ESG for ITADS

June 2026
Frankfurt

e-Stewards

Bloom.

E-WASTE WORLD EXPO

BATTERY RECYCLING EXPO

METAL RECYCLING EXPO

ITAD & CIRCULAR ELECTRONICS EXPO

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E-WASTE WORLD EXPO

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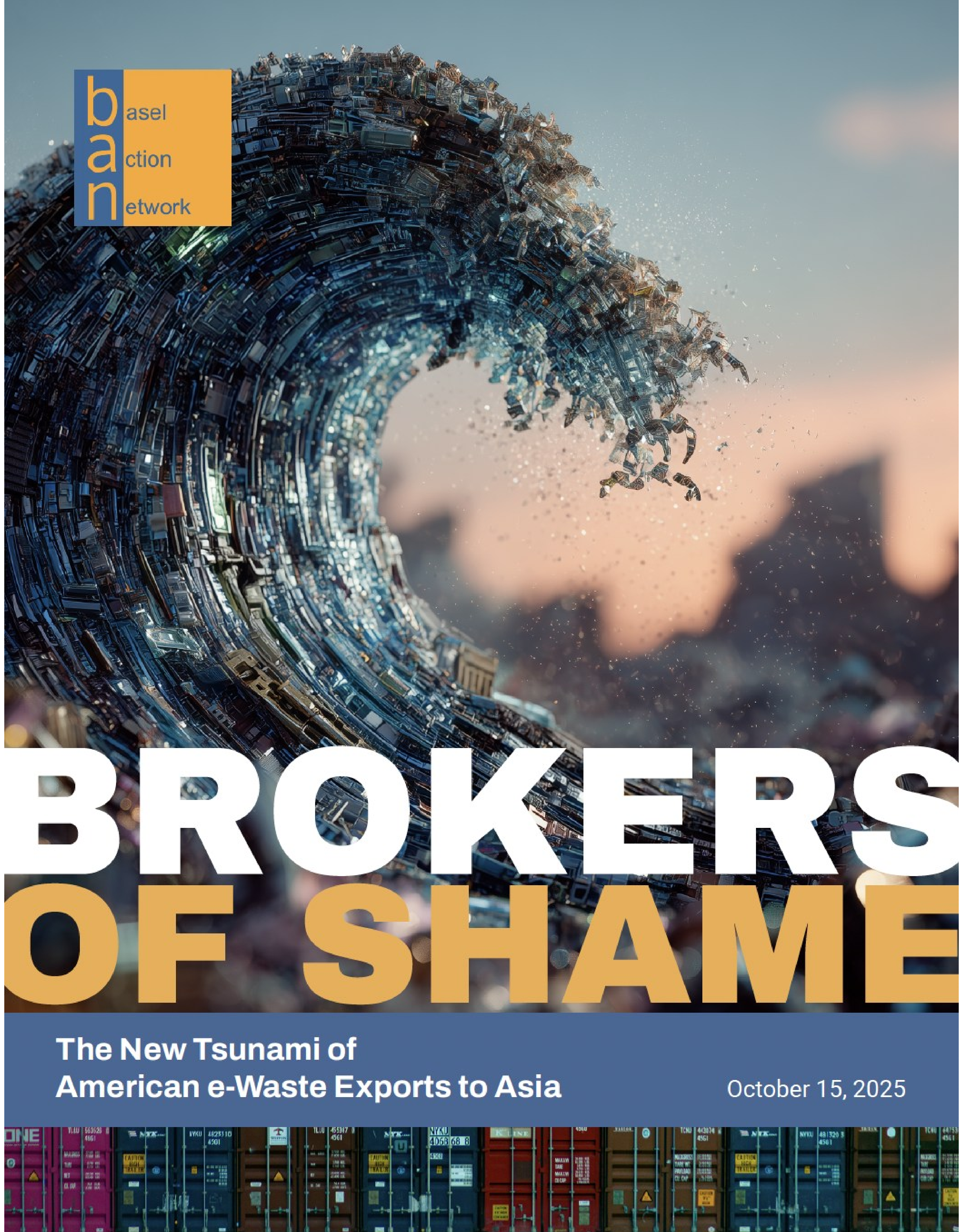
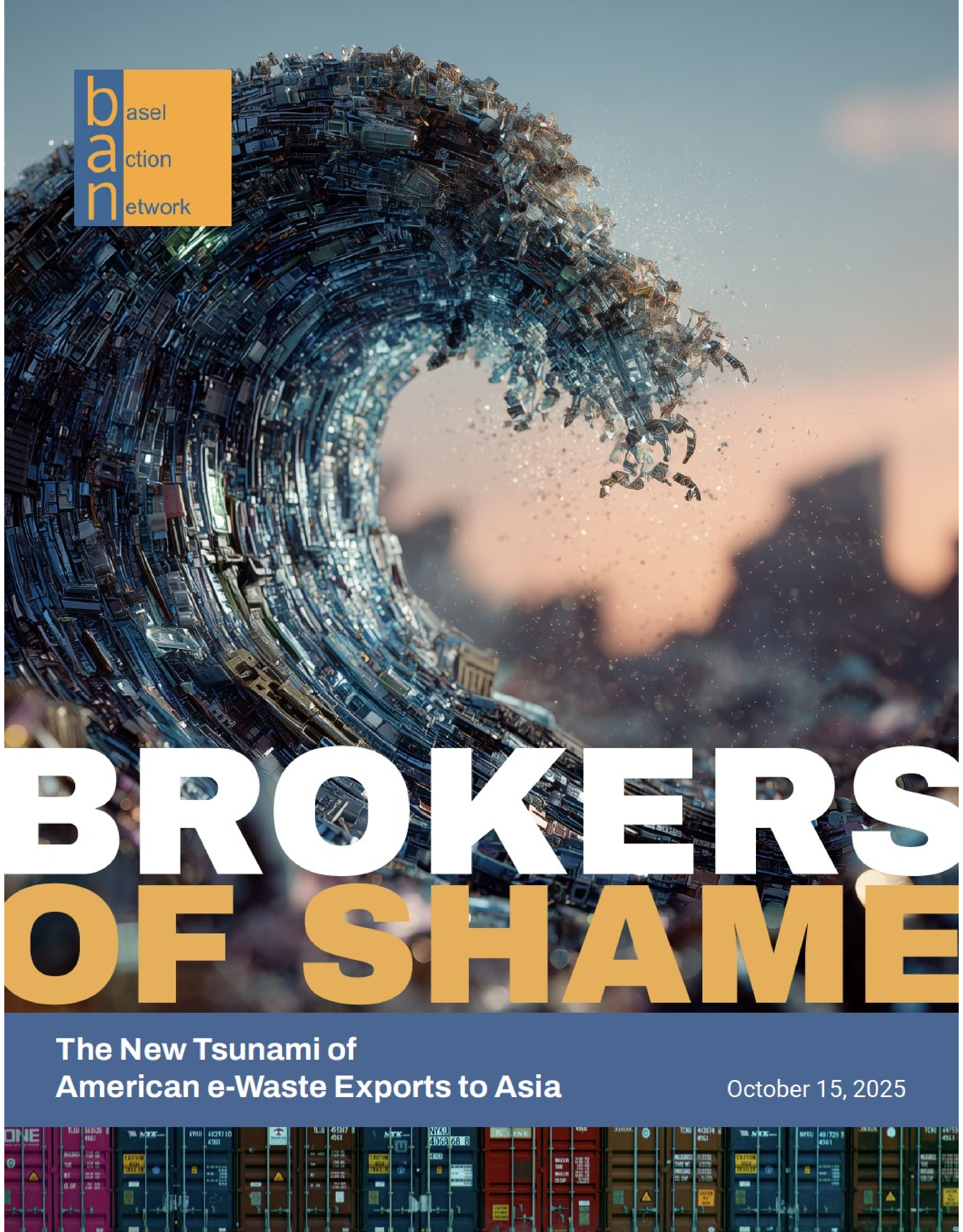
2025 / New Tsunami of e-Waste Flooding Asia



BAN Releases 2 - Yr. Study Showing US Industry Still Plagued e-Waste Trafficking

10 BROKERS

1. Attan Recycling
2. Corporate eWaste Solutions (CEWS)
3. Creative Metals
4. EDM
5. First America Metals
6. GEM Lifecycle Solutions
7. Greenland Resource
8. IQA Metals
9. PPM
10. Semsotai




ESG

So, I asked AI the following question:

What would you say about electronics recyclers that spend a lot of resources touting their ESG bonafides while exporting electronic wastes to substandard operations in developing countries?

And this was the response:

- I’d say that’s a case of **greenwashing.**
- For electronics recyclers, the contradiction is especially glaring. They may highlight carbon savings, circular economy initiatives, or community engagement but in reality they are shifting the environmental and human health burden to vulnerable communities.
- This undermines both the **“E”** (environmental) and the **“S”** (social) pillars of ESG. It also raises governance concerns if firms knowingly misrepresent their practices.

And this was the response:

- Ethically and reputationally, it’s damaging. Regulators, watchdog groups, and increasingly investors are scrutinizing these contradictions.
- 👉 In short: promoting ESG while dumping e-waste abroad is misleading at best, exploitative at worst, and ultimately corrodes trust in the ESG framework itself.

ESG in Short

ESG reporting transforms a company's environmental, social, and governance practices from invisible internal realities into accountable, comparable, and market-legible signals that drive better capital allocation, stakeholder trust, and long-term risk management.

E

Environment: measuring your company's impact on the **planet**

S

Social: measuring how your company treats **people** - customers, employees, communities, suppliers

G

Governance: the operational **practices** in place to ensure principles such as transparency, accuracy, ethical conduct and compliance are in place.

ESG

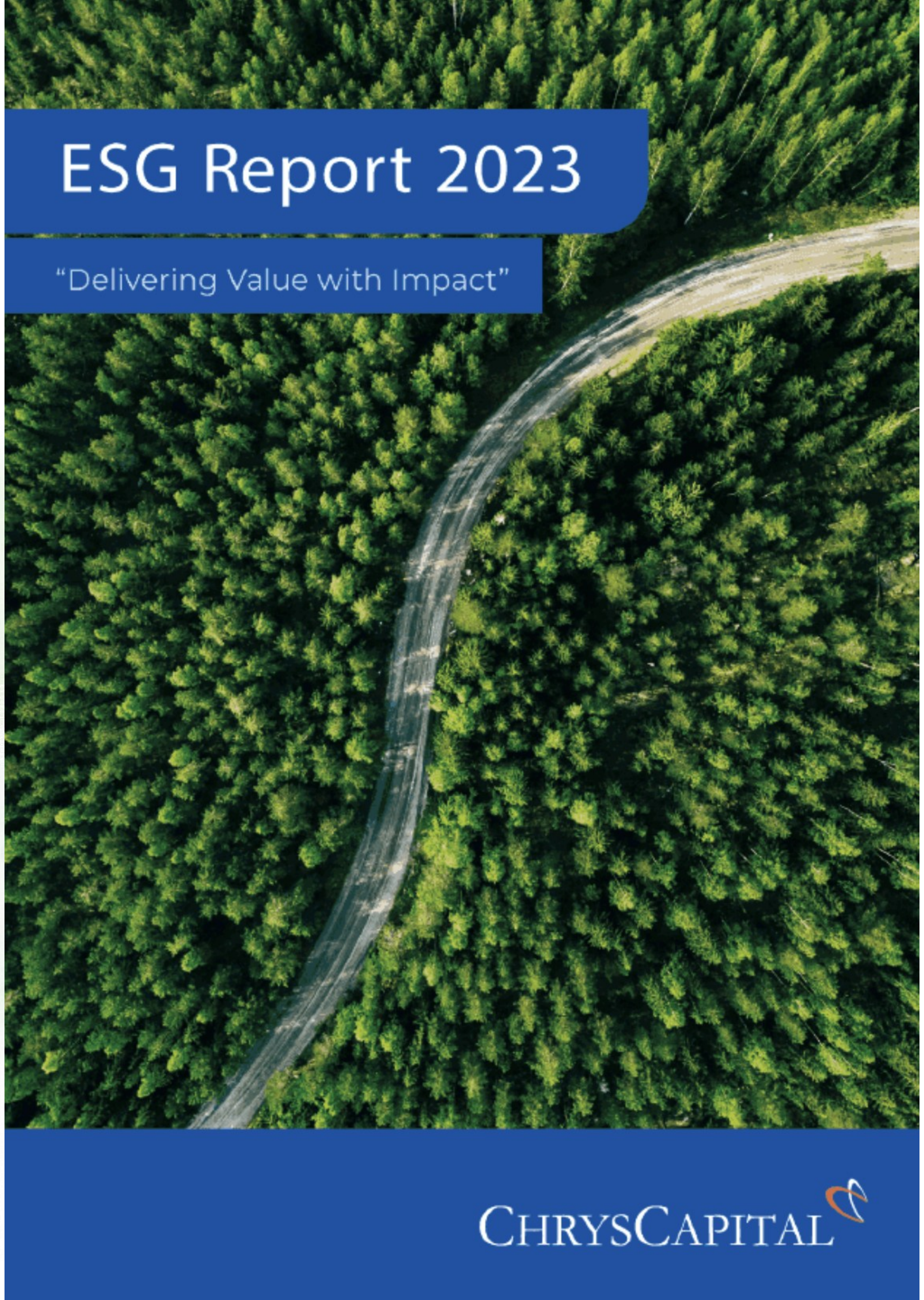
Impact Hub

presented by

e-Stewards

What is ESG Data, an ESG Hub and ESG Report?

ESG Data	metrics and other evidence used to measure ESG progress.
ESG Hub	an interactive electronic site to house and update ESG data in order to monitor it and when needed, produce reports.
ESG Report	a document that is disclosed publicly to inform a company’s stakeholders of its ESG progress and commitments.



Do I need an ESG Report?

SHARE YOUR STORY

ESG Reports can serve as a professional marketing-type document to share during a bidding process, or share with key partners like customers, financing partners, or potential investors.

DEMONSTRATE LEADERSHIP

Stand out from your peers: ESG Reporting shows strong governance, data, and reporting maturity.

In a sea of options, you want to stand out as more advanced.

IDENTIFY OPPORTUNITIES

Identify opportunities to improve your operational processes: for example, identifying a particularly energy-intensive site.

TRACK PROGRESS

Serves as an annual review against key performance metrics that are probably already identified as important to your company, like absolute weight of assets processed.

With the ESG Impact Hub you can compile, store and then report your data in 5 simple steps

e-Stewards

Assess › **Define** › **Collect** › **Validate** › **Report**

Assess
Identify what ESG topics are important to you and your stakeholders

Define
Select an ESG Framework and/or your key data points (metri

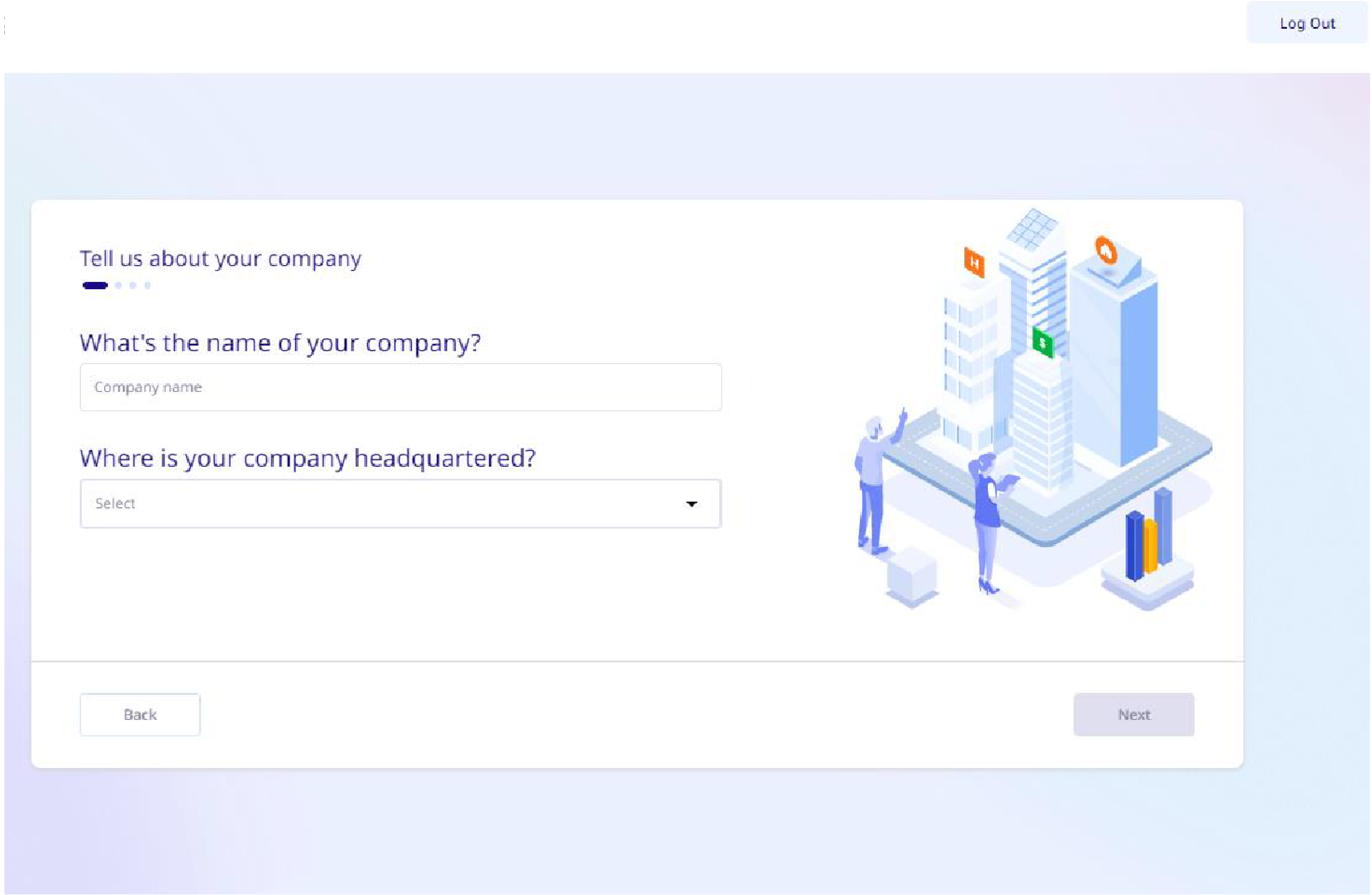
Collect
Work with your colleagues to collect, track and manage your ESG data

Validate
Get sign-off from your Leadership team, your Board, or an auditor, supported by Blockchain

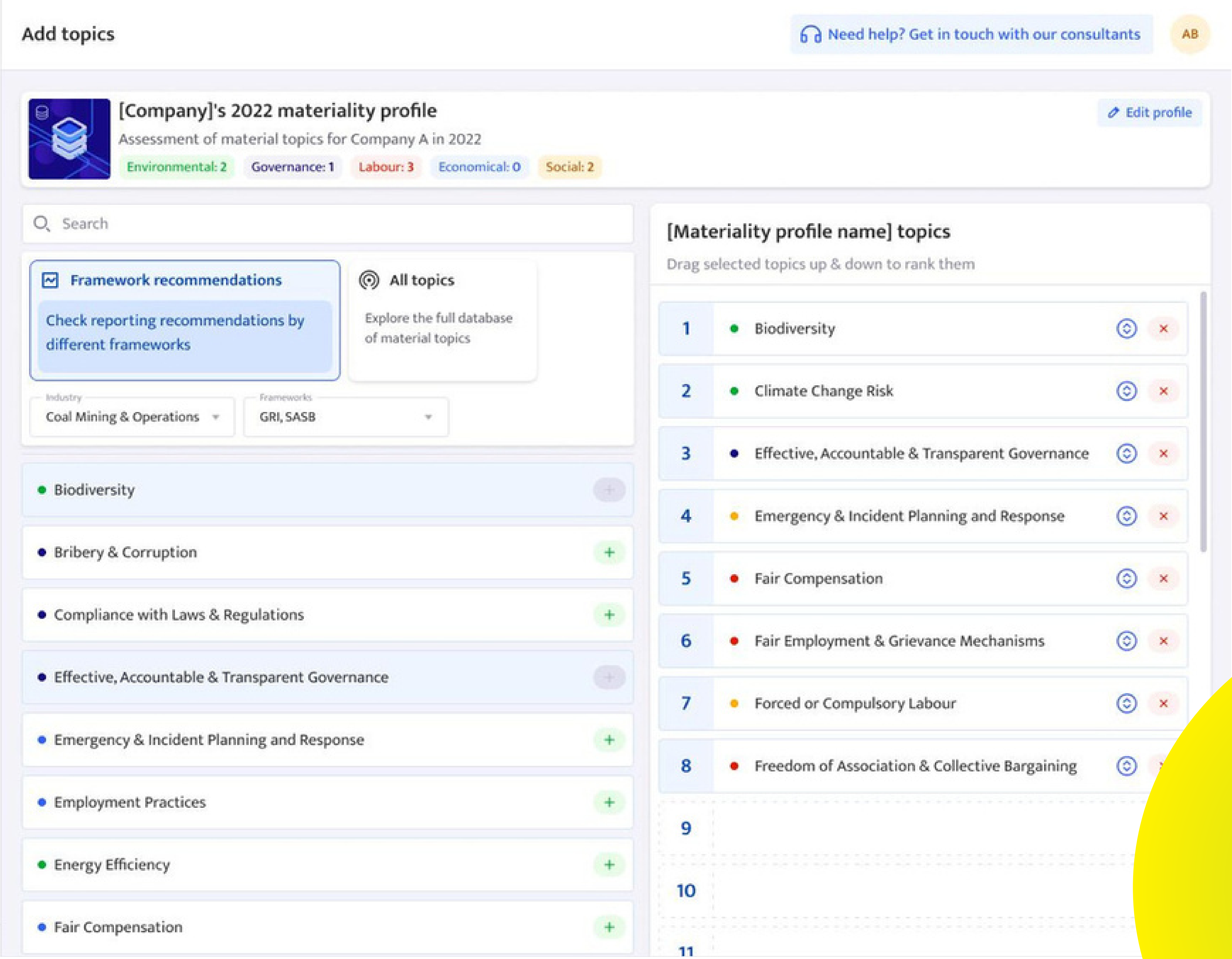
Report
Design, customize and export your branded ESG Report

Step 1.0 Sign in via web browser

- Intuitive self-onboarding process
- 5-question mini-survey is all you need to make the right recommendations for your impact hub
- Relevant sustainability topics are built-in, so you can just get started



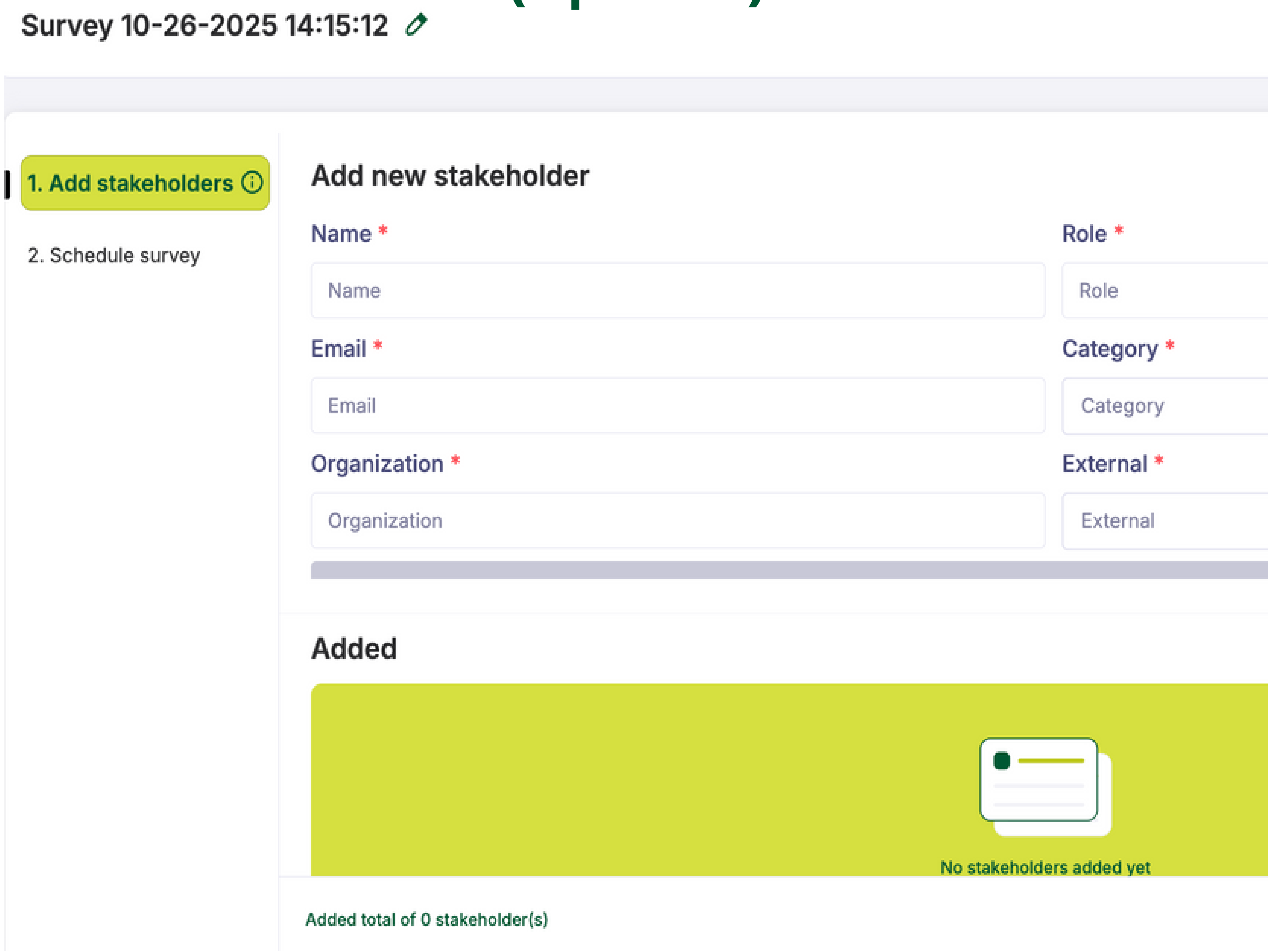
Step 1.1 Materiality Assessment



- Built-in priority or material topics allow you to start understanding your own key focus areas easily

Step 1.2

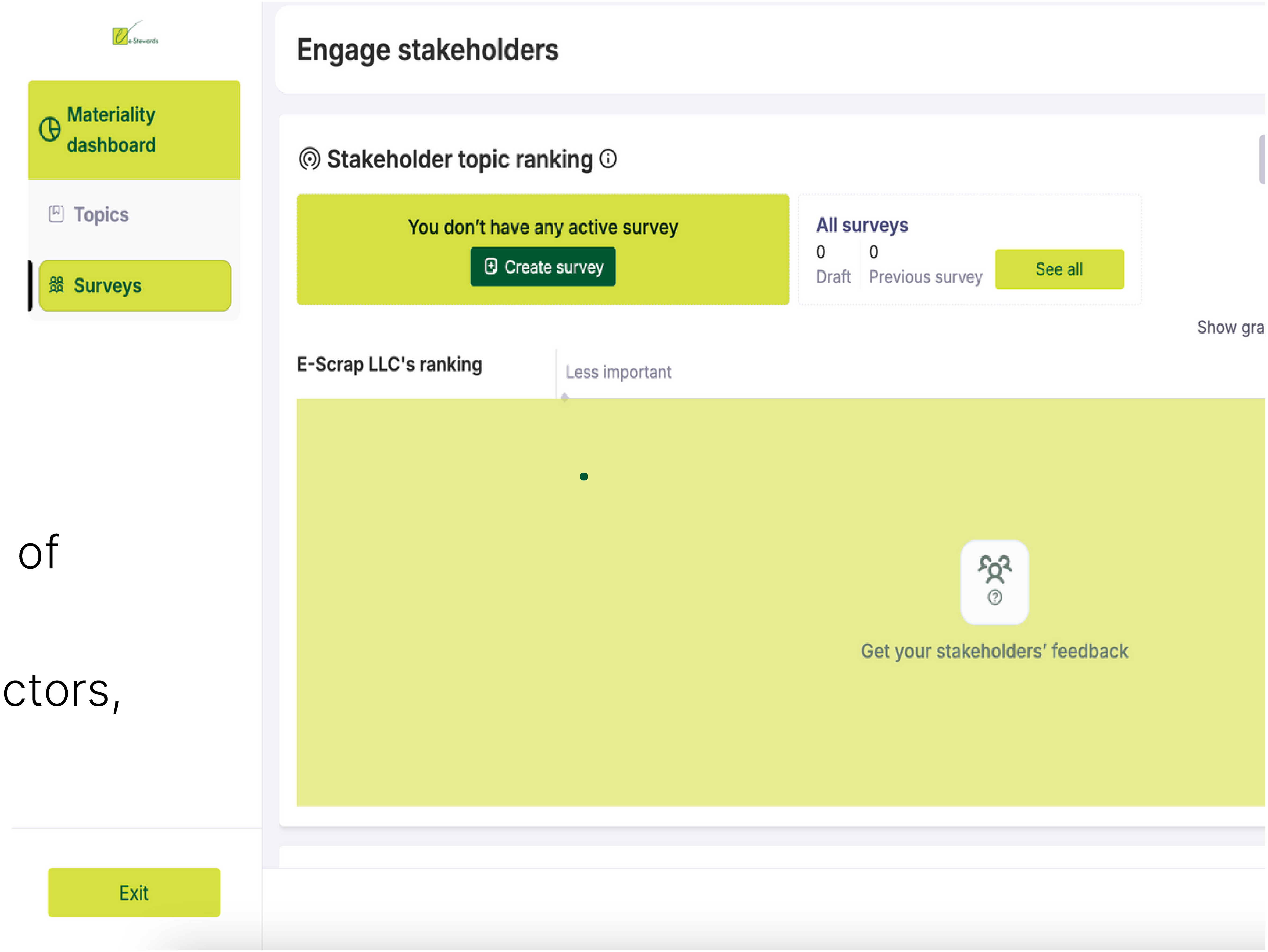
Collect views from Stakeholders (Optional)



- Collect wider views from key stakeholders on your key ESG topics to make sure you are focusing on areas that others find important
- View their feedback in a simple ranking graph

Step 1.2

Collect views from Stakeholders (Optional)



Who could be your stakeholder?

Internal: Employees, Board of Directors, etc.

External: Suppliers, Contractors, Customers, Investors, etc.

Step 2

Option 1: Pick an Existing Framework

ESG Frameworks are used to gather ESG data points in a standard way. You may have already been asked to fill out a framework questionnaire by a potential customer or investor. There are many different frameworks depending on your industry, location, and regulatory environment

Most Popular

GRI SOFTWARE & TOOLS PARTNER 2021

SASB

Listing Requirement

SGX

Nasdaq

BURSA MALAYSIA

بورصة قطر Qatar Stock Exchange

Special Framework

TCFD TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES

CDP

SFDR Annex 1

WORLD ECONOMIC FORUM

MARITIME FRAMEWORK

Newly Added

ISSB

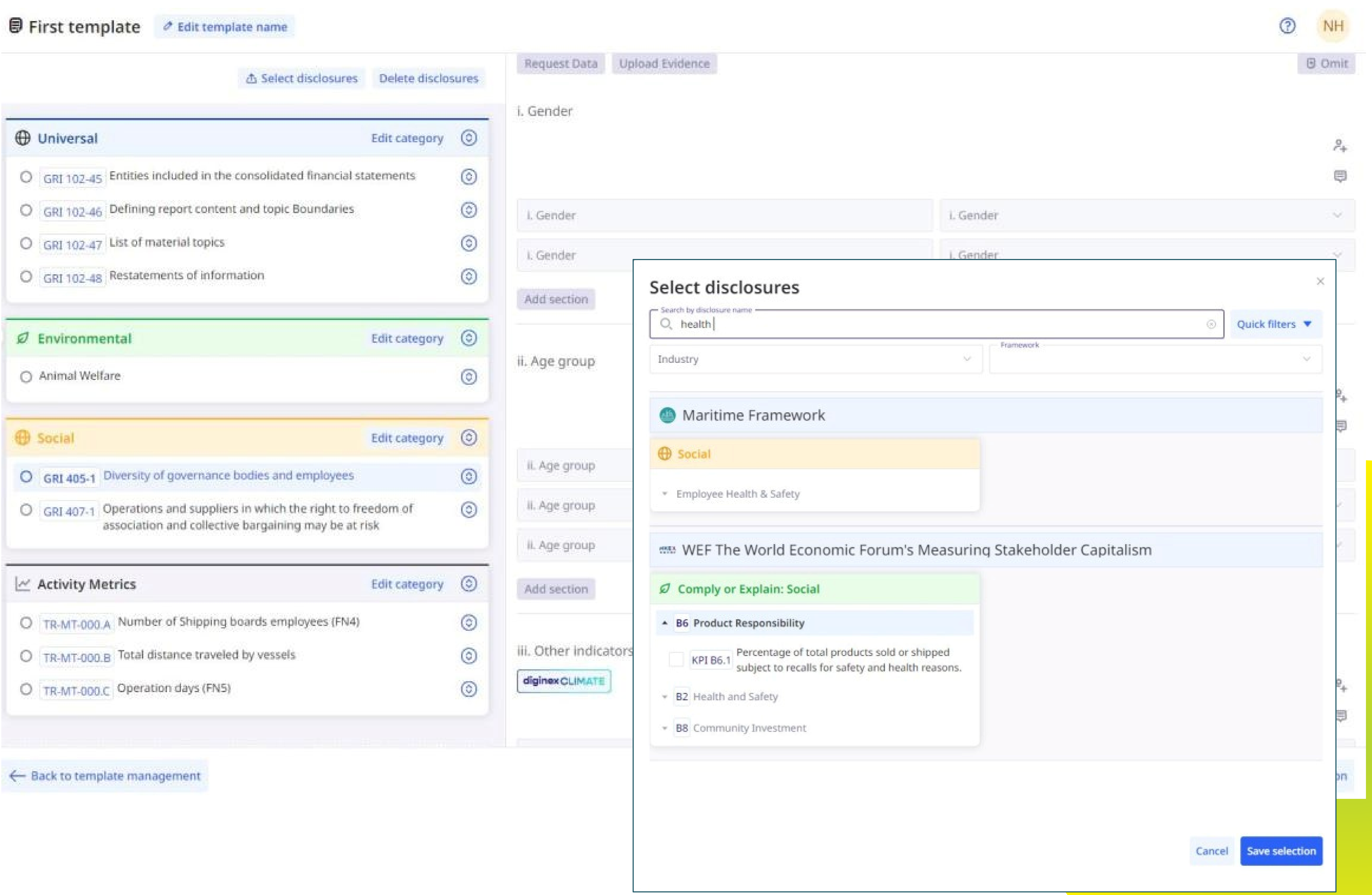
GRESB

EU TAXONOMY

- Variety of Available Reporting Standards
- GRI comes built-into the Hub, and you can opt to pre-load additional frameworks
- Simple templates guide you through framework questions and responses
- Option to build your own fram
  data

Step 2

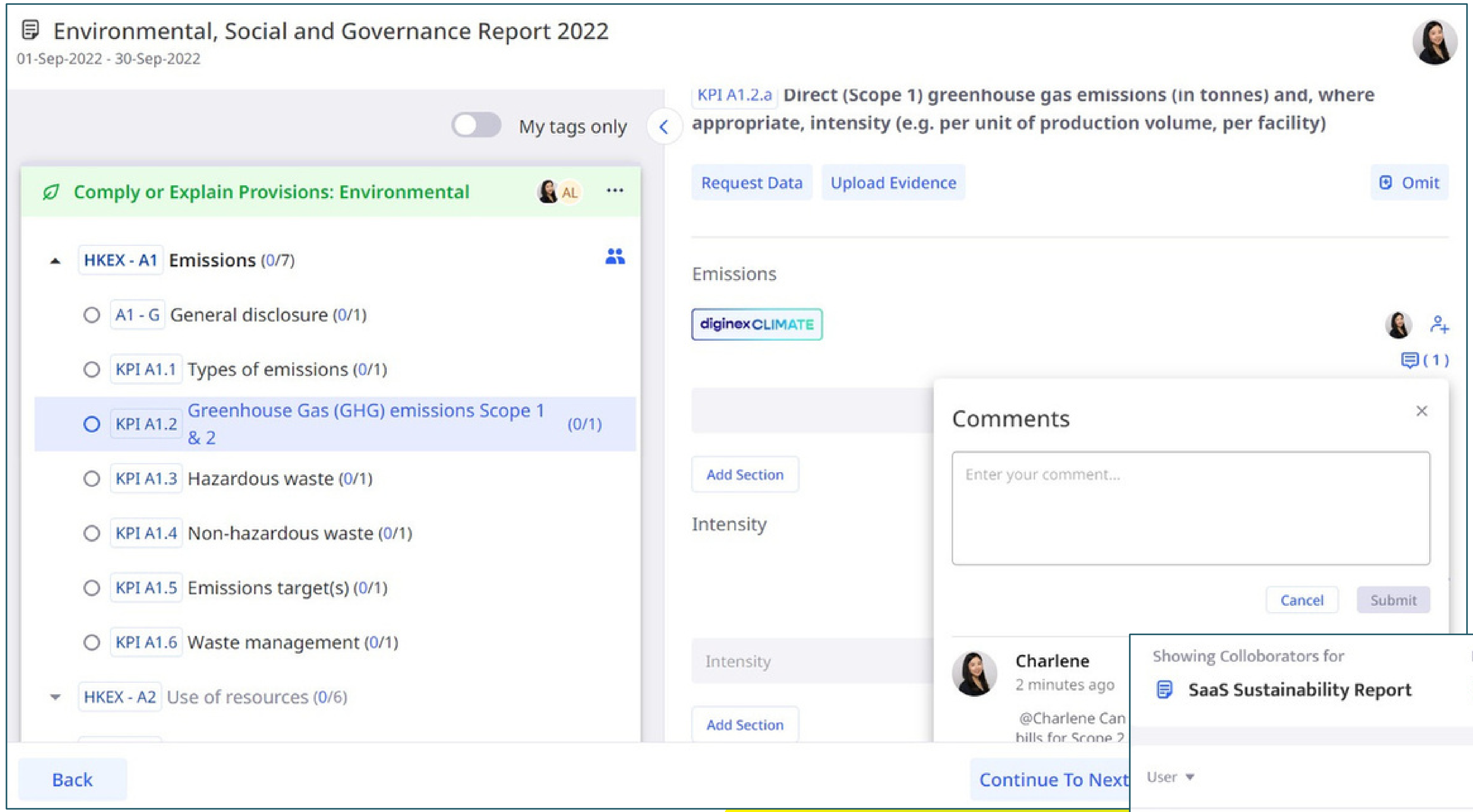
Option 2: Build your own custom framework and data points



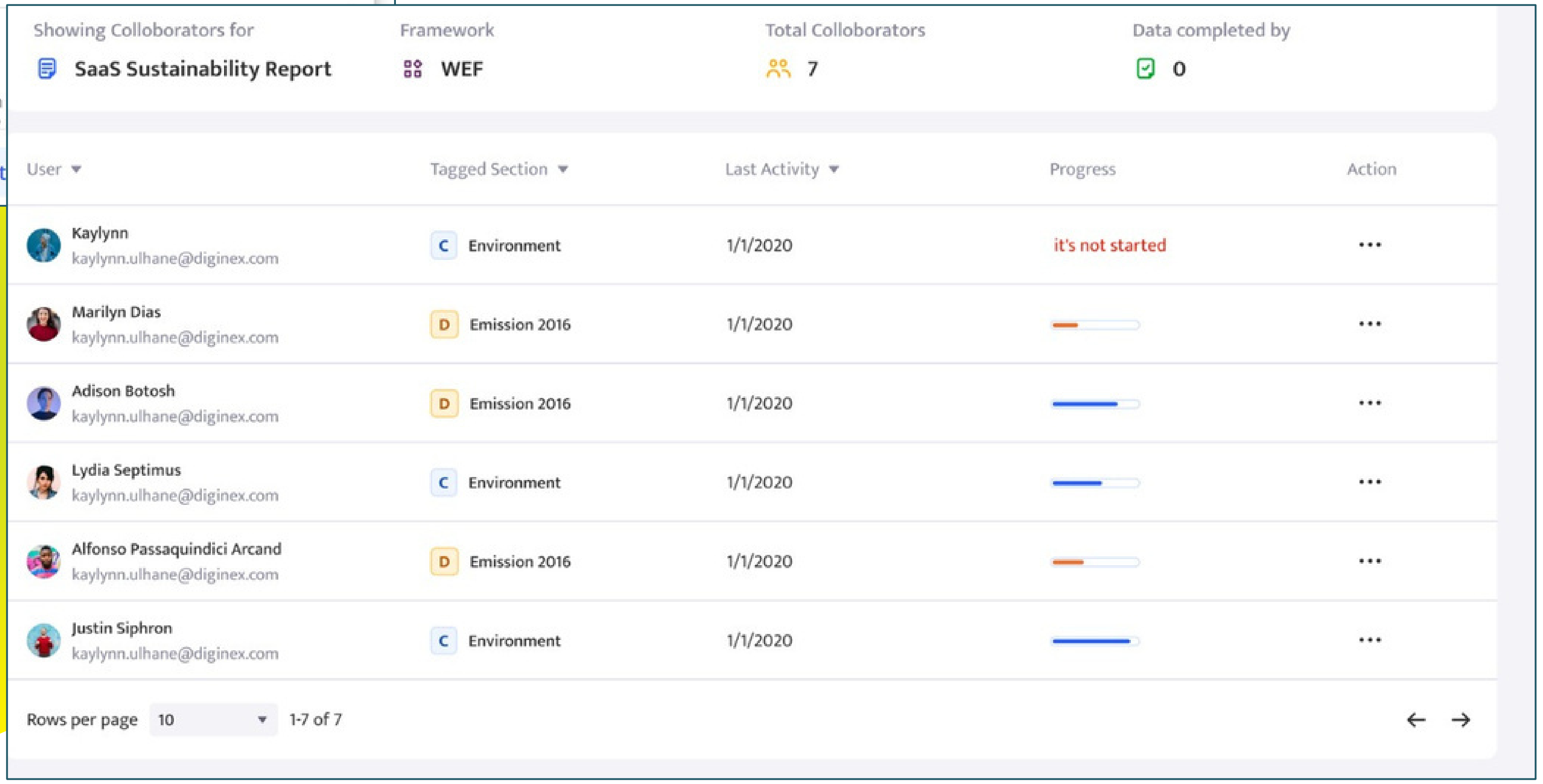
- If you are not sure that a full existing framework is necessary for your company, you can make your own custom disclosures starting with just a few metrics
- Import some metrics from existing frameworks
- Create custom templates for different customers, RFPs, industries, or projects

Step 3

Collect and Manage Data

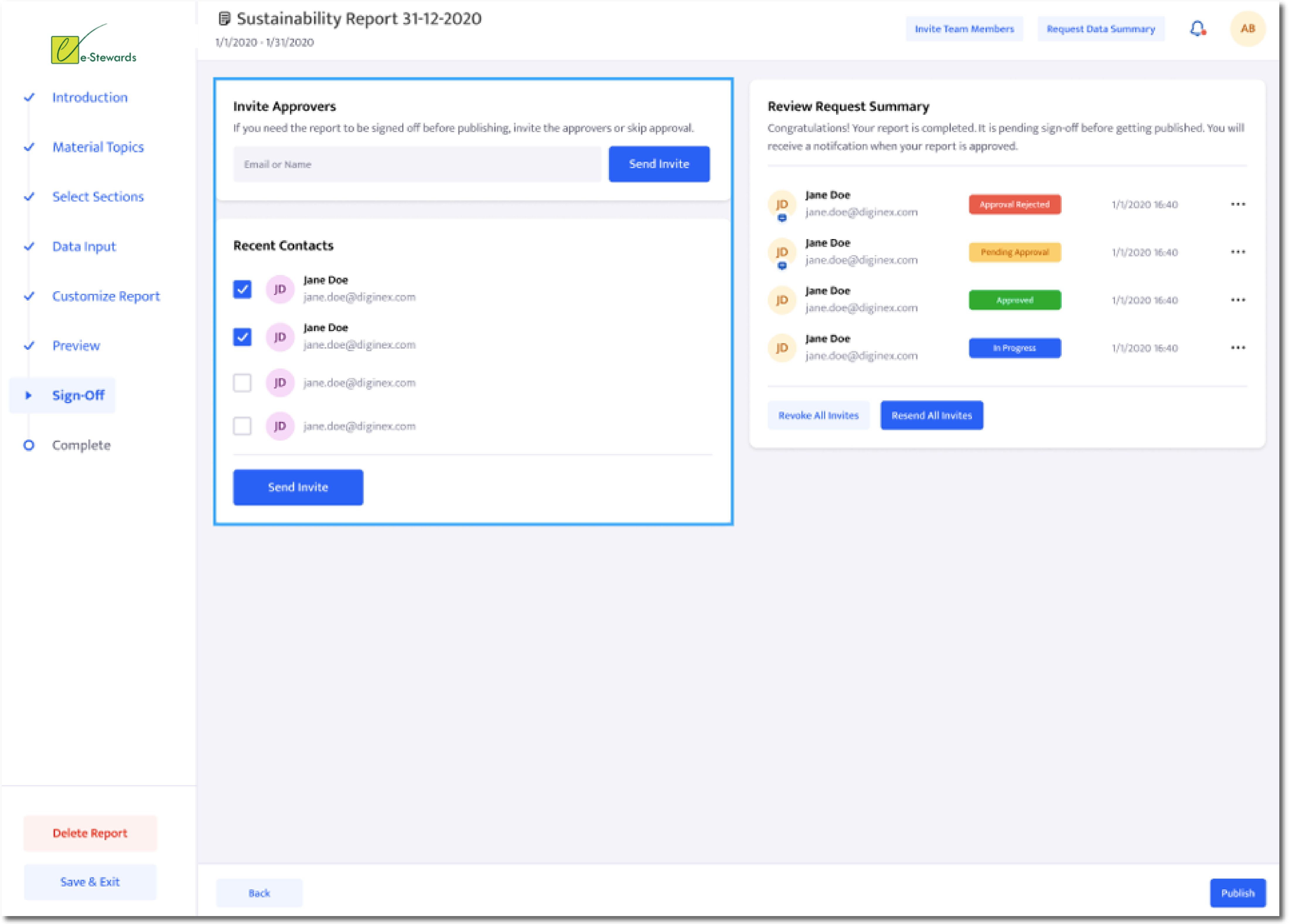


- Administer the data collection process in a structured and organized manner
- Tag colleagues, leave comments, add documents in a central spot to enhance collaboration
- Track and trace the progress



Step 4

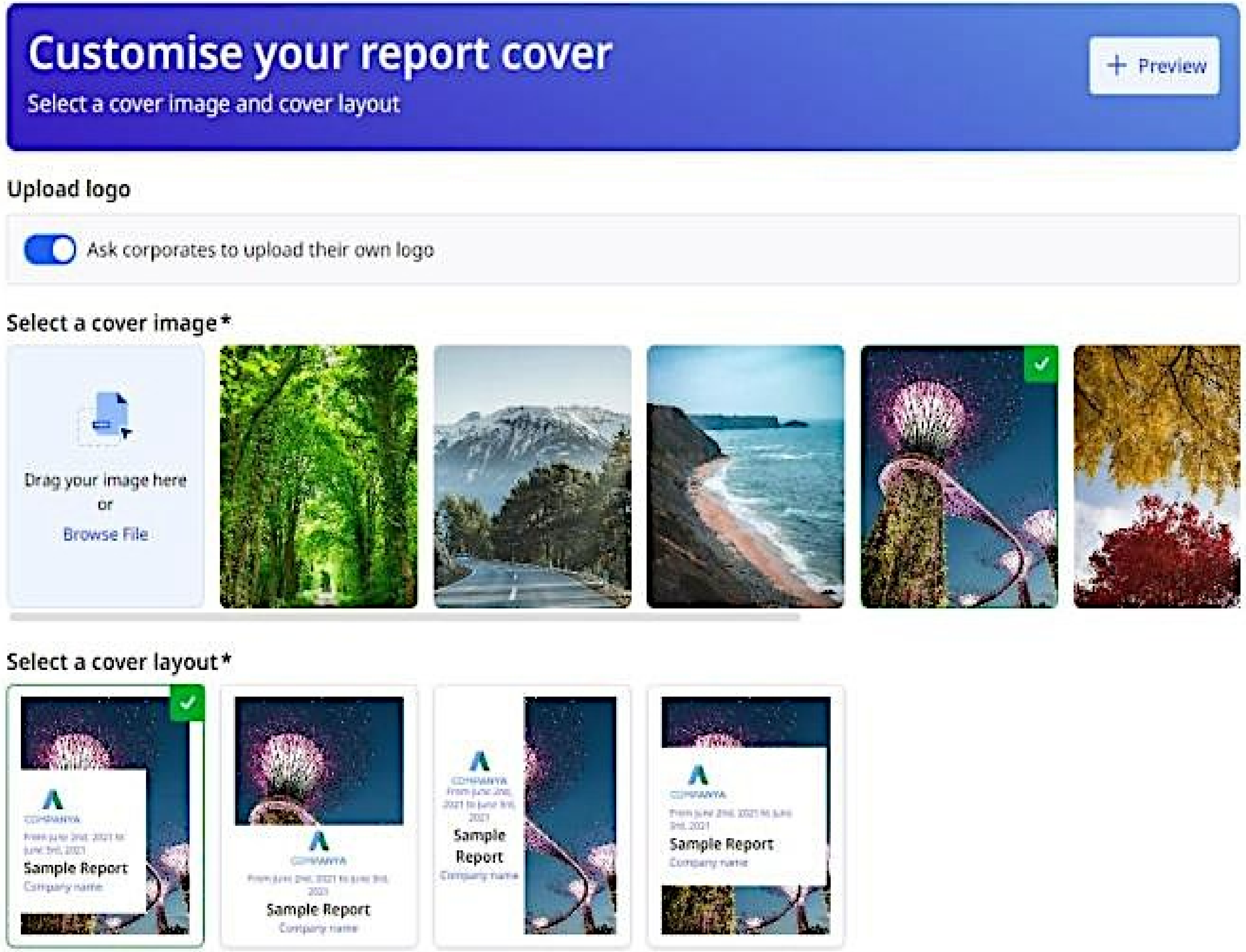
Validate your data

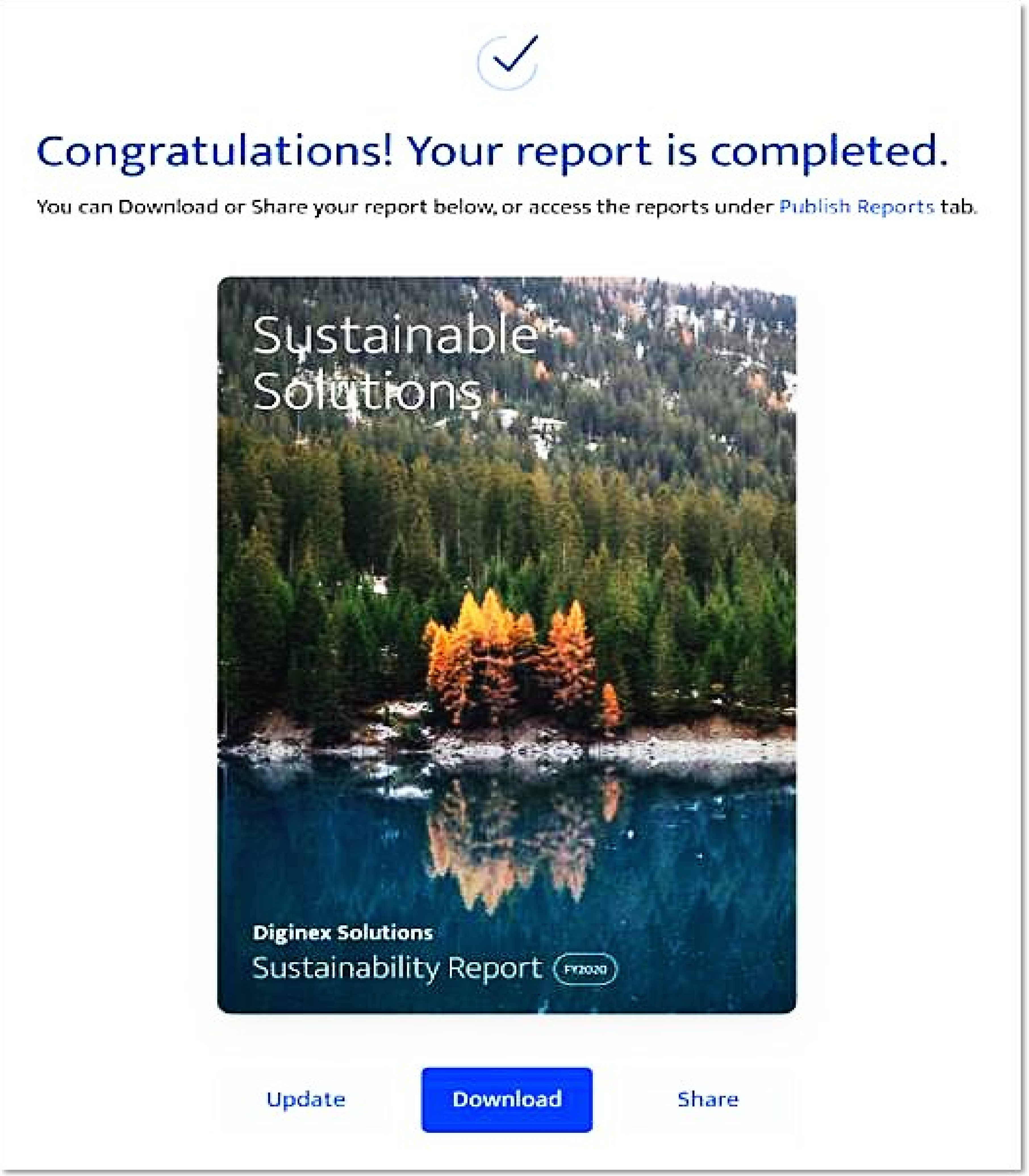


- Get sign-off from your approvers, such as the Board, CEO, or an auditor
- Blockchain-enabled audit trail

Step 5

Design and generate your repor





- Customizable
- Export data in various formats (Word templates and Excel)

ESG

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Pricing and Next Steps...

The Annual Subscription includes a) basic materiality assessment for your company and b) six hours of complimentary onboarding time from our Senior ESG Expert.

The Expert will walk you through and support you in the process.

Annual Subscription: ESG Impact Hub	
$6,000	for e-Stewards Certified or Launch Cohort companies
$7,000	for All Others

scan me!

Thank you.

Jim Puckett

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Bloom.

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About us.

Bloom is the premium standard for impact reporting in the circular economy. We serve the global e-waste processors with assurance-grade carbon and circularity data, a trusted registry, and a platform built for enterprise requirements.

Founders

Amanda Bond
Founding Partner

Sebastian Foot
Founding Partner

Combined 40+ years in sustainability – working across ESG advisory, avoided emissions monetization, decarbonisation strategy and carbon & capital markets.

Advisory services + digital solutions

Achievements

Green Alley Award FINALIST — IN THE TOP 3% OF GREEN INNOVATORS IN EUROPE

1M+ — TCO2E AVOIDED CERTIFICATES CONTRACTED TO 2026

1st — IMPACT SOFTWARE SOLUTION TO E-WASTE SECTOR

1000 — REAL-TIME IMPACT REPORTING DELIVERED TO 1000'S OF US CORPORATES

80M+ — KGS ELECTRONICS PROCESSED VIA BLOOM'S CIRCULARITY PLATFORM

Client Example

DYNAMIC LIFECYCLE INNOVATIONS
sage
greenchip EWASTE & ITAD SOLUTIONS
cxtec
FIXIT
Apto Solutions
Device
epc

PARTNERSHIP ANNOUNCEMENT

Bloom. Calculator
e-Stewards

Bloom ESG and **e-Stewards** have partnered to introduce the first ISO-approved, independently verified environmental impact calculator.

Transparent, data-driven, impact reporting.

Built for ITADs, recyclers, automated recovery solutions and smelters.

Deployed by R2, e-Stewards and international processors

Now, with the Bloom ESG + e-Stewards premium calculator, your business can:

- Measure and report Scope 4 avoided emissions
- Gain access to an audited, standardized methodology designed for electronics recyclers
- Engage customers with reporting automatically generated at the order level
- Align to industry-wide impact reporting standards

ITAD Customer Engagement Journey

Bloom ESG is your sales and customer engagement partner.

Impact Reporting
Verified impact for sustainability claims

I-TECs
Verified Impact intensity certificates for corporate carbon reduction targets

Connect Data

Connect to ERP systems to measure units processed.

Impact Metrics

Receive KPIs such as avoided emissions, critical minerals, etc.

Reporting

Share tailored reports with your clients.

Generate I-TECs

Audit unit-level data and generate certificates.

Register & Trade

Certificates issued on the registry can be retired on behalf of your clients.

Impact Reporting

You will be able to view impact data directly for every asset processed.

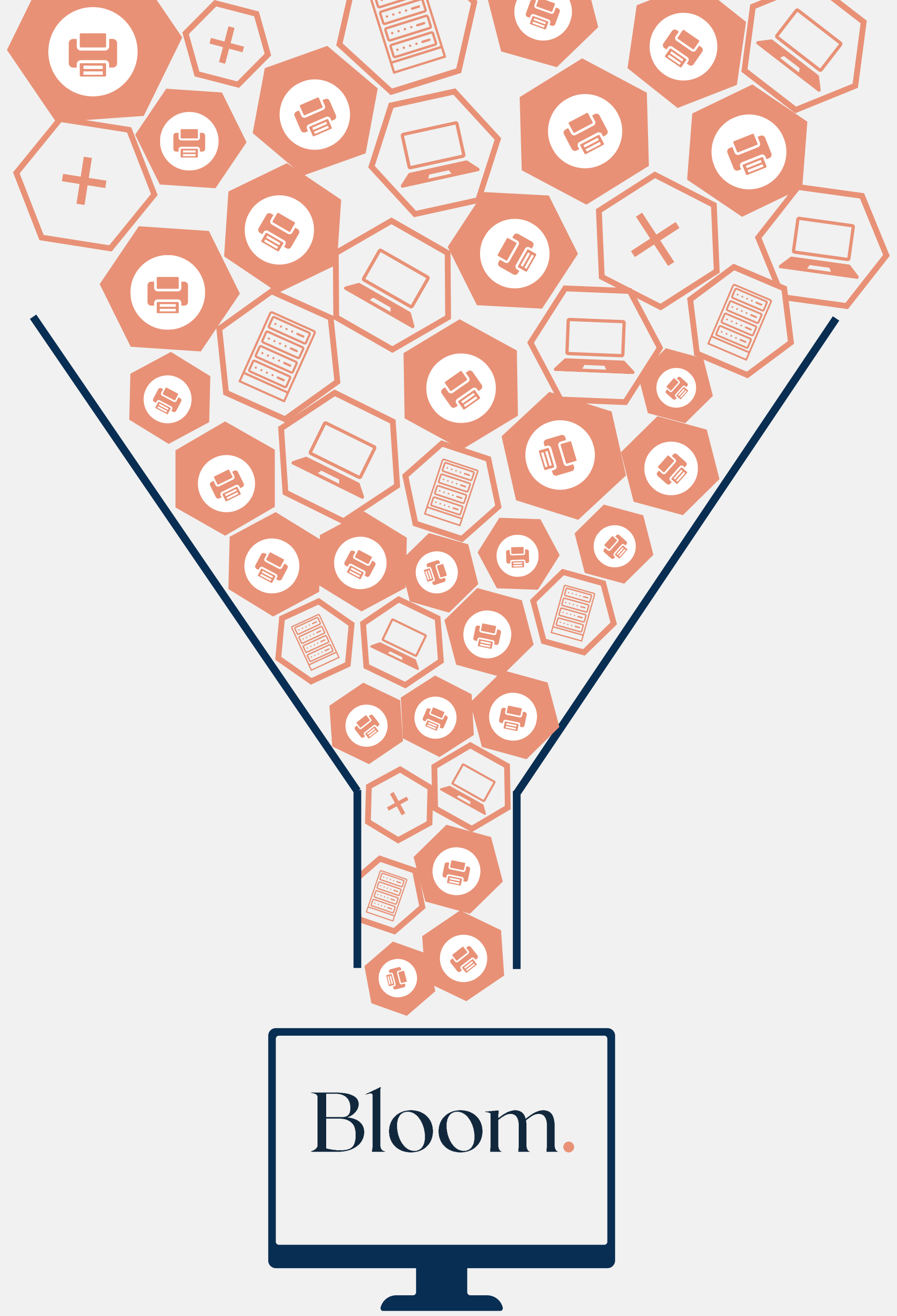
Bloom's **Real-Time Avoided Emissions Portal** calculates the verified environmental benefits for the end of life treatment of your IT assets – and track this down to the individual transaction.

PRINTERS

MOBILE DEVICES

SERVERS

PERIPHERALS



Avoided Emissions + Critical Minerals Conserved

Processor-related emissions

Order level data

NEW: Facility-level reporting

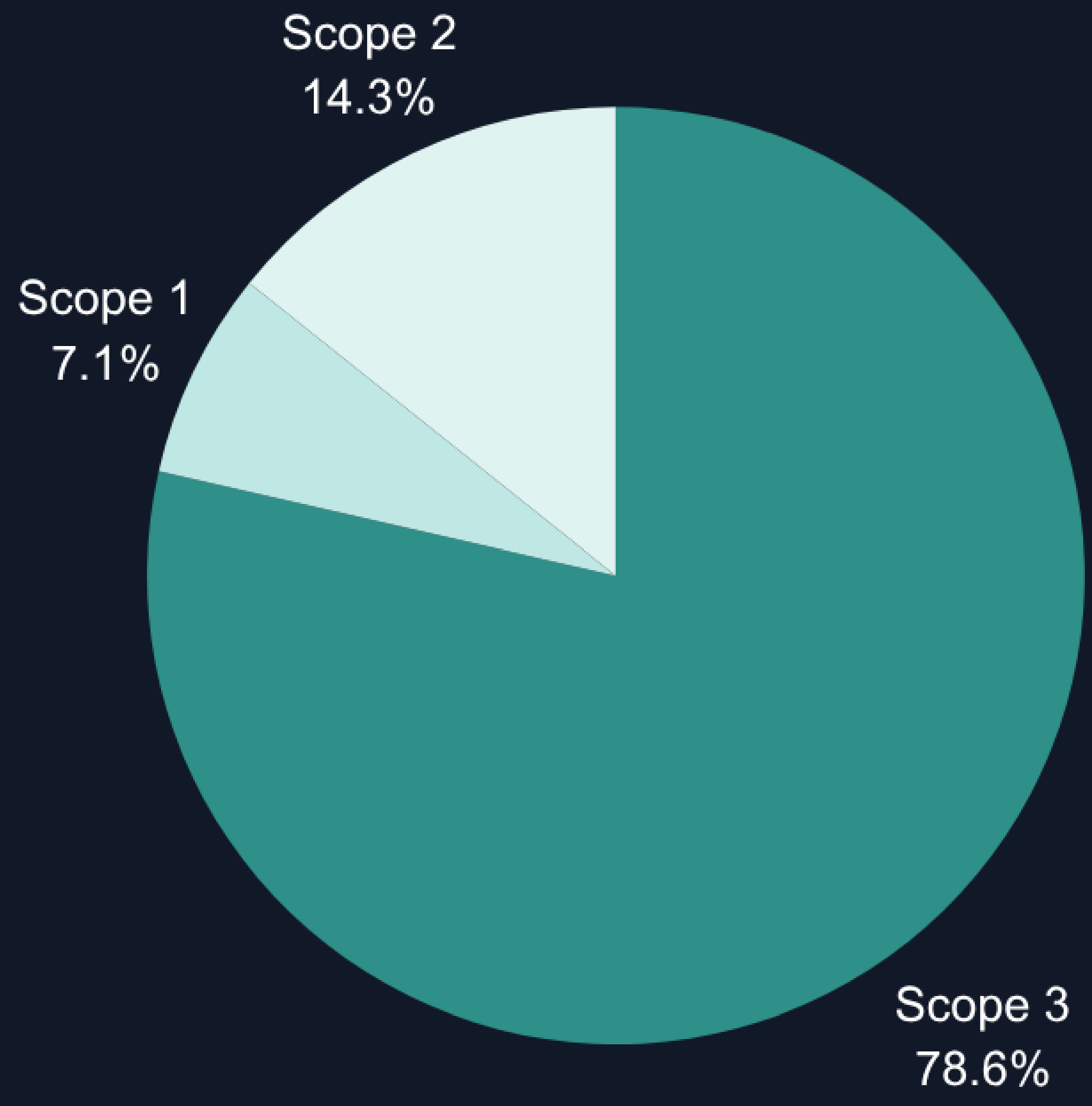
Impact reporting for thousands of assets and commodities

Every major company in the world is falling behind on its Scope 3 targets.

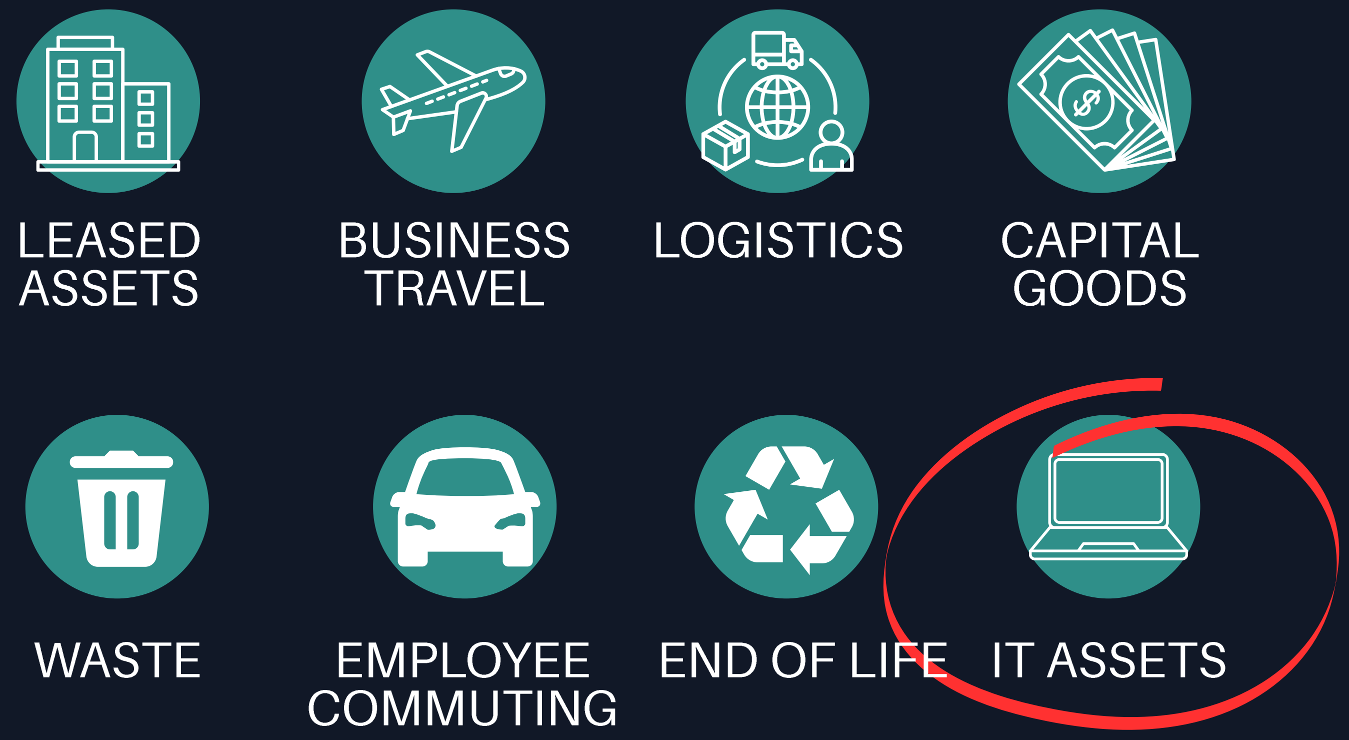
A solution to this problem sits in IT Assets.

Scope 3 emissions are inherently complex to measure and reduce.

Corporate Carbon Footprint



Scope 3 Examples



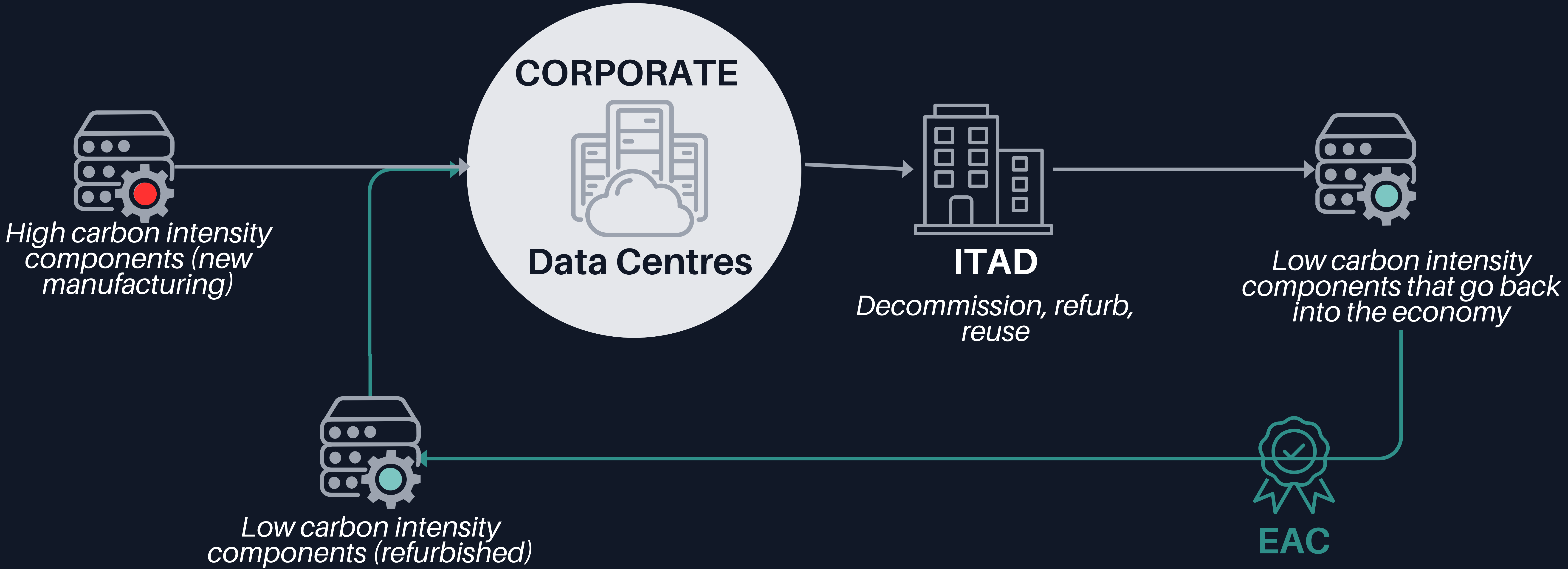
IT assets sit in Scope 3. They are an underlooked reduction opportunity. Until now.

Many of your coporate clients have set **aggressive targets** to reduce Scope 3 emissions.

IT Asset reuse as a Scope 3 reduction solution complements their existing sustainability strategy.

	MICROSOFT	DELL	META
TARGET COMMITMENT	Reduce Scope 3 emissions by more than half by 2030.	Reduce absolute Scope 3 emissions from purchased goods and services by 45% by 2030.	Cap Scope 3 emissions at 2021 levels by 2031.
IT ASSETS	Scope 3 emissions increased 26% from their 2020 baseline in FY24 (data centre construction, components).	Hardware manufacturer and ITAD client. Dell sits at the intersection of contributer to circular economy activities and OEM.	Capping rather than reducing is a signal that physical abatement alone won't get them there.

Environmental Attribute Certificates (EACs) are the market mechanism that links downstream processing activities to upstream procurement sustainability decisions.



The carbon reduction potential is up to 90% lower than IT Assets manufactured from mining. An EAC is not a physical switch, it's a low carbon claim.

New IT Assets Purchased

13,000 office computers

+

5,000 data centre hardware units

=

155 tons IT Assets

=10,800 tCO2e

Manufacturing of new devices and hardware

IT Asset Reuse Certificates

Circular IT lowers value chain emissions via life extension & re-use

Company purchases 155 metric tons EAC certificates

155 tons IT assets

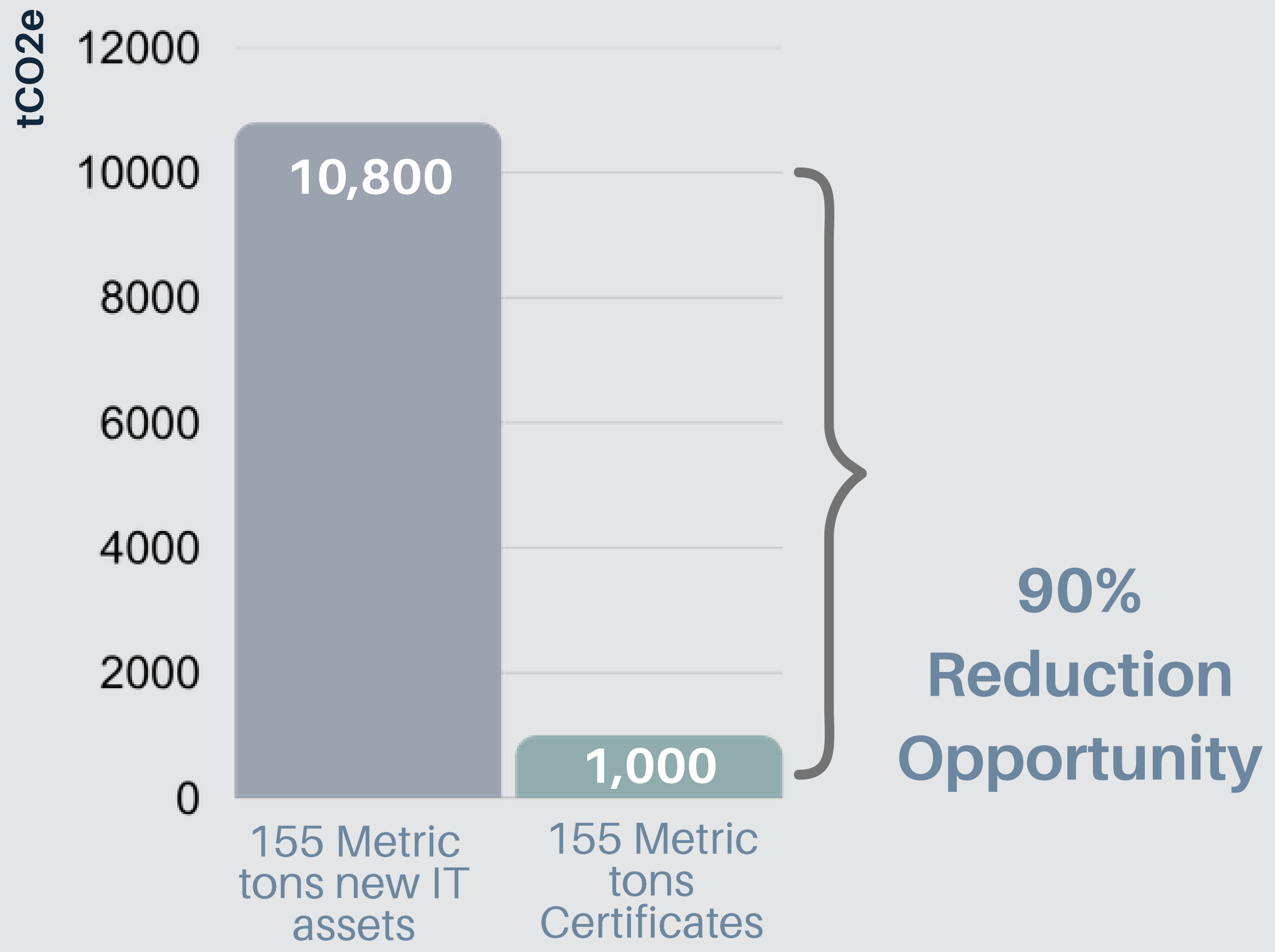
=1,000 tCO2e

Emissions intensity of refurbishing IT Assets

Low Carbon Intensity IT

Balance Sheet Impact - Refurbished IT Assets

155 metric tons of IT Assets



EACs are already implemented in several other sectors.

EAC Type	Commodity	Scope	Estimated Carbon Reduction Potential
Renewable Energy Certificates (RECs)	Electricity	Scope 2	85–100% vs grid average
Low-carbon fuels	Industrial fuels	Scope 3	50–80% vs fossil baseline
Bio-methane	Gas / heating	Scope 2/3	70–90% vs natural gas
Hydrogen EACs	Industrial / transport	Scope 3	70–95% vs grey hydrogen
Sustainable Aviation Fuel (SAF)	Aviation	Scope 3	50–80% vs conventional jet fuel
Energy efficiency certificates	Buildings / operations	Scope 2	20–40% vs baseline
Recycling and circularity certificates	Materials / packaging	Scope 3	40–70% vs virgin production
Carbon removals	Residual emissions	All	100% neutralisation
IT Asset Reuse Certificates (I-TECs)	IT hardware	Scope 3	~90% vs new manufacturing

For the first time in the history of corporate carbon accounting, what ITADs do has a formal place in a science-based target.

COMMODITY EACS ARE NOW EXPLICITLY PERMITTED

Published June 2026, it formally recognises commodity EACs and book-and-claim as instruments for Scope 3 target delivery.

I-TECS MEET ALL SIX SBTI INTEGRITY TESTS

I-TECs are aligned: verified carbon intensity per device, serialised registry, third-party assurance-ready, no double counting.

THREE WAYS CORPORATE BUYERS CAN USE I-TECS

Volume alignment, supplier alignment, absolute reduction.

THE WINDOW IS NOW

V1 closes for new targets end of 2027. Companies setting targets today are setting them under V2.0. ITAD vendors are now a climate governance decision.

Thank you.

Sebastian Foot
Founding Partner

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