



Quantis

CARBON DELTA
the environmental fintech



COMBI 3

Combining bottom-up and top-down
Scope3 measurements

Workshop: Metrics for a sustainable capital shift

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Aim: being able to assess Scope 3 GHG emissions – better & quicker

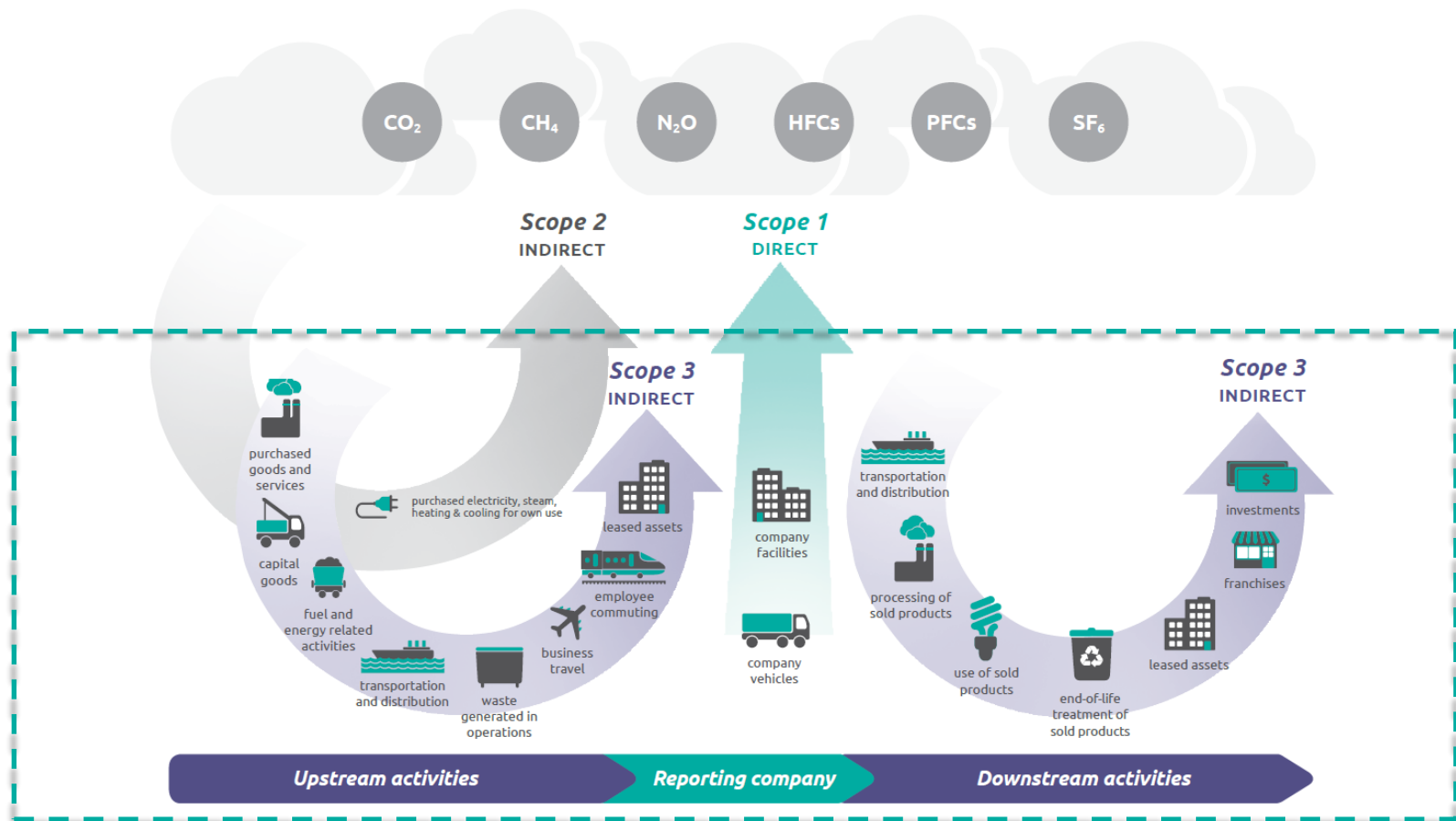


Figure 1 Overview of GHG Protocol scopes and emissions across the value chain of a company (GHG Protocol, 2011)

Importance of Scope 3 categories

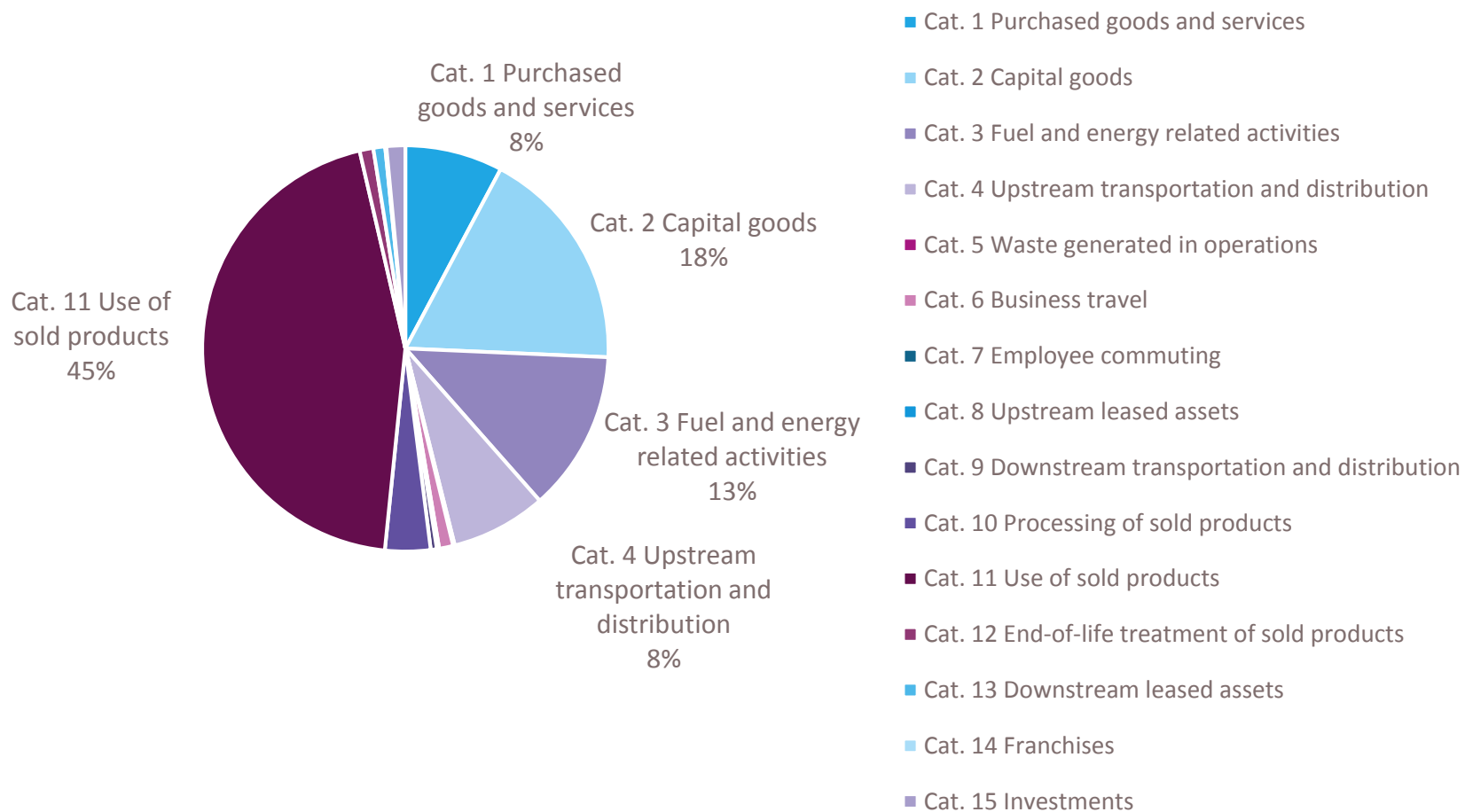


Figure 3 Share of total emissions reported by companies within the CDP database in all 15 categories of Scope 3 (CDP, 2018)

Problem & consequences & magnitude

Problem

-> Lack of Scope 3 emissions reporting and estimation method

Consequences

-> Decisions are made based on incomplete data and are therefore often misguided

Magnitude

-> Scope 3 emissions are often the most dominant source of greenhouse gases of any company (Zah et al. 2015).

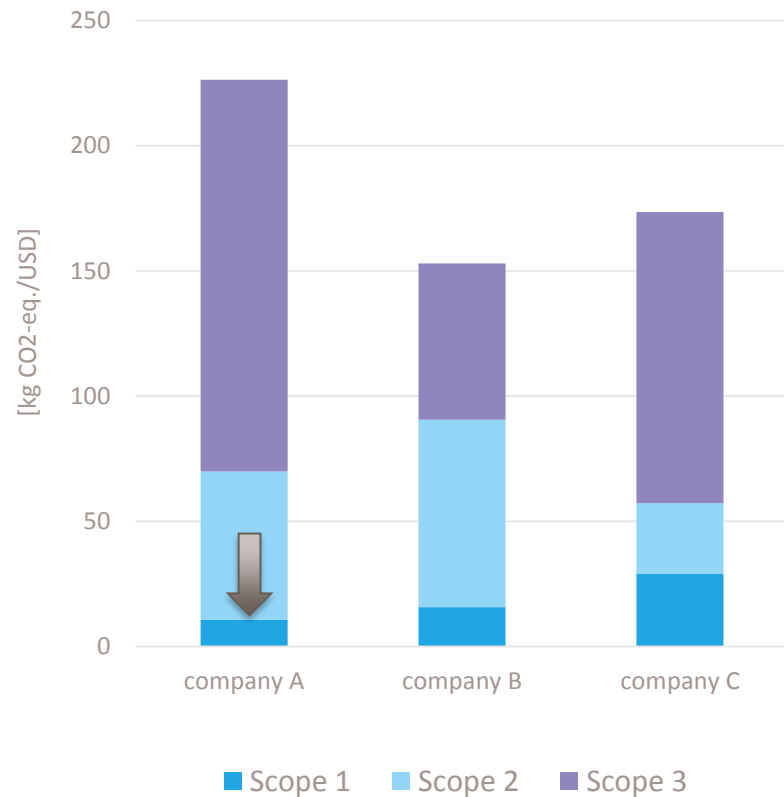
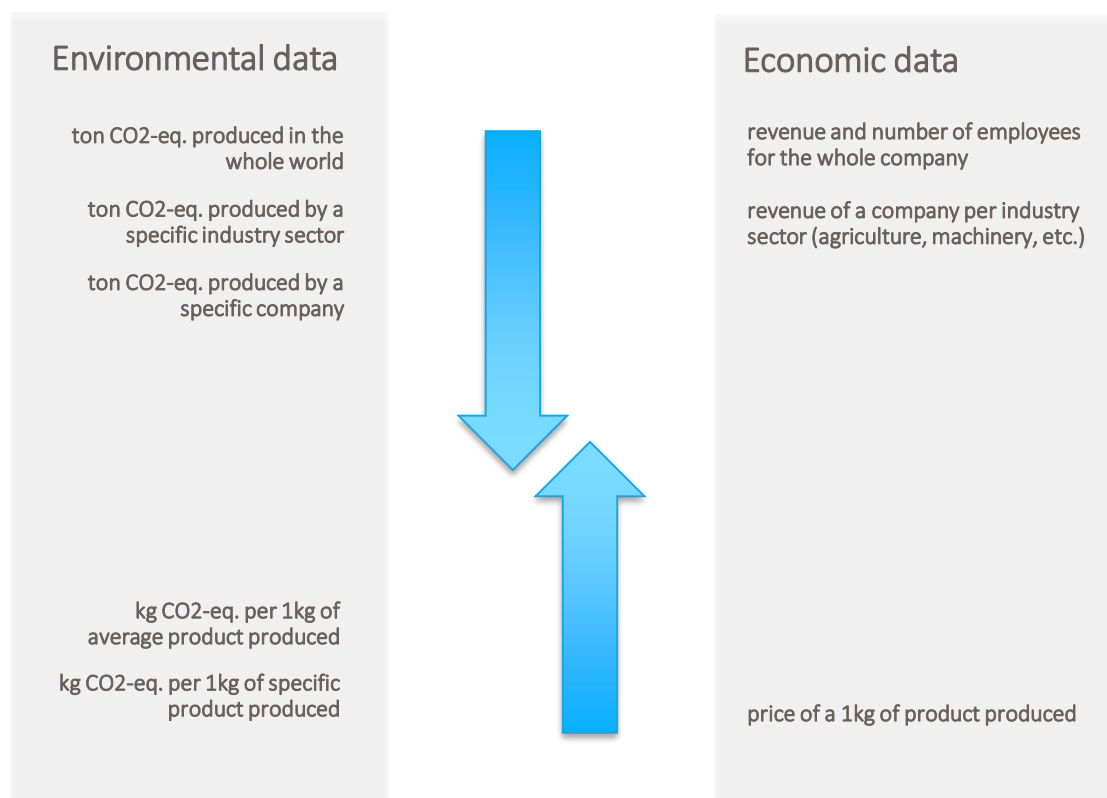


Figure 2 Total GHG emissions reported by three fictional companies in Scope 1, 2 & 3

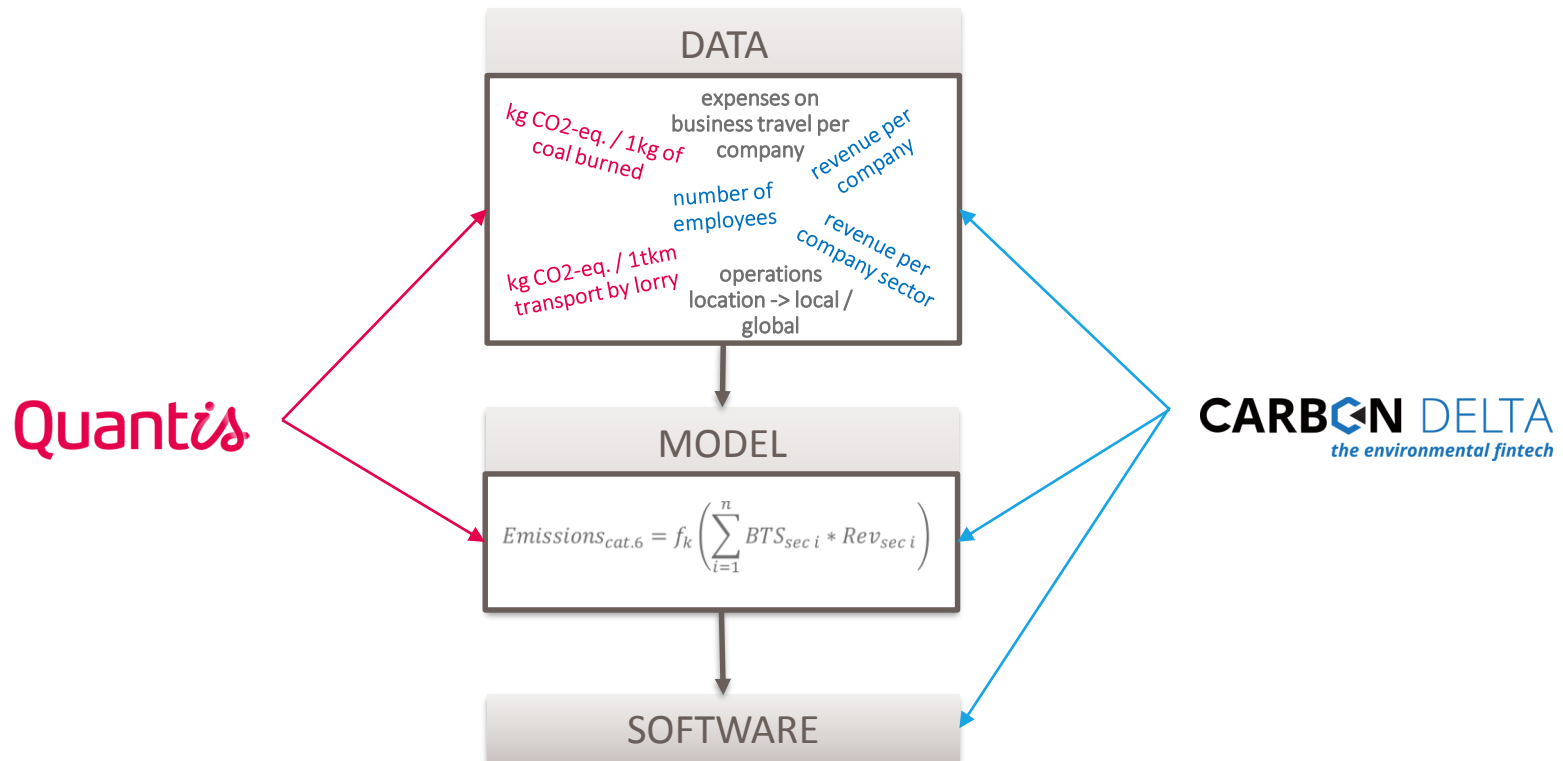
Objective of COMBI 3 project

-> Improving Scope 3 data to be able to make better investment decision by combining bottom-up and top-down approach



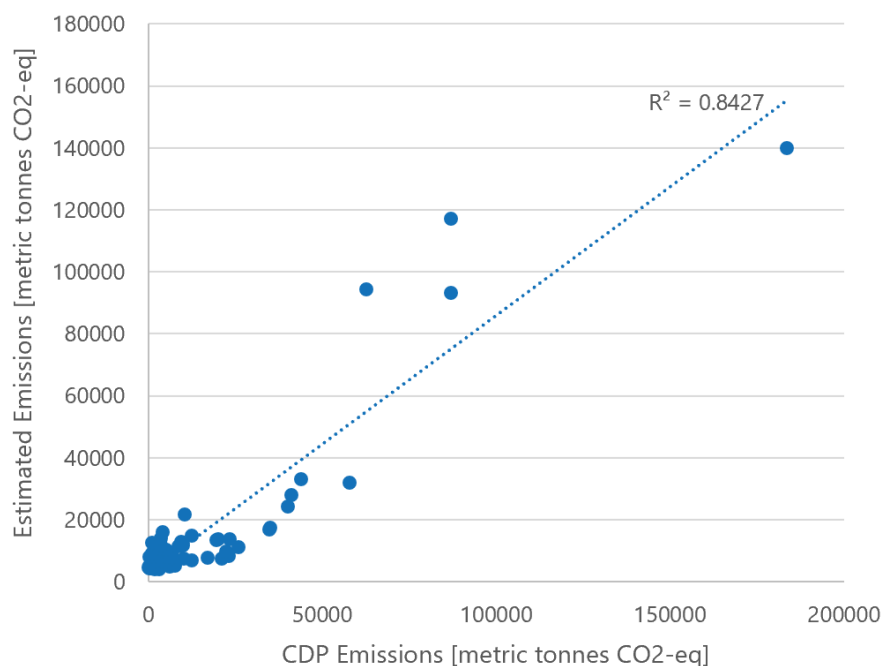
Approach

-> Develop an automated, granular and consistent calculation of all 15 categories under Scope 3



Quality check & consistency

-> Data quality and plausibility of the data generated using the newly developed models is done by comparison with the CDP data and with internal data available for companies which are clients of Quantis



Results

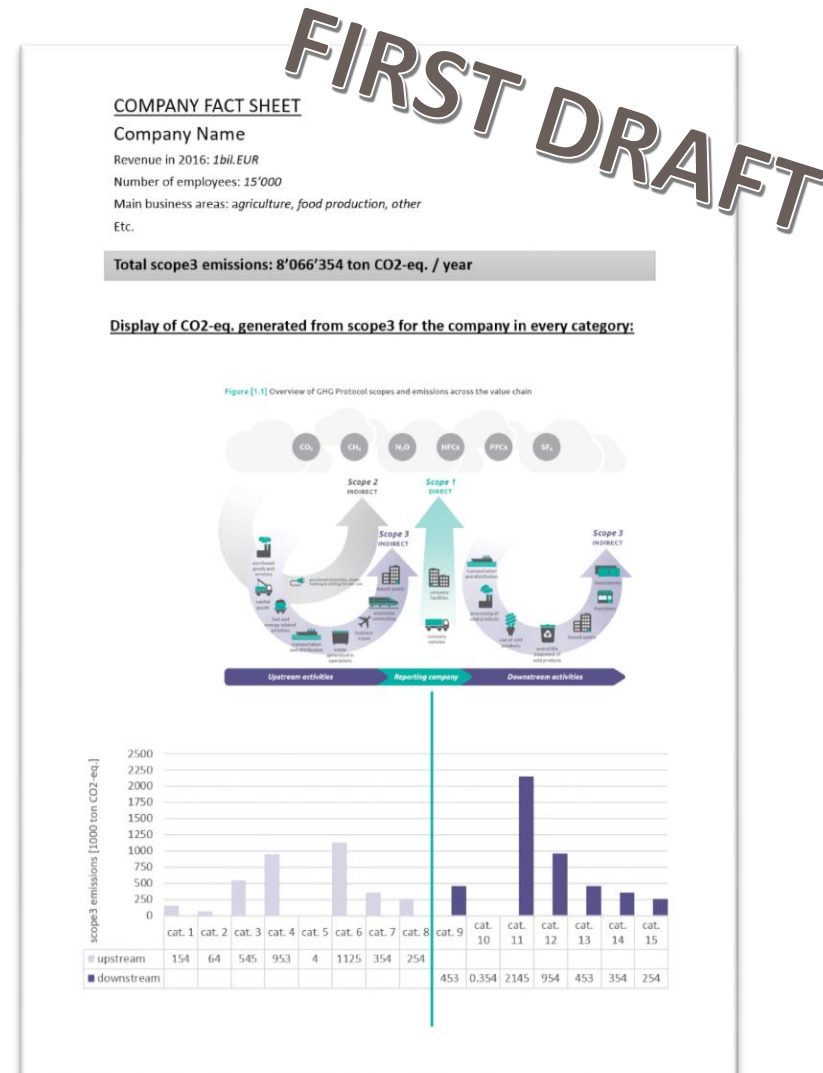
→ Correlation = 92%

→ $R^2 = 84\%$

Outcome – data available to the users

-> Outcome will be estimated Scope 3 emissions for more than 20'000 companies included in the Carbon Delta software for all the 15 Scope 3 categories

- Total Scope3 emissions
- Scope3 emissions separately for all 15 categories
- Scope3 emissions related to 1 USD of revenue
- Data can be also feed to different type of matrices which can help to identify other risks



Strengths and Weaknesses

	internally gathered / calculated data	CDP	combi3
transparency	2	3	7
consistency	7	3	10
quality	7	5	6
coverage	5	3	9
reality check	7	8	6
reproducibility	8	2	6
maintenance costs	2	7	8
speed of quality improvements	7	5	7
TOTAL SCORE	45	36	59

Table 1 Semi-quantitative assessment of strengths and weaknesses of combi3 results in comparison with its alternatives

Conclusion

The outcome of combi3 will be ...

Calculated Scope3 emissions for thousands of companies available
with a click of a button!

THANK YOU FOR YOUR ATTENTION!

QUESTIONS?



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