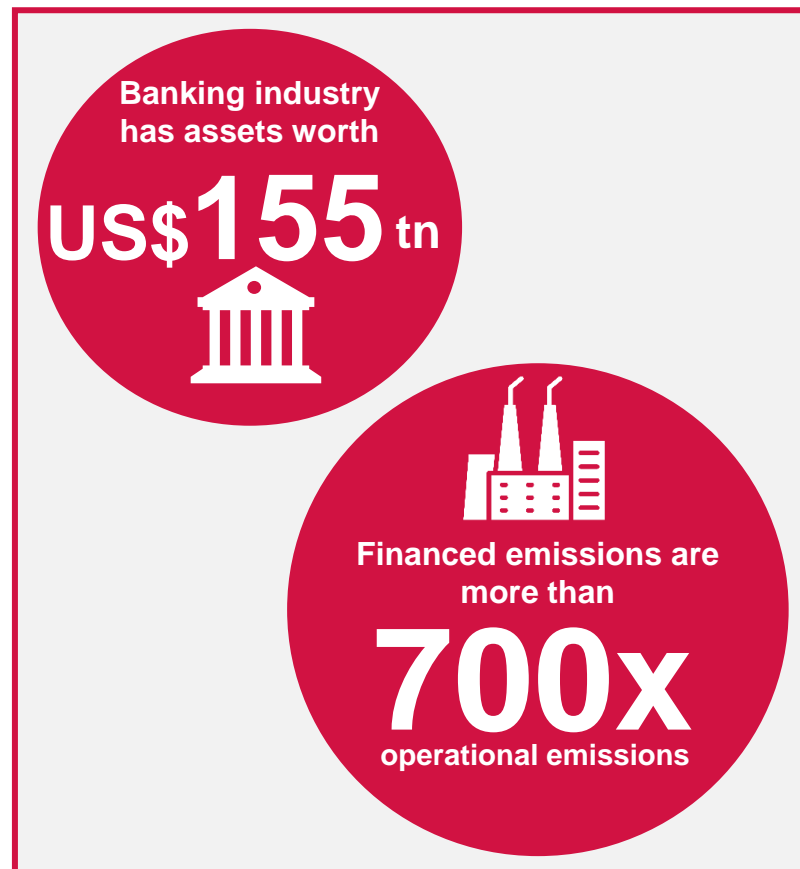
- Updates to questions to help track all net zero commitments under the Glasgow Financial Alliance for Net Zero

### Shareholder voting

- New question asking investors about shareholder voting on climate-related issues
- Alignment with Say on Climate

# Overview of Portfolio Impact module

# Financial sector has significant environmental impact and risks

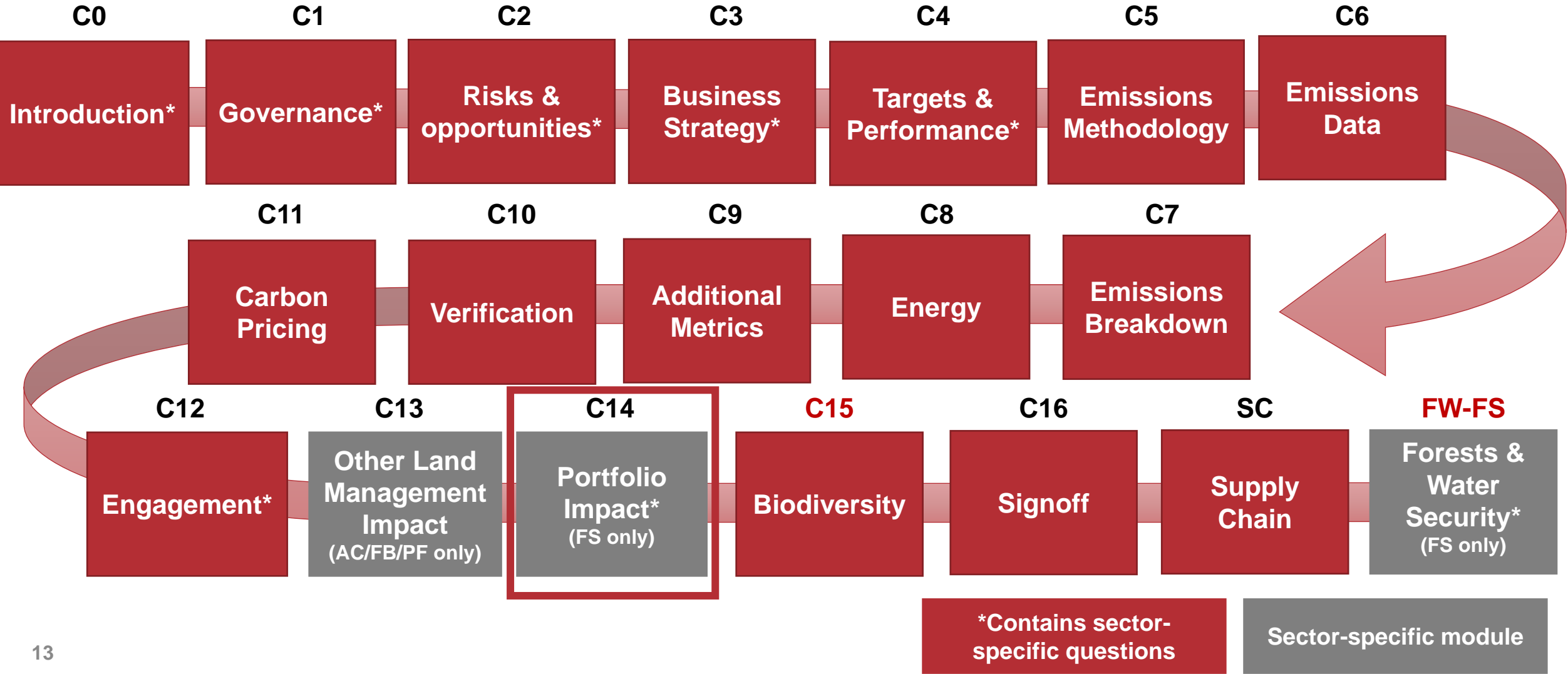


The financial sector holds the power and the capital to drive change

The potential financial impact figure dwarfs the cost to manage the risks

Disclosure drives action

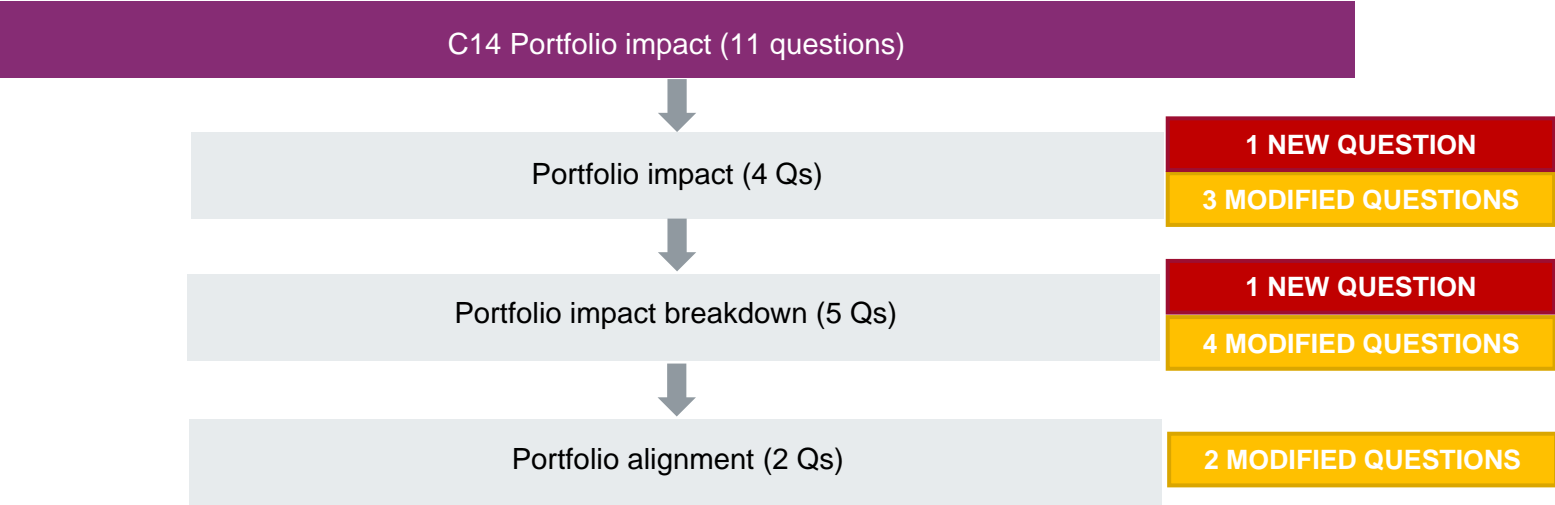
# Climate Change Questionnaire Structure



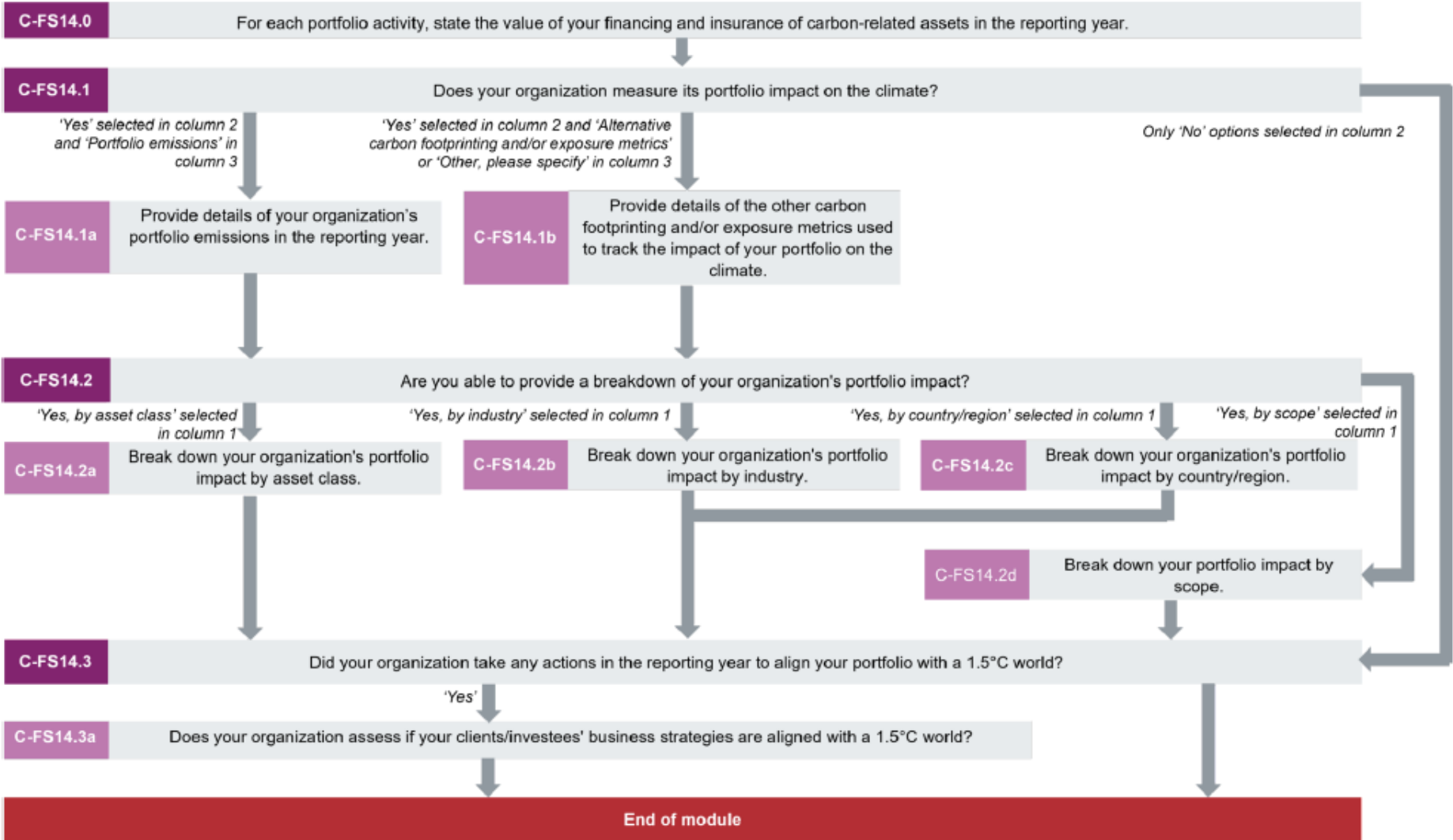
# C14 Portfolio Impact



2022 MODULES	
C0 Introduction	
C1 Governance	
C2 Risks and opportunities	
C3 Business strategy	
C4 Targets and performance	
C5 Emissions methodology	
C6 Emissions data	
C7 Emissions breakdown	
C8 Energy	
C9 Additional metrics	
C10 Verification	
C11 Carbon pricing	
C12 Engagement	
C13 Other land management impacts	
<b>C14 Portfolio impact (FS only)</b>	
C15 Biodiversity	
C16 Sign off	
SC Supply Chain	
FW-FS Forests and Water Security (FS only)	



# C14 Portfolio Impact



# (C-FS14.0) For each portfolio activity, state the value of your financing and insurance of carbon-related assets in the reporting year.



**NEW QUESTION**

▶ The majority of financial institutions' emissions are driven by the activities they finance in the wider economy (financed emissions) and their exposure to climate-related risks and opportunities are determined by their portfolios; that is by their lending, investment and insurance underwriting activities.

Portfolio activity	Are you able to report a value for the carbon-related assets?	Value of the carbon-related assets in your portfolio (unit currency - as specified in C0.4)*	New loans advanced in reporting year (unit currency - as specified in C0.4)*	Total premium written in reporting year (unit currency - as specified in C0.4)*	Percentage of portfolio value comprised of carbon-related assets in reporting year*	Primary reason for not providing a value for the financing and/or insurance to carbon-related assets*	Please explain why you are not providing a value for the financing and/or insurance to carbon-related assets and your plans for the future*
Lending to all carbon-related assets*	Select from: <ul style="list-style-type: none"> <li>• Yes</li> <li>• No, but we plan to assess our portfolio's exposure in the next two years</li> <li>• No, and we do not plan to assess our portfolio's exposure in the next two years</li> </ul>	Numeric field [enter a number from 0-999,999,999,999 using a maximum of 3 decimal places and no commas]	Numeric field [enter a number from 0-999,999,999,999 using a maximum of 3 decimal places and no commas]	Numeric field [enter a number from 0-999,999,999,999 using a maximum of 3 decimal places and no commas]	Percentage field [enter a percentage from 0-100]	Select from: <ul style="list-style-type: none"> <li>• Important, but not immediate priority</li> <li>• Judged to be unimportant, explanation provided</li> <li>• Lack of internal resources</li> <li>• No instruction from management</li> <li>• No relevant exposure in portfolio</li> <li>• Other, please specify</li> </ul>	Text field [maximum 2,500 characters]
Lending to coal*							
Lending to oil and gas*							
Investing in all carbon-related assets (Asset manager)*							
Investing in coal (Asset manager)*							
Investing in oil and gas (Asset manager)*							
Investing all carbon-related assets (Asset owner)*							
Investing in coal (Asset owner)*							
Investing in oil and gas (Asset owner)*							
Insuring all carbon-related assets*							
Insuring coal*							
Insuring oil and gas*							



## (C-FS14.1) Does your organization measure its portfolio impact on the climate?



### MODIFIED QUESTION

▼ The majority of emissions associated with the financial services sector are driven by their lending, investments and insurance activities (financed emissions). This question informs investors and other data users about the extent to which you understand your portfolio’s climate-related impact.

Portfolio	We conduct analysis on our portfolio's impact on the climate.	Disclosure metric*	Please explain why you do not measure the impact of your portfolio on the climate*
Banking (Bank)*	Select from: <ul style="list-style-type: none"> <li>• Yes</li> <li>• No, but we plan to do so in the next two years</li> <li>• No, and we do not plan to do so in the next two years</li> </ul>	Select all that apply: <ul style="list-style-type: none"> <li>• Portfolio emissions</li> <li>• Other carbon footprinting and/or exposure metrics (as defined by TCFD)</li> <li>• Other, please specify</li> </ul>	Text field [maximum 2,400 characters]
Investing (Asset manager)*			
Investing (Asset owner)*			
Insurance underwriting (Insurance company)*			

## (C-FS14.1a) Provide details of your organization's portfolio emissions in the reporting year.



### MODIFIED QUESTION

GHG emissions accounting is one of the primary metrics organizations in the financial sector can use to understand how their portfolio impacts the climate. In addition to highlighting risks and opportunities, portfolio emissions disclosure is a pre-requisite for financial institutions to measure improvements in the climate performance of their portfolios, and measure progress towards the net zero commitments that are increasingly being made.

Portfolio	Portfolio emissions (metric unit tons CO <sub>2</sub> e) in the reporting year	Portfolio coverage	Percentage calculated using data obtained from clients/investees	Emissions calculation methodology	Please explain the details and assumptions used in your calculation
Banking (Bank)*	Numerical field [enter a number from 0-999,999,999,999 using a maximum of 3 decimal places and no commas]	Percentage field [enter a percentage from 0-100]	Percentage field [enter a percentage from 0-100]	Select from: <ul style="list-style-type: none"> <li>• The Global GHG Accounting and Reporting Standard for the Financial Industry</li> <li>• Other, please specify</li> </ul>	Text field [maximum 2,500 characters]
Investing (Asset manager)*					
Investing (Asset owner)*					
Insurance underwriting (Insurance)*					

## (C-FS14.1b) Provide details of the other carbon footprinting and/or exposure metrics used to track the impact of your portfolio on the climate.



### MODIFIED QUESTION

▶ This question acknowledges that in addition to GHG emissions accounting, there are a number of other metrics organizations in the financial sector can use to understand how their portfolio impacts the climate. As currently there is no single, globally approved methodology or metric, this question allows you to express your portfolio impact using other metrics identified by the TCFD.

Portfolio	Portfolio metric	Metric value in the reporting year	Portfolio coverage	Percentage calculated using data obtained from clients/investees	Calculation methodology
Select from: <ul style="list-style-type: none"> <li>• Banking (Bank)*</li> <li>• Investing (asset manager)*</li> <li>• Investing (asset owner)*</li> <li>• Insurance underwriting (insurance company)*</li> </ul>	Select from: <ul style="list-style-type: none"> <li>• Weighted average carbon intensity (tCO2e/Million revenue)</li> <li>• Portfolio carbon footprint (tCO2e/Million invested)</li> <li>• Carbon intensity (tCO2e/Million revenue)</li> <li>• Avoided emissions financed (tCO2e)</li> <li>• Carbon removals financed (tCO2e)</li> <li>• Other, please specify</li> </ul>	Numeric field [enter a range of 0-999,999,999 using a maximum of 3 decimal places and no commas]	Percentage field [enter a percentage from 0-100]	Percentage field [enter a percentage from 0-100 using a maximum of 2 decimal places]	Text field [maximum of 3,000 characters]

## (C-FS14.2) Are you able to provide a breakdown of your organization's portfolio impact?



### MODIFIED QUESTION

By breaking down emissions and other carbon footprinting and/or exposure metrics by asset class, industry, country/regional level and scope, information and data can be made available to investors and other stakeholders to help guide the development of portfolio footprinting methodologies, global decarbonization efforts and regional legislation.

Portfolio breakdown	Please explain why you do not provide a breakdown of your portfolio impact*
<p>Select all that apply:</p> <ul style="list-style-type: none"><li>• Yes, by asset class</li><li>• Yes, by industry</li><li>• Yes, by country/region</li><li>• Yes, by scope</li><li>• None of the above, but we plan to do this in the next 2 years</li><li>• None of the above and we don't plan to do this</li></ul>	<p>Text field [maximum 2,400 characters]</p>

## (C-FS14.2a) Break down your organization's portfolio impact by asset class.



### MODIFIED QUESTION

Breaking down emissions and other carbon footprinting and/or exposure metrics by asset class can give an indication of the relative GHG emissions performance and/or exposure to climate-related risks of your company's assets. When reported over time, your organization and investors will be able to review improvements or declines in asset performance with considerations for your portfolio's impact on the climate.

Asset class*	Portfolio metric	Portfolio emissions or alternative metric
<p>Select from:</p> <p>Banking</p> <ul style="list-style-type: none"> <li>• Corporate loans</li> <li>• Retail loans</li> <li>• Corporate real estate</li> <li>• Retail mortgages</li> <li>• Trade finance</li> <li>• Asset finance</li> <li>• Project finance</li> <li>• Other, please specify</li> </ul> <p>Investing</p> <ul style="list-style-type: none"> <li>• Fixed Income</li> <li>• Listed Equity</li> <li>• Private Equity</li> <li>• Real estate/Property</li> <li>• Infrastructure</li> <li>• Commodities</li> <li>• Forestry</li> <li>• Hedge funds</li> <li>• Mutual funds</li> <li>• Fund of funds</li> <li>• Derivatives</li> <li>• Other, please specify</li> </ul> <p>Insurance</p> <ul style="list-style-type: none"> <li>• Property &amp; Casualty</li> <li>• Construction &amp; Engineering</li> <li>• Agribusiness</li> <li>• Motor</li> <li>• Marine</li> <li>• Life</li> <li>• Health</li> <li>• Other, please specify</li> </ul>	<p>Select from:</p> <ul style="list-style-type: none"> <li>• Absolute portfolio emissions (tCO2e)</li> <li>• Weighted average carbon intensity (tCO2e/Million revenue)</li> <li>• Portfolio carbon footprint (tCO2e/Million invested)</li> <li>• Carbon intensity (tCO2e/Million revenue)</li> <li>• Exposure to carbon-related assets (Million portfolio value)</li> <li>• Avoided emissions financed (tCO2e)</li> <li>• Carbon removals financed (tCO2e)</li> <li>• Other, please specify</li> </ul>	<p>Numerical field [enter a range of 0-999,999,999,999 using a maximum of 2 decimal places and no commas]</p>

## (C-FS14.2b) Break down your organization's portfolio impact by industry.



### MODIFIED QUESTION

As sectoral decarbonization is at the center of some carbon footprinting methodologies, breaking down emissions, other carbon footprinting and/or exposure metrics on an industry level is key to identify concentrations of carbon-related assets in the financial sector and the financial system’s exposure to climate-related risks. Reporting at this level can provide a useful indicator for making comparisons between your financial activities in different industries.

Portfolio*	Industry	Portfolio metric	Portfolio emissions or alternative metric
Select from: <ul style="list-style-type: none"> <li>Banking (Bank)</li> <li>Investing (Asset manager)</li> <li>Investing (Asset owner)</li> <li>Insurance underwriting (Insurance company)</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Energy</li> <li>Materials</li> <li>Capital Goods</li> <li>Commercial &amp; Professional Services</li> <li>Transportation</li> <li>Automobiles &amp; Components</li> <li>Consumer Durables &amp; Apparel</li> <li>Consumer Services</li> <li>Retailing</li> <li>Food &amp; Staples Retailing</li> <li>Food, Beverage &amp; Tobacco</li> <li>Household &amp; Personal Products</li> <li>Health Care Equipment &amp; Services</li> <li>Pharmaceuticals, Biotechnology &amp; Life Sciences</li> <li>Banks</li> <li>Diversified Financials</li> <li>Insurance</li> <li>Software &amp; Services</li> <li>Technology Hardware &amp; Equipment</li> <li>Semiconductors &amp; Semiconductor Equipment</li> <li>Telecommunication Services</li> <li>Media &amp; Entertainment</li> <li>Utilities</li> <li>Real Estate</li> <li>Other, please specify</li> </ul>	Select from: <ul style="list-style-type: none"> <li>Absolute portfolio emissions (tCO2e)</li> <li>Weighted average carbon intensity (tCO2e/Million revenue)</li> <li>Portfolio carbon footprint (tCO2e/Million invested)</li> <li>Carbon intensity (tCO2e/Million revenue)</li> <li>Exposure to carbon-related assets (Million portfolio value)</li> <li>Avoided emissions financed (tCO2e)</li> <li>Carbon removals financed (tCO2e)</li> <li>Other, please specify</li> </ul>	Numerical field [enter a range of 0-999,999,999,999 using a maximum of 2 decimal places and no commas]

## (C-FS14.2c) Break down your organization's portfolio impact by country/region.

### MODIFIED QUESTION

▼ In some cases, particular countries/regions may fall within the scope of particular legislation, therefore, providing country/region-level emissions and/or exposure figures may give data users insight into your organization's current/potential exposure to regulation in this country/region.

Portfolio*	Country/region	Portfolio metric	Portfolio emissions or alternative metric
Select from: <ul style="list-style-type: none"> <li>Banking (Bank)</li> <li>Investing (Asset manager)</li> <li>Investing (Asset owner)</li> <li>Insurance underwriting (Insurance company)</li> </ul>	Select from: [Country/region drop-down list]	Select from: <ul style="list-style-type: none"> <li>Absolute portfolio emissions (tCO2e)</li> <li>Weighted average carbon intensity (tCO2e/Million revenue)</li> <li>Portfolio carbon footprint (tCO2e/Million invested)</li> <li>Carbon intensity (tCO2e/Million revenue)</li> <li>Exposure to carbon-related assets (Million portfolio value)</li> <li>Avoided emissions financed (tCO2e)</li> <li>Carbon removals financed (tCO2e)</li> <li>Other, please specify</li> </ul>	Numeric field [enter a number from 0-999,999,999,999 using a maximum of 2 decimal places and no commas]

## (C-FS14.2d) Break down your organization's portfolio impact by scope.



### NEW QUESTION

Current methodologies for calculating portfolio emissions can lead to double counting across scopes. For example, what are counted as Scope 1 emissions for an electricity generation company could be the same emissions for a retailer but counted as Scope 2. There is currently no way for financial institutions to overcome this in their portfolio emission calculations, but this question allows you to report emissions by scope separately.

Portfolio*	Clients'/investees' scope	Portfolio emissions (metric tons CO2e)
Select from: <ul style="list-style-type: none"><li>• Bank lending (Bank)</li><li>• Investing (Asset manager)</li><li>• Investing (Asset owner)</li><li>• Insurance underwriting (Insurance company)</li></ul>	Select from: <ul style="list-style-type: none"><li>• Scope 1</li><li>• Scope 2 (location-based)</li><li>• Scope 2 (market-based)</li><li>• Scope 3</li></ul>	Numerical field [enter a range of 0-999,999,999,999 using a maximum of 2 decimal places and no commas]



## (C-FS14.3) Did your organization take any actions in the reporting year to align your portfolio with a 1.5°C world?



### MODIFIED QUESTION

Steering financial portfolios in line with a 1.5°C world will make financial flows consistent with a pathway towards low greenhouse gas emissions and climate-resilient development. Since financial services sector organizations are at the core of enabling economic activities, their commitments and targets have a trickle-down effect on the real economy.

Portfolio	Actions taken to align our portfolio with a 1.5°C world	Please explain why you have not taken any action to align your portfolio with a 1.5°C world*
Banking (Bank)*	Select from: <ul style="list-style-type: none"> <li>Yes</li> <li>No, but we plan to in the next two years</li> <li>No, and we do not plan to in the next two years</li> </ul>	Text field [maximum 2,500 characters]
Investing (Asset manager)*		
Investing (Asset owner)*		
Insurance underwriting (Insurance company)*		

## (C-FS14.3a) Does your organization assess if your clients/investees' business strategies are aligned with a 1.5°C world?

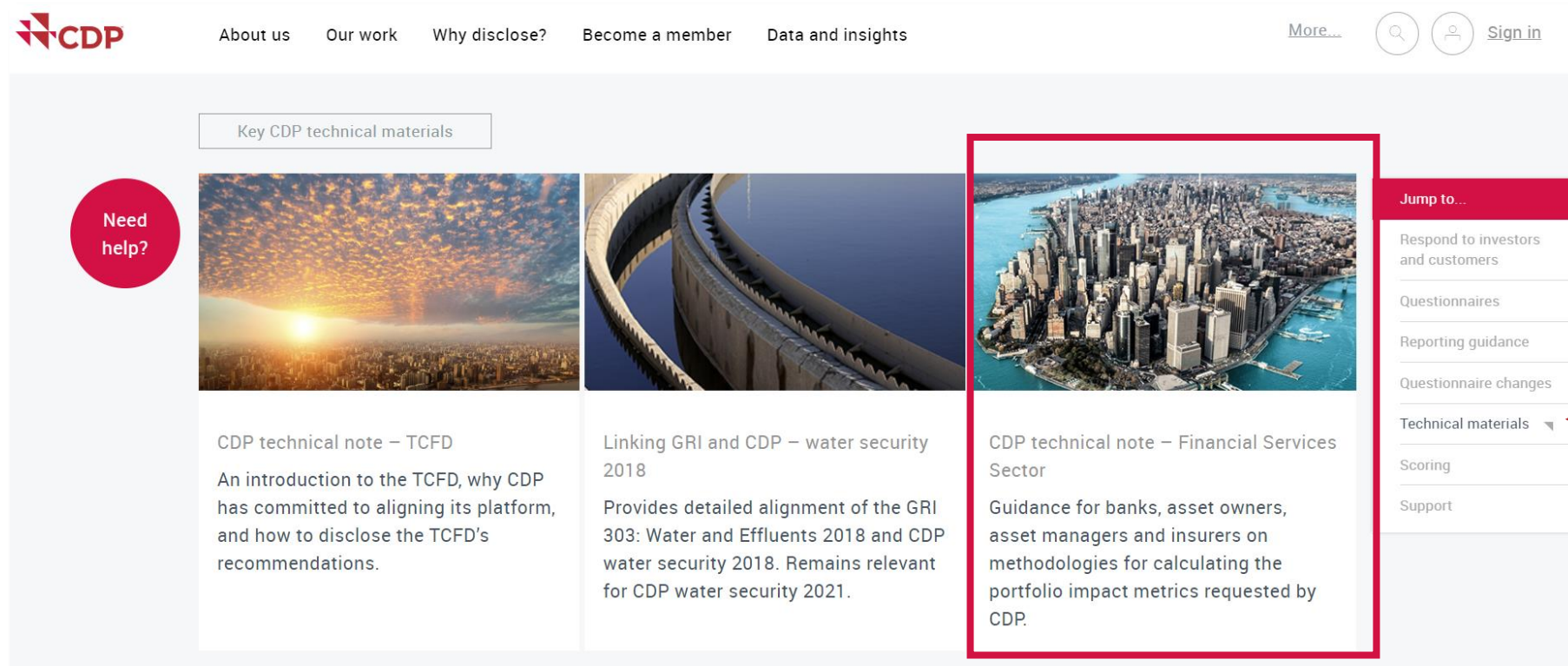
### MODIFIED QUESTION

While the commitments and targets of financial institutions are a critical step, it is changes in business strategies amongst their clients/investees where emissions actually take place which will decarbonize the real economy. Organizations in the financial sector are encouraged to assess whether their clients/investees' business strategies are aligned to a 1.5°C world in order to drive change and decarbonize the real economy.

Portfolio	Assessment of alignment of clients/investees' strategies with a 1.5°C world	Please explain why you are not assessing if your clients/investees' business strategies are aligned with a 1.5°C world*
Banking (Bank)*	Select from: <ul style="list-style-type: none"> <li>• Yes, for all</li> <li>• Yes, for some</li> <li>• No, but we plan to in the next two years</li> <li>• No, and we do not plan to in the next two years</li> </ul>	Text field [maximum 2,500 characters]
Investing (Asset manager)*		
Investing (Asset owner)*		
Insurance underwriting (Insurance company)*		



# Technical note for FS sector

- ▼ CDP Technical Note on Portfolio Impact Metrics (C14 Portfolio impact – Climate Change only)



The screenshot shows the CDP website's 'Key CDP technical materials' section. It features three cards: 'CDP technical note – TCFD', 'Linking GRI and CDP – water security 2018', and 'CDP technical note – Financial Services Sector'. The third card is highlighted with a red border. On the right, a 'Jump to...' sidebar lists navigation options, with 'Technical materials' selected and indicated by a red arrow.

CDP

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Key CDP technical materials

Need help?

CDP technical note – TCFD  
An introduction to the TCFD, why CDP has committed to aligning its platform, and how to disclose the TCFD's recommendations.

Linking GRI and CDP – water security 2018  
Provides detailed alignment of the GRI 303: Water and Effluents 2018 and CDP water security 2018. Remains relevant for CDP water security 2021.

CDP technical note – Financial Services Sector  
Guidance for banks, asset owners, asset managers and insurers on methodologies for calculating the portfolio impact metrics requested by CDP.

Jump to...

- Respond to investors and customers
- Questionnaires
- Reporting guidance
- Questionnaire changes
- Technical materials
- Scoring
- Support

# Q&A

## Partnership for Carbon Accounting Financials (PCAF)



# Partnership for Carbon Accounting Financials

Enabling financial institutions to  
assess and disclose financed  
emissions

Prepared for CDP 2022 Asia Pacific Capacity Building  
Webinar Series for Financial Institutions

4 May 2022

# Agenda



**01** | Introduction to PCAF

**02** | The value of measuring financed emissions

**03** | GHG accounting implementation

**04** | Participation in PCAF

# Introduction to PCAF



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

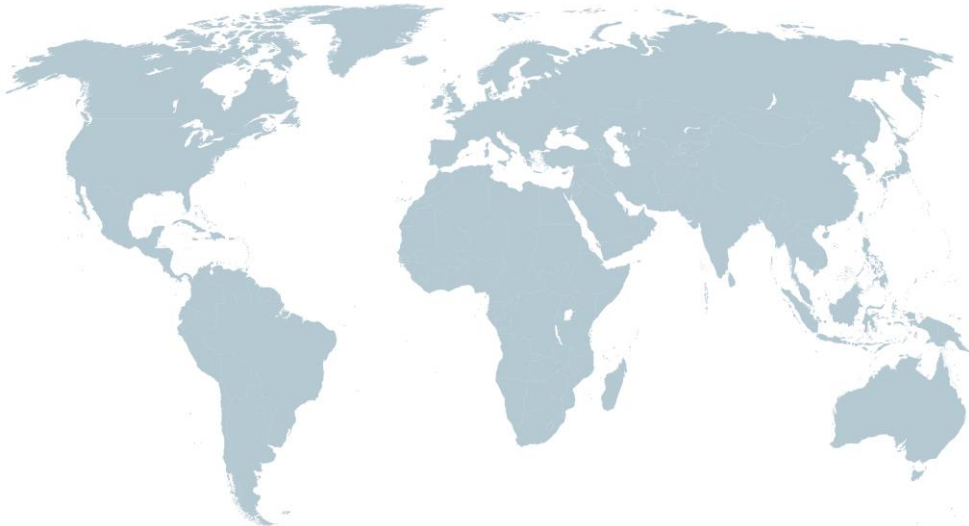
2015: Netherlands



2018: North America



2019: Global



## Global Steering Committee



Morgan Stanley



Triodos Bank

UN-convened Net-Zero Asset Owner Alliance

# More than 250 financial institutions in 56 countries have joined PCAF, representing \$71+ trillion in total assets



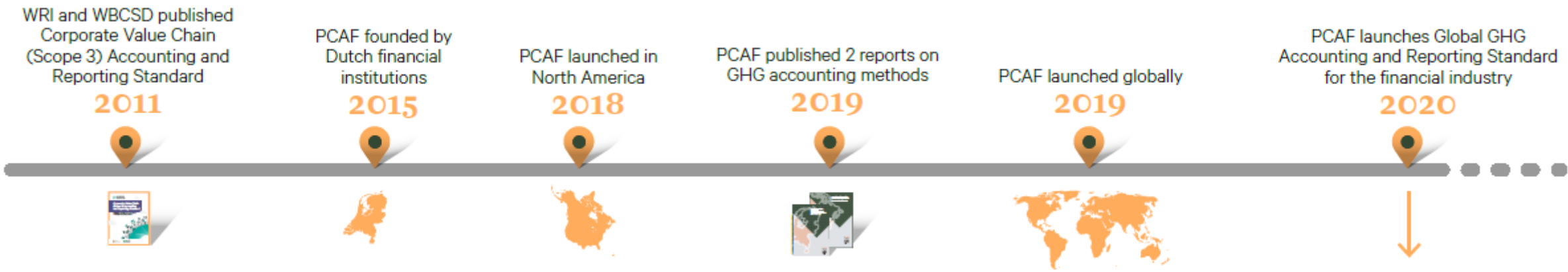
## Objectives of PCAF

- 1 Develop the Global GHG Accounting and Reporting Standard for the Financial Industry
- 2 Increase the number of financial institutions that use the Standard and disclose financed emissions to over **250 institutions worldwide by year-end 2022**

Check the full list of PCAF signatories [here](#)

Download the Global GHG Accounting and Reporting Standard [here](#)

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



# The GLOBAL GHG ACCOUNTING & REPORTING 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 PCAF Global GHG Accounting and Reporting Standard for the Financial Industry was launched in November 2020



- 1. Industry-led**
- 2. Built on the GHG Protocol**
- 3. Network effects**

# The GLOBAL GHG ACCOUNTING & REPORTING Standard

FOR THE FINANCIAL INDUSTRY



## Listed Equity and Corporate Bonds

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

EVIC = enterprise value including cash



## Business Loans and Unlisted Equity

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

EVIC = enterprise value including cash



## Project Finance

$$\frac{\text{Outstanding amount}}{\text{Total project equity + debt}} \times \text{Project emissions}$$

### GHG accounting for six asset classes



## Commercial Real Estate

$$\frac{\text{Outstanding amount}}{\text{Property value at origination}} \times \text{Building emissions}$$



## Mortgages

$$\frac{\text{Outstanding amount}}{\text{Property value at origination}} \times \text{Building emissions}$$



## Motor Vehicles Loans

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

# The PCAF Core Team continues to expand on the Standard with more asset classes and case studies



FirstRand

UN-convened  
Net-Zero Asset  
Owner Alliance



Morgan Stanley



CTBC HOLDING  
中國信託金控



Deutsche Bank

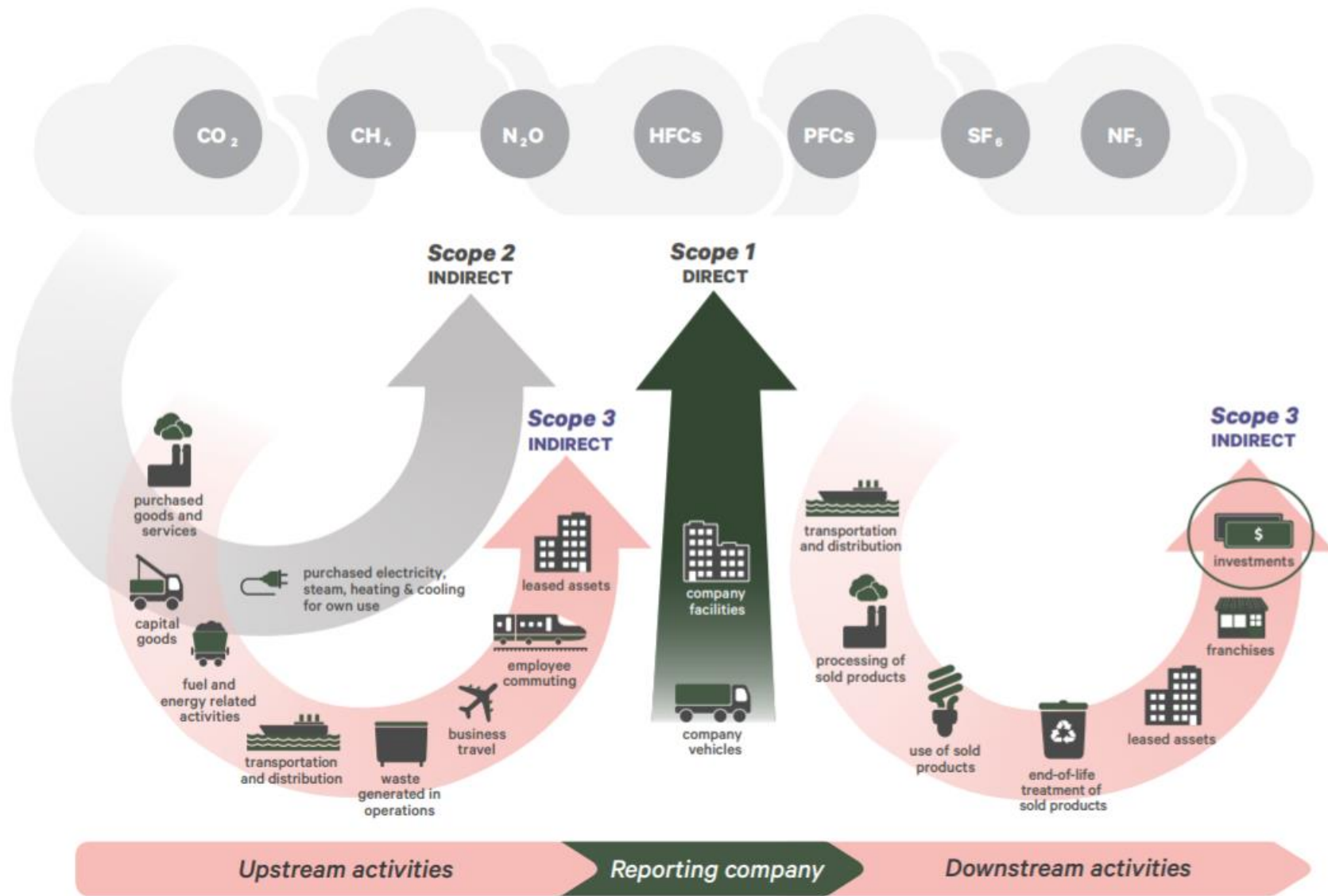
# The value of measuring financed emissions

# Intro to GHG accounting for financial institutions

**Greenhouse gas (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.

**What gets measured gets managed.**





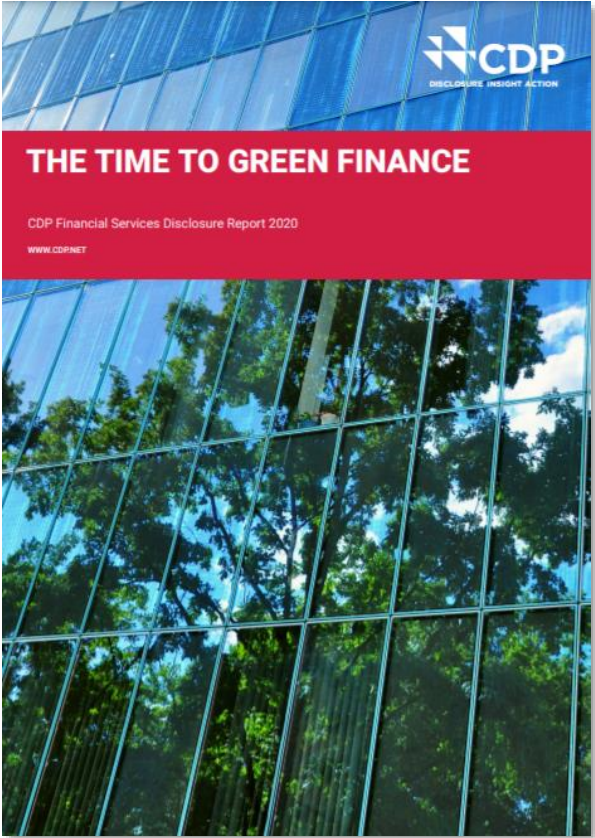
**Key principle:**  
 financial institutions  
 indirectly create a  
 climate impact  
 through their loans  
 and investments.

# Scope 3, Category 15 emissions are the largest component of the climate impact of a financial institution

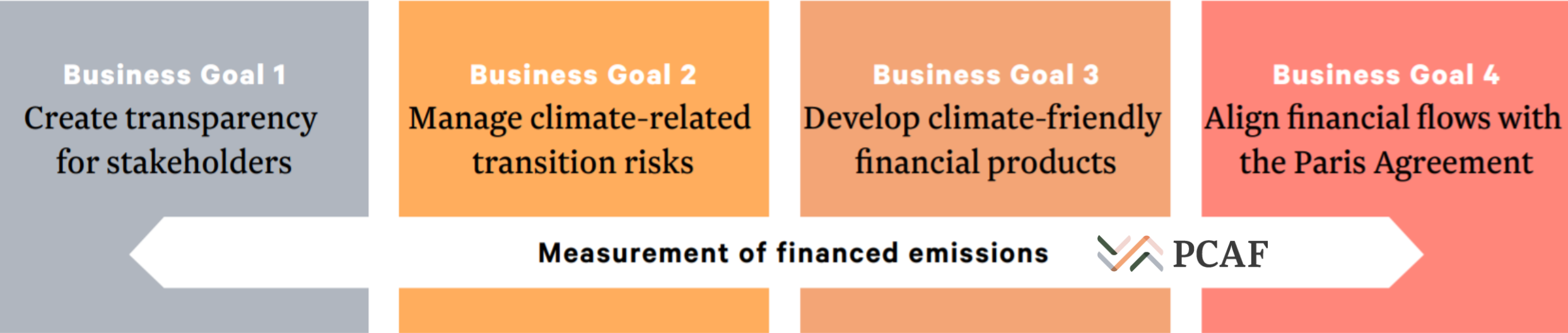
**Portfolio emissions of global financial institutions are on average 700x larger than direct emissions.\***



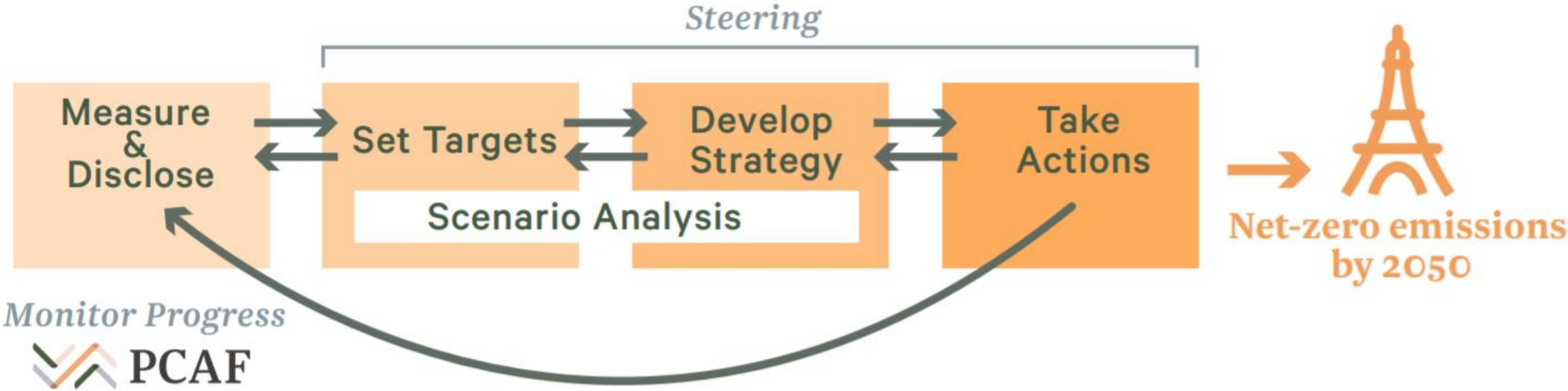
**#TimeToGreenFinance**  
\*Per organization reporting financed emissions



# Measuring and disclosing financed emissions furthers climate-related business goals and aligns with other initiatives



# GHG accounting exists as a discrete action in a sequence that allows banks and investors to measure, disclose and align



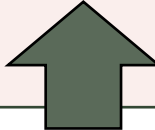
[DOWNLOAD THE STRATEGIC FRAMEWORK \(PDF, 2.1 MB\)](#)

# GHG accounting implementation

# 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.

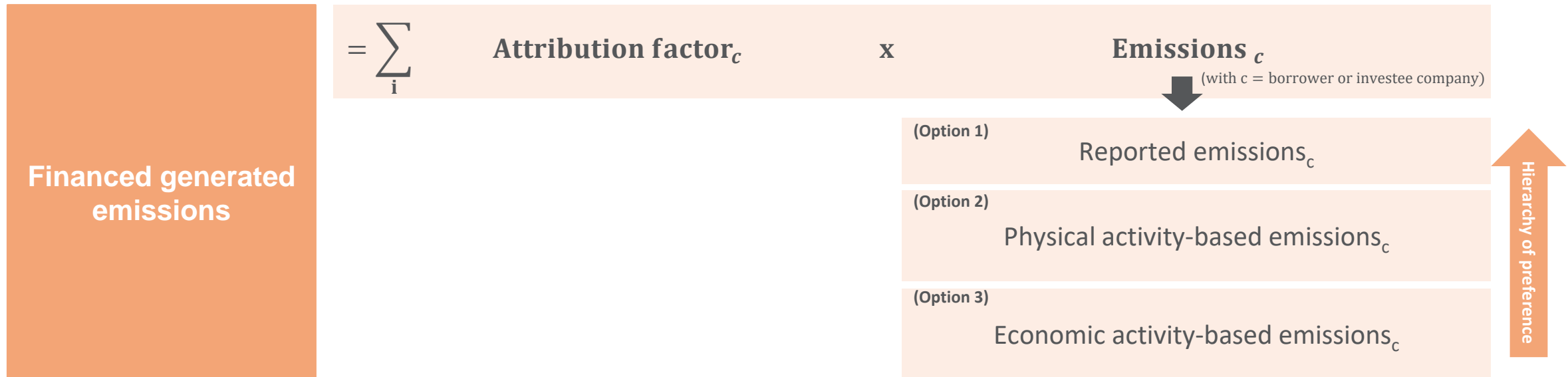
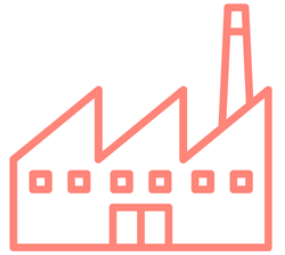
$$\text{Portfolio GHG Emissions} = \sum_i \frac{\text{Outstanding amount}}{(\text{Equity} + \text{Debt})_i} \times \text{GHG Emissions}_i$$

  
Attribution factor

i = borrower or investee

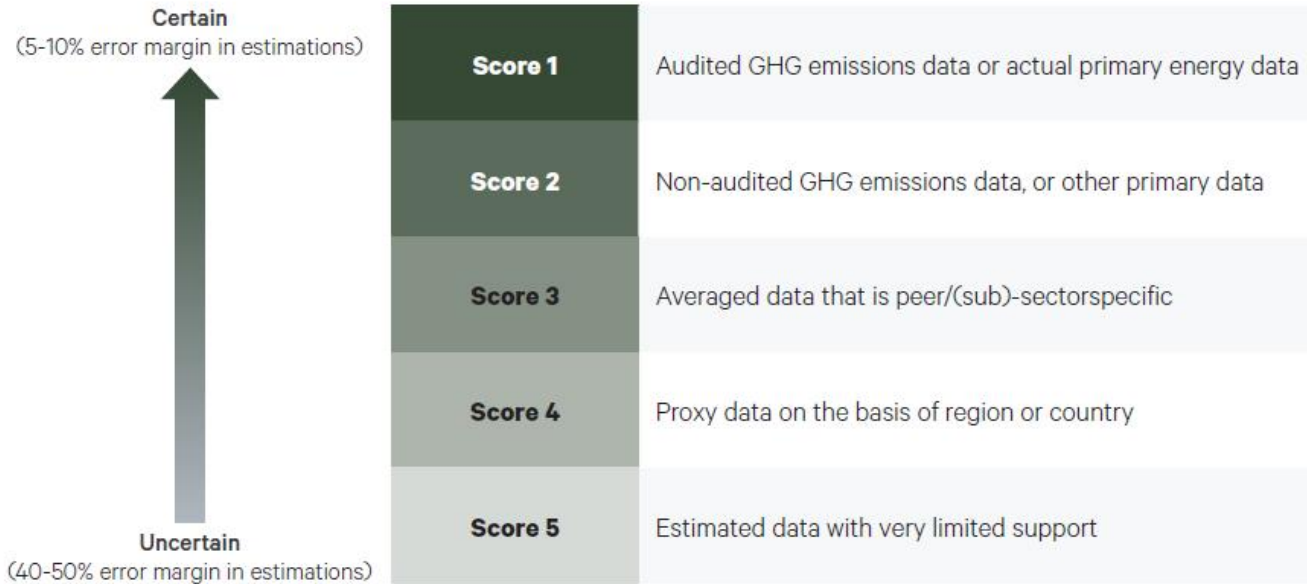
- The equation above is general and is **applied for each asset class** in a financial institution’s portfolio
- The **attribution factor** is used to show the financial institution’s share of the borrow or investee’s emissions
- A borrower or investee is a general term and could represent a **company,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

# Availability of data determines the method of calculating financed emissions



# 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

(score 1 = highest data quality; score 5 = lowest data quality)

Data Quality	Options to estimate the financed emissions	When to use each option
Score 1	Option 1: Reported emissions	1a Outstanding amount in the company and EVIC are known. <b>Verified emissions</b> of the company are available.
		1b Outstanding amount in the company and EVIC are known. <b>Unverified emissions</b> calculated by the company are available.
Score 2	Option 2: Physical activity-based emissions	2a <sup>52</sup> Outstanding amount in the company and EVIC are known. Reported company emissions are not known. Emissions are calculated using primary physical activity data of the <b>company's energy consumption</b> and emission factors <sup>53</sup> specific to that primary data. Relevant process emissions are added.
		2b Outstanding amount in the company and EVIC are known. Reported company emissions are not known. Emissions are calculated using primary physical activity data of the <b>company's production</b> and emission factors specific to that primary data.
Score 3		
Score 4	Option 3: Economic activity-based emissions	3a Outstanding amount in the company, EVIC, and the <b>company's revenue</b> <sup>54</sup> are known. Emission factors for the sector per unit of revenue are known (e.g., tCO <sub>2</sub> e per euro of revenue earned in a sector).
		3b Outstanding amount in the company is known. Emission factors for the sector per unit of asset (e.g., tCO <sub>2</sub> e per euro of asset in a sector) are known.
Score 5		3c Outstanding amount in the company is known. Emission factors for the sector per unit of revenue (e.g., tCO <sub>2</sub> e per euro of revenue earned in a sector) and <b>asset turnover ratios</b> for the sector are known.



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

The screenshot shows the PCAF emission factor database interface. It includes a navigation bar with 'main' and 'logs' links, a search bar, and a 'Tool bar I' with 'Add new', 'Refresh', 'Export', and 'Print' buttons. A 'Tool bar II' contains a 'Quick search' field and icons for search, filter, sort, and page settings. The main area is a table of emission factors with columns for Actions, Id, Region, Country, Asset Class, Emission Type, Sector, Subsector, Subsubsector, Functional Unit Of Emission Factor 1, Functional Unit Of Emission Factor 2, Emission Factor Unit, Quality, Scope 1 Emission Factor, Scope 2 Emission Factor, Scope 3 Emission Factor, and Generic Emission Factor.

**“Administration hub”** with information on defined data lists, tracking of changes (logs) and user info

**“Tool bar I”** with page selection, an adding function for new emission factors, an refreshing function plus an exporting and printing function

**“Tool bar II”** with quick search function, filter edits, sort function and page settings

**“Database”** with overview of all emission factors:  
Rows with emission factors  
Columns with specific information

Actions	Id	Region	Country	Asset Class	Emission Type	Sector	Subsector	Subsubsector	Functional Unit Of Emission Factor 1	Functional Unit Of Emission Factor 2	Emission Factor Unit	Quality	Scope 1 Emission Factor	Scope 2 Emission Factor	Scope 3 Emission Factor	Generic Emission Factor	
	1	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Paddy rice	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	n.a.	n.a.	n.a.	n.a.
	2	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Wheat	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	657.516	14.591	70.802	n.a.
	3	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Cereal grains nec	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	608.732	11.222	51.664	n.a.
	4	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Vegetables, fruit, nuts	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	156.161	22.807	59.742	n.a.
	5	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Oil seeds	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	467.437	5.764	50.188	n.a.
	6	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Sugar cane, sugar beet	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	350.350	3.487	22.657	n.a.
	7	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Plant-based fibres	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	72.570	19.029	408.804	n.a.
	8	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Crops nec	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	140.065	0.079	0.363	n.a.
	9	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Cattle	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	4,782.990	41.529	288.078	n.a.
	10	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Pigs	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	349.107	15.800	179.814	n.a.
	11	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Poultry	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	214.644	31.658	275.109	n.a.
	12	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Meat animals nec	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	2,858.460	77.214	576.044	n.a.
	13	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Animal products nec	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	2,505.400	109.248	807.890	n.a.
	14	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Raw milk	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	1,701.330	2.229	16.272	n.a.
	15	Europe	Austria	Listed/private equity & Corporate bonds/loans & project finance	Emissions	Agriculture, hunting, forestry & fishing	Wool, silk, worm cocoons	n.a.	Revenue	Revenue generated per year	ME	ICO2a/ME	Medium	0.307	0.001	0.010	n.a.

## Characteristics

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

# Participation in PCAF

# PCAF signatories commit to assess and disclose the greenhouse gas emissions of its financial portfolio

## Commitment Letter

### Commitment in short:

Measure and disclose the portfolio GHG emissions within three years of signing the commitment letter (portfolio coverage is up to the institution)

All financial institutions involved in the Partnership for Carbon Accounting Financials (“PCAF”) subscribed and adhere to the following commitment. By joining PCAF, also our financial institution commits to adhere to this:

*Addressing the urgent challenge of climate change, and decarbonizing our economy, is more pressing now than ever. That is why we have committed to measure and disclose the greenhouse gas (GHG) emissions associated with our portfolio of loans and investments within a period of three years using jointly developed carbon accounting methodologies, in order to ultimately enable the alignment of our portfolio with the Paris Climate Agreement.*

*We want to share and learn from credible carbon accounting practices to find solutions to shared challenges. We hope this will encourage and stimulate the adoption of carbon accounting and target setting in the financial sector on a larger and mainstream scale.*

*We will contribute to the overall objective of PCAF, which is to secure the public commitment (via signed commitment letters) of at least 100 participating financial institutions globally to measure and disclose the GHG emissions of their loans and investments within a period of three years. Together we will collaborate to achieve transparency and uniformity in carbon accounting.*

*We acknowledge that our commitment will be recognized on the PCAF website and social media account, as well as at other communication activities such as events where the initiative is showcased.*

[DOWNLOAD COMMITMENT LETTER](#)



**PCAF**

Partnership for  
Carbon Accounting  
Financials

[carbonaccountingfinancials.com](https://carbonaccountingfinancials.com)

| [info@carbonaccountingfinancials.com](mailto:info@carbonaccountingfinancials.com)

| [@pcafglobal](https://twitter.com/pcafglobal)

## Q&A

# Science-based targets for financial institutions

# SBTs for Financial Institutions

**2022 APAC Capacity Building**  
May 04, 2022

Partner organizations



United Nations  
Global Compact



WORLD  
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In collaboration with

WE MEAN  
BUSINESS  
COALITION

# Introduction – About the SBTi

## Build the technical foundations



Develop the **technical groundwork** required to facilitate the adoption of science-based targets in the corporate sector

## Scale-up adoption



Build a **critical mass** of high-impact companies with science-based targets in key regions and sectors

## Independent assessment



Provide **independent assessment** of targets, showcase early movers, and disseminate best practice.

1356

with science-based targets

1032

net-zero commitments

2940

companies taking action

PARTNER ORGANIZATIONS



IN COLLABORATION WITH

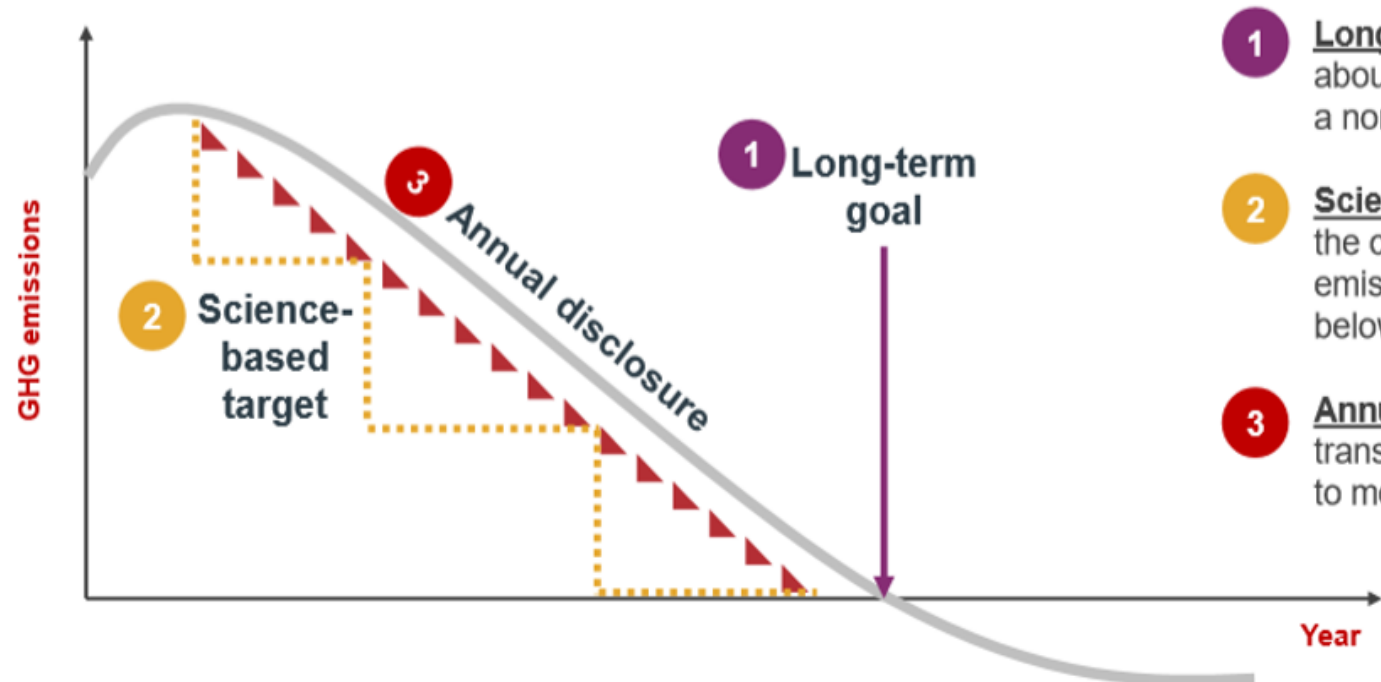




# The path to the end goal



How can investors and other stakeholders ensure that companies are aligning towards the goals of the Paris Agreement?



- 1 **Long-term goal:** A net-zero long-term goal provides certainty about the direction that the company will follow and serves as a north-star for long-term strategic decisions;
- 2 **Science-based target:** Science-based targets ensure that the company is taking shorter-term action to reduce emissions at a pace that is consistent with keeping warming below 1.5°C / well-below 2°C;
- 3 **Annual disclosure:** Climate disclosure provides transparency about the progress that the company is making to meet its long-term and medium-term goals

# How does SBTi fit into the financial sector?

Defines science-based approaches to formulating targets on financed emissions



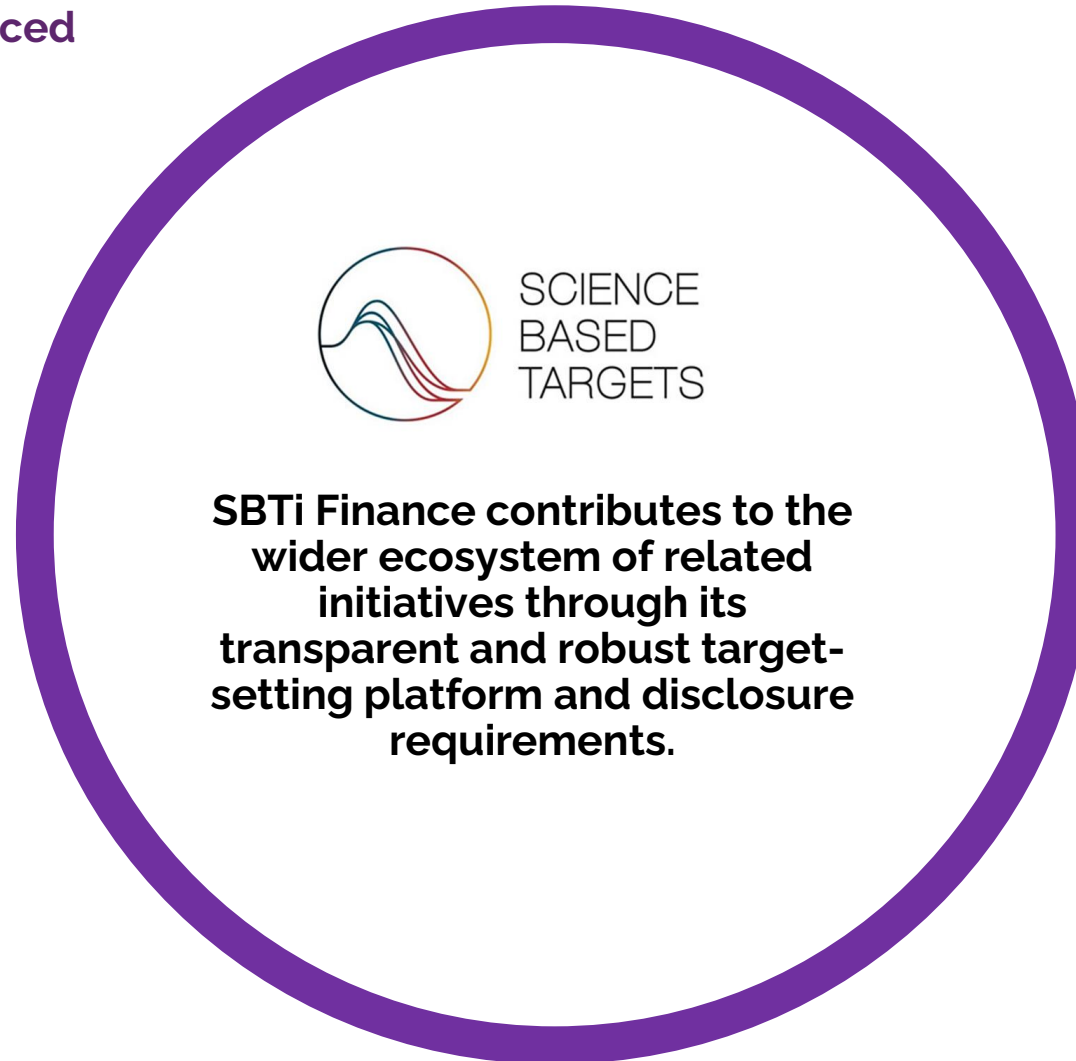
Target setting methods



Fossil fuel financing



Carbon credits



Harmonizes with peer initiatives to create consistent science-based approaches to net-zero for FIs

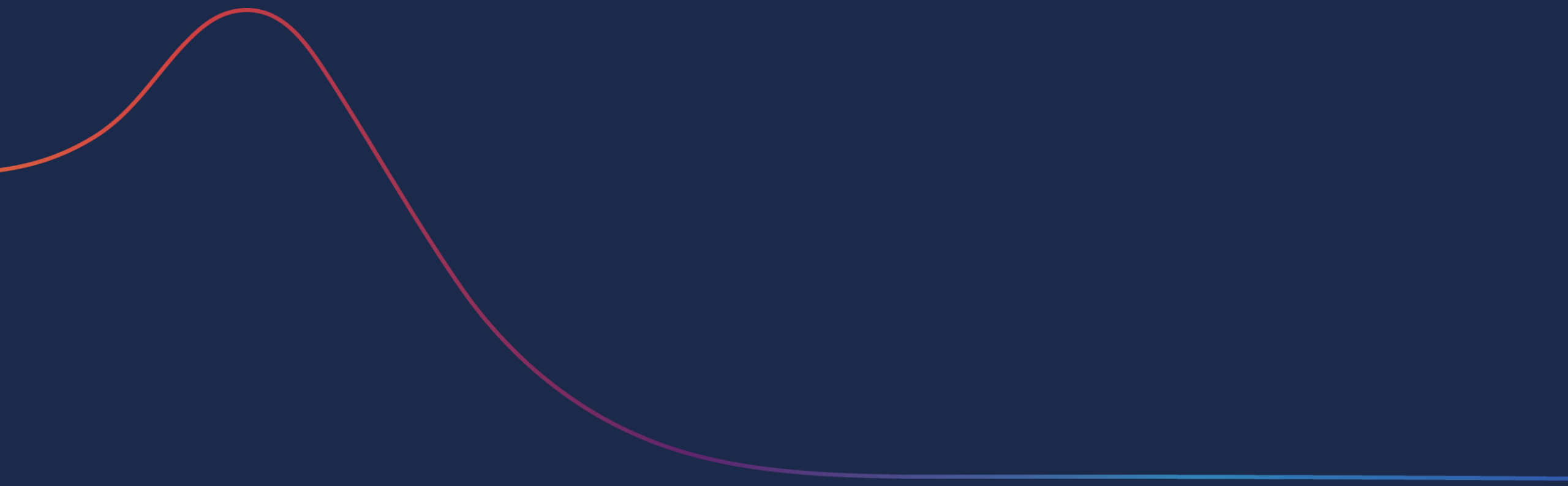


**UN-convened Net-Zero Alliances**

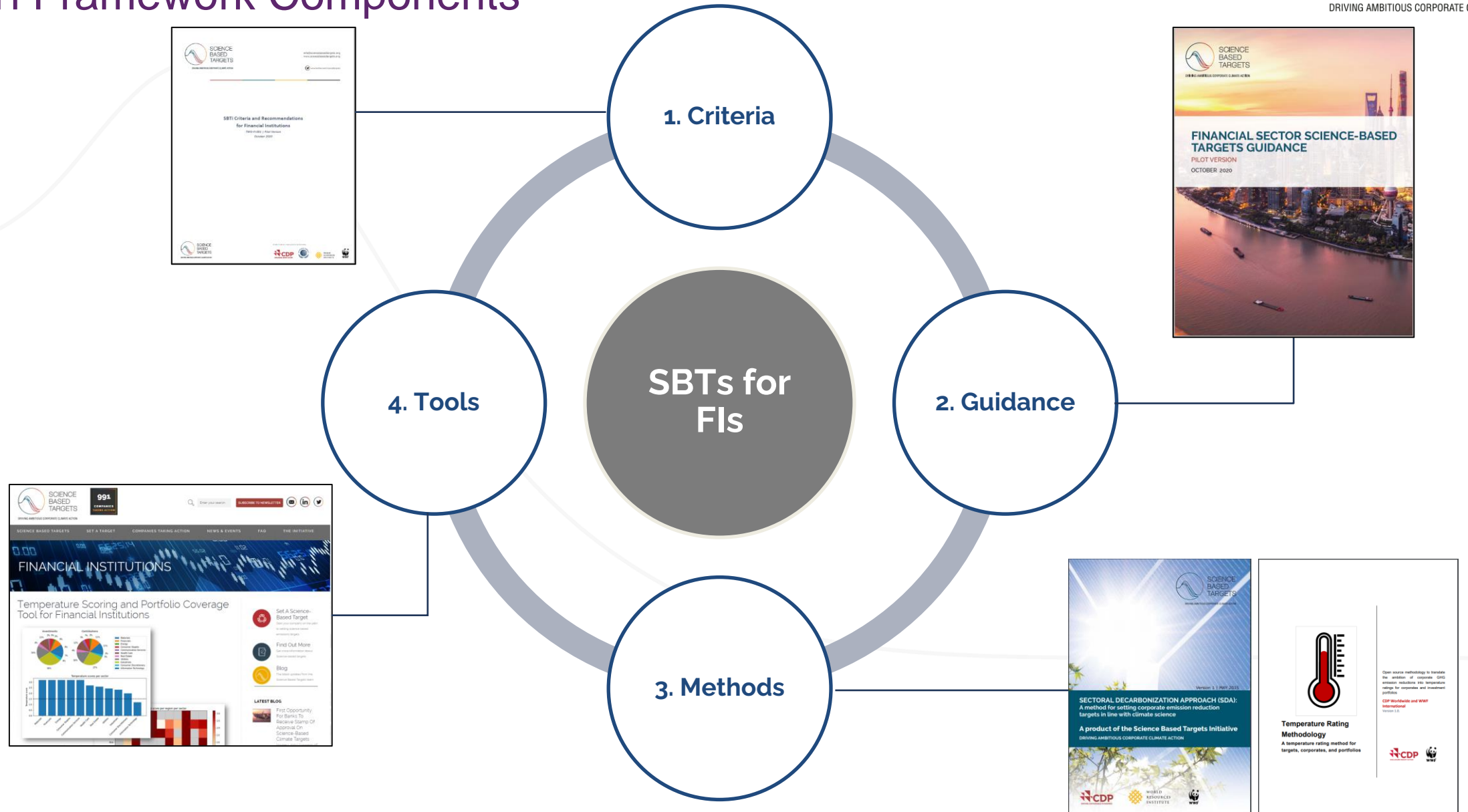
- Net-Zero Asset Owners Alliance
- Net-Zero Banking Alliance
- Net Zero Asset Managers Initiative
- Net-Zero Insurance Alliance



# SBTi FI Step by Step



# SBTi Framework Components



# Audience

- ▼ The SBTi defines a financial institution as a company whose business involves the arrangement and execution of financial and monetary transactions, including deposits, loans, investments, and currency exchange.
- ▼ More specifically, the SBTi deems a company a financial institution if **5 percent or more of its revenue or assets** comes from the activities described above.

## Primary Audience

- ▼ Banks,
- ▼ Asset managers
- ▼ Asset owners
- ▼ Mortgage real estate investment trusts (REITs).

## Secondary Audience

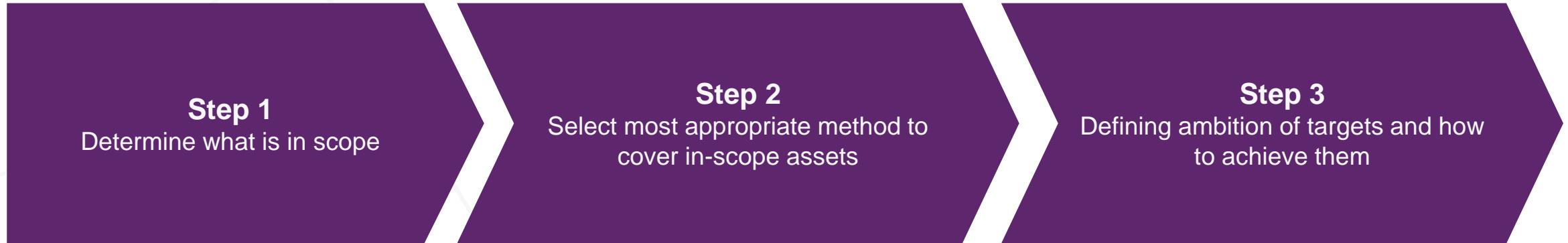
Other financial institutions (e.g. motor financing) with following asset class holdings:

- ▼ Real Estate
- ▼ Mortgages
- ▼ Elec project finance
- ▼ Corporate and consumer loans, bonds, and equity

## Not Included in pilot phase

- ▼ Development banks
- ▼ Sovereign wealth
- ▼ Insurance/under writing
- ▼ Private Equity

# SBTs: A 3-step process



Asset class approach, only cover in-scope assets, where target setting methods are available



Methods are used to increase Paris-alignment of portfolio constituents over time to ensure real-world emission reductions

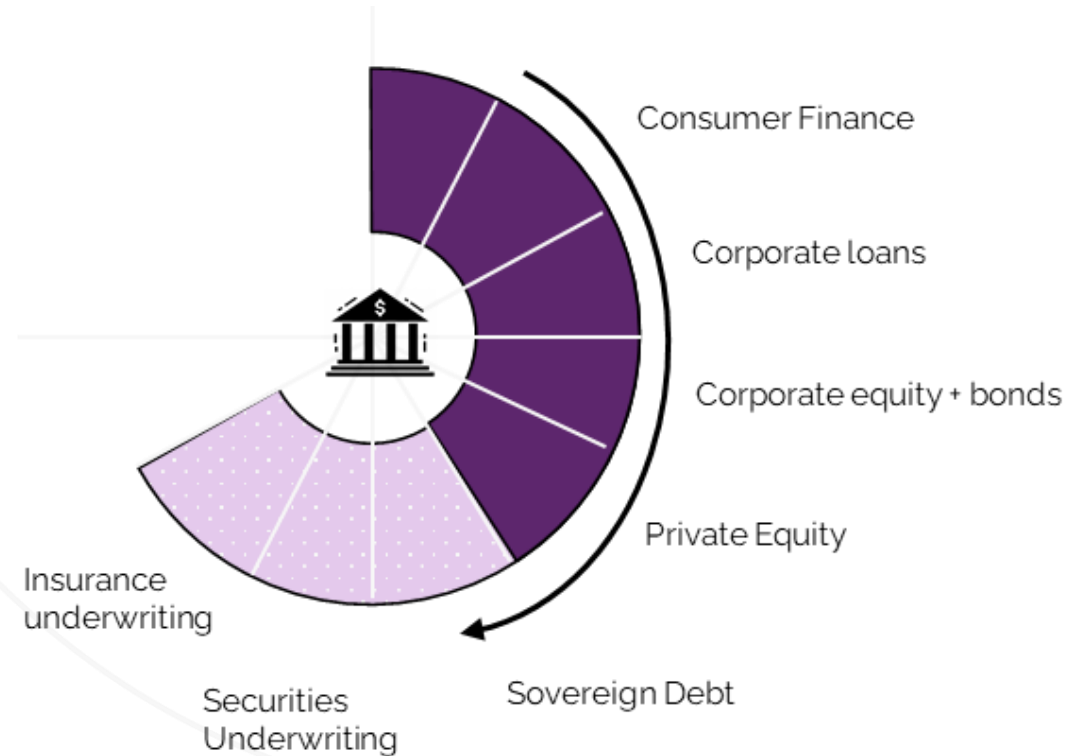


Ambition defined as all portfolio companies achieving well-below 2C alignment

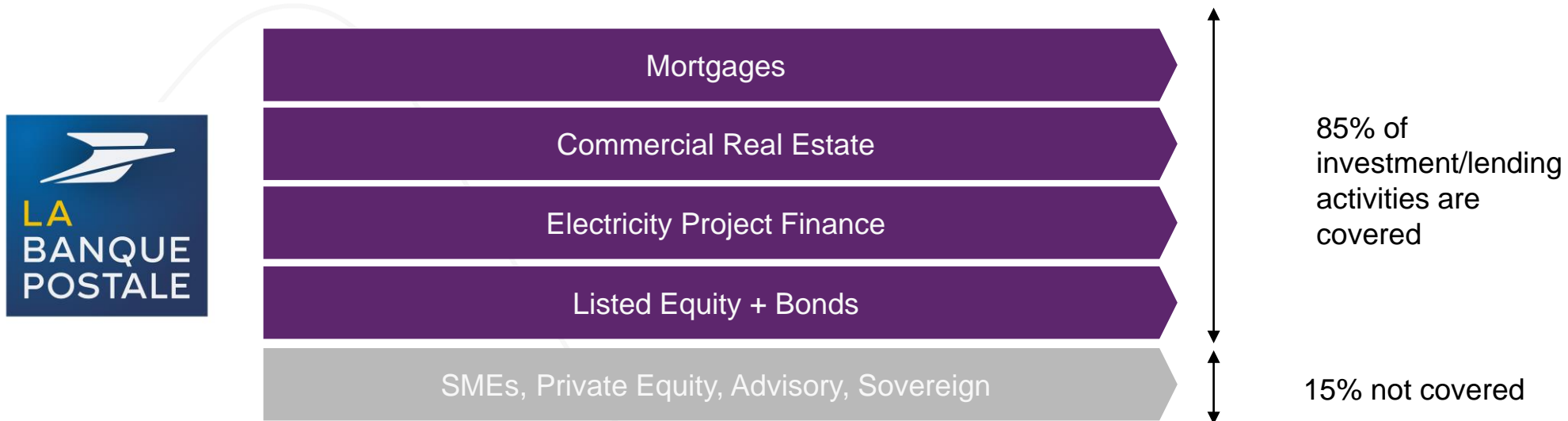


## Step 1. Determining the Target Boundary

- Use an asset class, not a portfolio wide boundary approach
- Within each relevant asset class, there are mandatory and optional categories, and follows a principle of influence
- The SBTi will be expanding its coverage of asset classes over time as methods are developed e.g. sovereign debt methods to be released in mid-2022



# Step 1. Determining the Target Boundary



## Example Targets

**LBP:** *“Achieve SBTs in Real Estate, Mortgages, Electricity Generation Project Finance and Corporate Instruments by 2030 from a 2020 base year. La Banque Postale’s portfolio targets cover 85% of total investment and lending activities as of 2020.”*

**KB Financial Group:** *“KB Financial Group’s portfolio targets cover 13% of its total investment and lending activities by total exposure\* as of December 31st, 2019.”*

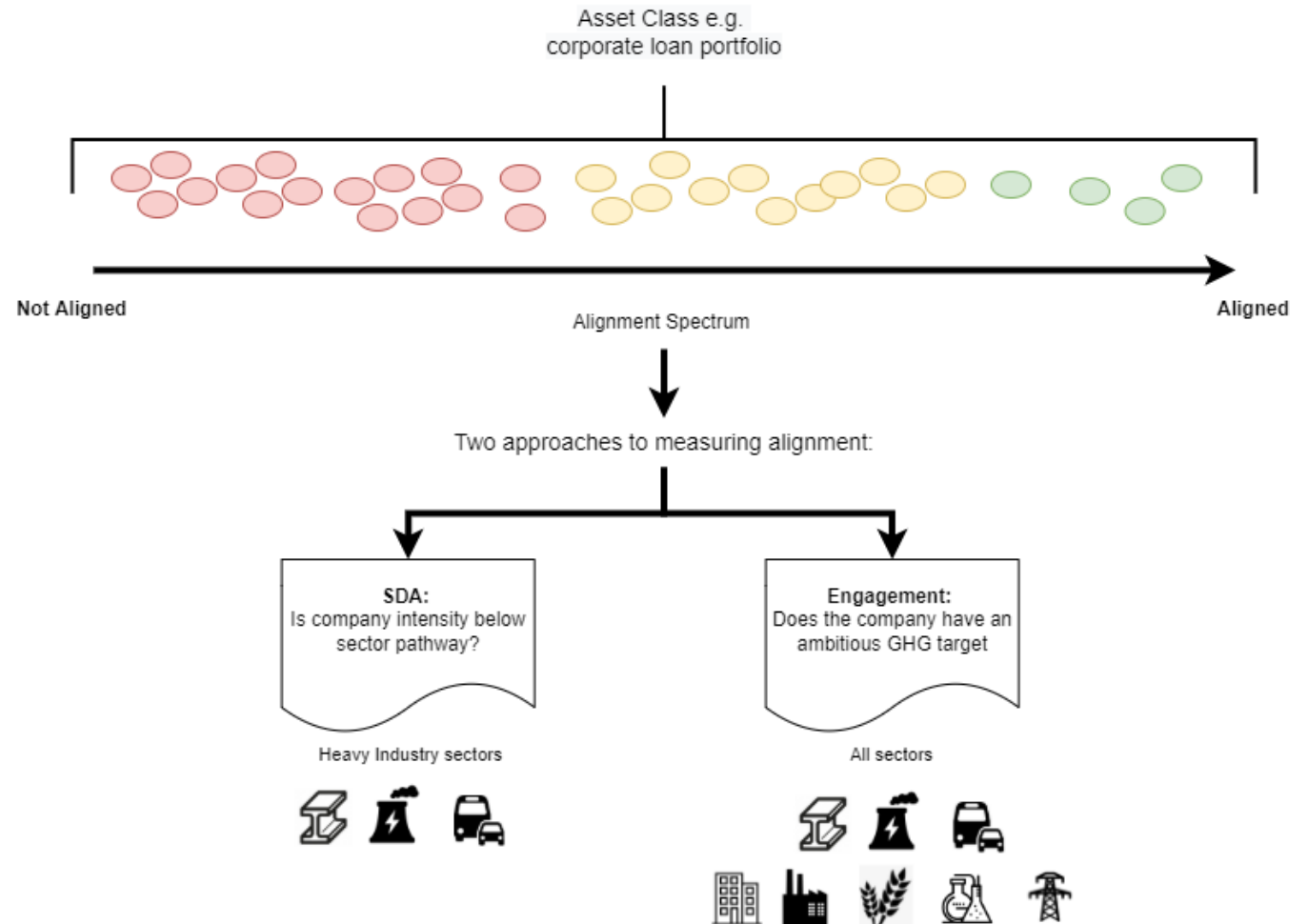
\*sum of loans, equity, bonds, beneficiary certificates, and other securities managed by KB Financial Group



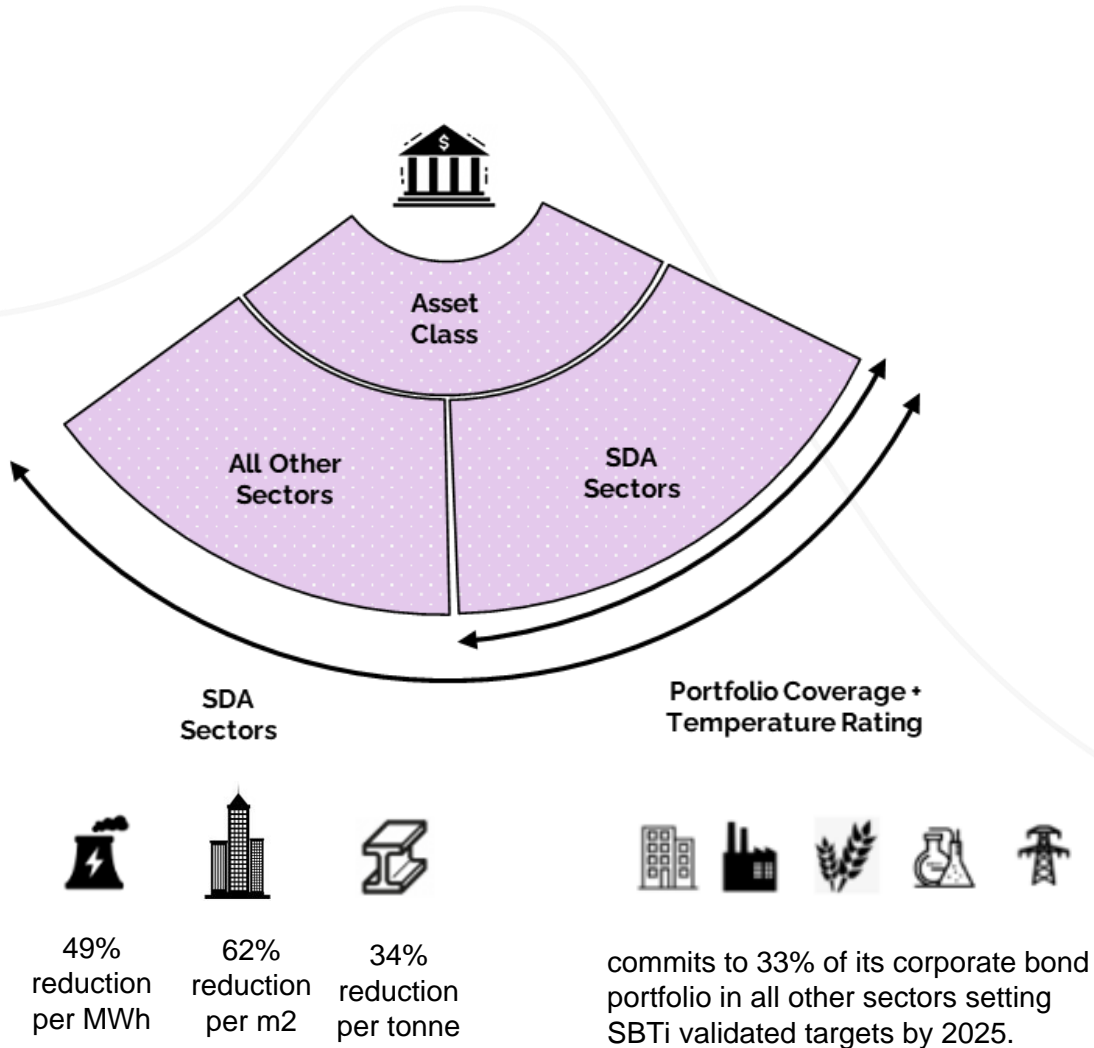
## Step 2. Selecting Target Setting Methods

### SBTi methods: A Paris Alignment Approach

- SBTi does not allow portfolio wide financing emissions targets (in absolute/intensity terms) e.g. 50% absolute or intensity reduction for financed emissions
- Goal of SBT methods are to increase alignment of portfolio constituents either through reducing intensity or ensuring target setting (and future tracking of performance against targets)



# Step 2. Selecting Target Setting Methods



## 1. Portfolio Coverage

*“Bank A commits to 35% of listed equity and bonds portfolios setting SBTi validated targets by 2025”*

## 2. Temperature Rating

*“Asset Management firm B commits to align its scope 1 + 2 portfolio temperature score by invested value within common stock, preferred stock, corporate bonds, ETFs and REITs from 3°C in 2019 to 2.2°C by 2025.”*

## 3. SDA

*KBFG commits to reduce GHG emissions from the Power sectors within its corporate instruments (equity, bonds, loans) portfolio, 49.3% per MWh produced*

## Step 2. Selecting Target Setting Methods



KB Financial Group

Commercial Real Estate	Corporate loans				
All real estate lending	Pulp + Paper	Power	Iron + Steel	Aluminium	All other sectors
SDA	SDA	SDA	SDA	SDA	Temperature
2019 – 2030	2019 – 2030	2019 – 2030	2019 – 2030	2019 – 2030	2019 – 2025
59% reduction per m2 by	42% reduction per tonne of paper	49% reduction per MWh	42% reduction per tonne of steel	31% reduction per tonne of aluminium	Reduce portfolio temperature from 3.1C to 2.75C

## Step 3. Defining Target Ambition

### Data input varies across the methods

- SDA requires detailed GHG and activity data
- Temperature rating requires GHG target and emissions data
- Portfolio coverage requires only a binary check on SBT status of portfolio companies

Order	Company name	SBTi Status	S1+2+3 Temperature rating (°C)	Owned GHGs (tonnes CO2e)	Weighted contribution to temperature rating
1	Company A	Not committed	2.7	61,890	11.6%
2	Company B	Not committed	2.3	30,751	6.8%
3	Company C	Not committed	3.2	27,402	6.1%
4	Company D	Not committed	3.2	25,720	5.7%
5	Company E	Committed	3.2	19,983	4.4%
6	Company F	Not committed	3.9	15,348	4.2%
7	Company G	Not committed	3.2	16,419	3.7%
8	Company H	Committed	2.4	19,705	3.3%
9	Company I	Committed	2.5	15,703	2.7%
10	Company J	Not committed	3.2	11,426	2.5%
11	Company K	Approved	1.7	10,950	2.4%
12	Company L	Not committed	3.2	10,711	2.4%
13	Company M	Not committed	4.1	8,103	2.3%
14	Company N	Not committed	3.2	10,113	2.3%
15	Company O	Not committed	1.9	12,403	1.8%
16	Company P	Not committed	2.4	8,079	1.4%
17	Company Q	Not committed	3.2	6,132	1.4%
18	Company R	Approved	1.7	5,708	1.3%
19	Company S	Not committed	3.2	5,615	1.2%
20	Company T	Not committed	3.2	5,420	1.2%

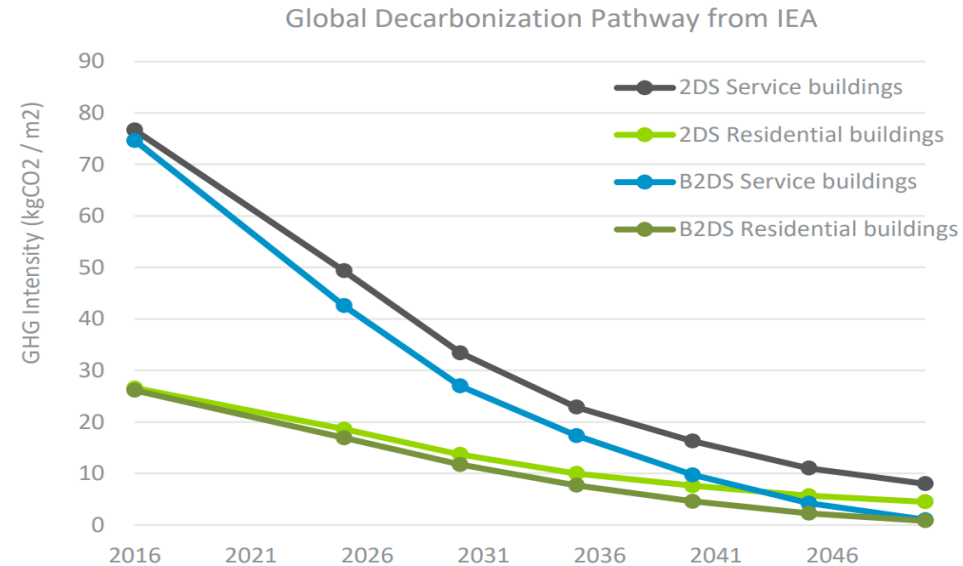
## Step 3. Target Ambition SDA

A financial institution can align its real estate and mortgage portfolios with the Paris Agreement and set an emissions reduction target using the Sectoral Decarbonization Approach (SDA):

Emissions intensity (kgCO<sub>2</sub>e/m<sup>2</sup>) of real estate and mortgage portfolios of financial Institution:

$$\frac{\sum \text{tonnes GHG from real estate}}{\sum \text{m}^2 \text{ of real estate}}$$

**Potential target output:** Financial institution A commits to reduce its mortgage/real estate portfolio GHG emissions \_\_\_% per m<sup>2</sup> by 2030 from a 2019 base year.



Source: IEA ETP 2017

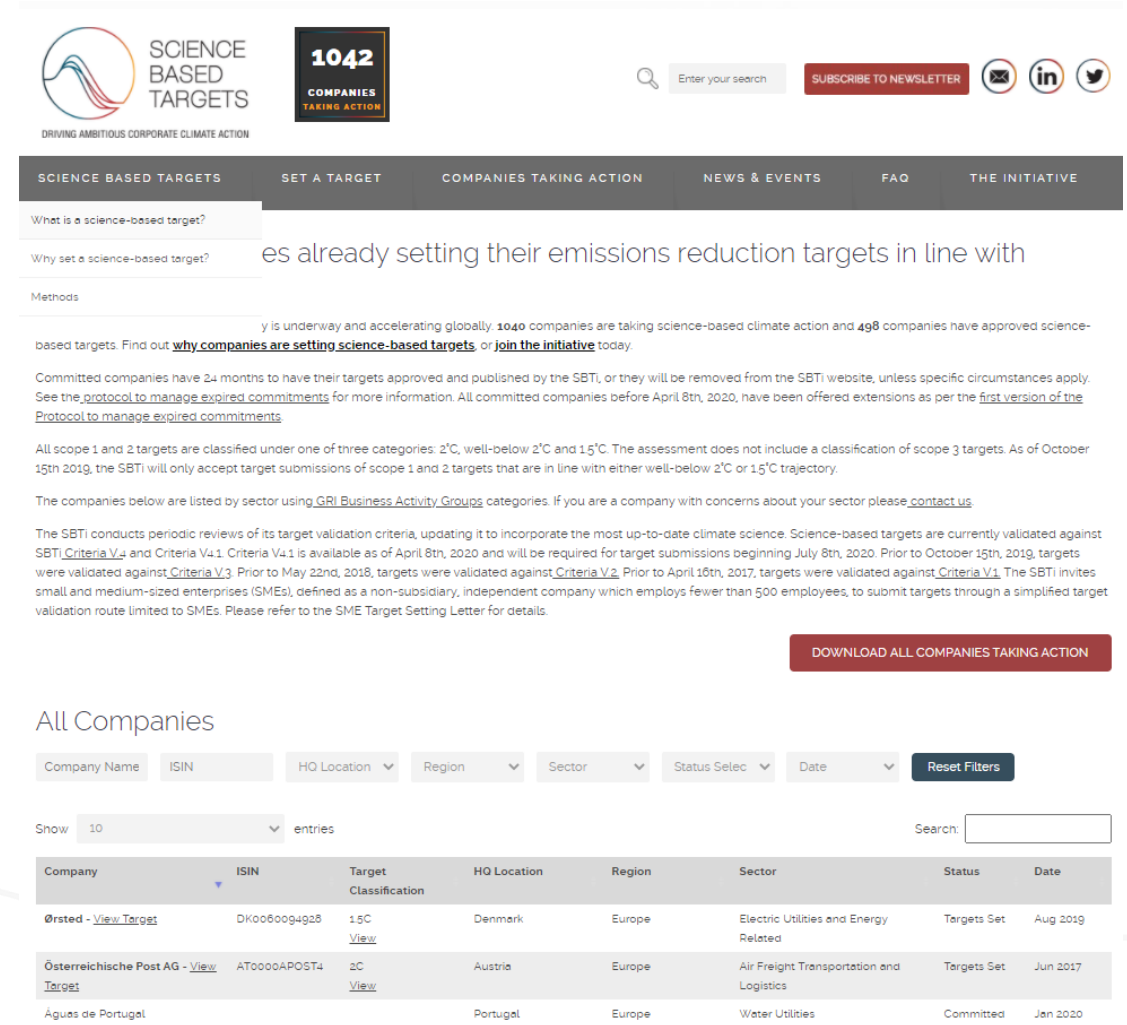
## Step 3. Target Ambition Portfolio Coverage + Temperature

**Target Level of Ambition:** Financial institutions shall commit to having a portion of their borrowers or investees set their own approved science-based targets such that the financial institution is on a linear path to 100 percent portfolio coverage by 2040 (using a weighting approach in the SBT Finance Tool).

For example, a financial institution starting with 10 percent coverage in 2020 would need to increase coverage by 4.5 percent per year:  
 $(90 / (2040 - 2020) = 4.5)$

and reach at least 32.5 percent:  
 $(10 + [5 \times 4.5] = 32.5)$   
 coverage by 2025.

**Potential target output:** Investment firm A commits that 30% of its equity portfolio by market capitalization will have science-based targets by 2024.



The screenshot shows the Science Based Targets website interface. At the top, it features the logo and a prominent badge stating "1042 COMPANIES TAKING ACTION". Below the navigation bar, there are several informational sections: "What is a science-based target?", "Why set a science-based target?", and "Methods". A key statistic is highlighted: "es already setting their emissions reduction targets in line with". Further down, it notes that "y is underway and accelerating globally. 1040 companies are taking science-based climate action and 498 companies have approved science-based targets." A "DOWNLOAD ALL COMPANIES TAKING ACTION" button is visible. The "All Companies" section includes a filter bar with dropdowns for Company Name, ISIN, HQ Location, Region, Sector, Status, and Date, along with a "Reset Filters" button. Below the filters, a table displays a list of companies with their respective ISIN, target classification, HQ location, region, sector, status, and date.

Company	ISIN	Target Classification	HQ Location	Region	Sector	Status	Date
Ørsted - <a href="#">View Target</a>	DK0060094928	1.5C <a href="#">View</a>	Denmark	Europe	Electric Utilities and Energy Related	Targets Set	Aug 2019
Österreichische Post AG - <a href="#">View Target</a>	AT0000APOST4	2C <a href="#">View</a>	Austria	Europe	Air Freight Transportation and Logistics	Targets Set	Jun 2017
Águas de Portugal			Portugal	Europe	Water Utilities	Committed	Jan 2020

# THANK YOU FOR LISTENING

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 [info@sciencebasedtargets.org](mailto:info@sciencebasedtargets.org)

## Q&A