

How to get a complete Scope 3.1 inventory

THE CHALLENGE: FINDING THE RIGHT EMISSION FACTORS FOR SCOPE 3.1

Collecting accurate Scope 3.1 emissions data is vital for a complete emissions inventory. However, the complexity of supply chains and the limited availability of emissions factors pose significant challenges. Addressing these barriers is crucial for achieving progress in emissions reduction and meeting sustainability goals.

SCOPE 3.1 INVENTORY			
Product	Amount	Emission Factor	Impact
~~~~~	~~~~~	~~~~~	?
~~~~~	~~~~~	~~~~~	?
~~~~~	~~~~~	~~~~~	?
~~~~~	~~~~~	~~~~~	?
~~~~~	~~~~~	~~~~~	?
Total			

### Challenges

#### DATA GAPS AND INCONSISTENCIES

Scope 3.1 inventories often encompass thousands of different products. However, not all of these are covered by existing data sources, and the available data is frequently based on inconsistent methodologies.

#### LOW AVAILABILITY SUPPLIER DATA

Although many suppliers are developing their PCF calculations, only a few currently provide data for their products. Even then, quality and methodological consistency are often uncertain.

#### MANUAL DATA HANDLING

Without automation, companies must manually match products to emissions factors, a time-consuming and error-prone process.

## HOW CAN CARBON MINDS HELP ?



Emission Factor Mapping



Priorization of Data Gaps



Closing data gaps

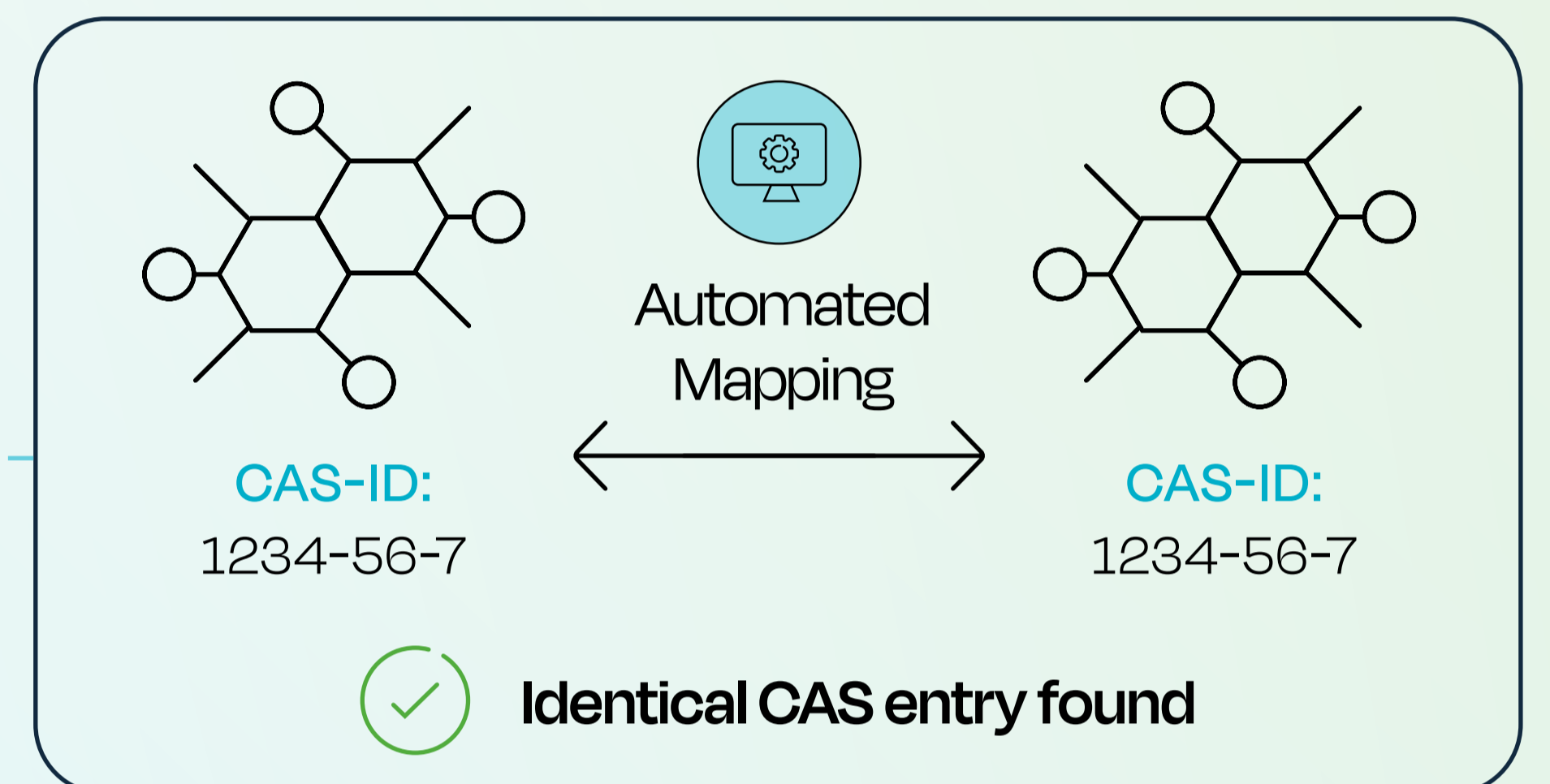
### Getting the right emissions factors

The first step in mapping data involves using CAS IDs—unique numerical identifiers for chemicals—to automatically map the products in your Scope 3.1 inventory with emission factors from the Carbon Minds database. Remaining data gaps are then addressed using two methods, depending on data quality requirements. Emission factors for high-priority products are modeled through our on-demand modeling service for higher accuracy, while low-priority gaps are filled with proxies.

### Emission Factor Mapping

#### Automated Mapping Based on CAS-IDs

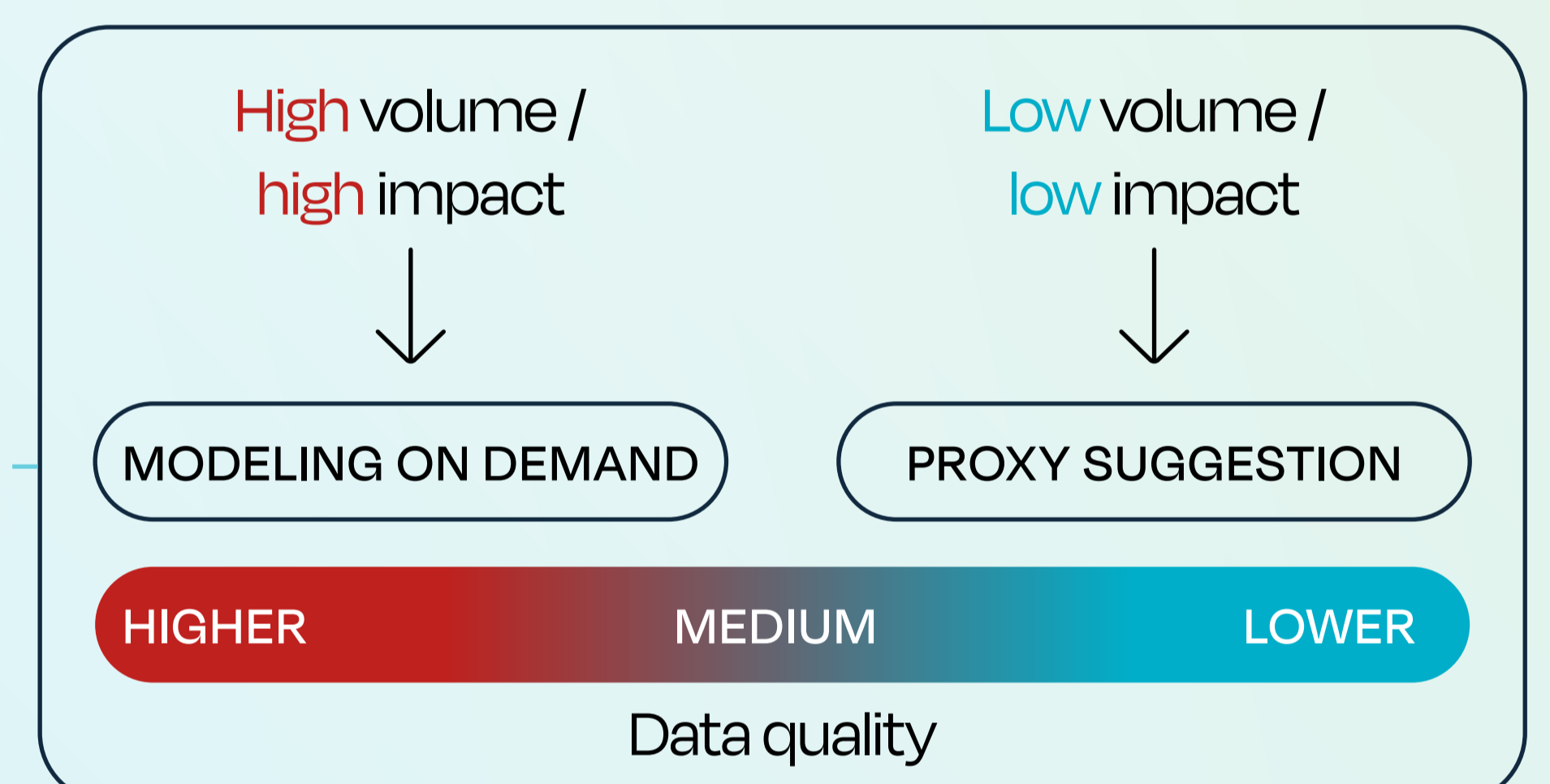
First, we identify all products in your Scope 3.1 inventory that have emission factors available in the Carbon Minds database. This mapping is based on CAS IDs, numerical identifiers for chemical substances. Remaining data gaps are addressed in the next steps.



### Prioritization of data gaps

#### Invest in data quality where it matters most

Prioritize data gaps based on their expected impact on your Scope 3.1 results. High-priority data gaps are filled using our on-demand modeling service leading to higher data quality, while low-priority gaps will be filled with proxies.



### Modeling On Demand

#### Higher Quality

With our Modeling on Demand service, we model the missing emission factors for you using our third-party certified methodology, allowing you to fill data gaps with representative data.

### Proxy Mapping

#### Lower Quality

For less critical data gaps, our proxy suggestion engine identifies the substances in our database most similar to your target based on molecular structure, quantifying the similarity. You can use these suggestions to select suitable proxies.

### Fill remaining data gaps

Take generic proxies or use spent based approach.

SCOPE 3.1 INVENTORY			
Product	Amount	Emission Factor	Impact
~~~~~	~~~~~	~~~~~	✓
~~~~~	~~~~~	~~~~~	✓
~~~~~	~~~~~	~~~~~	✓
~~~~~	~~~~~	~~~~~	✓
~~~~~	~~~~~	~~~~~	✓
Total			

5 STEPS TO FILLING SCOPE 3 DATA GAPS WITH CARBON MINDS

1

Fill out our **Excel Template** with the relevant CAS-numbers

2

We map emission factors, suggest proxies, and assess on-demand modeling feasibility

3

We schedule a joint meeting to present the results

4

Receive a quote

5

Data delivery

Ready to reduce your Scope 3 emissions with **data-driven** insights?

Reach out to us