



#### Context & situation

### Utilities are expected to start decarbonizing their supply chain because of multiple drivers

### Legal



Regulations like CSRD<sup>1</sup> make supply chain tracking a necessity

### **Financial**



Investors expect to see results on SBTi<sup>2</sup> scope 3 emissions

### **Society**



Increasing consumer demand for actions by corporates and public services

### **Employees**

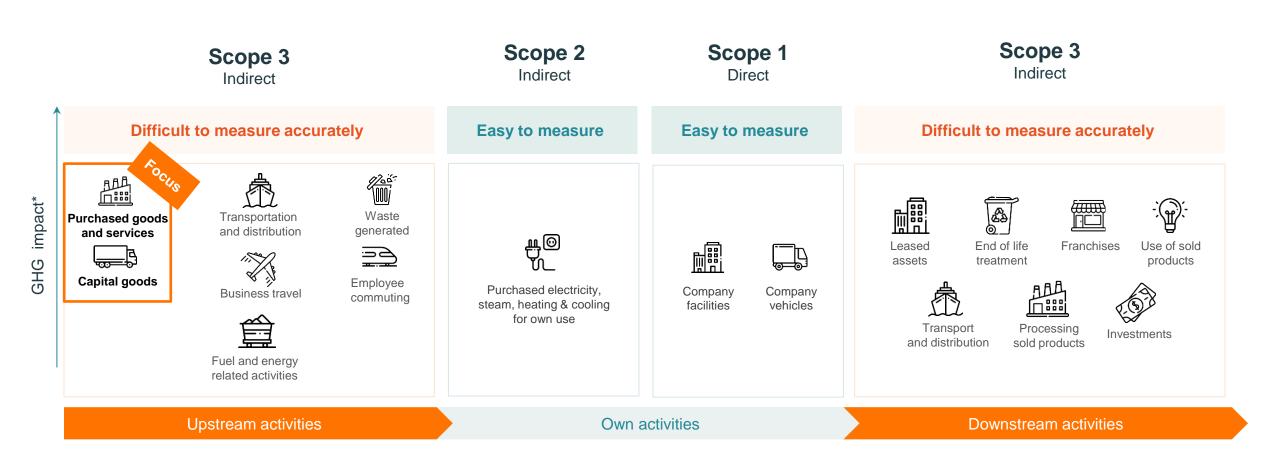


Staff expects purposedriven companies, remaining attractive for young talents



#### Context & situation

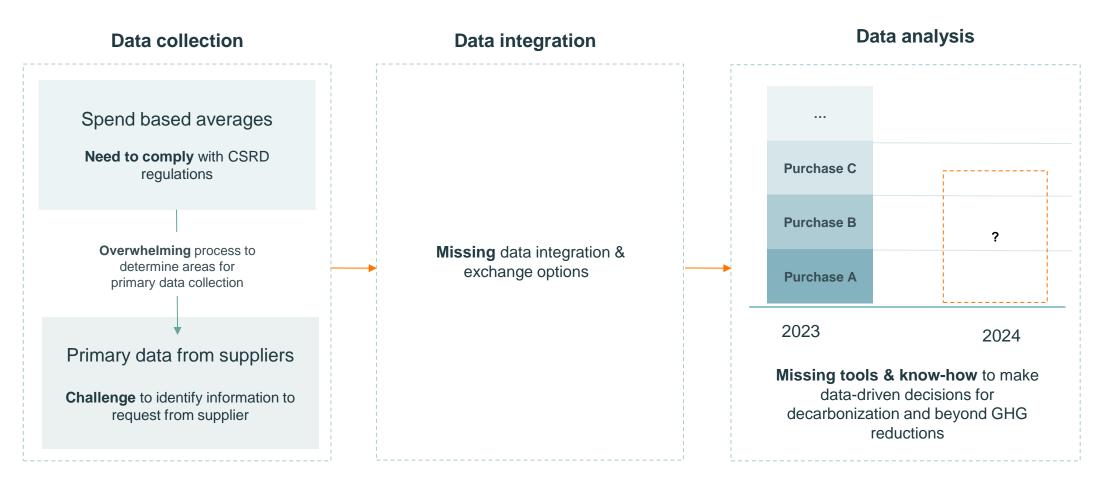
## Scope 3 – purchased goods and services & capital goods are particularly important for utilities but very difficult to measure





#### **Problems**

## Major challenges exist in data collection, data integration and data analysis on the journey towards decarbonization and beyond





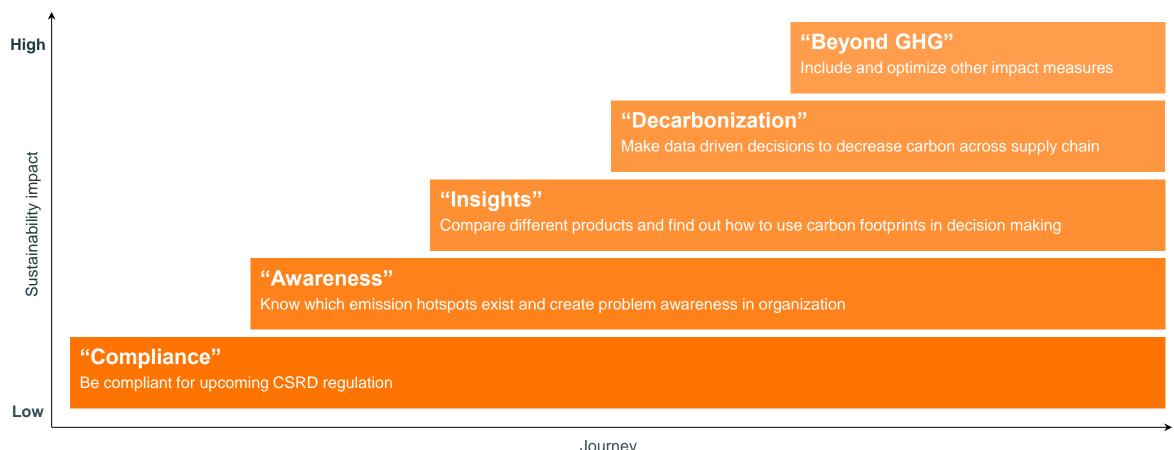
The challenges





Structure & approach

## Five maturity levels can be distinguished on the journey towards decarbonization and beyond



Journey



Need to comply with CSRD regulations | Missing data integrations & exchanges

## Foundation for CSRD compliance can be laid by using spend based emission accounting

Scope 3 estimations based on spend based emission factors for "power cables"

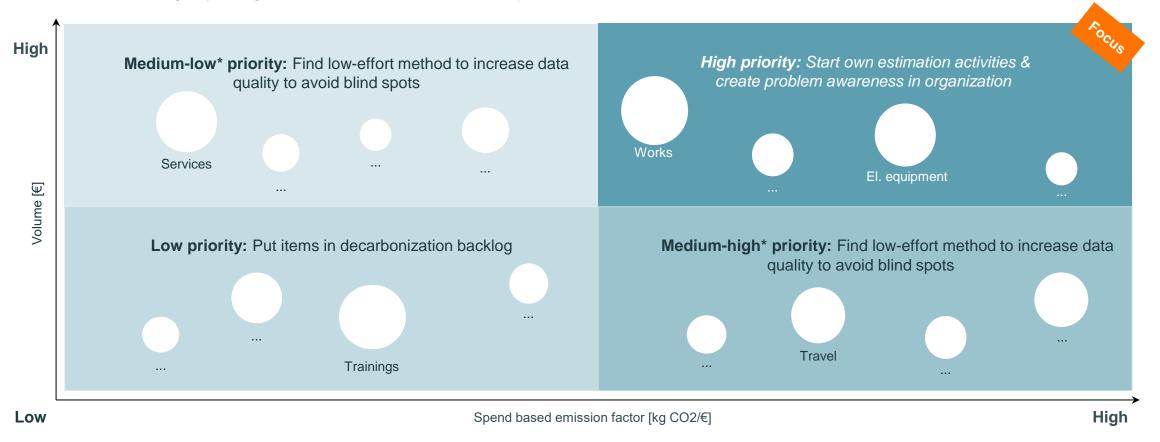
Spend hierarchy	Volume 2023 [€]	EM. factor [kg CO <sub>2</sub> /€]	Source	Scope 3 [t CO <sub>2</sub> ]	What? Spend based emission factors are averages that estimate emissions of product groups
Power cables	600.000	3,48	EM. factor "machines"	2.088	
Power cable A	300.000	3,48	EM. factor "machines"	1.044	Why? By using spend based factors, Scope 3 em can be estimated which sets foundation for CSRE compliance
Power cable B	200.000	3,48	EM. factor "machines"	696	How? Estimates can be derived from different databases like "DEFRA" but do not allow
Spare parts	100.000	3,48	EM. factor "machines"	348	decarbonisation!  CSRD requires a clear roadmap to move away from spend-based accounting towards more accurate of the spend-based accounting towards accounting the spend-based accounting the spend-b



Overwhelming process to determine areas for primary data collection

# Relevant categories where to collect data and dedicate resources become apparent by assessing materiality of spend categories

Matrix indicating key categories for next decarbonization steps

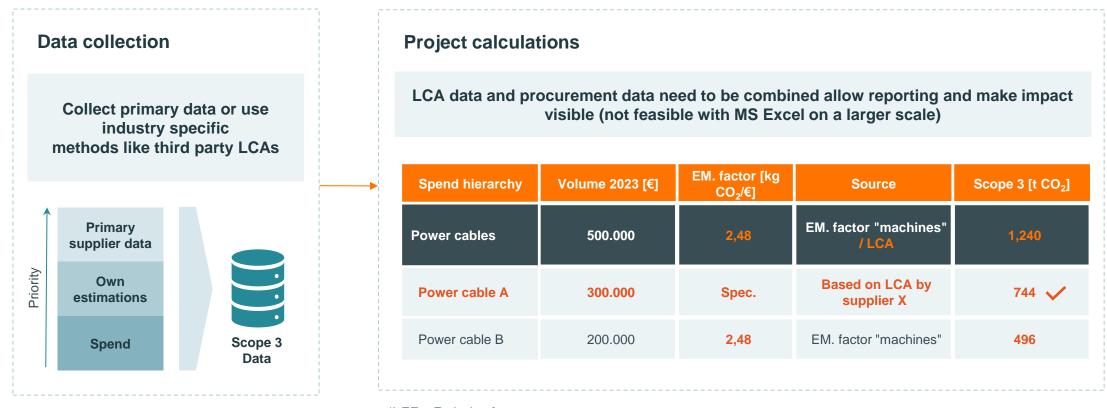




Challenge to identify information to request from supplier | Missing data integrations & exchanges

## To get accurate footprints, primary data & industry-specific methods are needed for calculations

Calculations example for power cable A (to be carried out for all purchases)



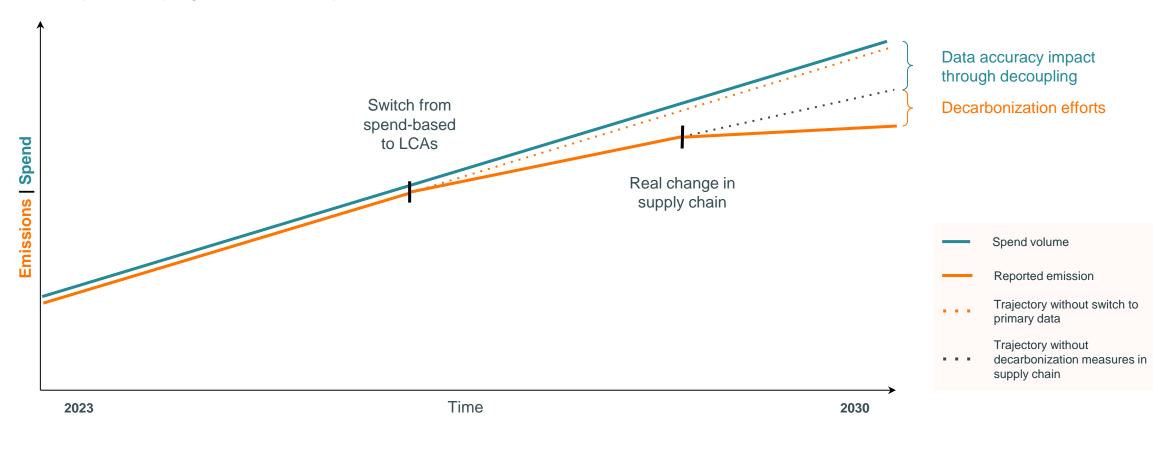
\*) EF = Emission factor



Missing tools & know-how to make data-driven decisions for decarbonization and beyond GHG

# Showing the ROI of decarbonization efforts requires decoupling emission-data from spend-data

Example: decoupling emission- from spend-volume





Data sources

Missing tools & know-how to make data-driven decisions for decarbonization and beyond GHG

# Other impact categories will need to be tracked by collecting EPDs or primary data from individual products and services

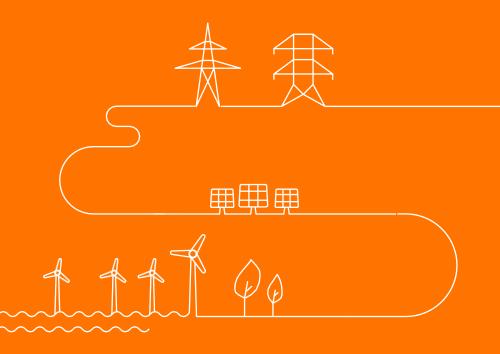
Additional impact categories to become future-proof\* beyond GHG

Spend hierarchy	Volume 2023 [€]	Scope 3 [t CO <sub>2</sub> ]	Water usage [L]	Labour right risk [High / Med / Low]	Origin raw material	Production country	 	Environmental
Power cables	600.000	1.488	?	?	?	?		Product Declaration (EPD)
Power cable A	300.000	744	?	?	?	?	 Н	
Power cable B	200.000	496	?	?	?	?	 L	Primary Data
Spare parts	100.000	248	?	?	?	?		1 , 2 , 5 , 5 , 5 , 5 , 5 , 5 , 5 , 5 , 5

<sup>\*</sup> Required by current or upcoming legislation (CSRD, CSDDD, national supply chain due diligence acts)



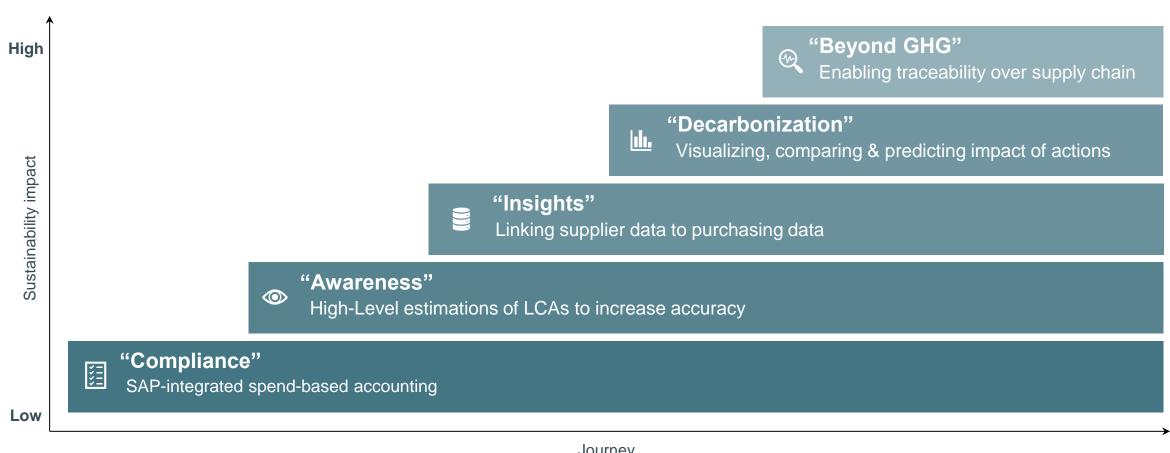
**Our solution** 





Our solution

## Upstream supports companies regardless of the phase they are in towards decarbonisation and beyond



Journey



Need to comply with CSRD regulations | Missing data integrations & exchanges

## Our S/4Hana-integrated emission accounting combines procurement data with LCA data from different sources

Spend based accounting in S/4Hana



Benefits of Upstream integration into S/4Hana

### Fully compliant and auditable

Basic fulfilment of CSRD requirements



#### Real-time data

Live data through ERP integration



### **Analytics**

Breakdowns by suppliers, project etc.



### **Future proof**

Groundwork to enrich with better data





Overwhelming process to determine areas for primary data collection

# Upstream provides high-level estimations that dramatically increase accuracy with little effort and help direct attention to next priorities

High

Medium-low\* priority: Find low-effort method to increase data quality to avoid blind spots

Services

...

Low priority: Put items in decarbonization backlog

Medium-high\* priority: Find low-effort method to increase data create problem awareness in organization

Medium-high\* priority: Find low-effort method to increase data quality to avoid blind spots

Travel

Travel

High

High priority: Start own estimation activities & create problem awareness in organization

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Travel

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With *Upstream* you are able to create a **solid plan** of what needs to be **done next** and then **get fast results** through:

Existing estimation templates

3rd-party validated emission factors and methodologies

Industry knowledge about relevant assets and work types

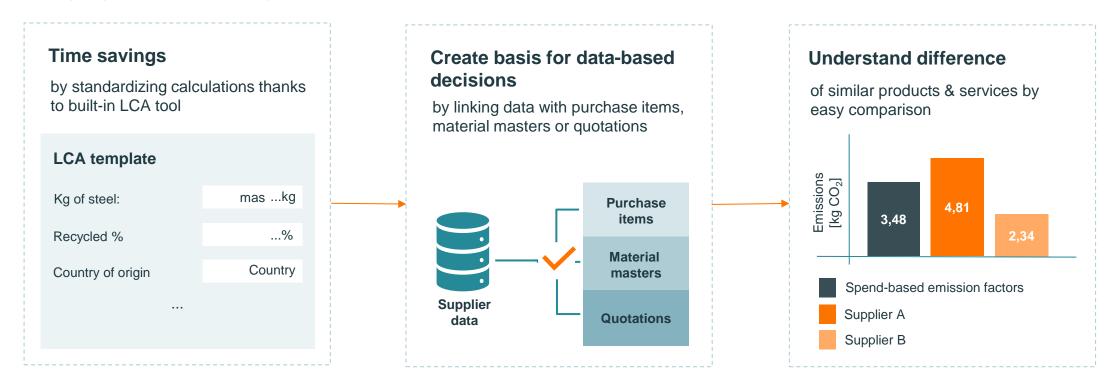
Matrix indicating key categories for next decarbonization steps



Challenge to identify information to request from supplier | Missing data integrations & exchanges

# Supplier data to further increase accuracy can be linked to purchase order items, material masters or quotations

Example: power cable A with Upstream

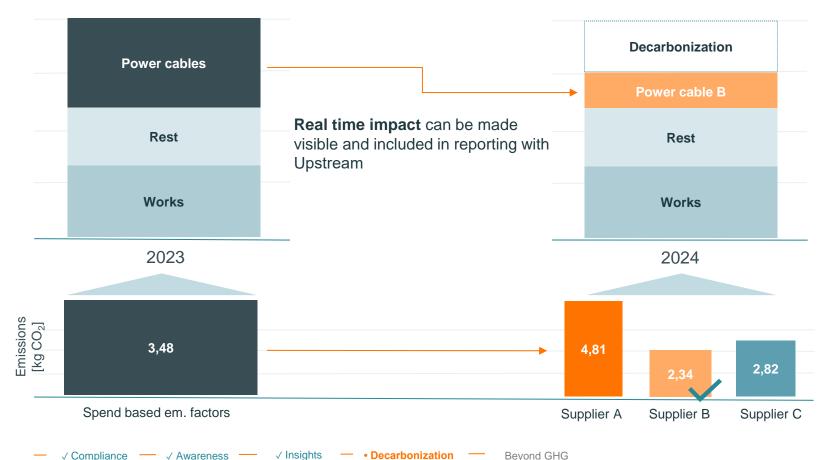




Missing tools & know-how to make data-driven decisions for decarbonization and beyond GHG

# Through comparability, impact of actions can be simulated and made visible as real change in GHG emission reduction

Comparison of Scope 3 emissions of different articles





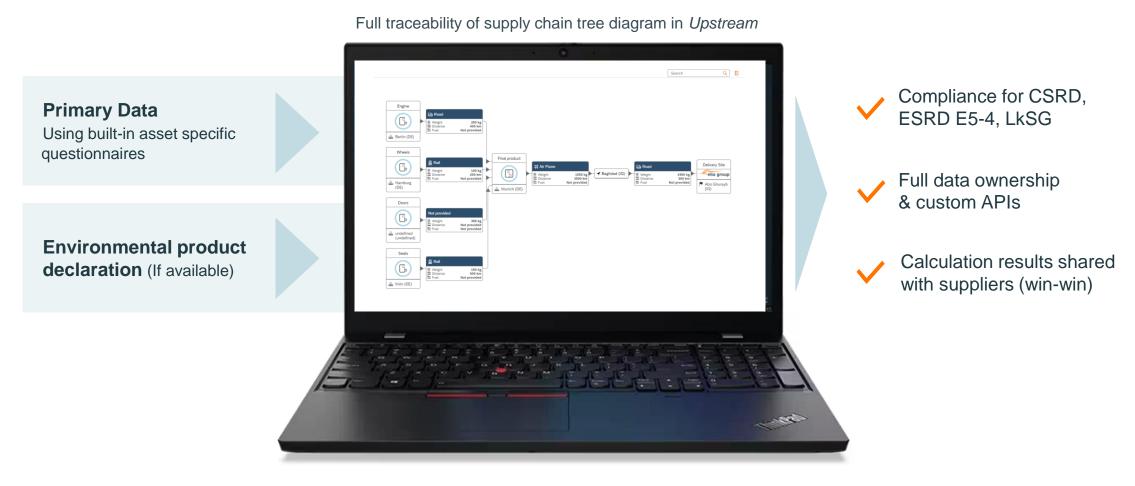
#### **Exemplary reasons:**

- Switch to green electricity for production
- · Low-emission steel
- Transport switch road to rail



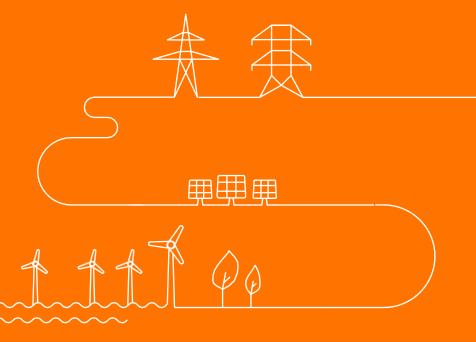
Missing tools & know-how to make data-driven decisions for decarbonization and beyond GHG?

# Upstream lays the framework to become compliant beyond GHG by enabling traceability over the whole supply chain





Our proposition





Upstream by Elia Group

#### Our Solution

# Upstream is the one-stop shop for tracking and steering the decarbonization and supply chain related CSRD reporting

### Platform for Scope 3 Accounting, CSRD reporting\* and Green Procurement

- Tracking the decarbonization of your supply chain in real-time
- Full integration into your SAP system
- Using TSO-specific experience and expertise made readily available
- Proven methodology for carbon pricing in public Procurement (EU tender conform)
- The highest data quality standards of CSRD reporting across your supply chain
- No need to develop extensive internal expertise
- Full transparency to all parties enhancing supplier engagement and common targets
- Aligned with European initiatives and active working groups (e. g. ENTSO-E, JIP on power transformers, etc.)

\* ESRS E1-6, E5-4, E4-5



### Unique offer

# 6 selected features distinguish *Upstream* from alternative approaches and offer a cost-effective solution for your needs

### √ Distinguishing features of *Upstream* by Elia Group

Primary data	Collection and management of primary data allows detailed analysis, strategy and scenario building and allows reporting on other dimensions (e.g. ESRS E1-6)	Real-time purchasing data	Real-time interface with purchasing record allows for continuous monitoring of data to move away from snapshot reporting to proactive "carbon controlling"
LCA experience and templates	The built-in LCA tool allows for fair and objective comparison of products and services independent of supplier assumptions and maturity levels	TSO industry experience	Proven concepts tested by Elia Group, tailored to the TSO/DSO sector. We are striving for alignment among European partners.
ERP integration	Connecting to SAP S4/HANA prevents doubling of master data and allows for custom analysis (e. g. break-down by project for Permitting)	Eased supplier management	Long experience in implementing Carbon Pricing with suppliers is already built into processes and our software (buyer vs. supplier needs, legal boundaries)

#### ? Alternative to *Upstream* by Elia Group

Build necessary knowledge
through long trial and error
phase internally or with
external help

Maintain supplier input and data exchange formats on sharepoint or similar databases

Research emission factors and pay license fees for access to specialized databases Maintain several linked Excel tools with purchasing and supplier data Tweak standard software (often manufacturing-orientated) to TSO-specific needs



#### Team

# Our team has extensive experience in implementing sustainability strategies in utilities companies

### Supported by:









Philipp von Normann Product owner Upstream by Elia Group



"Data is the backbone for decarbonization, enabling informed decisions and effective strategies for a sustainable future."

### Our first use case: Elia Group



- International Transmission System Operator with two control areas (Belgium and East Germany)
- Group-Level Sustainability
   Strategy ("ActNow" Programm)
   as initiator of Upstream



Winner SAP Innovation Awards 2024







Let's talk

# Assess the strengths of the solution in detail in a 1:1 call



Schedule a 1 hour product demo with Philipp von Normann

#### Agenda:

- What are you needs as TSO/DSO/Utility etc.?
- Could Upstream be a fit for these needs?
- · Demo of our product



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