



CO2Analysis Solution Overview

Background and client base

CO2Analysis offers a technology based solution for the analysis of organisational and product carbon footprints. The technology is globally unique and was developed in partnership with Goldsmiths College London and Reading University cybernetics departments. It was part of the largest Knowledge Transfer Partnership (KTP) in the UK, with 13 academics and a large private sector R&D department working for 3 years to create the Artificial Intelligence solution.

It was used by the National Audit Office for a national study of NHS consumables procurement and also by the NHS Sustainability team to create the NHS national 'hot spots' report. It has continued to be developed and now has a wide range of customers in the public and private sectors in the UK and globally.

What's unique?

Scope 3 Supply Chain has been the most challenging area for organisations to understand and baseline. The amount of data held in a single organisations finance system can run to millions of lines and it's impossible to analyse it manually.

The AI does the heavy lifting – it can take all of the finance and procurement data and within a few days it can look at each of the individual purchase lines, code, classify and create a carbon footprint. The results are presented back in an excel work book which is fully searchable, allows detailed drill down and has tools to help organisations address their carbon footprint in real time.

The solution continues to learn and refine the carbon intensities based on all of the line item data that it analyses. It holds the single largest global repository of carbon footprints.

All of this means that organisations can quickly get an accurate view of their carbon footprint and which supplier and which goods or services are having the greatest impact. Armed with their detailed data organisations can make pragmatic plans for carbon reduction, both internally and with the supply base.

CO2Analysis is the only organisation that works with data at Line Item level, all other automated data analysts work at Category or Standard Industry Code (SIC code) level. Consultants generally manually analyse purchasing data using spreadsheets.

To give an idea of the difference using stationery as an example;

- ❖ Line item – Niceday copy paper, 80gsm, white, 500 sheets.
- ❖ Category level – Stationery/office supplies
- ❖ SIC Code – Viking Direct, office supplies

Your teams know that office supplies have a carbon footprint, but not any detail or how to reduce it. Giving them a high level figure doesn't help and nor does it help to benchmark and track usage.

Knowing how many reams of paper you use and the carbon footprint of a ream makes the carbon impact tangible – you can write the carbon on the front of the stationery cupboard and people can see what they are taking out from a carbon perspective.

Cost effective and time effective.

The AI can sort through and categorise millions of lines of data quickly and accurately, allowing you to start making savings as soon as you have the analysis.

The data enables procurement and sustainability to start making carbon and financial savings, rather than being stuck in the analysis cycle. Given that these can be very significant the ROI from using the AI solution is generally very high.