webinar



HOW TO ANTICIPATE CLIMATE-RELATED RISKS WITH DATA

AGENDA

INTRODUCTION

Marie-Anne Vincent, Head of Business Development at Carbon4 Finance

 WHAT ARE THE PHYSICAL AND TRANSITION CLIMATE RELATED RISK AND WHAT LESSONS CAN WE LEARN FROM THE CORONAVIRUS CRISIS FOR THE ANTICIPATION OF CLIMATE CHANGE IMPACTS? Lean Marc Lancovici, Equading partner, Carbona 4.8, Carbona Eingnee

Jean-Marc Jancovici, Founding partner, Carbone 4 & Carbon4 Finance

HOW CAN CARBON AND CLIMATE DATA CAN HELP FINANCIAL ACTORS AVOID AND PREVENT THOSE RISKS?

Jean-Yves Wilmotte, leader of the Finance practice at Carbone 4,

Head of Carbon Impact Analytics Methodology,

Member of the European Technical expert group on sustainable finance (TEG)

Member of the AMF Climate and Sustainable Finance Commission

Marie-Anne Vincent

Q&A SESSION





Please ask your questions directly in the chat box. We will (try to) answer them at the end of the webinar



Carbon4 Finance: who we are

A data provider specialized in metrics for the financial sector

Carbon4 Finance develops Climate Data Solutions for investors and lenders. The company's clients are asset managers, asset owners, banks and index providers wishing to report their climate performance or develop climate investment tools and policies based on custom data solutions.

OUR SERVICES



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- Climate data for portfolio carbon footprinting
- Scope 1, 2 & 3: induced emissions and emissions savings
- Assessment of assets' physical risks
 - State-of-the-art platform for climate scenario alianment

OUR APPROACH

Carbone 4

more than 13

years of

expertise



A multi-sector approach

TRANSPORT



BUILDINGS ENERGY and



MINING







FOREST, PAPER

and WASTE



HEAVY INDUSTRY

and MACHINERY



FINANCIAL

Carbon4

Finance

creation

2016



WHAT ARE THE PHYSICAL AND TRANSITION CLIMATE RELATED RISKS?

WHAT LESSONS CAN WE LEARN FROM THE CORONAVIRUS CRISIS FOR THE ANTICIPATION OF CLIMATE CHANGE IMPACTS?

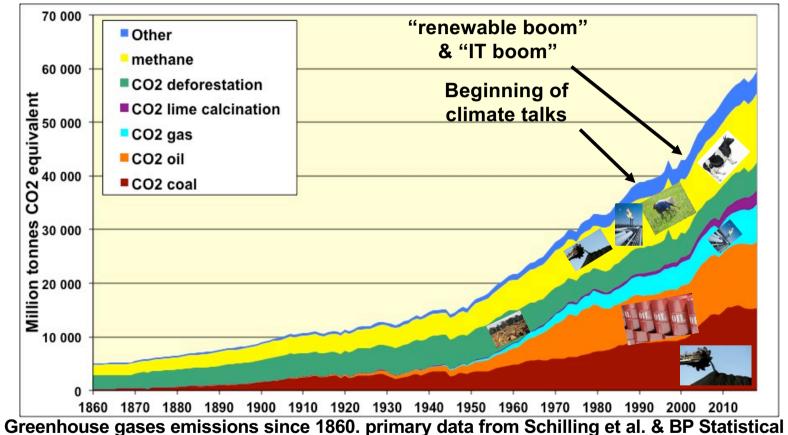
Jean-Marc Jancovici, Founding partner, Carbone 4 & Carbon4 Finance



LET'S HAVE A LOOK AT THE GREENHOUSE GASES EMISSIONS SINCE 1860:

THE FIRST SOURCE OF GHG IS CARBON DIOXYDE (CO2) WHICH CAN COME FROM COAL, OIL, GAS, LIME CALCINATION, OR DEFORESTATION

More is more



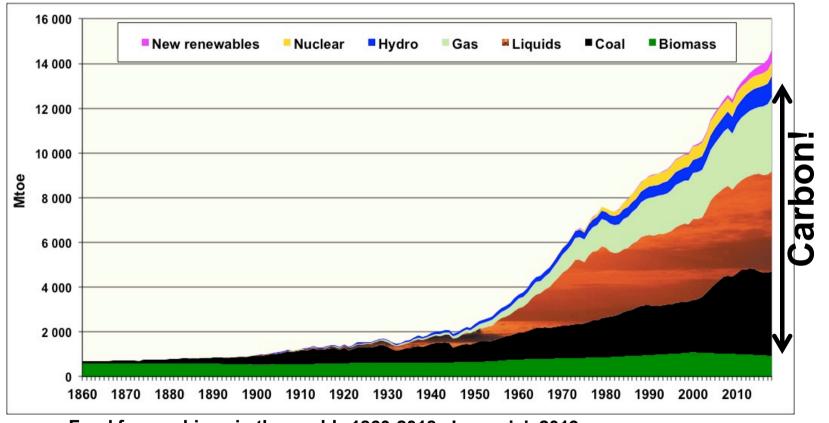
Review (fuels); Houghton http://cdiac.ornl.gov/trends (deforestation); IPCC AR4 for cement







Yummy kWh



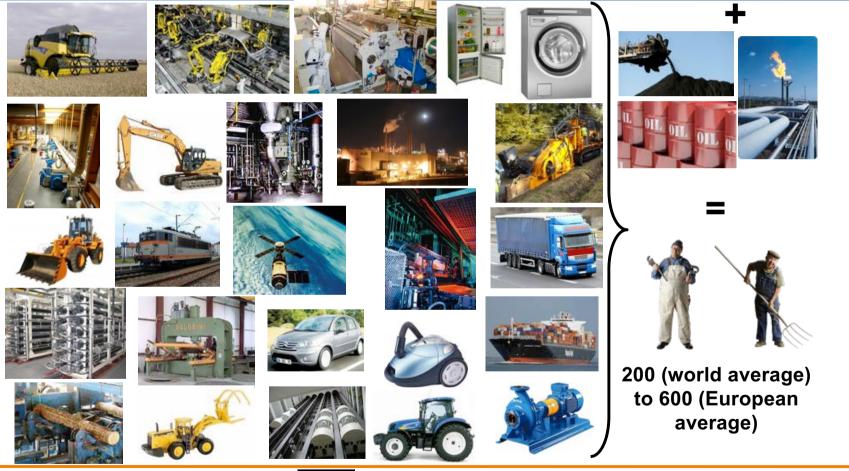
Food for machines in the world 1860-2018. Jancovici, 2019







Using energy? But what for?

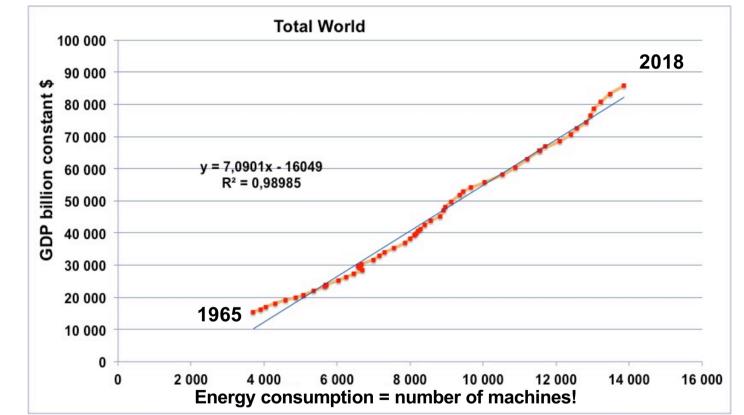








The best macroeconomic model in the world: a straight line



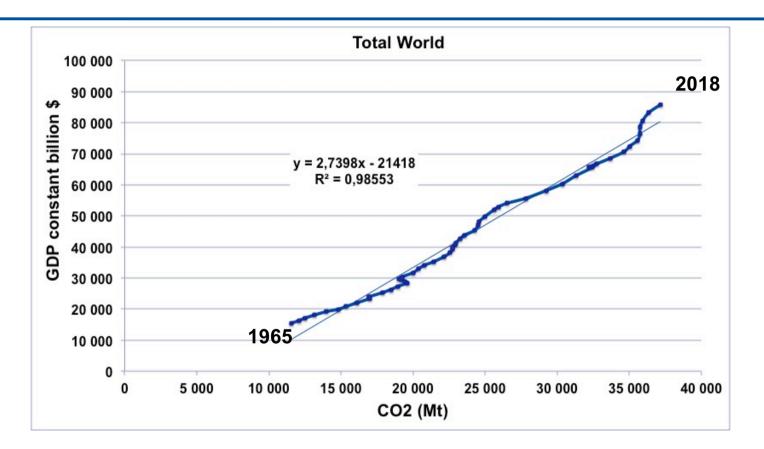
Energy consumption vs. GDP in constant \$, 1965 to 2018. Author's calculation on World Bank 2019 for GDP, BP Statistical Review 2019 for energy







Decoupling, a piece of cake?



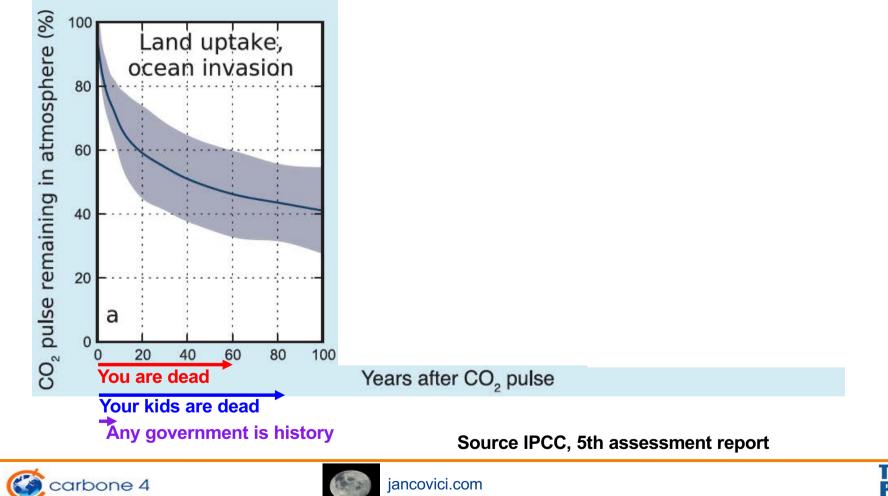
World CO2 emissions vs. world GDP. Jancovici, 2019





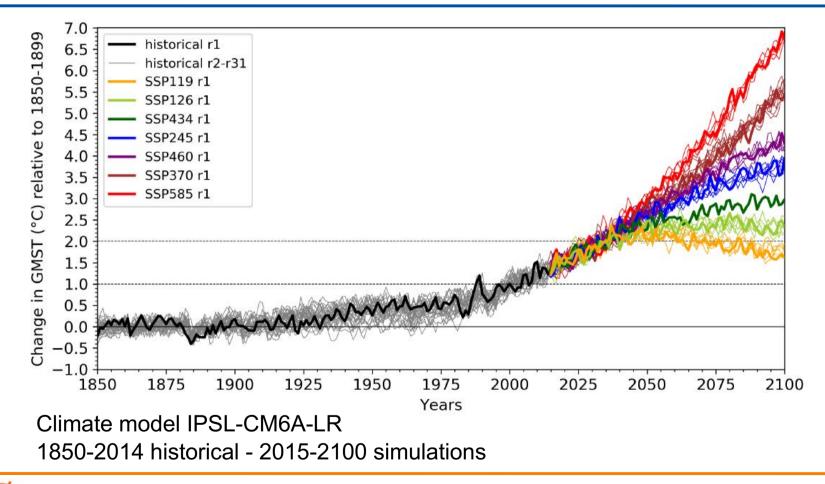


Help! Where is the reset button?



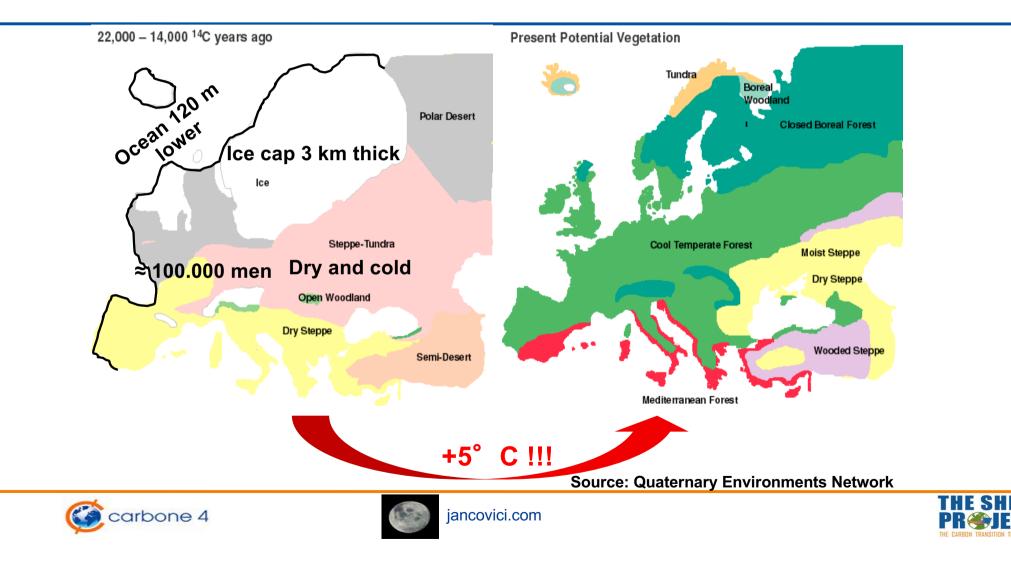


2° C compatible is not going to be a piece of cake

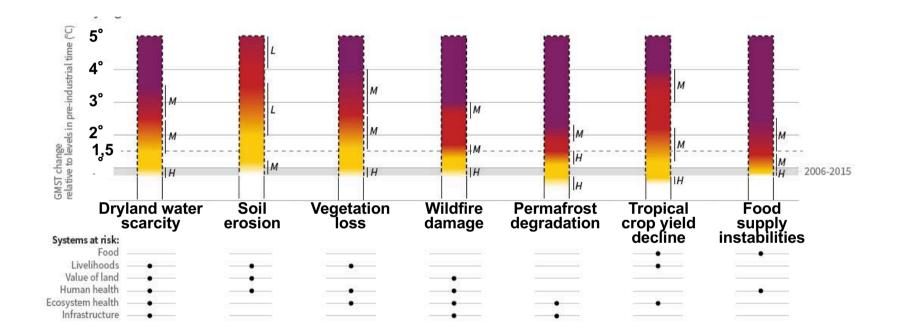


🌍 carbone 4

Fancy triggering a new climate era?



Adapting... to what exactly?



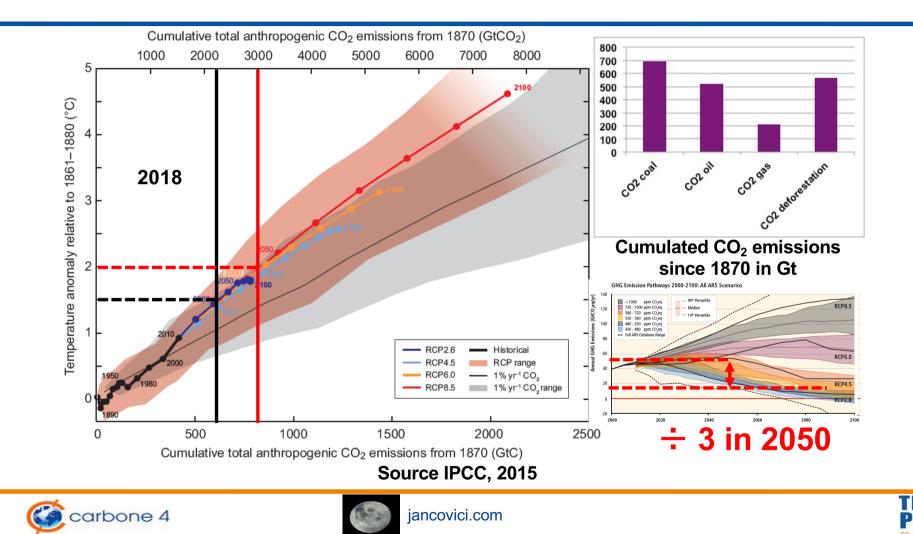
IPCC, 2019, Summary for policymakers of the report "climate change and land"



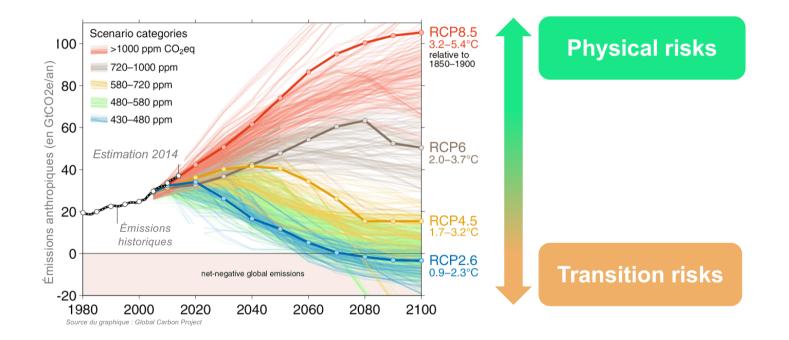




2° C, fingers in the nose?



If you don't want a war economy, you'll get war









HOW CAN CARBON AND CLIMATE DATA CAN HELP FINANCIAL ACTORS AVOID AND PREVENT THOSE RISKS?



Carbon4 Finance is the first to offer the financial sector a complete climate risk analysis package



"With better information as a foundation, we can build a virtuous circle of better understanding of tomorrow's risks, better pricing for investors, better decisions by policymakers, and a smoother transition to a lower-carbon economy."

- Mark Carney, Financial Stability Board (FSB) Chair and Governor of the Bank of England

December 14, 2016: The **Task Force on Climate-related Financial Disclosures** (TCFD) issues its recommendations for disclosure of **2 major categories of climate-related risks**.

Two climate risks...

Two dedicated offers



The financial risks resulting from the process of adjustment towards a lower-carbon economy (policy changes, new technology, etc.)



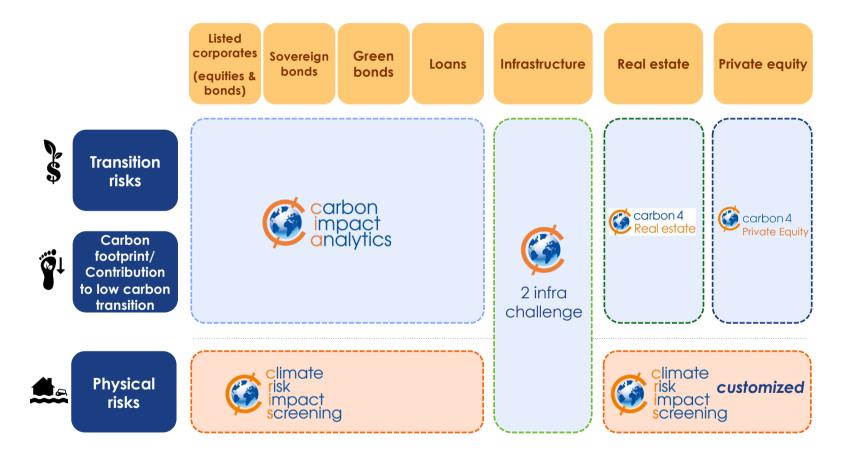


Impacts on insurance liabilities and the value of financial assets that arise from climate- and weatherrelated events (floods, droughts, storms, etc.)





.... With Common methodological principles for all asset classes



Common methodological principles for all asset classes: bottom-up logic, measurement of Scope 3 emissions and emissions savings, qualitative forward-looking assessment, etc.



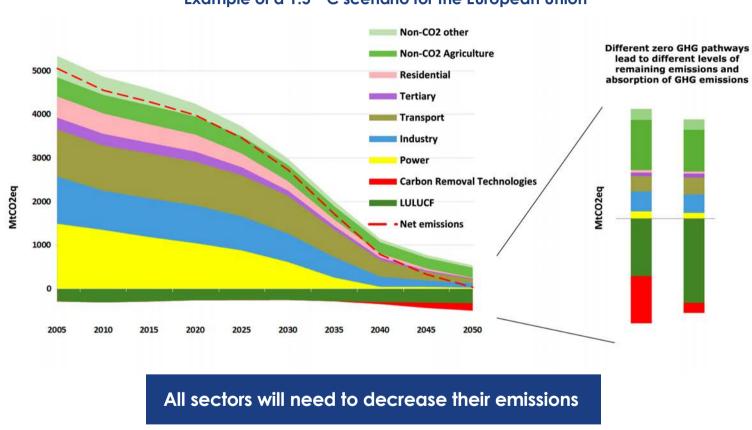
Main outcome of these methodologies: scoring the risks

How? By identifying the main risk factors and compare the relative vulnerability of companies





The transition risk is linked to the GHG emissions...



Example of a 1.5° C scenario for the European Union

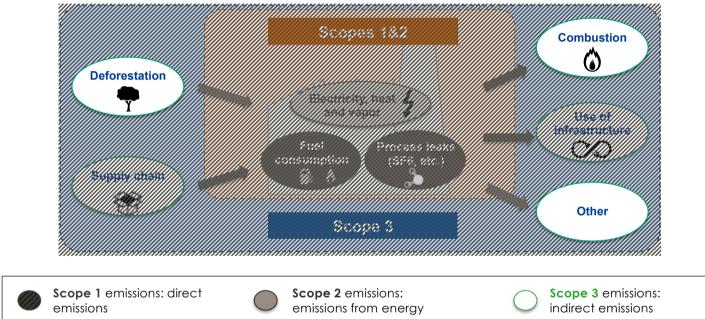
Source: A Clean Planet for all, European Commission



The transition risk is linked to the GHG emissions... ...in the whole value chain



Carbon accounting basics



Carbon footprint boundary

Accounting for scope 1, 2 and 3 emissions is the only way to capture climate challenges in an exhaustive way.



Do not forget the opportunities!

The companies that are exposed to opportunities in a low carbon transitioning world are those that:

Manufacture efficient products

Provide efficient services

Reduce their own carbon intensity





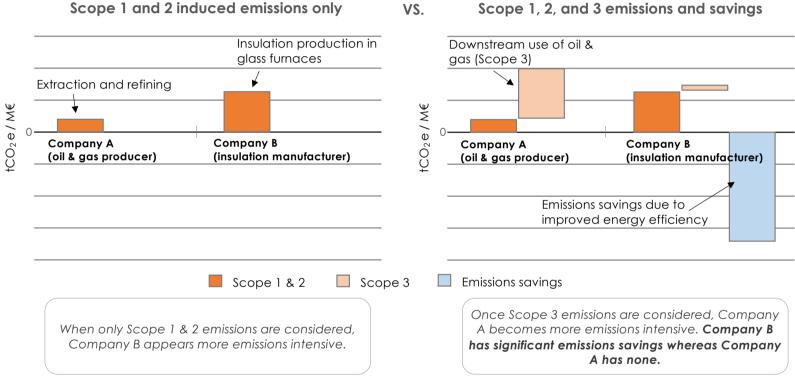


Let's assess for the emissions savings!





Scope 3 induced emissions and emissions savings are crucial to understanding true impact of issuers



Scope 1, 2, and 3 emissions and savings

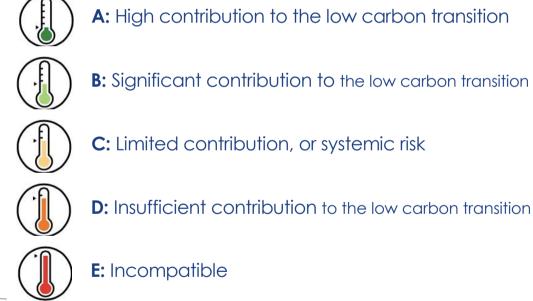


Forward-looking analysis Where is your portfolio headed?

© Diego Barbieri - Fotolia.com

Scoring the transition risk

Scale from A to E



E: Incompatible



Regulators are taking up the subject

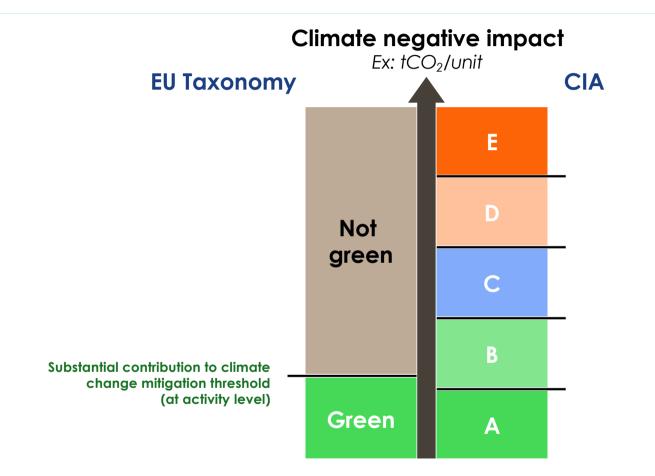


EU Taxonomy

Green bond standard Climate benchmark



Main difference of use between the EU taxonomy and CIA





Climate benchmarks

	Climate Transtion Benchmark (CTB)	Paris-Aligned Benchmark (PAB)
Baseline reduction of GHG intensity	-30%	-50%
Decarbonisation trajectory	7 % reduction of GHG intensity on average per annum	
Exposition to high stakes sectors	At least equivalent to the exposure of the underlying investable universe to those sectors	
Integration of scope 3 data	 At the application: energy and mining sectors In 2 years : transportation, construction, buildings, materials and industrial In 4 years : all other sectors 	
Exclusions	_	ESG : controversial weapons, tabacco, UNGC Climate (% revenues) :



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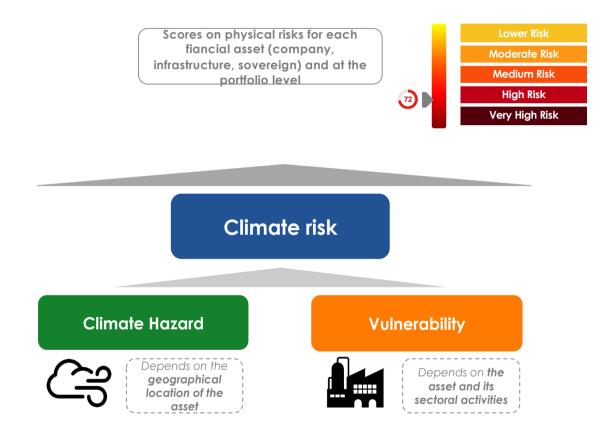
Physical Risk

Impacts on insurance liabilities and the value of financial assets that arise from climate- and weatherrelated events (floods, droughts, storms, etc.)





Physical risk score result from Climate hazard and vulnerability matrix

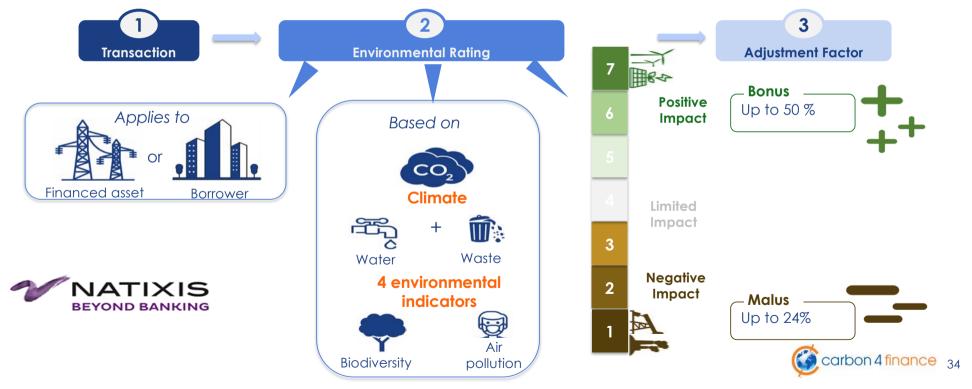




EXAMPLE 1 : THE GREEN WEIGHTING FACTOR

How to actively manage the climate impact of a bank's balance sheet

- Each financing transaction is assigned an **environmental rating**, on a seven-level scale corresponding to its impact on the climate and the environment.
- Under the mechanism, analytical risk-weighted assets (RWA) are reduced by up to 50% for green deals, while facilities that have a negative environmental and climate impact see their analytical RWA increased by up to 24%.



EXAMPLE 2 : THE EURONEXT LOW CARBON 100 INDICE Resilience of the index towards the Coronavirus crisis

- 2008: Euronext was the first stock exchange operator to launch a pan-European CO₂ emission index.
- 2015: Euronext partnered with the firm Carbone4 to renew the methodology, based on a more efficient approach to measuring corporate climate performance.
- The Low Carbon index 100 Europe® : the first index in the world built to reflect an investment trajectory compatible with the 2 degrees pathway:
 - Assess the carbon footprint of each company, assessed across the entire value chain.
 - Identify the companies which are making a positive contribution to the climate transition, not only through their operational performance, but also thanks to the products sold to their customers.
 - Take into account the level of emissions avoided thanks to their efforts to innovate products and services.

Historique base 100 du 24/04/2017 au 23/04/2020 1 an 3 ans 5 ans







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