

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.



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The 4 benefits of out-of-the-box dashboards





- 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

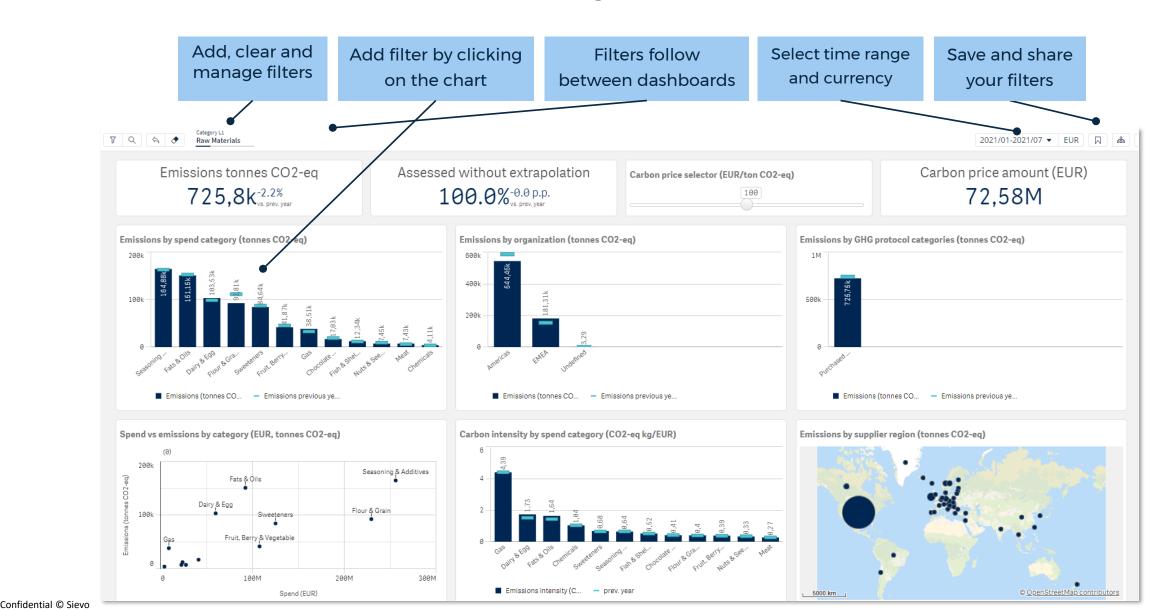
- Self-service functionality brings a lot of flexibility
- Best way to get started before creating custom dashboards



Development & training

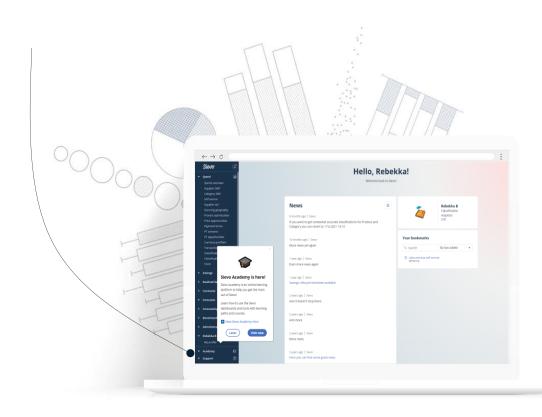
- Out-of-the-box dashboards are continually developed
- Ready-made training material

Sievo actionable analytics



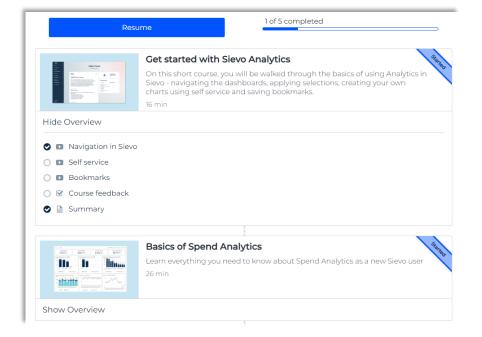
Sievo Academy

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



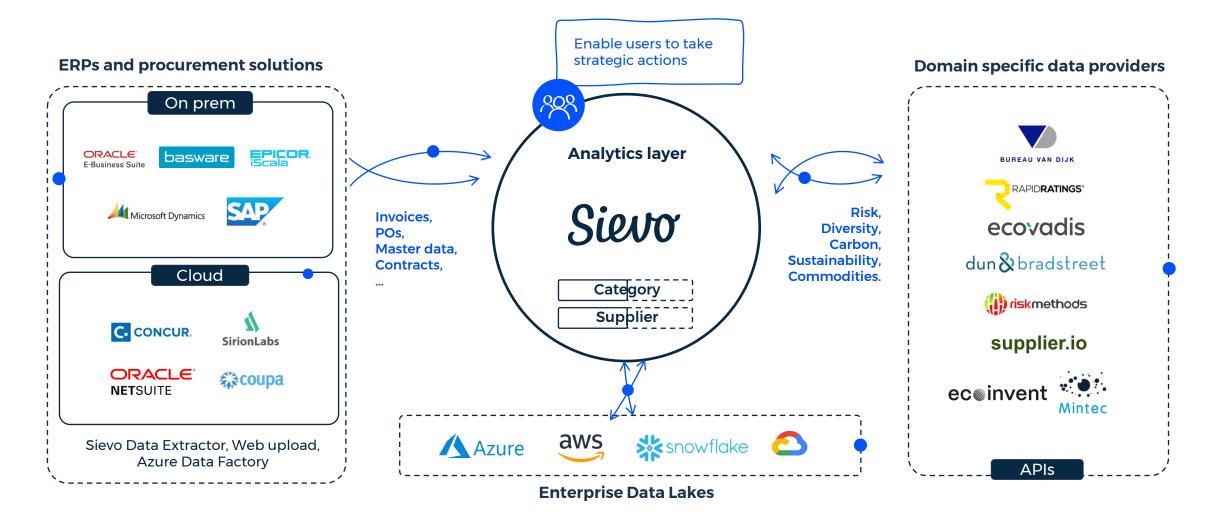
Resources for both new and experienced users, covering all solution areas

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



Sievo Sustainability Information Hub

Combining data for insights



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



- 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



Spend analytics and CO2 analytics in short

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



CO2 analytics

The details



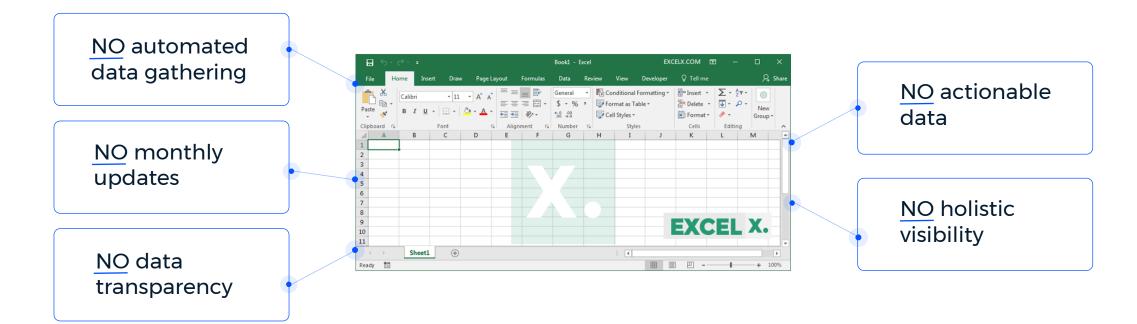
How does the tool work?



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



Common challenges in measuring supply chain emissions

Limited to annual reporting

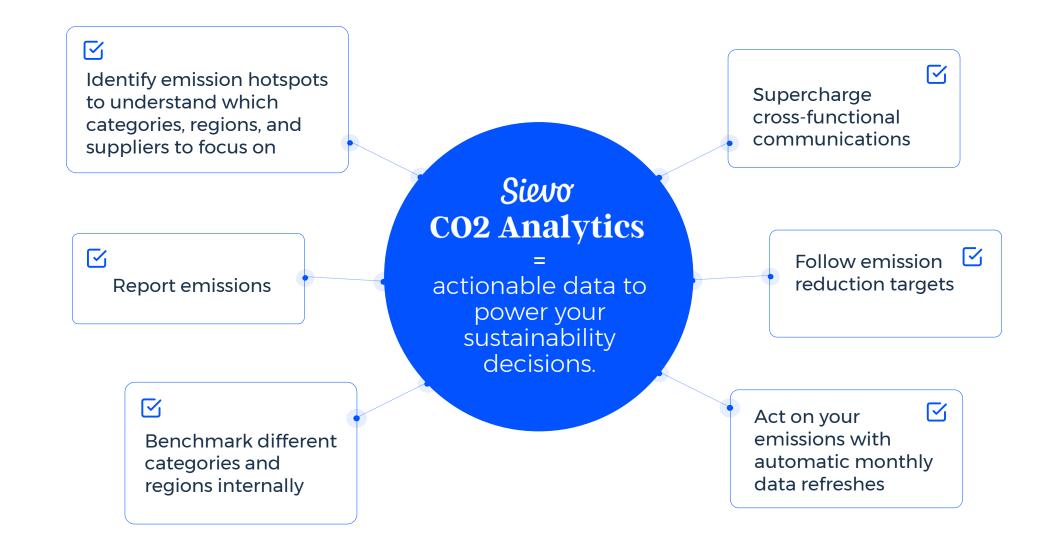
Inaccurate data

Lack of visibility

Very manual process

Lack of engagement

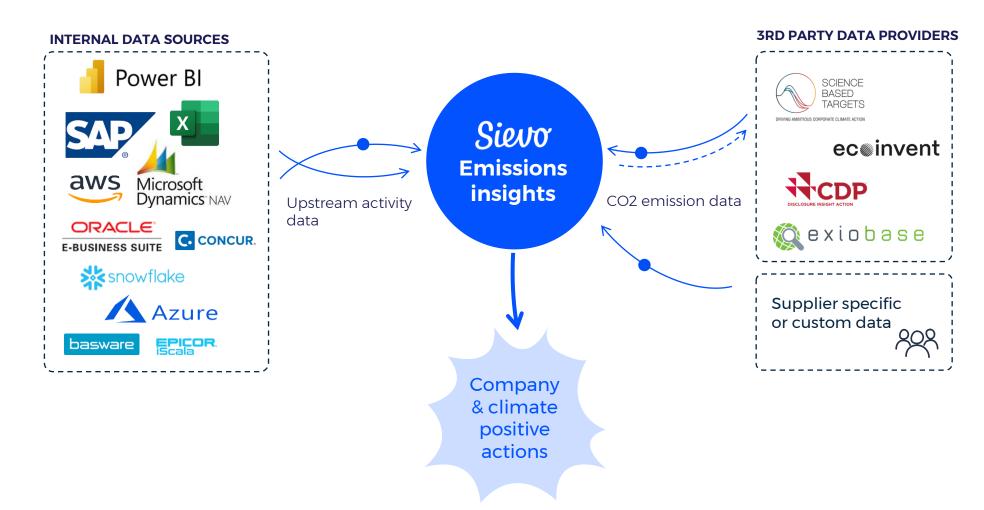
Not yet started



Emissions is the new currency



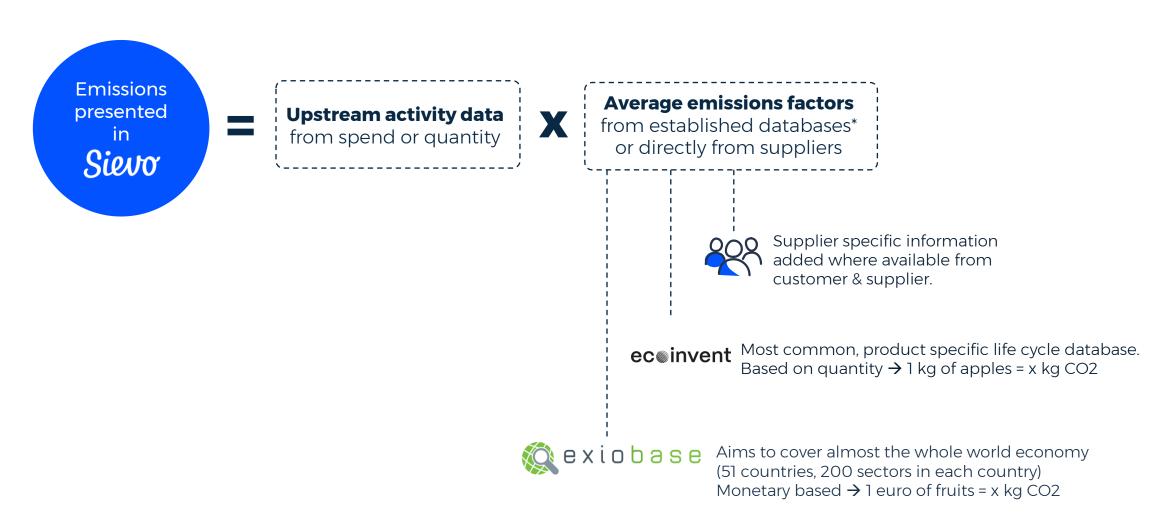
We can combine data from any source you need.



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.



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	*	Skimmed milk, from cow milk	Ecoinvent	France	
Dairy	Milk	Denmark	kg	*	Skimmed milk, from cow milk	Ecoinvent	Denmark	
Dairy	Skimmed milk powder	France	kg	*	Skimmed milk, from cow milk	Ecoinvent	France	
Dairy	Lactose	United States	kg	*	Lactose	Ecoinvent	United States	
Dairy	Whey	United States	kg	*	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

*Ecoinvent licensing limits the display of emission factors in Sievo's 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

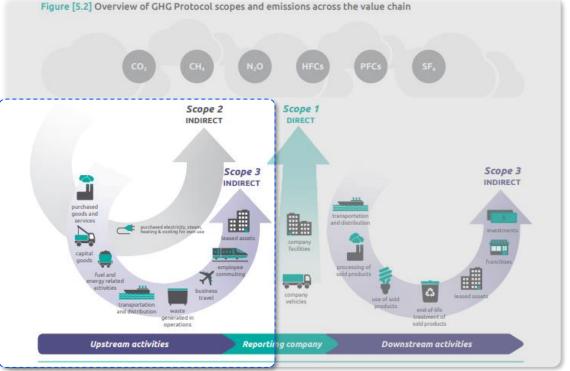
Read full case study here.

We enable you to become compliant.

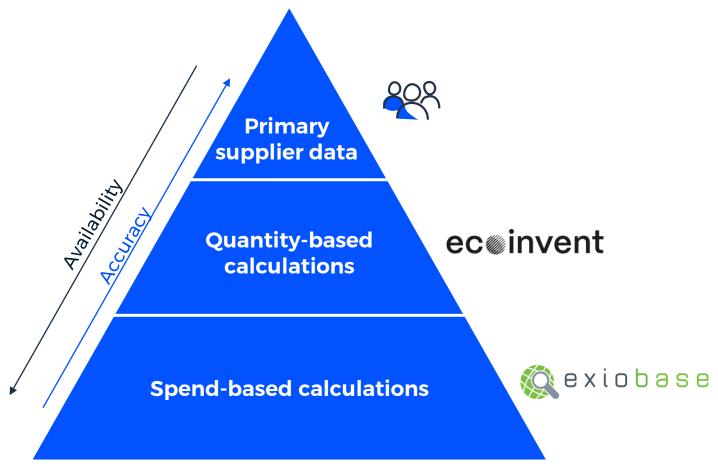
- Verified by one of the big four accounting firms
- Assurance statement ready
- Science-based calculations
- Calculations according to GHG protocol
- Unique 28 step prioritization approach

Sievo calculates a carbon footprint for all of your upstream activity data.





Continuously develop emission mappings and improve accuracy over time directly in Sievo.



- Collaboration with Suppliers
- Up to date emission factors
- Latest regulation & requirement updates

Sievo Supplier material emissions Questionnaire

Introducing the Supplier material emissions

Questionnaire - the ultimate tool for effortlessly
gathering emission factors and related information
directly from suppliers.

This questionnaire allows Sievo users to inquire about their suppliers' material-level emission factors. In the future, you will be able to request also operative emissions and e.g. emission reduction efforts through a set of standardized questions.

Supplier responses can be reviewed and validated in Sievo after which the data seamlessly integrates into the emissions analytics platform, providing real-time insights for informed decision-making.

Emission reporting

Calculation method details

Specify the default values here. These will be automatically applied to all material rows below. Modify individual rows by overriding the values if the materials have unique calculation methods.



Material specific details

If any values are unavailable, simply uncheck the corresponding row.

	Material Q ♦	Emission fact	
~	365091 - Plastic housing, mod 3006	0,8	

How the questionnaires work



Create a new questionnaire from the Supplier questionnaire menu under CO2 emissions in Sievo.

Select or search for the supplier from the list of suppliers. Give their contact details and add your custom message.

Select the materials you wish to ask details for. Sievo automatically fetches all the materials based on the master data.



Send the questionnaire forward - the supplier is then tasked with providing the most accurate data they have available.

In case they don't have certain emission factors, they can decide not to provide data for certain materials or leave some additional details empty. **Make sure to review the responses in Sievo**.

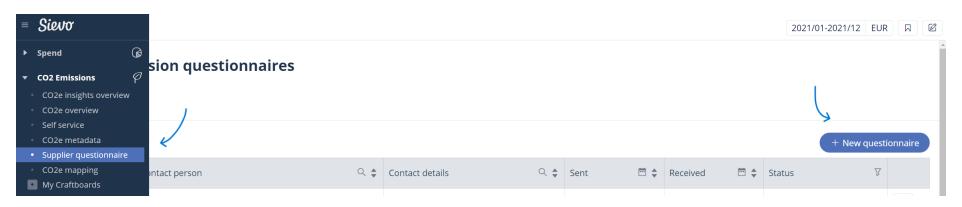


Once completed the questionnaire is sent back to Sievo where you will be tasked to either **confirm** or **reject** the emission factor for each material.



Approved emission factors will be created as CO2 mapping suggestions in the CO2 mapping tool.

Once the new CO2 mapping suggestions are approved, they will automatically be applied in all CO2 calculations in Sievo going forward during their validity period.



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

Itizea ev	rely tille.	Quantity	Monetary	Ecoinvent	Exiobase
	Material + Supplier + Category		2	15	22
	Material + Supplier	3	4	16	23
	Material + Category	5	6	17	24
Upstream activity data points	Material	7	9	18	25
data points	Supplier + Category	8	11	19	26
	Supplier	10	12	20	27
	Category	13	14	21	28

Emission factors

Established databases

Supplier specific/custom

^{1 =} first priority

^{28 =} last priority

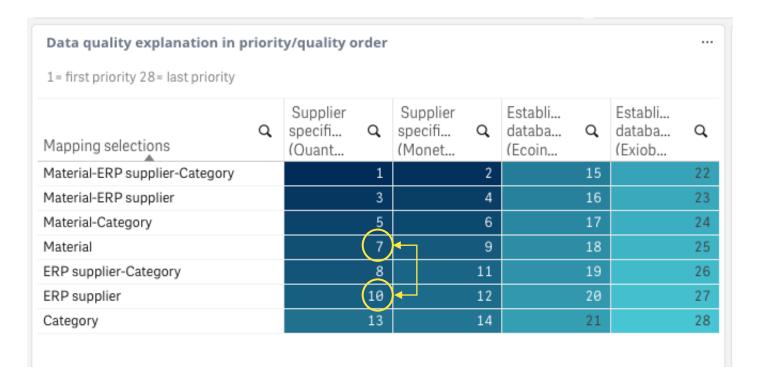
Custom priority order

While Sievo's 28 emission calculation methods provide the highest reliable accuracy, we want to offer more flexibility by providing the possibility to customise the calculation prioritisation order.

For example, if supplier-specific mappings are considered more precise than material-specific mappings, it is possible to adjust the prioritisation accordingly.

How to set up a custom priority solution? Contact your Sievo representative.

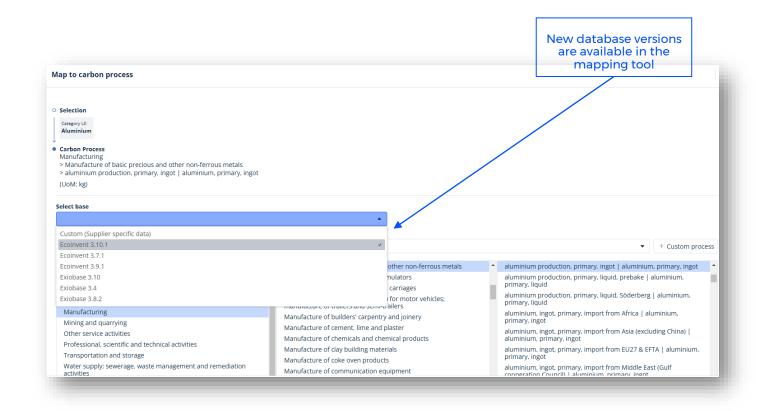
Please note that the calculations will be changed throughout history, for the entirety of the reported data.



Database update

Sievo updates Exiobase and ecoinvent databases regularly to provide users with reliable and up-to-date emissions data

- Both Exiobase and ecoinvent release new database versions every year and they are made available through database update
- Each new version provides latest available emissions data and ecoinvent also introduces new emission processes with each update







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What are the benefits of database updates?



New emission processes

 New emission processes are added with each new ecoinvent version → more options to support mapping decisions



Up-to-date emission data

 Most recent emission data added through database update -> more accurate emission factors and less uncertainty related to inflation correction



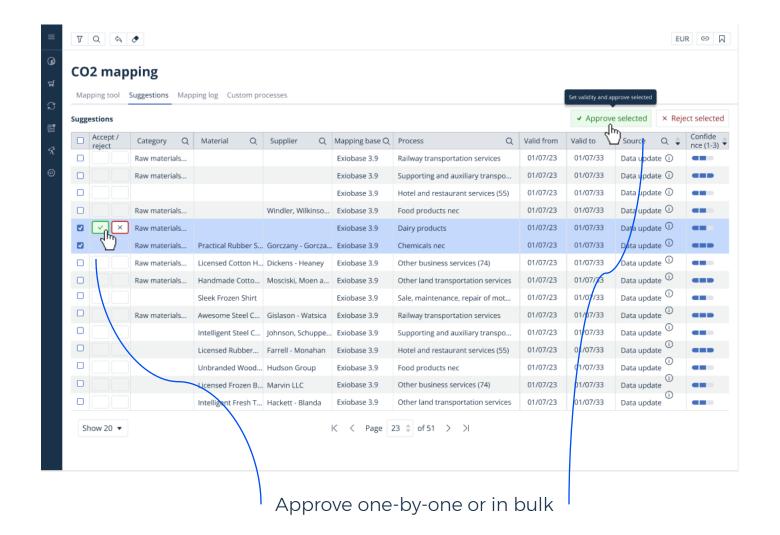
Multiple database versions

 Possibility to choose between database versions → cover spend data with adequate timeline with selection of database version

Mapping suggestions

Enhanced data quality is just a few clicks away with our mapping suggestions. On this page, you'll discover mapping suggestions created by Sievo. Currently, all our suggestions stem from database updates, but stay tuned for the upcoming addition of Al-generated data enhancement suggestions.

The confidence levels, graded on a scale from 1 to 3, provide an approximation of the confidence associated with each suggestion. For example, a 1-to-1 match carries a level 3 confidence rating, signifying a 100% certainty.



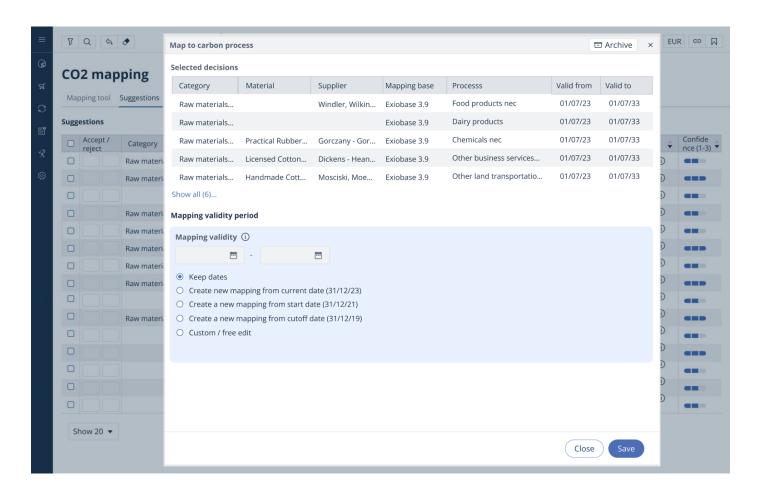
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Mapping suggestions

Approving a mapping suggestion

To create a mapping out of the suggestion, you need to set the validity period. This works the same way as when creating mappings.

You can either keep the existing dates or set new validity dates by creating a new mapping from current, start or cutoff dates. You can also set custom dates for the validity.



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Filtering in Mapping log & Custom processes

New filtering options

New filters are available in Mapping log allowing filtering based on validity periods of mappings. New *Last updated* column is also introduced to help track the latest changes in mappings.

Same filters and Last modified column is also added for Custom processes tab.

Custom processes with emissions set to zero are displayed as 0 instead of empty cells.



Filtering available based on Valid from and Valid to dates

Not only do your emissions matter.

In addition to measuring your own emissions, you can follow your supplier's emission reduction targets.

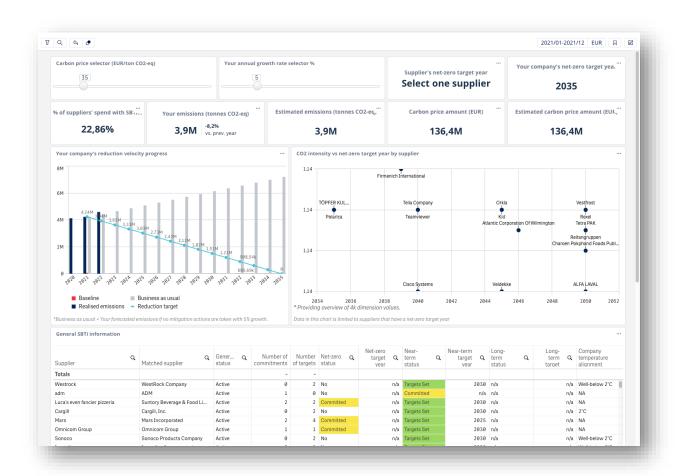
Sievo brings transparency to your supplier's targets by combining science-based targets with your spend data.

Science-based targets initiative (SBTi)

Science-based targets provide companies with a clearly-defined path to reduce emissions in line with the Paris Agreement goals. More than 4,000 businesses around the world are already working with the Science Based Targets initiative (SBTi).

More about SBTi: https://sciencebasedtargets.org/

Note: SBTi data will be available when the new supplier service is taken into use



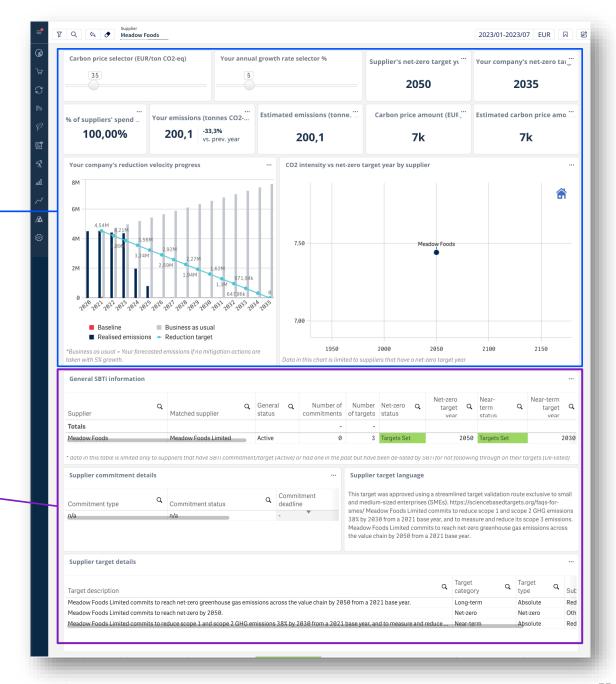
Monitoring targets

Your targets

Set scenarios and follow your emission reduction and carbon price forecast by adjusting the estimated carbon price, your target year and your annual growth.

Your supplier's targets

Identify carbon-intense suppliers with no targets or with targets far in the future.



We empower you for embedding sustainability into every decision.



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



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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

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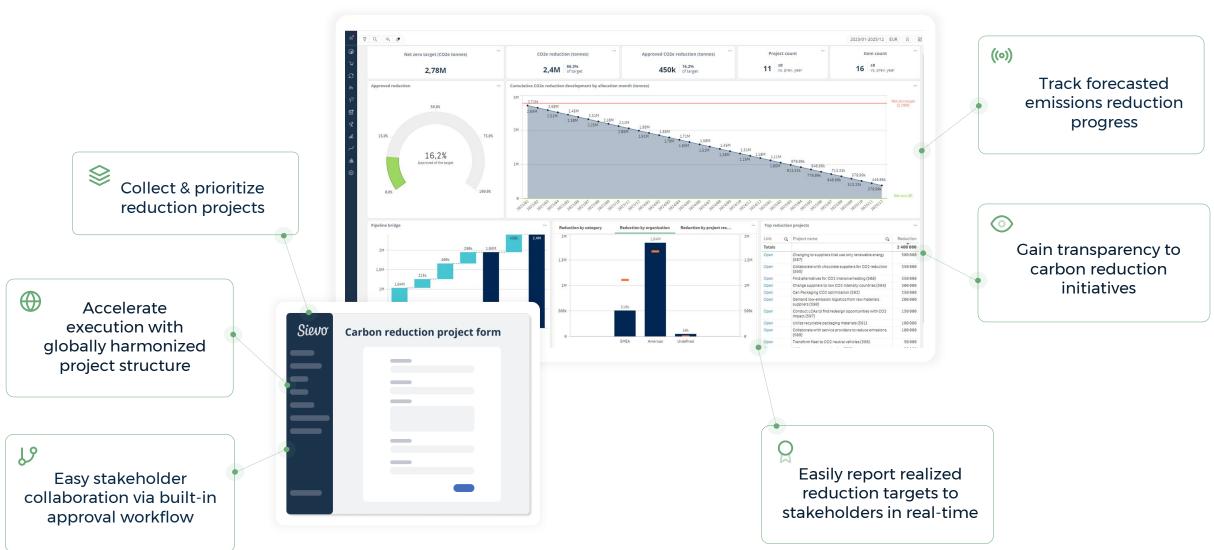
Understand which categories, regions, or suppliers to focus efforts on

Start reduction initiatives

Set projects to reduce emissions

Track & turn reduction initiatives into action

With our Carbon Reduction Tracker in Sievo Savings Program Management**



With Sievo CO2 Analytics

We enable you to become **compliant**.

you more time to focus on the actions that matter.

We empower

you for embedding sustainability into every decision.

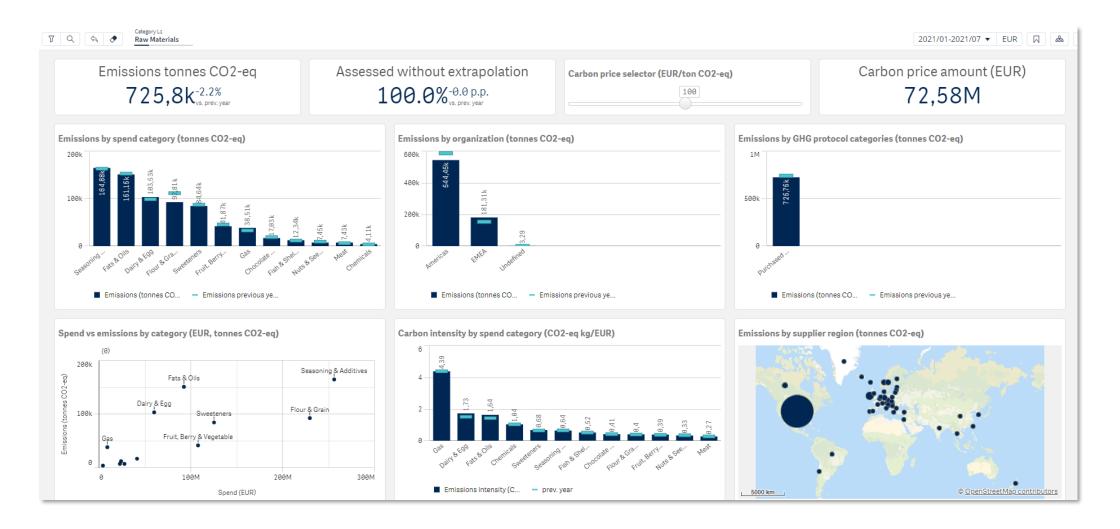
We are the flexible partner

in your growth journey as your needs, data, or requirements change.

Our sustainability and analytics expertise

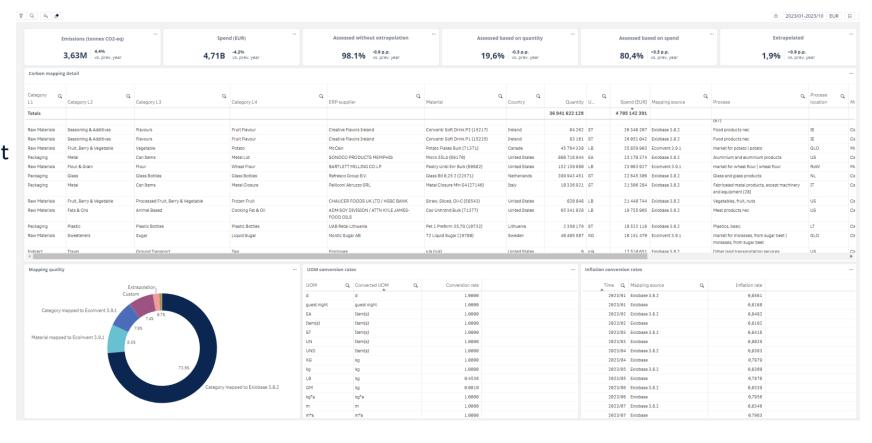
gives you the competitive upper hand.

Sievo CO2 Analytics dashboard example



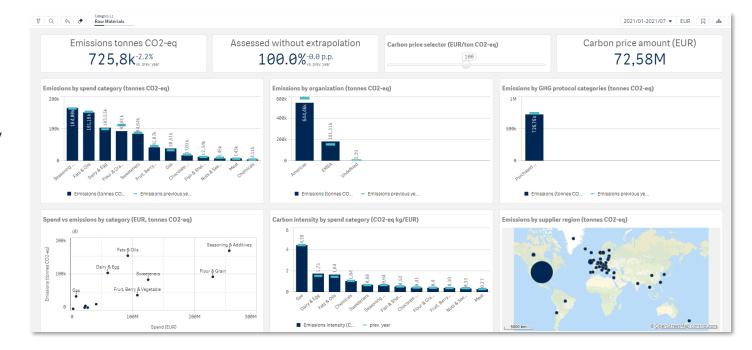
Understand the underlying data

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.



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"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?





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Which categories are the most carbon intense?

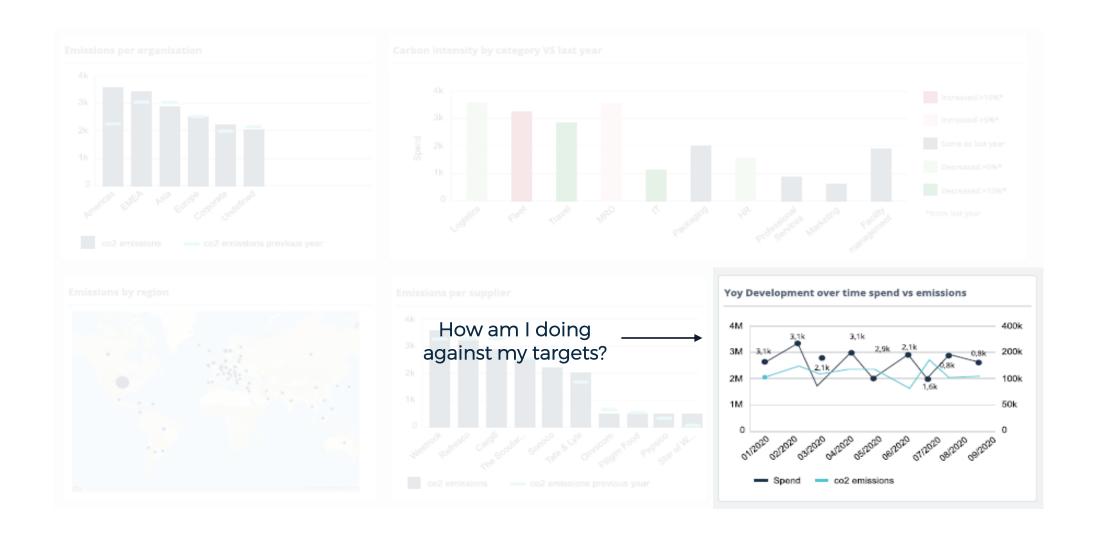
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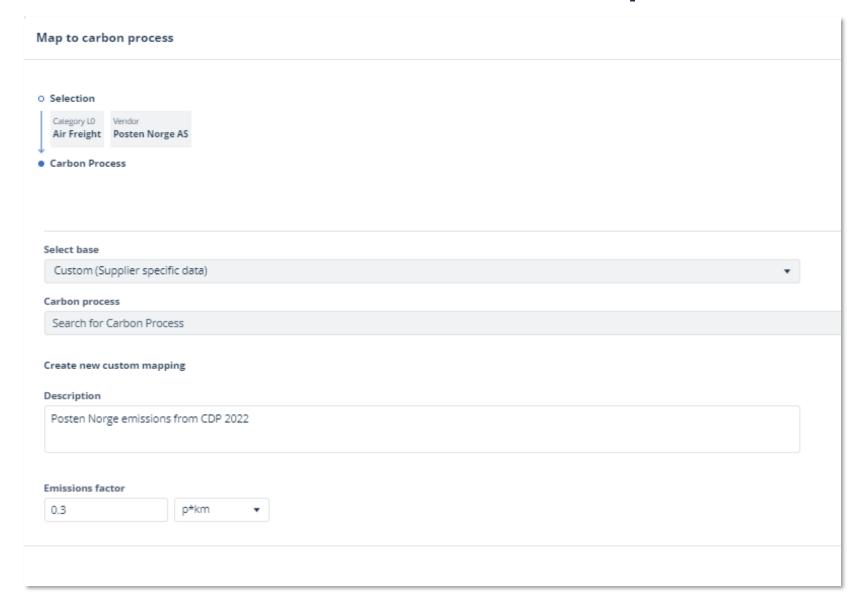
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...and full access to the data to make improvements



With Sievo CO2 Analytics

We enable you to become **compliant**.

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