## **SBTi Finance Tool**

User Workshop
13 October 2020

SCIENCE BASED TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

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PARTNER ORGANIZATIONS







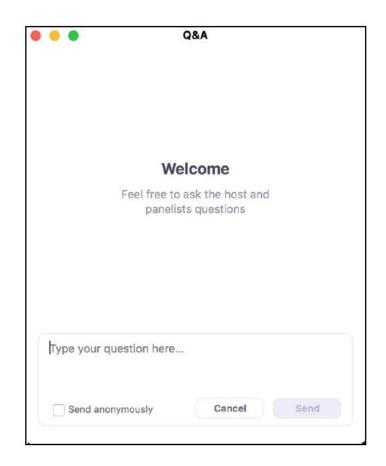


IN COLLABORATION WITH



## **House keeping**

- Ask questions using Q&A box
- Webinar is being recorded Link to recording emailed tomorrow
- Slides emailed tomorrow





## Agenda

- Introduction (5 min)
- SBTi Finance Framework (5 min)
- SBTi Finance Tool (10 min)
- Analysis & Engagement Strategy (10 min)
- Method (10 min)
- Next steps (2 min)
- Q&A (18 min)

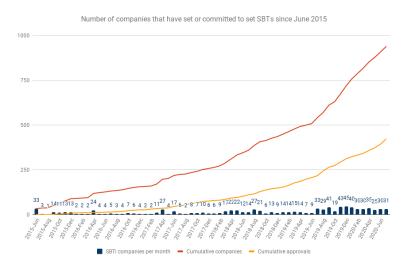


## **Science Based Target initiative (SBTi)**

## **All Companies**

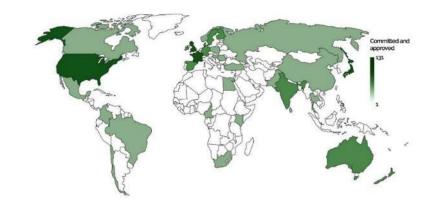
1,010 Committed ~36
join per month

485 Approved



## **Financial Institutions**

60 Committed





## SCIENCE-BASED TARGETS FOR FINANCIAL INSTITUTIONS

In 2018, the SBTi launched a project to help financial institutions align their lending and investment portfolios with the ambition of the Paris Agreement.

The primary audience includes commercial banks, asset managers, asset owners, and mortgage real estate investment trusts (REITs).

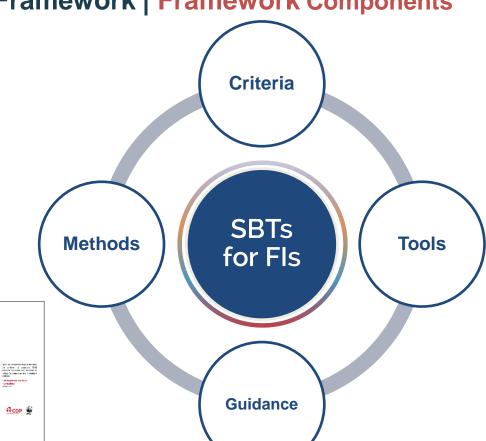




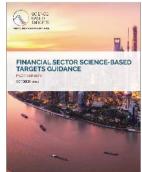
## **SBTi Finance Framework | Framework Components**



Methodology







## **SBTi Finance Framework | 3 Methods for Finance Sector Targets**

For the first phase of this project, the SBTi supports three methods for financial institutions. The SBTi developed criteria specific to these three methods.



SBT Portfolio Coverage Approach Temperature Rating Approach

## SBTi Finance Framework | Method & Asset Class Coverage Links

Asset Class	Method	Description
Real Estate	Sector Decarbonization Approach (SDA)	Emissions-based physical intensity targets are set for non-residential buildings' intensity and total GHG emissions.
Mortgages	SDA	Emissions-based physical intensity targets are set for residential buildings' intensity and total GHG emissions.
Electricity Generation Project Finance	SDA	Emissions-based physical intensity targets are set for electricity generation projects' intensity and total GHG emissions.
	SDA	Emissions-based physical intensity targets are set at sector level within the portfolio for sector where sectoral decarbonization approaches are available.
Corporate Instruments (equity, bonds, loans)	SBT Portfolio Coverage	Financial institutions engage a portion of their investees to have their own science-based targets such that they will reach 100% coverage by 2040.
	Temperature Rating	This approach enables financial institutions to determine the current temperature rating of their portfolio and take actions to align their portfolios to ambitious long-term temperature goals by engaging with portfolio companies to set ambitious targets (e.g., 2.6°C in 2019 and 1.7°C in 2025).

## SBTi Finance Framework | Criteria

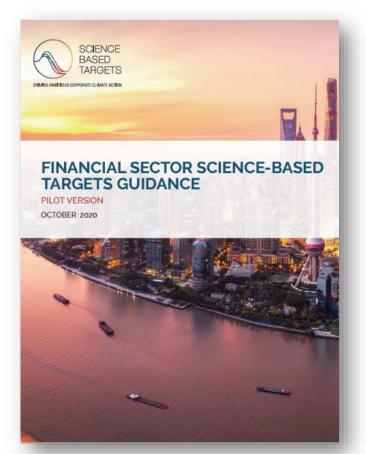
A financial institution's submission to SBTi will consist of scope 1 and 2 targets and scope 3 portfolio targets that meet SBTi criteria. Recommendations on best practices are also provided.

- 1. GHG Emissions Inventory and Target Boundary
- 2. Scope 1 and 2 Target Time Frame
- 3. Scope 1 and 2 Target Ambition
- 4. Scope 2
- 5. Scope 3 Portfolio Target Setting Requirements
- 6. Reporting
- 7. Recalculation and Target Validity

**Sections 5 and 6** of the criteria are designed specifically for financial institutions' target setting, progress-tracking, and action reporting practices for their investment and lending activities.



## SBTi Finance Framework | Guidance



#### 8 Case Studies

Institution	Method
Amundi	Temperature Rating Method
Bank J. Safra Sarasin	SDA for Real Estate
Storebrand	SDA for Real Estate
Eurazeo	SBT Portfolio Coverage
La Banque Postale	SBT Portfolio Coverage & SDA
Mizuho Financial Group	SDA for Electricity Generation Project Finance
De Volksbank	SDA for Mortgages
Wells Fargo & Company	PCAF

## Launching the pilot target validation phase for financial institutions







## **SBTi Finance Tool**

## **SBTi Finance Tool** | Objectives

Methodologies: Temperature Rating & Portfolio Coverage

- Open Source continued development
- Widely Distributed greater impact
- Transparent from corporate ambition through to portfolio temperature score
- Data Agnostic any data provider & own data lake
- Any User Interface service provider & homegrown portfolio management solutions
- Workflow Tool for:
  - Portfolio managers & CIO
  - ESG & Financial analysts
  - Risk management & Compliance

## **SBTi Finance Tool** | Development Team

- Science Based Target initiative (SBTi)
  - WWF (project manager)
  - CDP
  - World Resources Institute
- Developers
  - Ortec Finance
  - **OS-Climate**
- Data & Service Providers
  - Bloomberg
  - CDP
  - **ISS ESG**
  - **MSCI**
  - Trucost
  - Urgentem
- Users
  - Net-Zero Asset Owner Alliance









## Bloomberg







Trucost **ESG Analysis** 







**WWF** 

#### **SBTi Finance Tool | Structure**

#### Input

- •Bloomberg, CDP, ISS ESG, MSCI, Trucost Urgentem, data lake...
- •Company SBT & Publicly Announced emissions reduction targets
- Ambition
- •Timeframe
- Scope
- Coverage
- •Absolute & Intensity targets

## Measure Alignment & Target Setting Tool

- •Open Source Methodology & Python Code
- •Convert company targets → Temperature Score
- •Aggregate to portfolio, sector, market, ...
- •Measure alignment with Paris Agreement
- •Set portfolio emissions reduction target
- •Target companies for action
- •Engage / Divest / Portfolio shifting

#### Output

- •Integrate tool w existing infrastructure, e.g.
- •Bloomberg, CDP, ISS ESG, MSCI, Trucost, Urgentem, Asset Managers...
- •Users:
- •ESG teams
- •Portfolio Manager
- •Financial Analysts
- •Compliance & Risk
- •CIO
- •Submit target to SBTi
- •EU Disclosure Regulation Paris Alignment



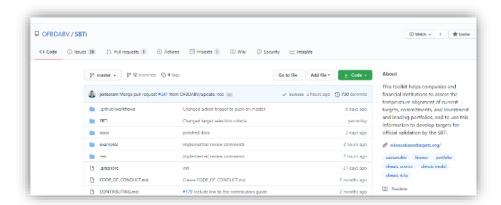
#### **SBTi Finance Tool**

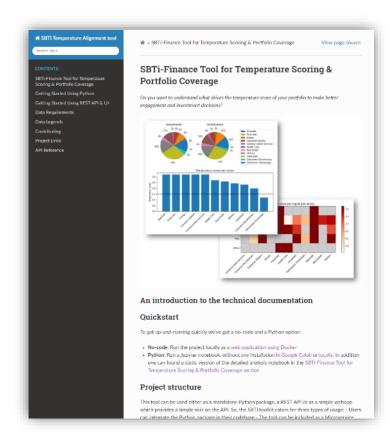
#### **Objective – Integrate into:**

- Commercial platforms
- Asset managers' in-house solutions
- Via Python or API

#### Learn & Test the Tool

- Interactive Jupyter Notebook <u>Analysis Workflow Example</u>
- Tool website: <a href="https://sciencebasedtargets.org/finance-tool/">https://sciencebasedtargets.org/finance-tool/</a>
- Technical Documentation <a href="http://getting-started.sbti-tool.org/">http://getting-started.sbti-tool.org/</a>
- GitHub Repository for Code <a href="http://www.sbti-tool.org/">http://www.sbti-tool.org/</a>





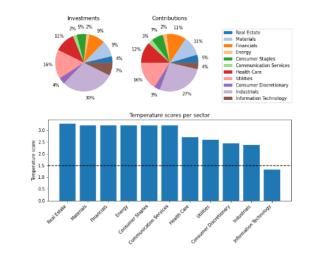
## **SBTi Finance Tool** | What Can We Use It For?

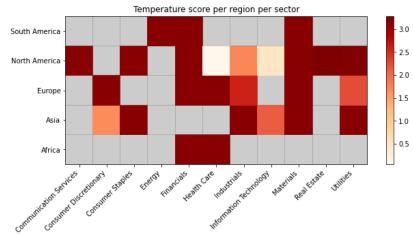
#### Portfolio manager / analyst analyzing:

- companies, sectors, countries, investment strategies and portfolios to
- understand how they contribute to climate change.

#### You can for example:

- Measure a portfolio's temperature score
- Identify biggest contributors e.g. company, country and sector basis
- Strategic allocation and securities selection
- Analyze effects of changes in a portfolio
- Model impact of engagement on temperature score
- Plan engagement strategies based on your modelling
- Help you create an action plan for reaching your emission reduction target

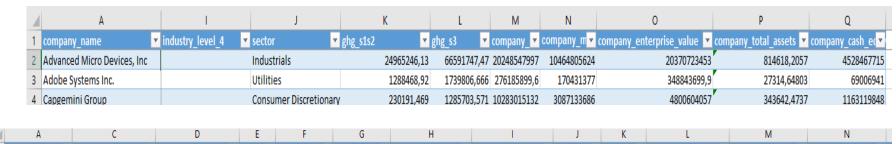




## **SBTi Finance Tool** | What data do we need?

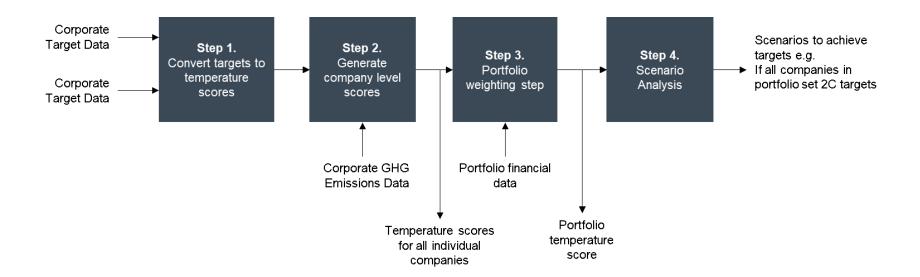
- Portfolio holdings
- Financials + Emissions
- Emissions Reduction Targets
- +4,000 publicly disclosed targets
- +480 SBTi approved target





	A	C	U	E	ŀ	G	Н			J	K	L	M	N
1	company_name 💌	target_type	intensity_metric 🔻	scope 💌	coverage_s1 💌	coverage_s2 💌	coverage_s3	▼ reduct	tion_ambition 🔻 ba	ase_year 💌 e	end_year 💌	start_year 🔻	base_year_ghg_s1 🔻	base_year_ghg_s2 🔽 b
2	Advanced Micro De	Absolute		S1+S2	1	1			0,3	2018	2025	2020	11000	1200
3	Adobe Systems Inc	Intensity	Revenue	S2		1			0,4	2015	2030	2019	1558	13333
4	Capgemini Group	Intensity	Revenue	S3			0,	,6	0,15	2018	2050	2018	1209218,586	2110267,414
5	Cisco Systems, Inc.	Intensity	Revenue	S1+S2+S3	0,95	0,95	0,	,5	0,91	2018	2035	2020	184098,8183	80204,18168
6	Coca-Cola HBC AG	Intensity	Revenue	S1+S2+S3	1	1	0,	,7	0,93	2015	2025	2016	27727,46028	236575,5397
-	eve u til			04.00					0.75	2045	2025	2045		

## **SBTi Finance Tool** | Analysis Process



## **SBTi Finance Tool** | Temperature Score Calculation

- 1) Convert individual targets → Target Temperature Scores
- Target validation protocol minimum quality criteria
- Regression models of estimated warming in 2100 from IPCC scenarios
- 2) Aggregate targets to company level scores
- Default score for no valid targets
- Weighted based on reported emissions
- → Company Temperature Scores

	Short-term 2021-2024	Mid-term 2025-2035	Long-term 2035-2050
Scope 1+2	Temp score	Temp score	Temp score
Scope 3	Temp score	Temp score	Temp score

- 3) Aggregate to portfolio, sector, market level Temperature Scores
- 7 aggregation methods: Weighted average TS, Total emissions weighted TS, market owned emissions weighted TS, total assets emissions weighted TS...
- Portfolio TS per scope & per time frame
- Portfolio coverage: companies that have SBTi-approved targets
- 4) What-if analysis
- 6 engagement scenarios model effect on TS of companies setting targets
- → Design engagement strategy

## **SBTi Finance Tool** | Analysis Example

#### Company Temp Score

	Short-term 2021-2024	Mid-term 2025-2035	Long-term 2035-2050
Scope 1+2	Temp score	Temp score	Temp score
Scope 3	Temp score	Temp score	Temp score

#### Portfolio Temp Score (50 company portfolio with randomized data)

temperature\_score.aggregation\_method = PortfolioAggregationMethod.WATS aggregated\_portfolio = temperature\_score.aggregate\_scores(amended\_portfolio) print\_aggregations(aggregated\_portfolio)

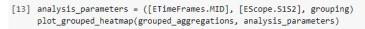
Timeframe Scope Temp score mid S1S2 2.63 mid S1S2S3 2.88

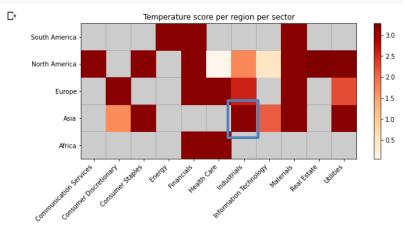
#### Portfolio Coverage

- portfolio\_coverage\_tvp = PortfolioCoverageTVP()
  coverage = portfolio\_coverage\_tvp.get\_portfolio\_coverage(amended\_portfolio.copy(), temperature\_score.aggregation\_method)
  print("Part of portfolio with climate targets is {c:.2f}%".format(c=coverage))
- Part of portfolio with climate targets is 35.45%

## Where are my hot spots?

#### Heat map

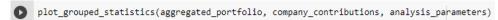


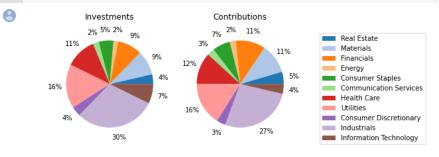


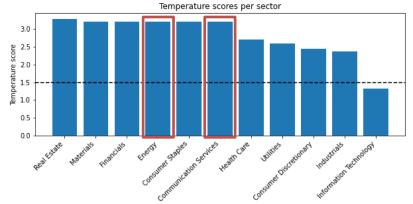
#### Focus on

- Asian Industrials
- Consumer staples
- Communication services
- Energy

#### Sector analysis







## Which companies should I engage with?

#### Analyze temperature score contribution & ownership % of companies in my portfolio

compa	any_contributi	ons[['company_r	name', 'company	_id', 'contribution	n', 'temperature_score	', 'ownership_percentag
	company_name	company_id	contribution	temperature_score	ownership_percentage	portfolio_percentage
0	Company N	FR000000014	9.52	3.20	0.19	7.82
1	Company AG	US0079031078	3.29	1.36	0.33	6.36
2	Company Q	CA000000017	2.66	3.20	4.81	2.18
3	Company AO	TW0002308004	2.65	3.83	0.01	1.82
4	Company AM	FR0000120644	2.34	3.38	12.25	1.82
5	Company U	US0000000021	2.32	3.36	0.54	1.82
6	Company AH	US00724F1012	2.29	3.31	5.87	1.82
30	Company C	IT000000003	2.21	3.20	0.34	1.82
25	Company AF	ID000000032	2.21	3.20	0.97	1.82
26	Company G	CN0000000007	2.21	3.20	0.05	1.82

## **SBTi Finance Tool** | What-if Scenarios

1: Engage companies to set **2°C targets**. This means that the score of all companies that didn't yet set a target will be set to 2°C.

2: Engage companies to set **well below 2°C targets**. The maximum score for all companies that have set targets will be capped at 1.75°C.

3a: Engage the **top 10** contributors to set **2 °C targets**.

3b: Engage the **top 10** contributors to have set **well below 2°C targets**. This means that the maximum score for all the targets of these companies will be capped at 1.75°C.

4a: Engage the **selected** companies to set **2°C targets**.

4b: Engage the **selected** companies to set **well below 2°C targets**. This means that the maximum score for all the targets of these companies will be capped at 1.75°C.

Put Company Q & Company AM into our engagement scenario 4a: "Engage to encourage companies to set 2°C targets".

## What is the impact on my portfolio TS?

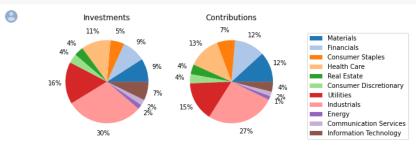
#### Modelling 2 companies in a 50-company portfolio

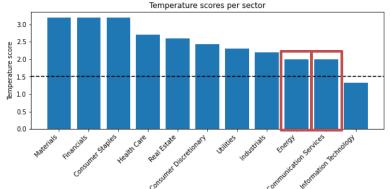
```
[20] scenario portfolio = portfolio.copv()
     scenario portfolio.loc[scenario portfolio['company id'] == 'CA0000000017', 'engagement target'] = True
     scenario portfolio.loc[scenario portfolio['company id'] == 'FR0000120644', 'engagement target'] = True
     scenario companies = [SBTi.interfaces.PortfolioCompany.parse obj(company) for company in scenario portfolio.to dict(orient="records")]
     scenario data = SBTi.utils.get data([provider], scenario companies)
     temperature score.scenario = scenario
     scenario_companies = SBTi.utils.dataframe_to_portfolio(scenario_portfolio)
     scenario scores = temperature score.calculate(data providers=[provider], portfolio=scenario companies)
     scenario aggregated = temperature score.aggregate scores(scenario scores)
     print scenario gain(aggregated portfolio, scenario aggregated)
    Actual portfolio temperature score
     Timeframe
               Scope
                           Temp score
     mid
                S1S2
                           2.63
    Scenario portfolio temperature score
     Timeframe
               Scope
                          Temp score
    mid
                S152
                           2.46
```

## What is the impact on a sector level?

What is the likelihood that I can reach a certain target with my engagement strategy?

[23] scenario\_contributions = collect\_company\_contributions(scenario\_aggregated, scenario\_scores, analysis\_parameters) plot\_grouped\_statistics(scenario\_aggregated, scenario\_contributions, analysis\_parameters)





#### **Results:**

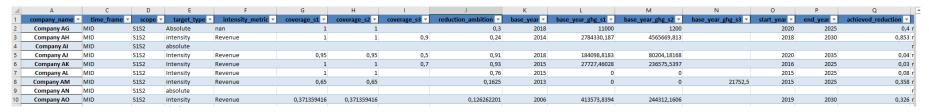
I need a more ambitious engagement strategy to reach a 1.5°C target

#### **Solution:**

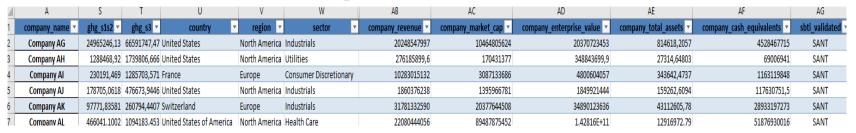
Model other scenarios with different companies and/or focus on a sector or region ...

## **SBTi Finance Tool** | Transparent Output Data

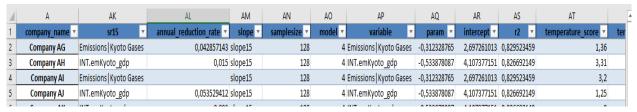
#### Target Data Input



#### Emissions, Fundamental & Financial Inputs



#### **Temperature Scores**



## **SBTi Finance Tool** | Report Card

#### Reporting to SBTi

 Example notebook for reporting and submitting targets to SBTi

(5 reporting.ipynb)

 Anonymized data-export – no need to disclose holdings

#### Calculation settings:

Aggregation method: WATS
Default score: 3.20

Portfolio coverage is 35.45%

#### Portfolio Temperature scores:

Timeframe Scope Temp score mid S1S2 2.63 mid S1S2S3 2.88

#### Percentage of score based on default:

Timeframe Scope % Default score mid S1S2 66.36 mid S1S2S3 78.02

#### Temperature scores per sector:

	Temp score
mid - S1S2	
Communication Services	3.20
Consumer Discretionary	2.44
Consumer Staples	3.20
Energy	3.20
Financials	3.20
Health Care	2.70
Industrials	2.36
Information Technology	1.32
Materials	3.20
Real Estate	3.28
Utilities	2.58
	Temp score
mid - S1S2S3	Temp score
	Temp score
	3.20
Communication Services	3.20
Communication Services Consumer Discretionary	3.20 3.08
Communication Services Consumer Discretionary Consumer Staples	3.20 3.08 3.20
Communication Services Consumer Discretionary Consumer Staples Energy	3.20 3.08 3.20 3.20
Communication Services Consumer Discretionary Consumer Staples Energy Financials	3.20 3.08 3.20 3.20 3.11
Communication Services Consumer Discretionary Consumer Staples Energy Financials Health Care	3.20 3.08 3.20 3.20 3.11 3.05
Communication Services Consumer Discretionary Consumer Staples Energy Financials Health Care Industrials	3.20 3.08 3.20 3.20 3.11 3.05 2.72
Communication Services Consumer Discretionary Consumer Staples Energy Financials Health Care Industrials Information Technology	3.20 3.08 3.20 3.20 3.11 3.05 2.72 2.15

## **SBTi Finance Tool** | **Reporting**

#### Save anonymized data for SBTi target validation

In order for the targets to be validated by SBTi, you can save your data locally. By running the anonymize function, you can replace company identifiers with meaningless substitutes.

```
[12] portfolio, provider = anonymize(portfolio, provider)
```

In order to store the portfolio and provider data locally, two options apply:

- 1. You are running the SBTi tool locally or from Google Colab
- 2. You are running the SBTi tool from a Docker container

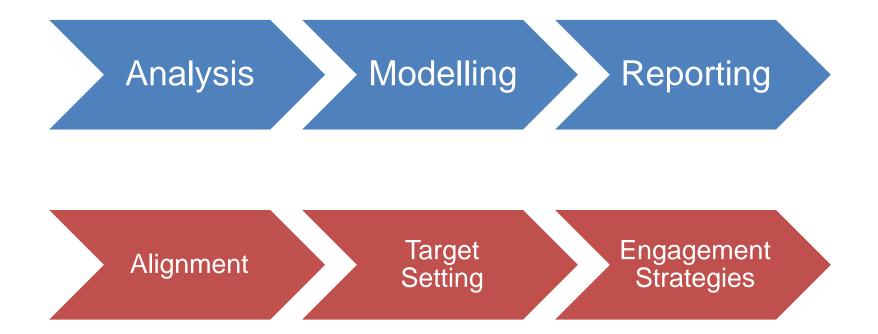
If you run the SBTi tool locally or from Google Colab, you:

- · Specify and filenames in the cell below
- · Run the cell below

```
[13] portfolio_filename = 'portfolio.xlsx'
    provider_filename = 'provider.xlsx'
    portfolio.to_excel(portfolio_filename, index=False)

writer = pd.ExcelWriter(provider_filename, engine='openpyxl')
    provider.data['fundamental_data'].to_excel(writer, sheet_name='fundamental_data')
    provider.data['target_data'].to_excel(writer, sheet_name='target_data')
    writer.save()
```

## **SBTi Finance Tool | Solution**



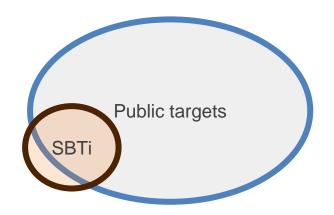


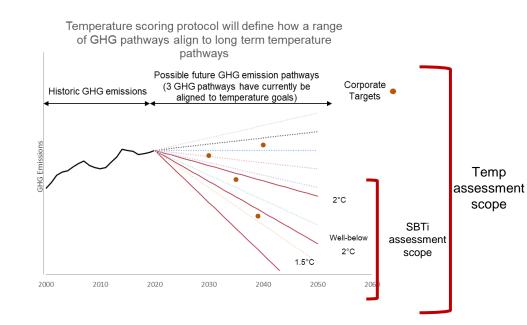


# Overview of Temperature Scoring Methodology

## **Methodology** | Objectives

- The SBTi have determined the GHG pathways that are aligned to three specific temperature pathways: 2°C, well-below 2°C, 1.5°C;
- Temperature scoring will assess and rate corporate ambition against a wider range of temperature outcomes (1.5–4°C) . e.g. Company A's GHG emission reduction target of X% reduction in absolute emissions by 2025 implies their ambition is aligned to a Y°C world.





## **Methodology** | Objectives

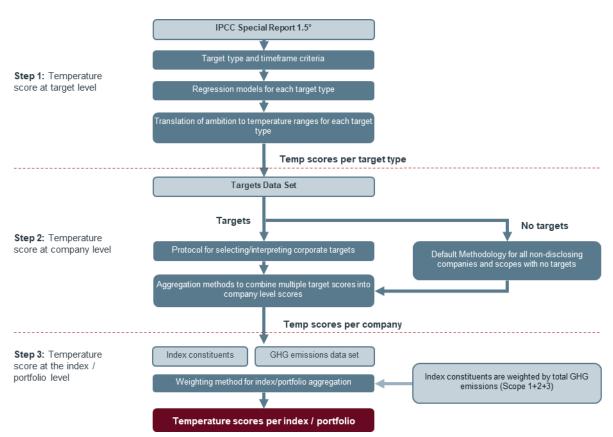
- Assessing the ambition of corporate targets is complex: expressed with different units, over multiple timeframes covering various types of scopes
  - Scope Coverage: scope 1, scope 2, scope 1+2, scope 3, scope 1+2+3
  - Absolute/Intensity targets: many types of activity indicators e.g. per MWh, per revenue, per tonne of product
  - Timeframes: targets can be set anywhere from 2020-2050
- Translate: the goal of a temperature rating is to translate targets into a single common and intuitive metric that is linked to the long-term temperature outcomes associated with the ambition of the target.

Example targets	Translated temperature scores
30% absolute reduction by 2025	1.8°C
4% year-on-year reduction by 2030	1.9°C
50% reduction per unit of revenue by 2030	2.1°C
25% reduction per MWh by 2025	3.1°C

#### **Methodology I Three Step Process**

#### Temperature scoring process

- The protocol for interpreting corporate targets is applied to a cleaned target data.
- Target scores are aggregated to produce company level scores for scopes and timeframes
- Company scores are weighted and aggregated to produce portfolio level scores



#### **Methodology I Step 1 Target Protocol**

Method tests a hypothesis of a linear relationship between the change (slope) in common scenario metrics (e.g., absolute emissions; emissions/GDP) over specific timeframes relevant to corporate target setting horizons (e.g., 2020-2035) and the resulting global warming in 2100

-> Builds on previous work by IPCC and SBTi members

Regression models were developed for each unique combination of:

- key scenario variables/benchmarks; 6
- unique scenario subset (filtering by peak year, max CDR); 56
- key time horizons relevant to corporate targets, (5 to 30 years); 6
- => 56 x 6 x 6 unique regression models

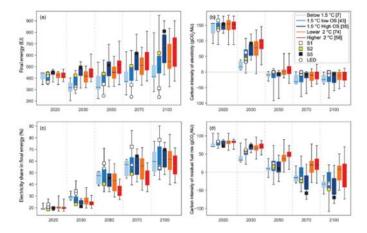
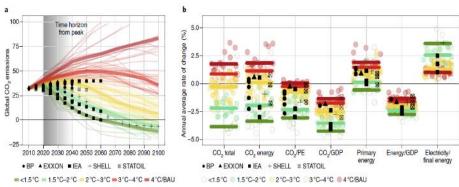


Figure: Scenario variables in different timeframes by temperature outcome.

**Source**: IPCC SR1.5, Chapter 2



**Figure**: Range of slopes for common scenario variables/benchmarks.

Source: Weber et al. (2018) *Nature Climate Change*.

#### **Methodology I Step 1 Target Protocol**

Final scenario set and time horizon chosen by combination of:

- goodness of fit (adj R<sup>2</sup>)
- alignment to SBTi's precautionary view of overshoot/CDR (max 10 Gt/yr)

#### Results:

- total 133 scenarios from SR1.5 ensemble
- Adj. R2 ranges from
  - 0.71-0.85 over 15 years
  - 0.84-0.93 over 30 years

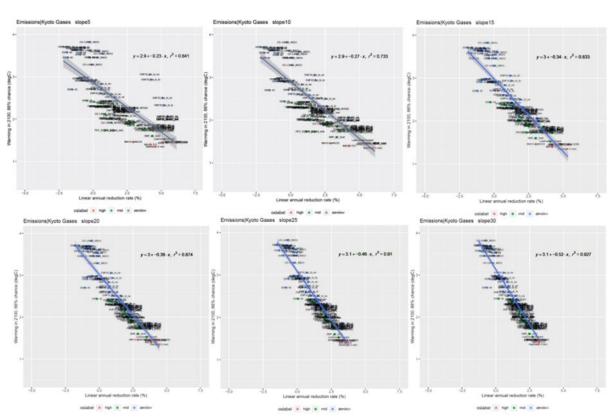


Figure: Regression results for chosen scenario set, 5-30 years, for global GHGs

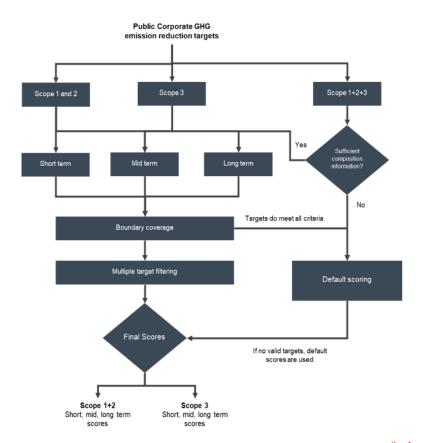
#### Methodology I Step 2 Company Protocol

#### Step by Step guide

- Identify valid target types
- Classify companies by scope
- Classify companies by timeframe
- Apply boundary coverage criteria
- Multiple target filtering

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- Select target with highest boundary coverage
- Select later target years
- Absolute targets prioritised



### **Methodology I** Step 2 Company Protocol

Outputs at a company level: produce one temperature score for each scope and applicable timeframe.

	Short-term	Mid-term	Long-term
	2021-2024	2025-2035	2035-2050
Scope 1+2	No target/	Yes	Yes
GHG: 450,000t	default score: 3.2°C	1.8°C	1.9°C
Scope 3	No target/	No target/	No target/
GHG: 2,100,000t	default score:	default score:	default score:
	3.2°C	3.2°C	3.2°C
Scope 1+2+3 GHG: 2,550,000t	No target/ default score: <b>3.2°C</b>	GHG weighting applied to produce a composite score:	GHG weighting applied to produce a composite score:
		(450,000*1.8°C)+(2,100,000*3.2°C)450,000+	(450,000*1.9°C)+(2,100,000*3.2°C)450,000+2
		2,100,000=	100,000=
		2.95°C	2.97°C

#### Methodology I Step 3 Portfolio Protocol

#### 1. Definition of three weighting objectives & six principles, including

Support GHG disclosure by companies, allow portfolio alignment, standardisation of metrics, comparability, applicability, clarity etc.

#### 2. Assessment of four weighting approaches against objectives & principles:

Option 1	Weighted average temperature score (WATS)
Option 2	Total emissions weighted temperature score (TETS)
Option 3	Market Owned emissions weighted temperature score (MOTS)
Option 4	Enterprise Owned emissions weighted temperature score (EOTS)
Option 5	Enterprise Value + Cash Owned emissions weighted temperature score (ECOTS)
Option 6	Total Assets emissions weighted temperature score (AOTS)
Option 7	Revenue Owned emissions weighted temperature score (ROTS)

## **SBTi Finance Tool** | Portfolio Aggregation Options

Aggregation Method	Description	Scope 1+2 temperature rating	Scope 1+2+3 temperature rating
Weighted Average Temperature Score (WATS) – Portfolio weights	The respective weighting is <b>the invested value</b> in a company divided by the total <b>value of the portfolio</b> .	2,39	2,66
Total Emissions Weighted Temperature Score (TETS)	The respective weighting is the <b>company's GHG emissions</b> divided by all investee companies' <b>GHG emissions</b> .	2,60	2,98
Market Owned emissions weighted temperature score (MOTS)	The respective weighting reflects how much the portfolio owns of the company's GHG emissions divided by all GHG emissions owned by the portfolio. The company emissions ownership is calculated as (invested value / market cap) * GHG emissions	2,73	2,84
Enterprise Owned emissions weighted temperature score (EOTS)	The respective weighting reflects how much the portfolio owns of the company's GHG emissions divided by all GHG emissions owned by the portfolio. The company emissions ownership is calculated as (invested value / enterprise value) * GHG emissions	2,71	2,85
Enterprise Value + Cash emissions weighted temperature score (ECOTS)	The respective weighting reflects how much the portfolio owns of the company's GHG emissions divided by all GHG emissions owned by the portfolio. The company emissions ownership is calculated as (invested value / enterprise value + cash) * GHG emissions	2,76	2,87
Total Assets emissions weighted temperature score (AOTS)	The respective weighting reflects how much the portfolio owns of the company's GHG emissions divided by all GHG emissions owned by the portfolio. The company emissions ownership is calculated as (invested value / <b>total assets</b> ) * GHG emissions	2,93	2,84
Revenue owned emissions weighted temperature score (ROTS)	The respective weighting reflects how much the portfolio owns of the company's GHG emissions divided by all GHG emissions owned by the portfolio. The company emissions ownership is calculated as (invested value / <b>revenue</b> ) * GHG emissions	2,81	2,86





# **Next Step**

## **SBTi Finance Tool** | Where do we start?

Company	Solution(s)	
CDP	Provides cleaned input data collected via its annual disclosure system, centered on GHG emissions & target data. CDP can also provide completed temperature ratings for all disclosing companies.	DISCLO
Bloomberg	Has developed a temperature rating/alignment tool with the ability to call in a portfolio directly and link input data seamlessly for calculation of temperature scores at company and portfolio level.	В
ISS ESG	Provides data needed to run the open source tool. The SBTi temperature analysis can be used to complement ISS ESG's scenario alignment, fully automatic on portfolio level & integrated into the ISS ESG climate impact reports. Further tool integration into existing products is being explored.	IS
MSCI	MSCI collects and provides data to institutional investors that could be used as input data for the SBTi's new methodology and tool. MSCI is testing the tool to understand similarities & differences between MSCI's Warming Potential metric and SBTi's new temperature scoring.	M
Ortec Finance, OS-Climate & Linux Fnd	Ortec provides temperature scoring analysis of portfolios & companies as a service for asset managers. OS-Climate Platform-building with Allianz, Amazon, Microsoft, Ortec Finance, and S&P to enhance the tool via open source development w input from SBTi, SASB, & Ceres.	<b>O</b> .
Trucost part of S&P Global	Data from Trucost and S&P Global can be used by the SBTi-Finance tool. Deeper integration is being explored.	Truc
Urgentem	Urgentem will incorporate the python code (branched) as an API on one of its servers and will develop a module within its current platform (Element6) that will have company level temperature scores and portfolio and sector aggregations.	UF
SBTi Finance	Google Colab Interactive analysis workflow example with method summary	



## Bloomberg







Trucost ESG Analysis

S&P Global

URGENTEM



## **SBTi Finance Tool** | Where can we learn more?

Webinar	Date	Time	Agenda	Sign up here
Developer Technical Deep Dive	14 October 2020	9am CEST/ 3pm HKT	<ul><li>Setup, integrate &amp; use the tool</li><li>in your firm's infrastructure</li><li>Create integrated workflow for</li></ul>	Asia / Europe: 9-10am, Europe/Brussels
		& 3pm CEST/ 9am EST	<ul><li>analysts &amp; portfolio managers</li><li>Python library</li><li>Microservice (REST API)</li><li>User interface</li></ul>	Europe / Americas: 9-10am, New York

## SBTi Finance – Q&A

https://sciencebasedtargets.org/finance-tool/ http://www.sbti-tool.org/ http://getting-started.sbti-tool.org/

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# Appendix

## **SBTi Finance Tool** | **Architecture**

