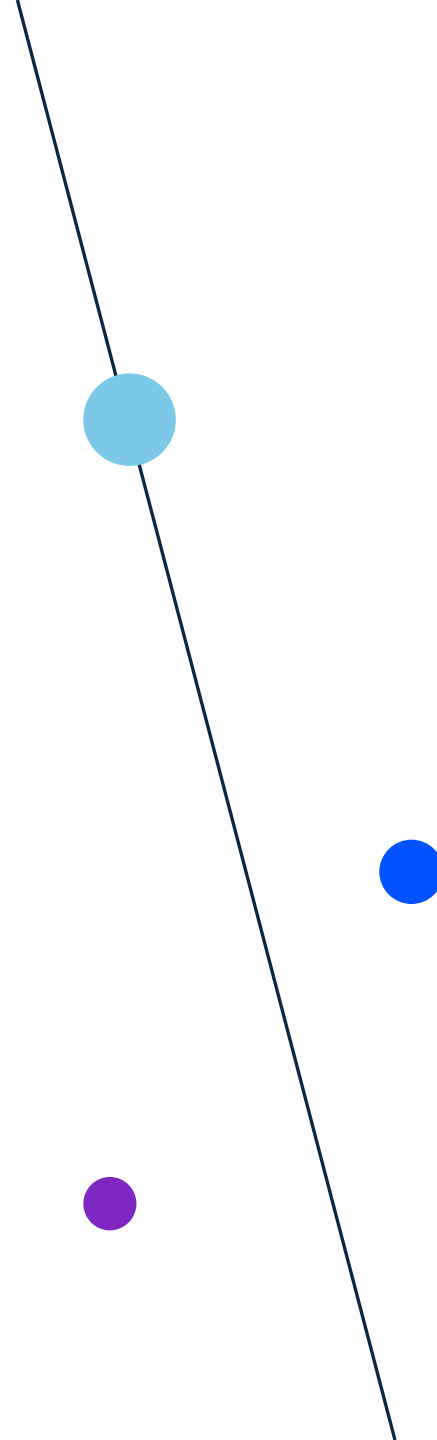# CO2 Analytics playbook

Introducing CO2 Analytics by Sievo

This playbook introduces Sievo CO2 Analytics, a solution that combines your internal purchasing data with external emission data or supplier data for actionable insights.

This playbook will present you the key functionalities of the solution including our out-of-the-box dashboard.

This dashboard covers the most common analysis needs of modern procurement teams in terms of CO2 Analytics, but more customized analysis are available if required by your organization.
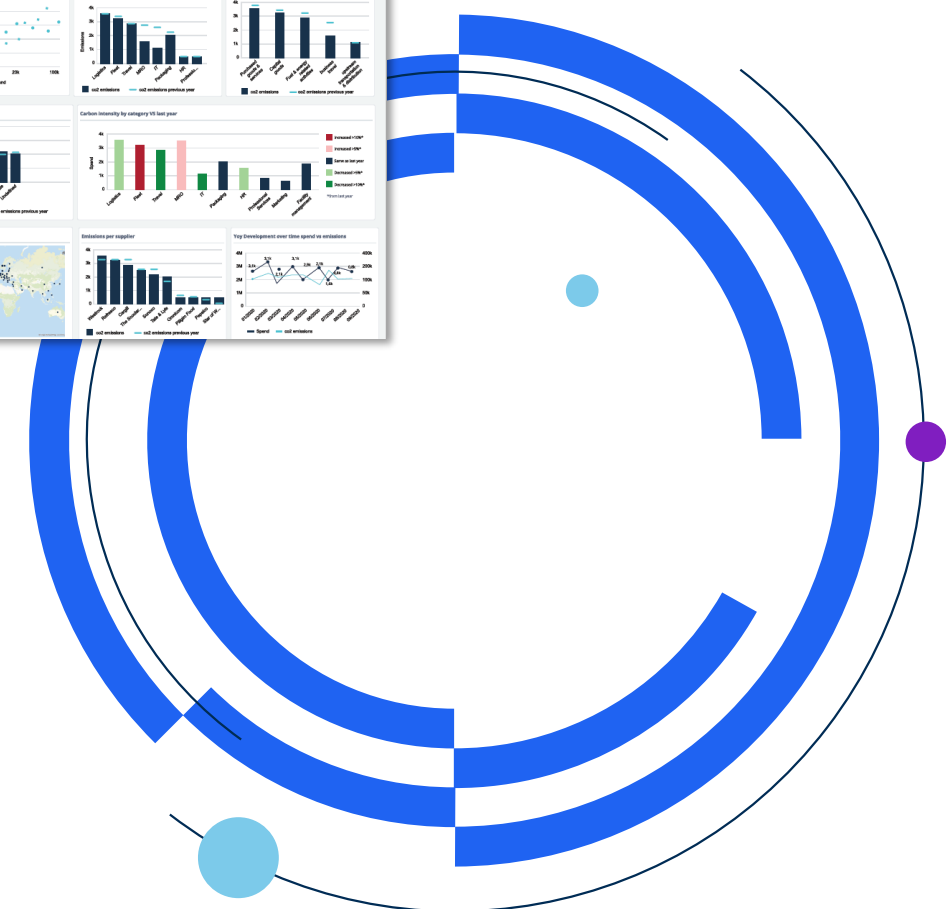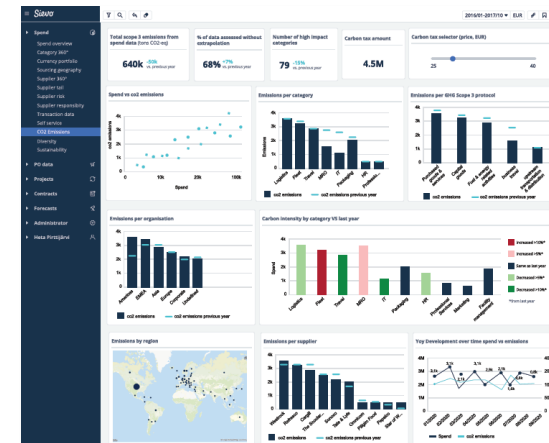
The 4 benefits of out-of-the-box dashboards

All you need in one view
- Completely new way of moving from insights to actions
- Designed by analytics professionals to contain all key data and charts
- Covers the most crucial procurement use cases

Speed
- Quickest way to getting all benefits of analytics and data
- Out-of-the-box dashboards are quick and easy to deploy

Flexibility
- Self-service functionality brings a lot of flexibility
- Best way to get started before creating custom dashboards

Development & training
- Out-of-the-box dashboards are continually developed
- Ready-made training material
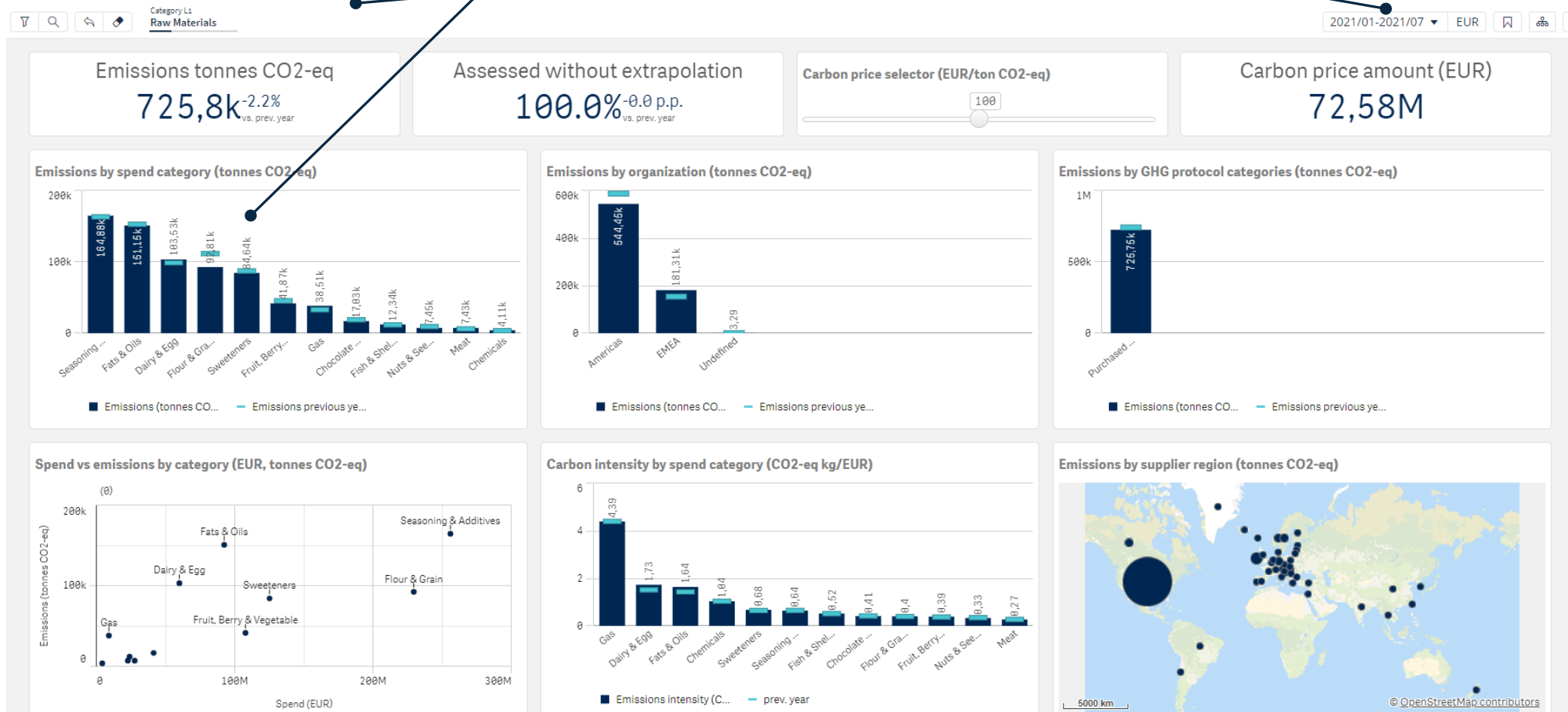
Sievo actionable analytics

Add, clear and manage filters

Add filter by clicking on the chart

Filters follow between dashboards

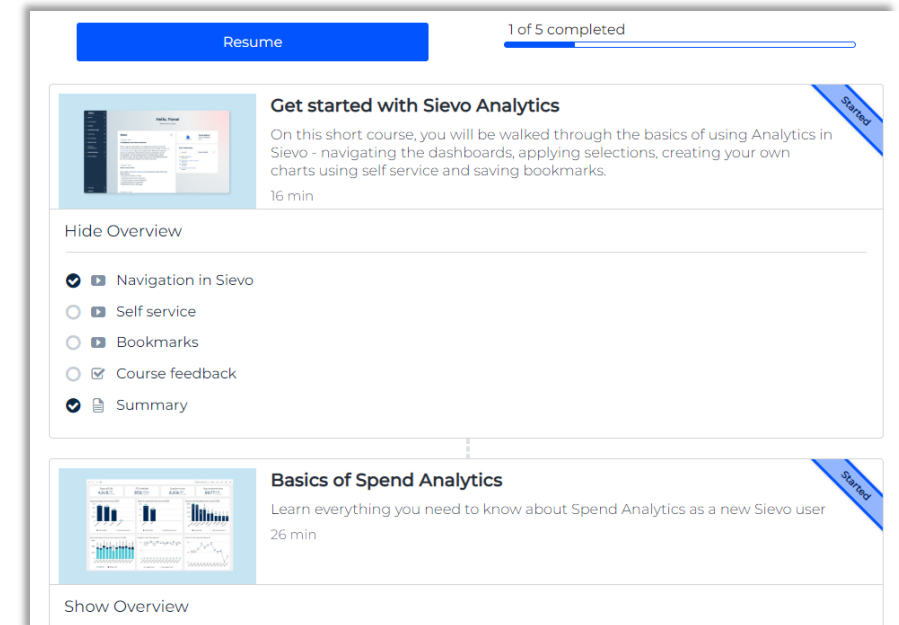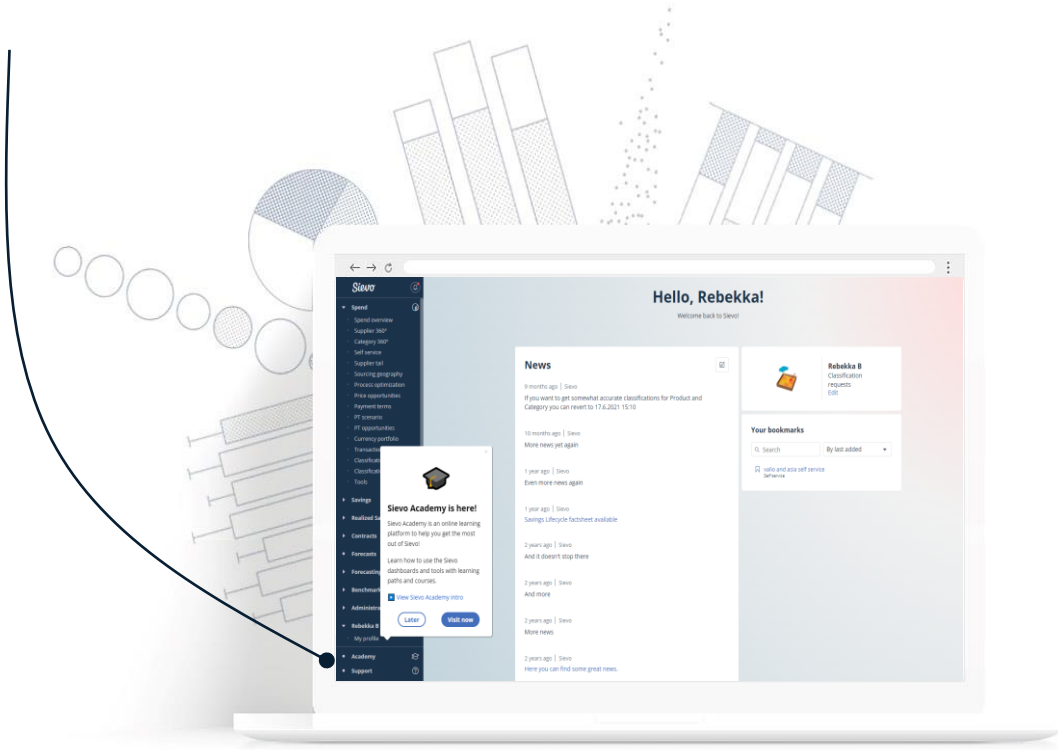Select time range and currency

Save and share your filters

Category L1
Raw Materials

2021/01-2021/07 ▾   EUR

Emissions tonnes CO2-eq
725,8k -2.2% vs. prev. year

Assessed without extrapolation
100.0% -0.0 p.p. vs. prev. year

Carbon price selector (EUR/ton CO2-eq)
100

Carbon price amount (EUR)
72,58M

Emissions by spend category (tonnes CO2-eq)
- Seasoning: 164,88k
- Fats & Oils: 151,15k
- Dairy & Egg: 183,53k
- Flour & Gra..: 92,81k
- Sweeteners: 84,64k
- Fruit, Berry..: 41,87k
- Gas: 38,51k
- Chocolate: 17,03k
- Fish & Shel..: 12,34k
- Nuts & See..: 7,45k
- Meat: 7,43k
- Chemicals: 4,11k

■ Emissions (tonnes CO... ─ Emissions previous ye...

Emissions by organization (tonnes CO2-eq)
- Americas: 544,45k
- EMEA: 181,31k
- Undefined: 3,29

■ Emissions (tonnes CO... ─ Emissions previous ye...

Emissions by GHG protocol categories (tonnes CO2-eq)
- Purchased ...: 725,75k

■ Emissions (tonnes CO... ─ Emissions previous ye...

Spend vs emissions by category (EUR, tonnes CO2-eq)
(0)
- Fats & Oils
- Seasoning & Additives
- Dairy & Egg
- Sweeteners
- Flour & Grain
- Gas
- Fruit, Berry & Vegetable
Spend (EUR)

Carbon intensity by spend category (CO2-eq kg/EUR)
- Gas: 4,39
- Dairy & Egg: 1,73
- Fats & Oils: 1,64
- Chemicals: 1,84
- Sweeteners: 0,68
- Seasoning ...: 0,64
- Fish & Shel..: 0,52
- Chocolate: 0,41
- Flour & Gra..: 0,4
- Fruit, Berry..: 0,39
- Nuts & See..: 0,33
- Meat: 0,27

■ Emissions intensity (C... ─ prev. year

Emissions by supplier region (tonnes CO2-eq)

5000 km   © OpenStreetMap contributors

Confidential © Sievo

Sievo Academy

Next level online learning experience including learning paths, best practices and certifications*, found at the bottom of your navigation

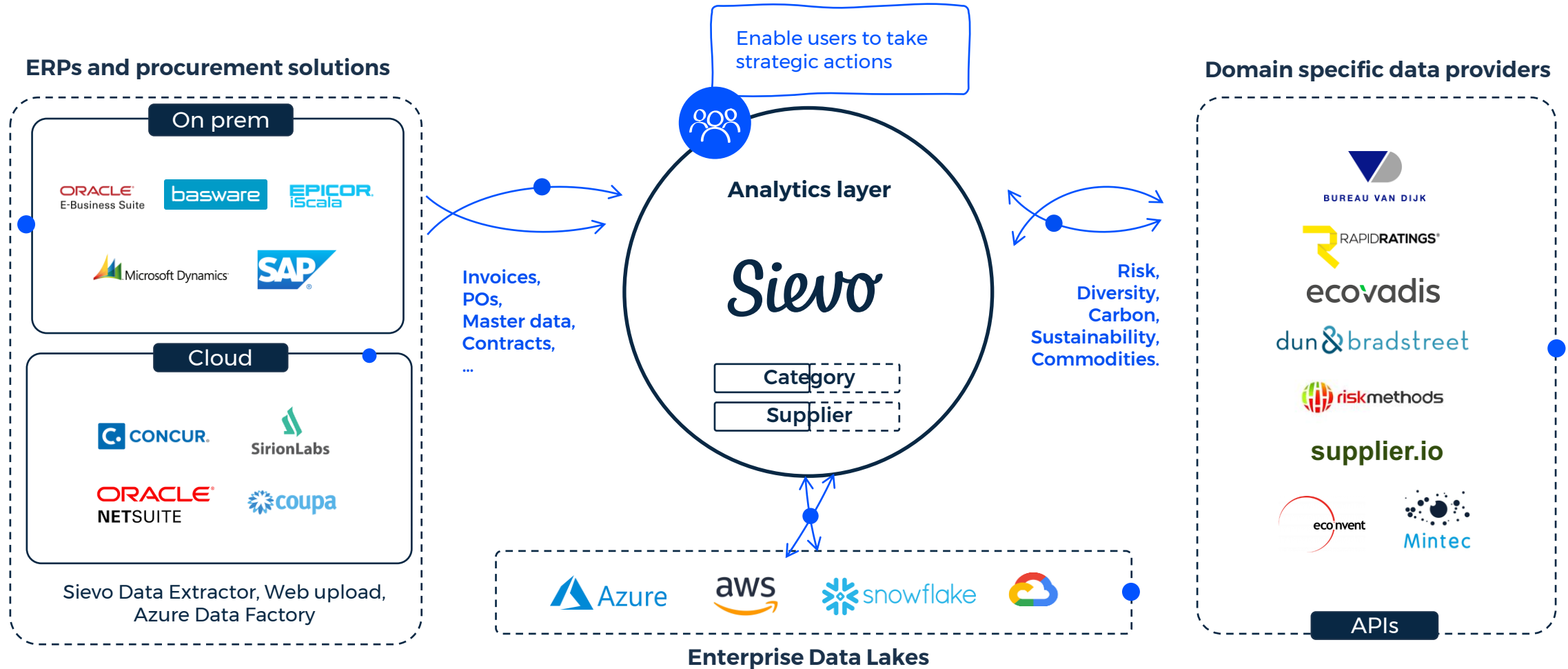Resources for both new and experienced users, covering all solution areas

- Curated learning paths for easy tool adoption
- FAQ's
- Exercises
- Playbooks
- Certifications*

*Coming soon

Sievo Sustainability Information Hub

Combining data for insights

ERPs and procurement solutions

On prem
- ORACLE E-Business Suite
- basware
- EPICOR iScala
- Microsoft Dynamics
- SAP

Cloud
- CONCUR
- SirionLabs
- ORACLE NETSUITE
- coupa

Sievo Data Extractor, Web upload, Azure Data Factory

Enable users to take strategic actions

Analytics layer

Sievo

Category
Supplier

Invoices, POs, Master data, Contracts, ...

Risk, Diversity, Carbon, Sustainability, Commodities.

Domain specific data providers
- BUREAU VAN DIJK
- RAPIDRATINGS
- ecovadis
- dun&bradstreet
- riskmethods
- supplier.io
- econvent
- Mintec

APIs

Enterprise Data Lakes
- Azure
- aws
- snowflake

Spend analytics and CO2 analytics in short

1

Take control of your procurement spend with spend analytics.

Get more value from your spend with automated data extraction, AI-powered classification, and advanced spend analytics

Why?

Need for visibility to spend and identification of improvement opportunities

For every $1BN analysed identify $1M in savings – repeatedly
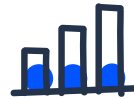
What?

- **Classify** your spend

- **Analyze** how your procurement performs

- **Follow** payment term developments

- **Track** key spend KPIs

- **Idenfity** savings opportunities

How?

- Automated data extraction from any source system

- Industry leading AI-powered spend classification

- Advanced spend analytics and configurable dashboards
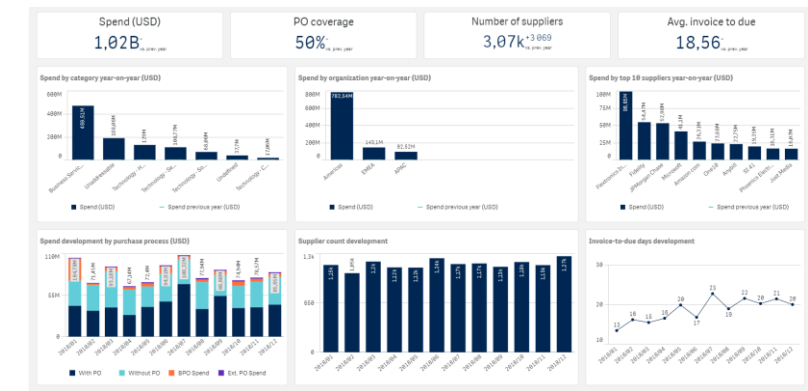
Reduce emissions across the enterprise with CO2 analytics.

CO2 analytics combines spend data with established emission factors to calculate your scope 3 emissions

Why?

80%
of company emissions come from the supply chain (scope 3 emissions)

65%
of FTSE 100 companies have already committed to net zero

What?

- **Identify** emission hotspots to understand which categories, regions, and suppliers to focus on

- **Report** emissions

- **Follow** emission reduction targets

- **Act** on your emissions with automatic monthly data refreshes

- **Supercharge** cross-functional communications

- **Save** time and costs

How?

Spend data x emission factors from established databases or from your suppliers according to the GHG protocol and verified by a third party

GHG protocol (2020); Ecoact (2021)

CO2 analytics

The details

2

How does the tool work?
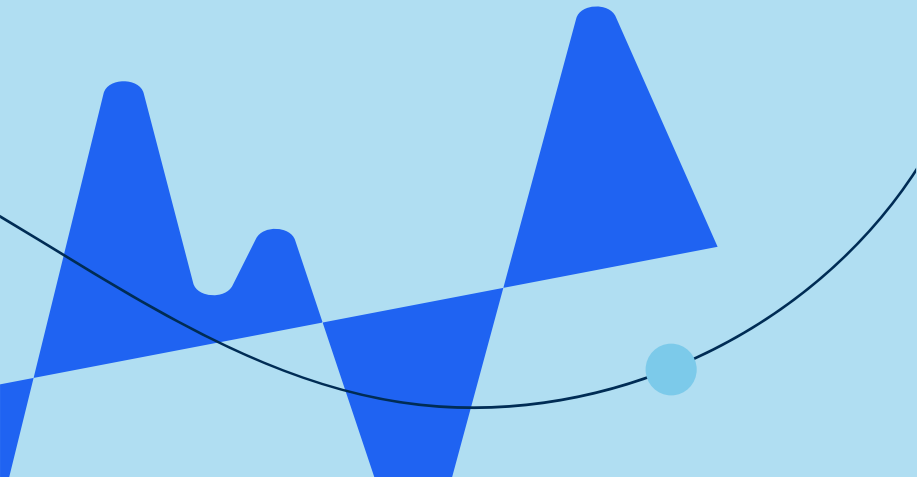
Sievo Customer Interviews:

"It takes on average **3 to 4 person-months a year** for a company to build and maintain a manual carbon footprint calculation tool."

"We have about **50 different answers** if you ask about our carbon footprint."

"We cannot **wait a whole year** anymore before we can report on our emissions."

NO automated data gathering

NO monthly updates

NO data transparency
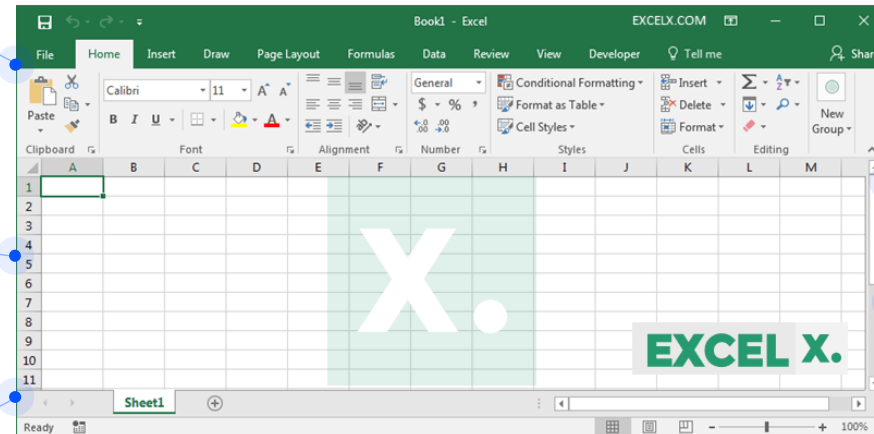
NO actionable data

NO holistic visibility

Common challenges in measuring supply chain emissions

Limited to annual reporting	Inaccurate data	Lack of visibility
Very manual process	Lack of engagement	Not yet started

Identify emission hotspots to understand which categories, regions, and suppliers to focus on

Supercharge cross-functional communications

Report emissions

Sievo
CO2 Analytics
=
actionable data to power your sustainability decisions.

Follow emission reduction targets

Benchmark different categories and regions internally

Act on your emissions with automatic monthly data refreshes

Emissions is the new currency

Investor returns

Customer satisfaction and loyalty

Asset values

Brand recognition and reputation

Cross-functional collaborations

Opportunities go **beyond addressing climate change** with Sievo CO2 Analytics

Innovation in offerings and operations

Stakeholder communications

Supplier relationship building

Refinancing

Employee morale and well-being

We can combine data from any source you need.

INTERNAL DATA SOURCES

Power BI
SAP
X (Excel)
aws
Microsoft Dynamics NAV
ORACLE E-BUSINESS SUITE
CONCUR
snowflake
Azure
basware
EPICOR iScala

Upstream activity data →

Sievo Emissions insights

← CO2 emission data

↓ **Company & climate positive actions**

3RD PARTY DATA PROVIDERS

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION
ecoinvent
CDP DISCLOSURE INSIGHT ACTION
exiobase

Supplier specific or custom data

Get more time to focus on actions that matter.

- ☑ Monthly automated data gathering
- ☑ Automated mappings
- ☑ Holistic view into emissions
- ☑ Full data transparency and ownership

We help you fill in the visibility gaps, continuously.

Emissions presented in Sievo = **Upstream activity data** from spend or quantity X **Average emissions factors** from established databases* or directly from suppliers

Supplier specific information added where available from customer & supplier.

eco**invent** — Most common, product specific life cycle database. Based on quantity → 1kg of apples = x kg CO_2

exiobase — Aims to cover almost the whole world economy (51 countries, 200 sectors in each country) Monetary based → 1 euro of fruits = x kg CO_2

*All external databases are included.

Example of Sievo taxonomy being mapped to CO2 emissions

Sievo taxonomy				Results of CO2 mappings			
Category L4	Category L5	Location	UOM	CO2	Mapped from database	DB used	Location
Dairy	Milk	France	kg	1.035	Skimmed milk, from cow milk	Ecoinvent	France
Dairy	Milk	Denmark	kg	1.220	Skimmed milk, from cow milk	Ecoinvent	Denmark
Dairy	Skimmed milk powder	France	kg	1.035	Skimmed milk, from cow milk	Ecoinvent	France
Dairy	Lactose	United States	kg	0.644	Lactose	Ecoinvent	United States
Dairy	Whey	United States	kg	2.733	Whey	Ecoinvent	United States
Chemicals	Lactose monohydrate	France	eur	1.330	Chemicals nec	Exiobase	France
Chemicals	Sodium	United States	eur	0.797	Chemicals nec	Exiobase	United States

The emission factors are affected by
1) The category/material group name and
2) The location where available for specific material

In addition, inflation, unit of measurement, and currency rate conversions are considered

hikma.

& *Sievo* CO2 analytics

> " We wanted one solution that would be updated automatically... ensuring efforts would be focused on driving sustainable change rather than on data mapping processes."

– Francois Rousselot
Group Head of Procurement at Hikma

Results

- 95+% scope 3 visibility to indirect and direct categories
- Successful implementation & adoption level
- 100% automated monthly data extractions and refreshes
- Team trusts data and insights thanks to greater mapping accuracy

Read full case study here.

We enable you to become compliant.

- ☑ Verified by one of the big four accounting firms
- ☑ Assurance statement ready
- ☑ Science-based calculations
- ☑ Calculations according to GHG protocol
- ☑ Unique 28 step prioritization approach

Sievo calculates a carbon footprint for all of your upstream acitivity data.
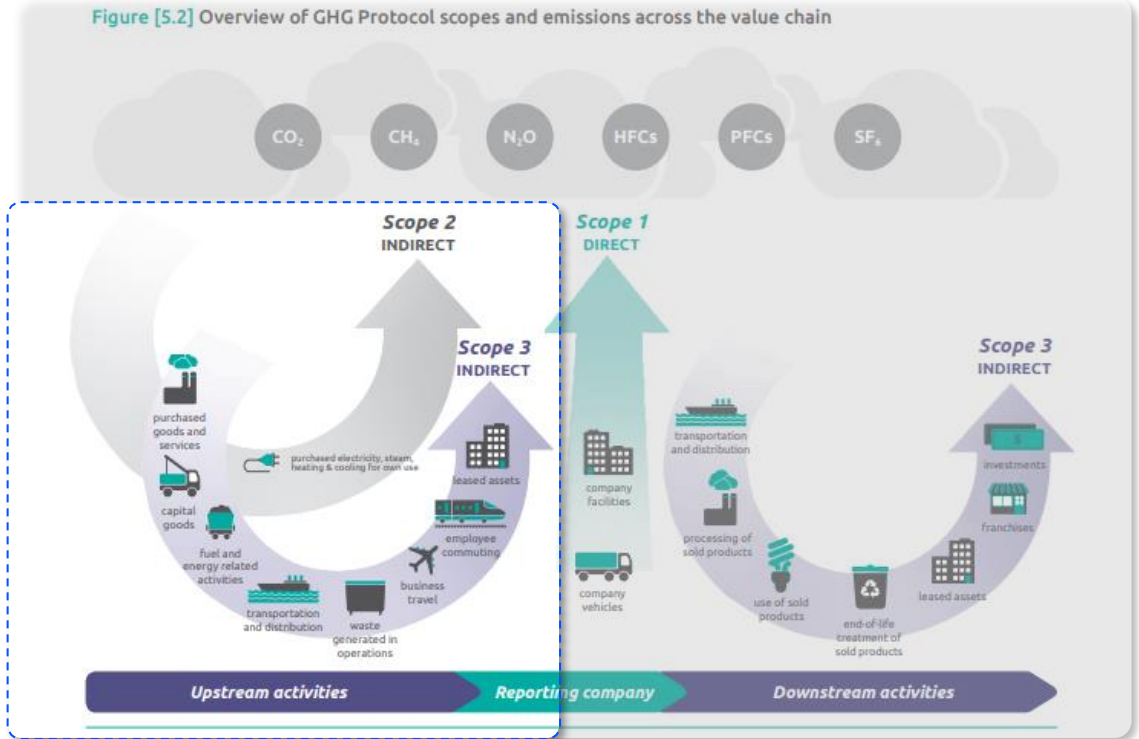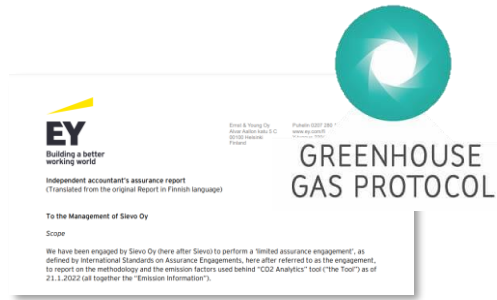
Continuously develop emission mappings and improve accuracy over time directly in Sievo.

Primary supplier data

Quantity-based calculations

Spend-based calculations

Availability

Accuracy

eco nvent

exiobase
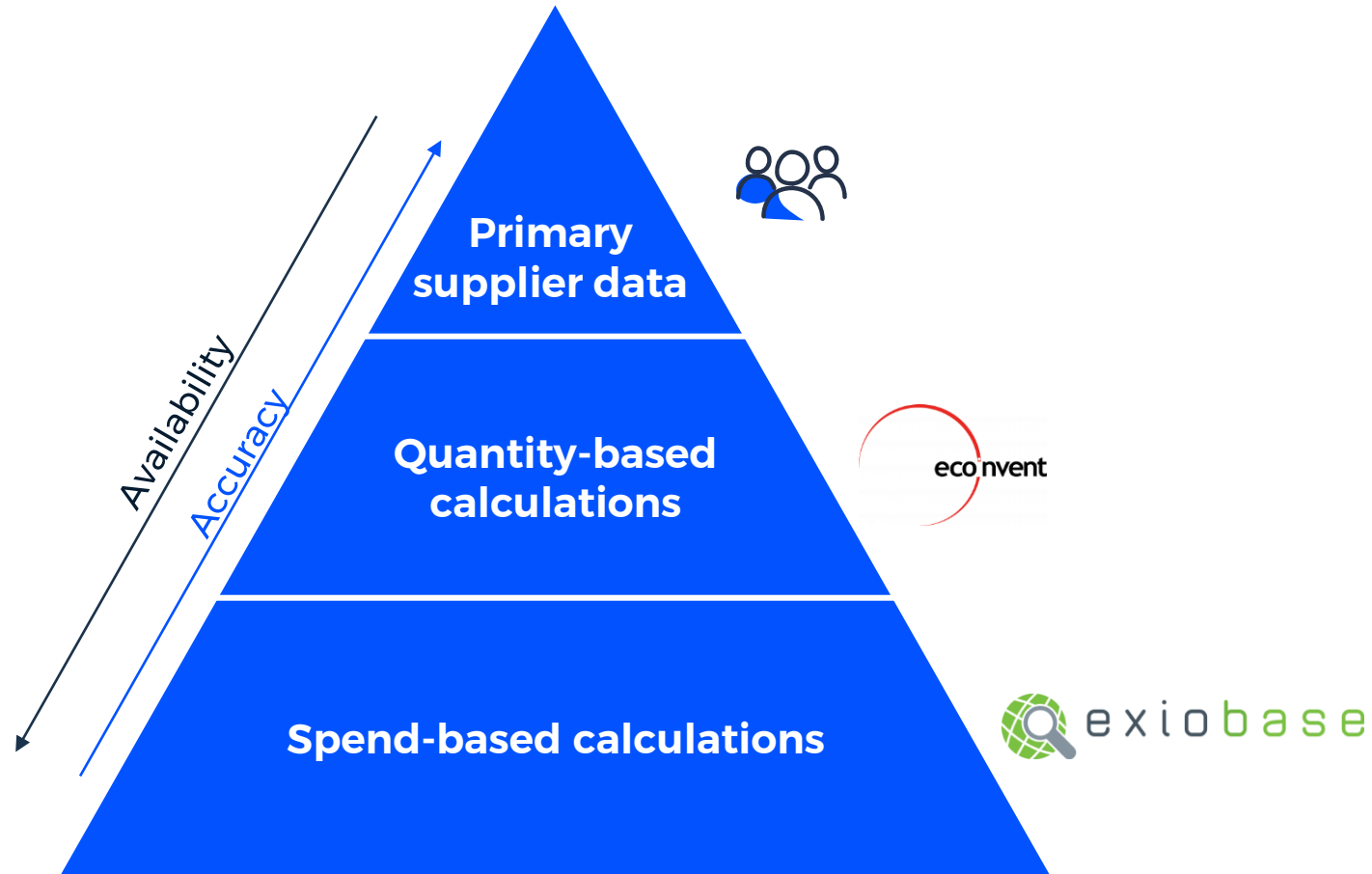
☑ Collaboration with Suppliers

☑ Up to date emission factors

☑ Latest regulation & requirement updates

Sievo's 28 emission calculation methods ensures highest reliable accuracy is prioritized every time.

	Emission factors			
	Supplier specific/custom		**Established databases**	
	Quantity	Monetary	Ecoinvent	Exiobase
Upstream activity data points				
Material + Supplier + Category	1	2	15	22
Material + Supplier	3	4	16	23
Material + Category	5	6	17	24
Material	7	9	18	25
Supplier + Category	8	11	19	26
Supplier	10	12	20	27
Category	13	14	21	28

1 = first priority

28 = last priority

We empower you for embedding sustainability into every decision.

Unlimited users

Follow targets

Discover hotspots to prioritize actions
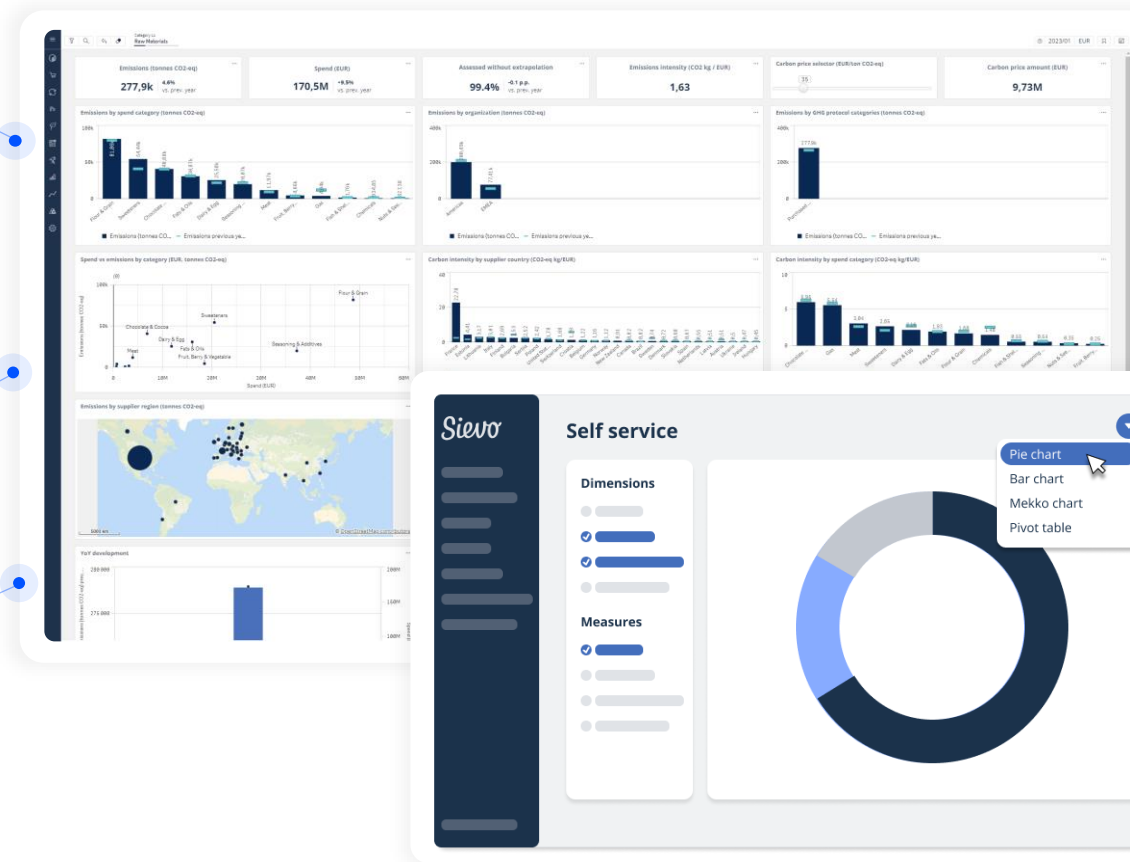
On-demand onboarding materials available

Drill down from high level to details

User friendly dashboards and charts

We are **the flexible partner** as your needs, data or requirements change.

Full control of data

Full data transparency
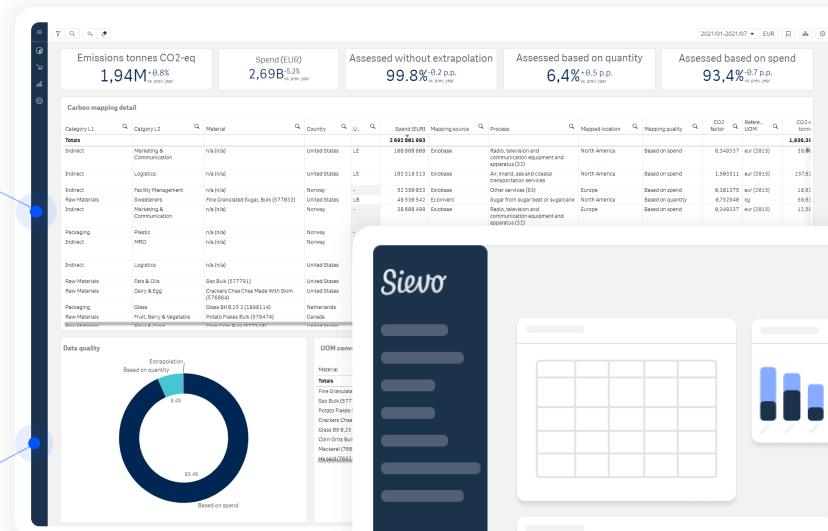
Continuous product development
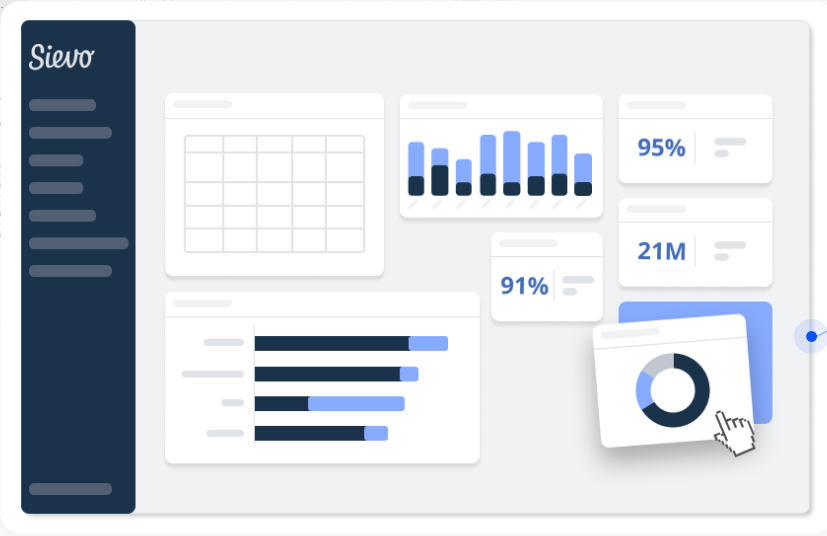
Fully customizable charts

All-in-one emissions reduction journey with Sievo

Set targets

Set SBTI (science-based targets), committing to be "net zero" by X year

Collect supplier emissions

Collaborate with suppliers (or CDP/SBTI) to get more specific emission factors

Reduce emissions

Continue, and make an impact

Calculate baseline

Calculating how much emissions are, start point of everything

Identify hotspots

Understand which categories, regions, or suppliers to focus efforts on

Start reduction initiatives

Set projects to reduce emissions

All-in-one emissions reduction journey with Sievo

Set targets

Set SBTI (science-based targets), committing to be "net zero" by X year

Collect supplier emissions

Collaborate with suppliers (or CDP/SBTI) to get more specific emission factors

Reduce emissions

Continue, and make an impact

Calculate baseline

Calculating how much emissions are, start point of everything

Identify hotspots

Understand which categories, regions, or suppliers to focus efforts on

Start reduction initiatives

Set projects to reduce emissions

Track & turn reduction initiatives into action

With our Carbon Reduction Tracker in Sievo Savings Program Management**
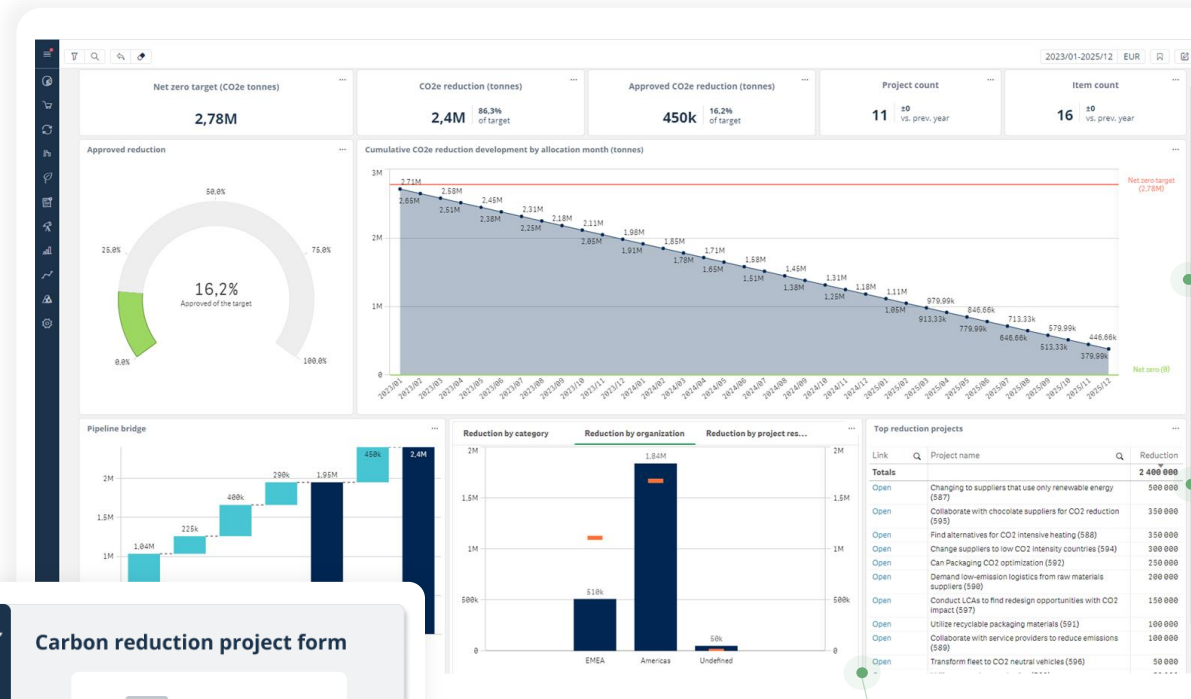
Track forecasted emissions reduction progress

Collect & prioritize reduction projects

Gain transparency to carbon reduction initiatives

Accelerate execution with globally harmonized project structure

Easy stakeholder collaboration via built-in approval workflow

Easily report realized reduction targets to stakeholders in real-time

** Separate fee

With Sievo | CO2 Analytics

We enable | you to become **compliant**.

We give | you **more time** to focus on the actions that matter.

We empower | you for embedding sustainability **into every decision.**

We are the flexible partner | in your **growth journey** as your needs, data, or requirements change.

Our sustainability and analytics expertise | gives you **the competitive upper hand.**

Target Tracking

Coming H2 2023

Bubbling under

Supplier Engagement

Request emissions directly from suppliers and start emission reduction projects together
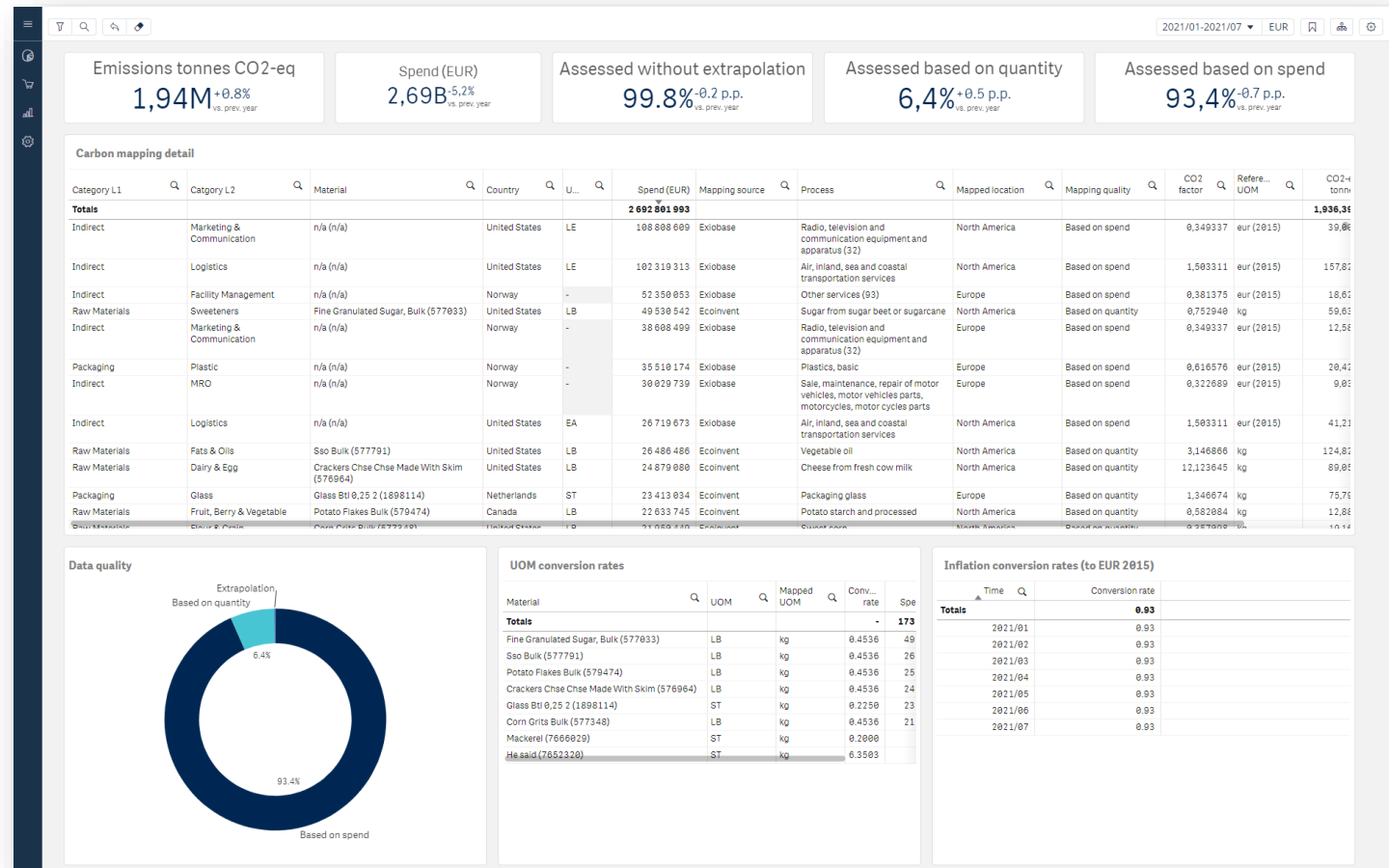
Future vision
Subject to change

Sievo CO2 Analytics dashboard example

Confidential © Sievo
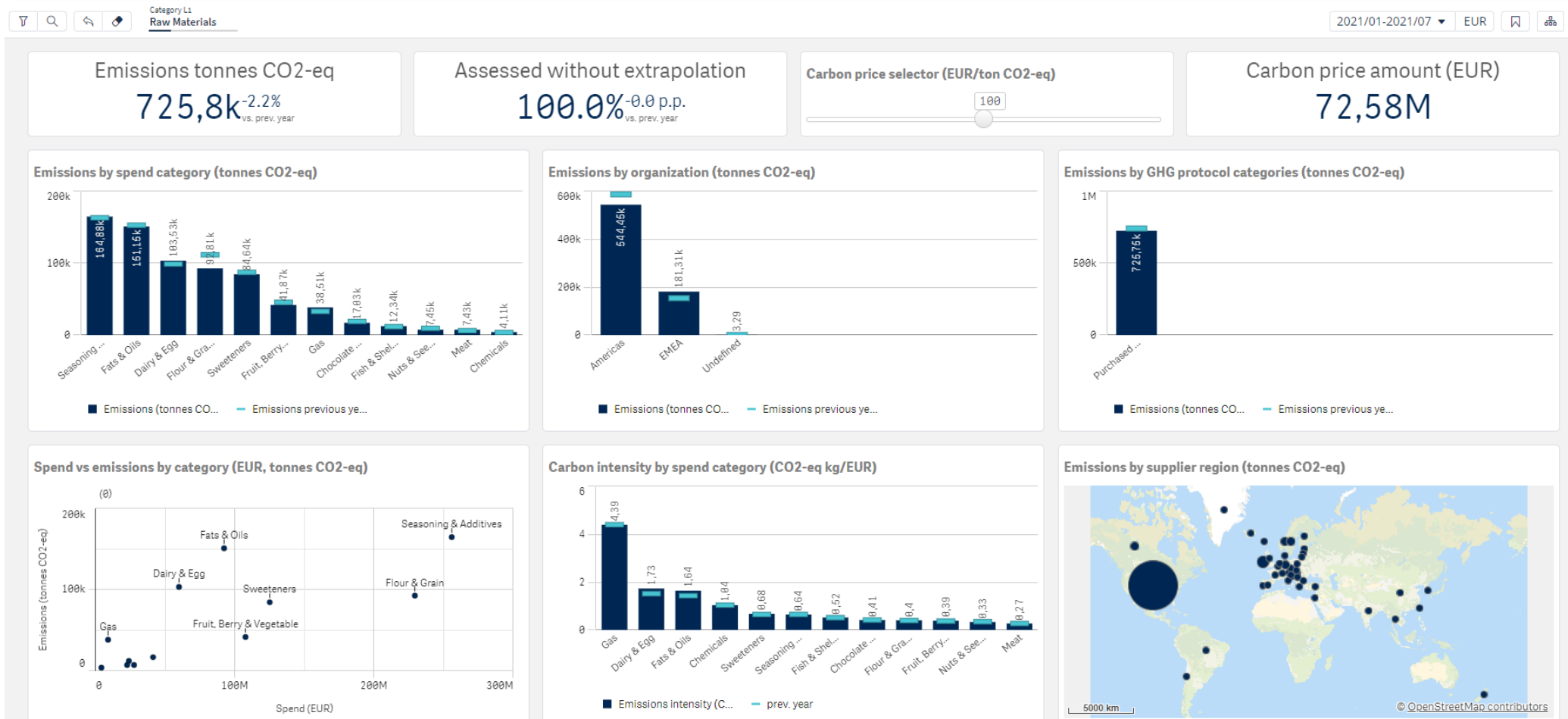
Understand the underlying data

In the calculations, all relevant information such as inflation, unit of measurement, and currency rate conversions are taken into account, and you are provided with full visibility

# Example: Finding hotspots and opportunities for reductions

Tanya, a sustainability manager, has committed with their team to set a science based target to reduce emissions to become net zero in 2035. Now they need to identify where these emissions are coming from. They slice and dice the data to find that a lot of the emissions are coming from the packaging category, and that the category is more carbon intense in Americas than in EMEA. They identify the key supplier, and contact them to find more information on their emissions to start reduction initiatives.
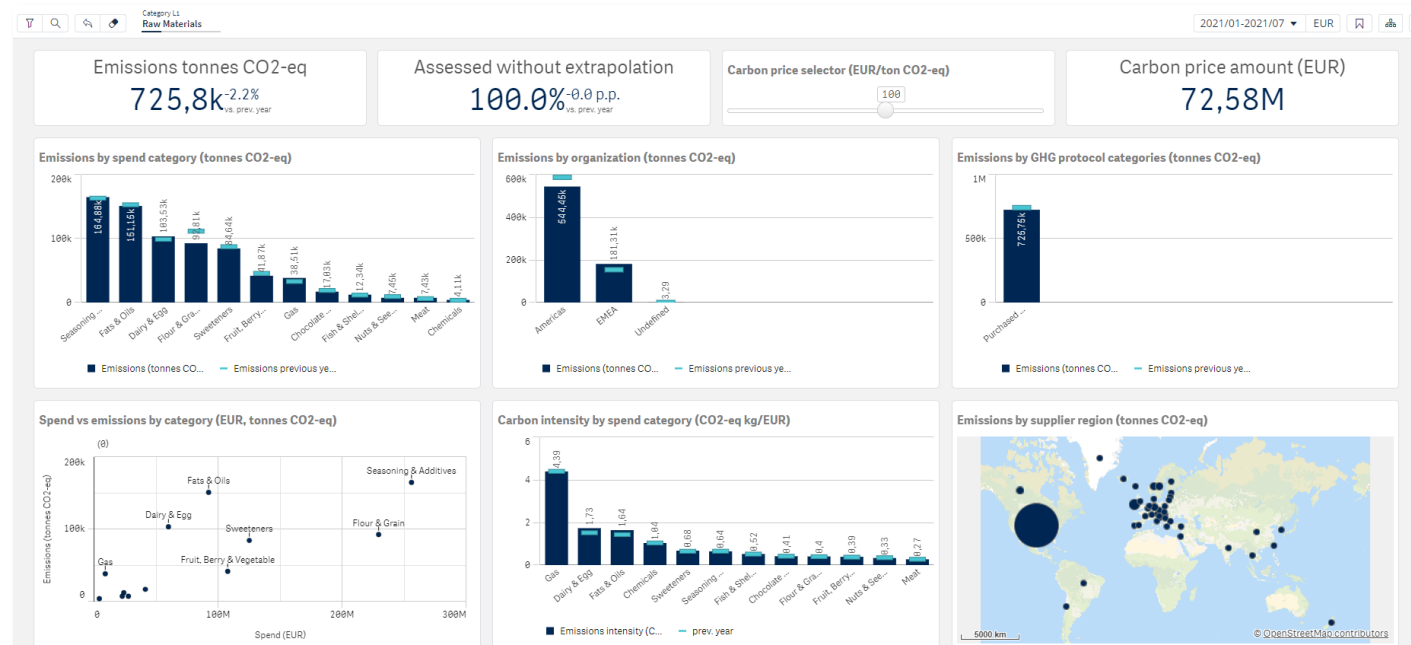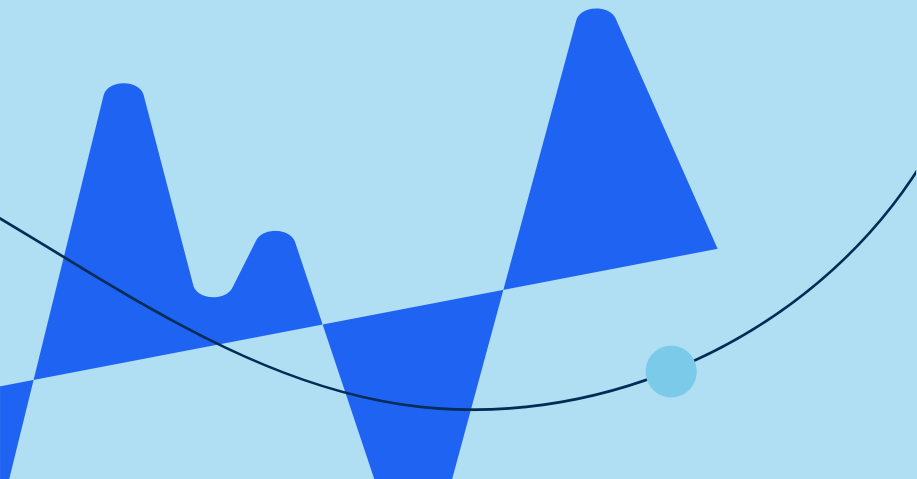
"**"It's just mind-boggling that the emissions data is all just there, so fast and so easy. The purchased goods and services category has been a real headache for us, so this is a huge win.""**
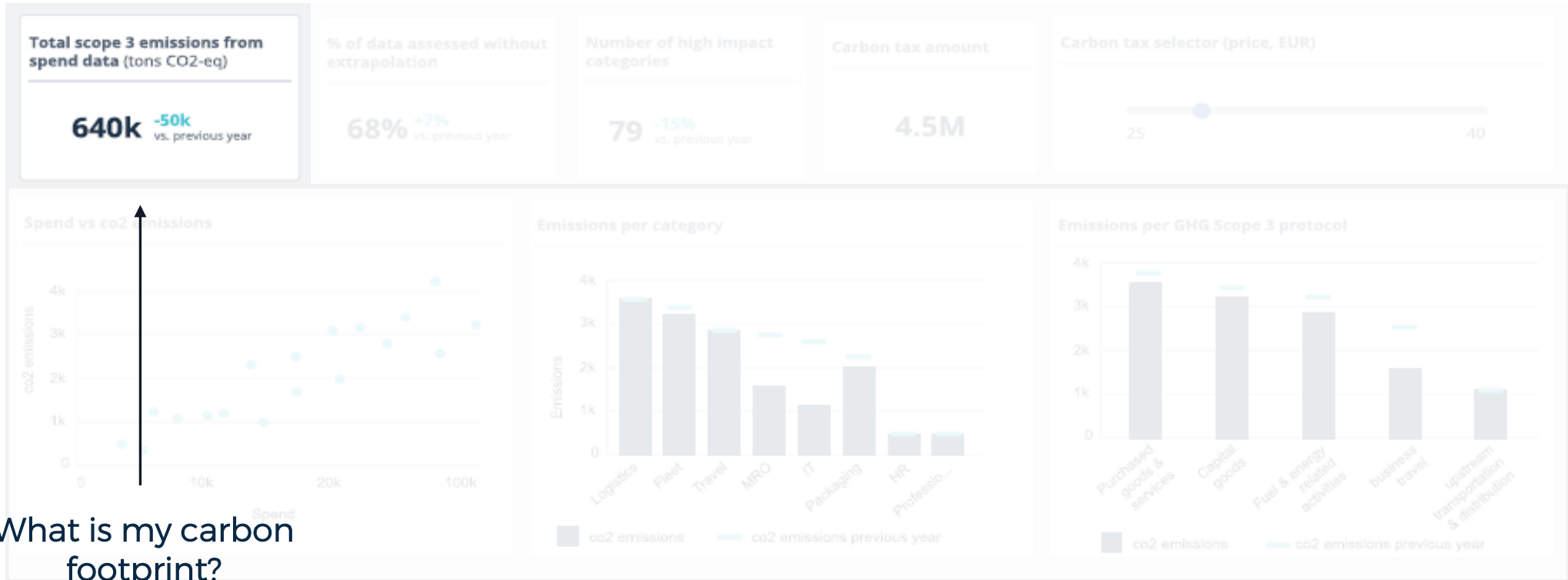
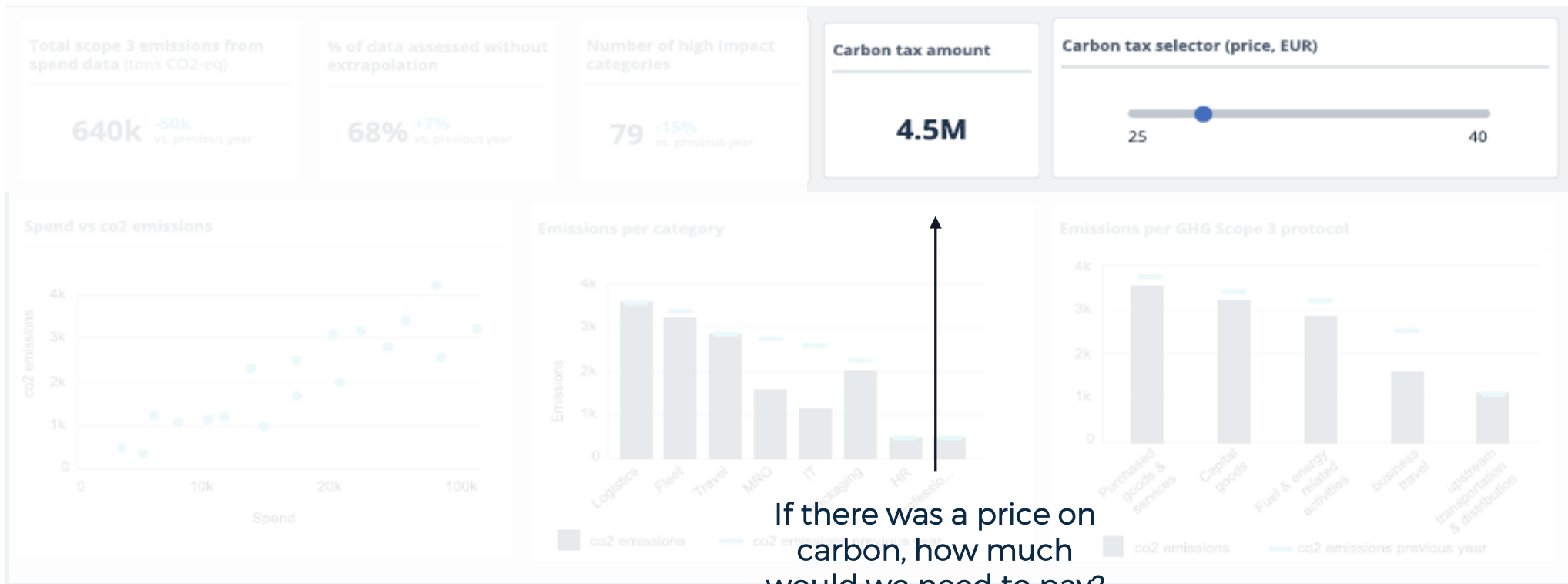- Sustainability manager at a US company
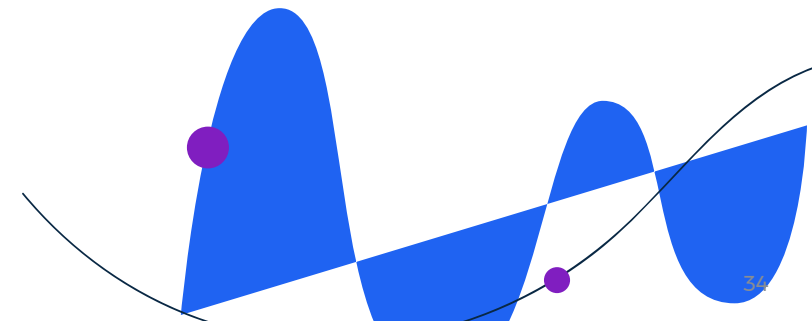
What does the tool look like?

Dashboard gives holistic view of emissions
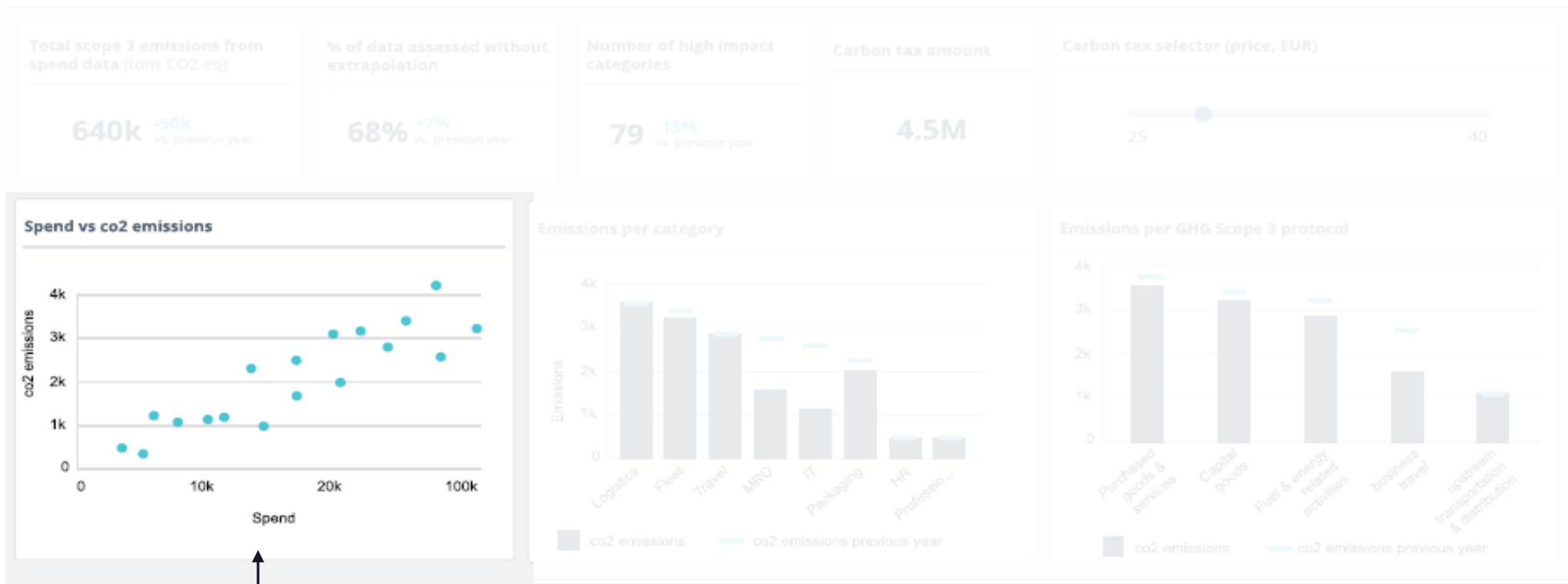

What is my carbon footprint?

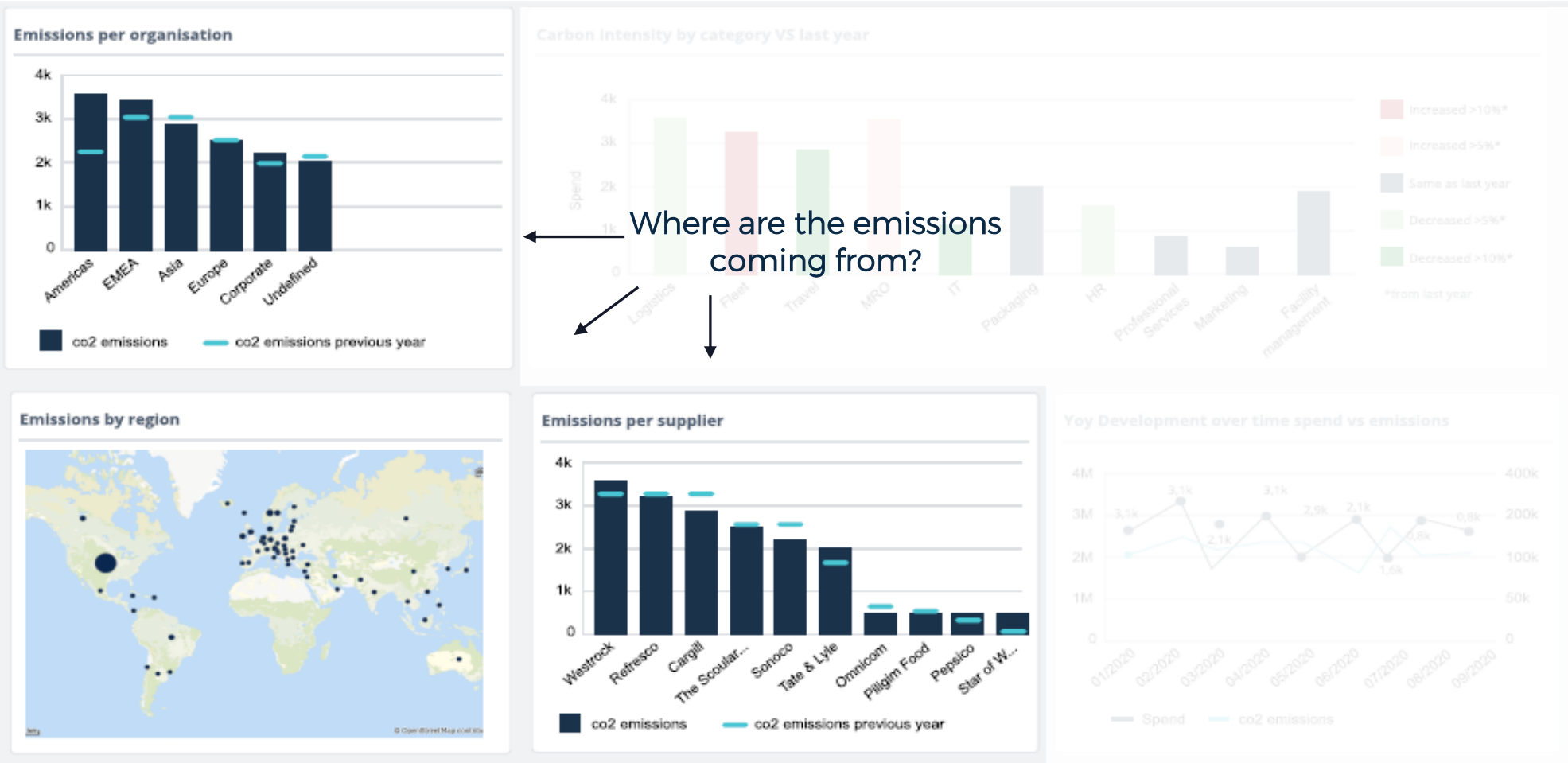# Dashboard gives holistic view of emissions

If there was a price on carbon, how much would we need to pay?

Dashboard gives holistic view of emissions

Which categories are the
most carbon intense?

Confidential © Sievo

Dashboard gives holistic view of emissions

Emissions per organisation

■ co2 emissions — co2 emissions previous year

Carbon intensity by category VS last year

Where are the emissions coming from?

Emissions by region

Emissions per supplier

■ co2 emissions — co2 emissions previous year

Yoy Development over time spend vs emissions

Dashboard gives holistic view of emissions

Which category is improving, and which is doing worse?

Dashboard gives holistic view of emissions...

How am I doing against my targets?

...and full access to the data to make improvements

With Sievo **CO2 Analytics**

We enable you to become **compliant**.

We give you **more time** to focus on the actions that matter.

We empower you for embedding sustainability **into every decision.**

We are the flexible partner in your **growth journey** as your needs, data, or requirements change.

Our sustainability and analytics expertise gives you **the competitive upper hand.**

Now,
it's your turn