# Beyond compliance: How Reporting Standards Drive Sustainable Innovation









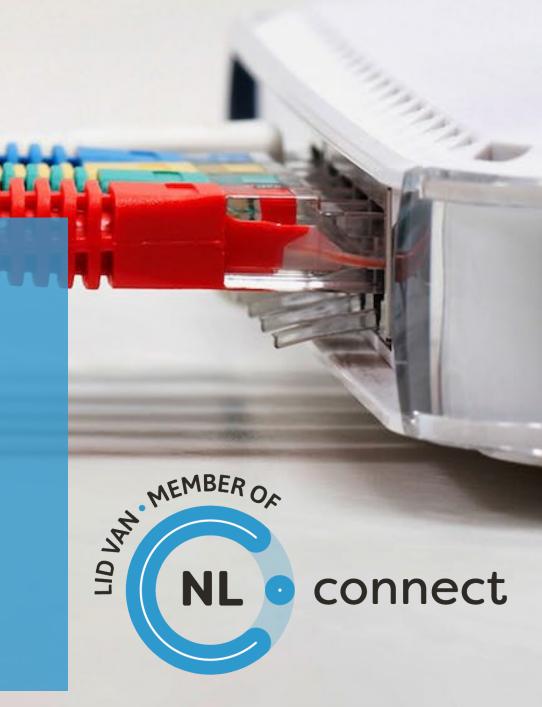


#### In cooperation with:



## 90 members from the broadband value chain

- Telecoms and broadband network owners (mobile, fiber, cable, DSL, fixed wireless)
- Telecoms contractors
- Vendors
- ISPs and TV providers















































































































































































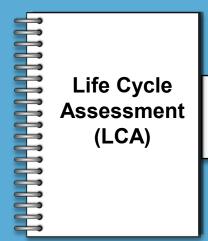
### **NLconnect PCRs**

- Dutch trade organization NLconnect has published Product Category Rules (PCRs), for active and passive fiber products
- The PCRs were developed in cooperation with several members of NLconnect, along with EPDs for several products

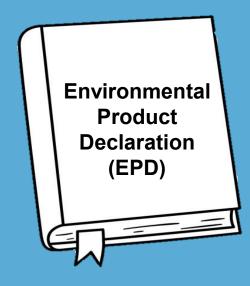


### Product Category Rules (PCR) approved!!





Which gets summarized in an



- Determines the the product category
- Determines the specification of the production and use phase
- Lays out which impacts the manufacturer must share

- Typically prepared by an independent LCA consultant
- Shows how the product is made and of which materials
- Explains each environmental impact and how it was measured

- Attempts to show LCA results in a shorter form
- verified by an independent expert
- Does not compare products, but can make comparison easier













DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Network Supporter of:





Global Goals & Principles

Reporting Frameworks



GREENHOUSE GAS PROTOCOL



The European Green Deal

Sustainability reporting landscape

#### ecovadis













**ESG** ratings

Regulation













## Odido – Angacom 2025

Christina Rieke - June 2025

## Odido at a glance: Telecom operator in the Netherlands

Mobile Base FY24

~7.3 million

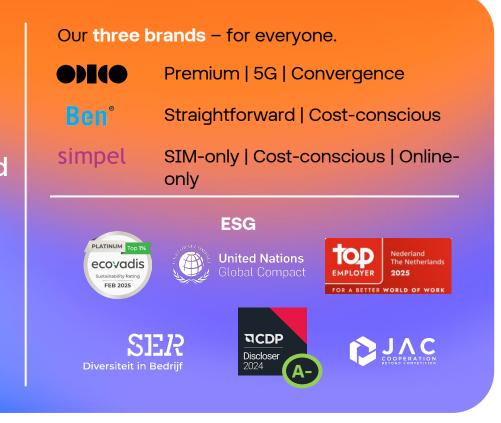
Largest in B2C postpaid

Access to the largest
FTTH Footprint
7.5 MM homes passed

Total revenue FY24 ~ €2.3 billion

Employees FY24
~1,800 FTEs

118 stores in NL



The best of

## Mobile, Fiber and TV,

accessible to everyone.

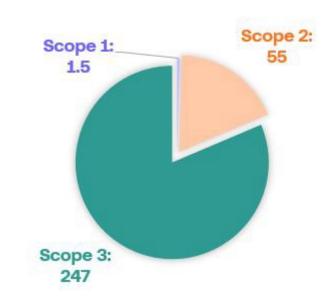


#### Our Sustainability ambitions – CO2 Emissions

#### Net Zero targets

- Net Zero Scope 1 & 2
   CO2 emissions in 2028
- Net Zero Scope 3
   CO2 emissions in 2040
- SBTi approved

#### CO2 Emissions\*



\*2024 in kilo tons CO2e

#### Scope 3 categories

#	Category	% of total
1	Electricity use of CPE's	36%
2	Production of smartphones	15%
3	Production of network equipment	10%
4	Production of CPE's	7%
5	Network installation & maintenance	5%
6	Roaming and interconnect	4%
7	Logistics	3%
8	Electricity use of smartphones	3%
9	Employee commuting & business travel	0.4 %
10	Various purchased goods and services	16%





## What do we need from suppliers?

Options how to calculate product-related CO2 emissions

Calculation methodology

spend-based

supplier-specific

indirect impact

product-specific



no impact



direct impact

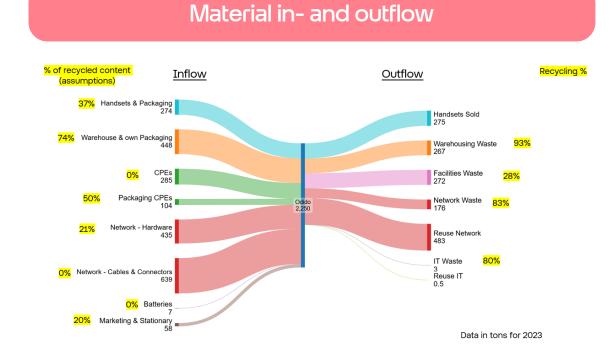
presentations Netceed and Genexis



### Our Sustainability ambitions - Circularity

#### Circularity targets

- Increase circular in- and outflow (targets under development)
- Improve data quality



what do we need from suppliers? 

presentations Netceed and Genexis



## Enhance your impact through Industry Collaborations

**NLconnect** (trade body for broadband in NL)

- Started with PCRs (Product Category Rules) to develop LCAs and PCFs
- Established permanent sustainability working group in 2024

#### Joint Alliance for CSR (JAC) (international telco operators)

- Joint audits and programmes focussing on improving CSR/ESG performance at suppliers
- Carbon Reduction Programme focussing on the joint supply chain
- Circularity working group focussing on supplier engagement and marketplace

#### **GSMA** (global trade body for mobile ecosystem)

- Surveys, business cases, roundtables, marketplace, joint targets etc
- Carbon calculator to quantify savings of circularity
- Working on a Scope 3 data platform





## Thank you





## Sustainability Supplier Engagement Program

Shaping the future of communication networks across the globe

#### Who we are and what we do

We are Netceed, your premier partner and One-Stop Shop for all active and passive materials, technical expertise, and logistics solutions.



**Distribution** and Logistics



Professional Services



**Consultancy Services** 



**Network Architecture** and **Design** 





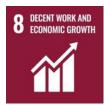
#### Working with our suppliers is key to achieve our sustainability roadmap

#### Climate action



Measure and continue reducing our impact on climate change

#### Ourpeople



Be the employer of choice through an ambitious talent management approach

#### Sustainable offer



Increase our sustainable product and services offer by working with our suppliers and innovating

#### Business ethics



Reinforce our corporate ethics culture

Contributing directly to 4 of the 17 United Nations Sustainable Development Goals



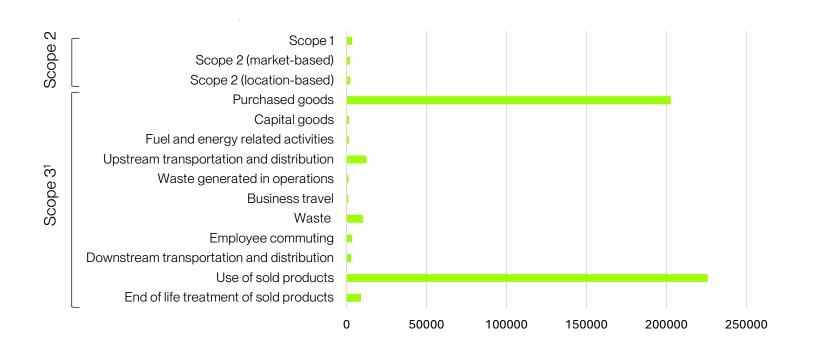


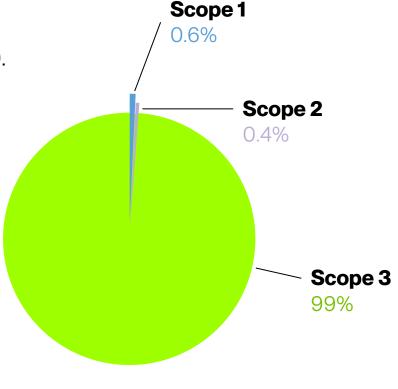
#### Our Greenhouse Gas Emissions

Total emissions was 467,733 t CO<sub>2</sub>e.

91% related to the production (cradle-to-gate) and the use phase of the products sold to the customers (i.e., when active products are in operation).

1% related to our buildings.





<sup>1</sup>Other emissions from scope 3 categories are equal to 0. <sup>2</sup>Scope 1 & 2: 95% of emissions must be covered by targets; Scope 3: 67% of emissions must be covered by targets.

#### Conclusion

Our targets have been developed in line with science, to remain in the 1.5 degrees pathway from the 2015 Paris Agreement.

We committed to the SBTi, and we aim for the below near-term targets to be approved in 2025:

63%

reduction in absolute scope 1 and 2 greenhouse gas emissions by 2035 (baseline 2022).

67%

reduction per unit value added scope 3 use of sold products category greenhouse gas emissions by 2035 (baseline 2022).

67%

of our suppliers by spend covering purchased goods and services to have science-based targets by 2030.

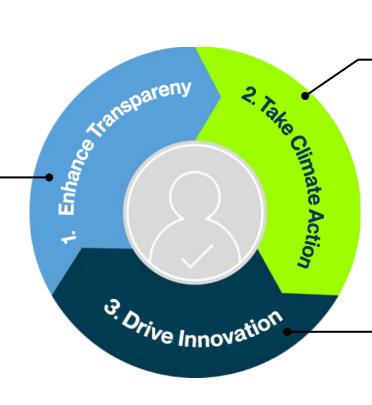


#### Our supply chain sustainability ambitions



#### **Enhance Transparency**

We'll work together to better understand and measure the environmental and social impacts of our supply chain





We'll partner to identify emission reduction and energy efficiency opportunities



#### **Drive Innovation**

We'll collaborate to create sustainable solutions



#### Partnering for sustainable impact

We engage **40 key suppliers**, representing **70% of Netceed's annual spend**, to drive progress across:

#### **Due Diligence**

Ensuring our Supplier Code of Conduct is respected

#### **Climate Action**

Setting GHG emission reduction targets

#### **Eco-Design**

Scaling material passports and sustainable design rules

Through **webinars and 1-on-1 discussions**, we collaborate year-round on a shared sustainability roadmap.

Netceed Sustainability Supplier Engagement Program is a true **cross functional effort** led by Procurement and Sustainability teams.

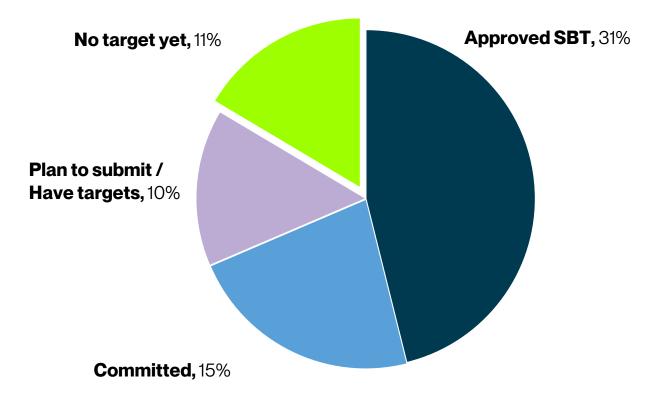


#### Climate Action

#### **Setting science-based targets**

- Our target: 67% of our supplier by spend covering purchased goods and services will set science-based targets by 2030.
- Engaging our supplier is critical for driving down our indirect greenhouse gas emissions. Through this commitment, we help drive commitment and reduction in our value chain and in our industry.

#### Overview top suppliers\* engagement with the SBTI



Status: June 2025 \*representing 67% of our 2024 total spent



#### Partnering with operator

#### Microfocus

#### **Regular Duct** $7 \times 14 \times 10$

Material	Unit	Measured Qty.	Weight (g)	Recycled (%)	Recyclable (%)	Circularity (%)
PE	M	750	439,653.00	0%	100%	50%

#### Microfocus

**Eco Duct** 7×14×10

Material	Unit	Measured Qty.	Weight (g)	Recycled (%)	Recyclable (%)	Circularity (%)
PE	M	750	439,653.00	100%	100%	100%

Summary	
Total weight (g)	439,653.00
Circularity in	<u>-</u>
Circularity total	50.00 %

Summary	
Total weight (g)	439,653.00
Circularity in	99.90 %
Circularity total	99.95 %



#### Partnering with supplier

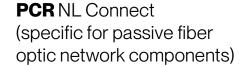
Standard Material (1 kg)	5.8 kg CO <sub>2</sub>	100 %
Eco Material (1 kg) (Recycled and Bio plastics)	1.1 kg CO <sub>2</sub>	19 %
Reduction	4.7 kg CO <sub>2</sub>	81%

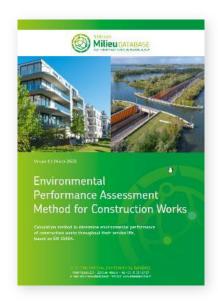




### The Product Carbon Footprint has been determined in accordance with:







**Environmental Performance Assessment Method** for
Construction Works



## Thank you

For more information, please visit our Booth A50 (Hall 8).







## Genexis -ANGACOM 2025

An introduction to three examples at Genexis













#### Genexis - innovative broadband solutions





- 20+ years of experience in FTTH & broadband industry
- Headquarters in Eindhoven & Stockholm
- □ ±175 employees
- 8 offices worldwide
- Global network of partners & distributors
- Leading European CPE vendor
- Noted sustainability bond on Nasdaq Stockholm













#### Fiber to the Home



#### Patented fiber termination

GPON, XGSPON, PtP 1 – 10 Gb/s, CATV, Voice

#### **Connected Home**

IOWRT



#### Fiber-speed, fully managed

Wi-Fi Ethernet & Fiber gateways, EasyMesh router-extenders Connectivity

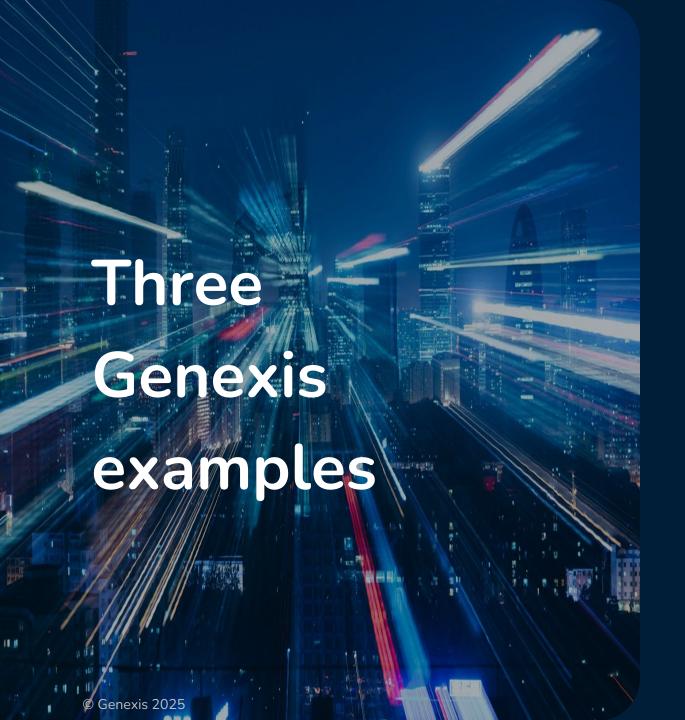
Management

CloudSight

#### Management made Easy

From basic provisioning to prevention of helpdesk calls





1. Product carbon footprint

2. Power consumption

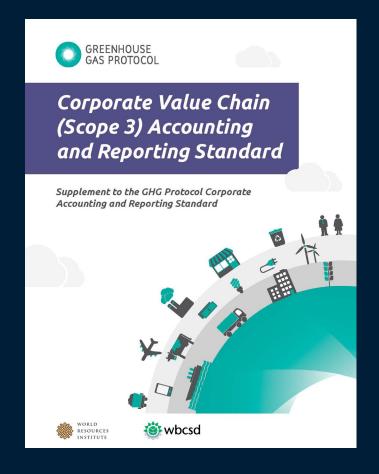
3. Product circularity

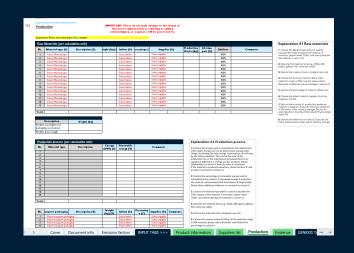


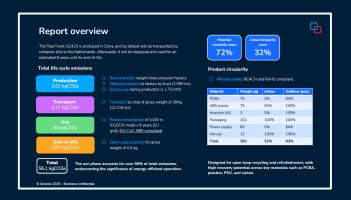
#### **Product carbon footprint**



### **FiberTwist Series**2.5G PtP ONT









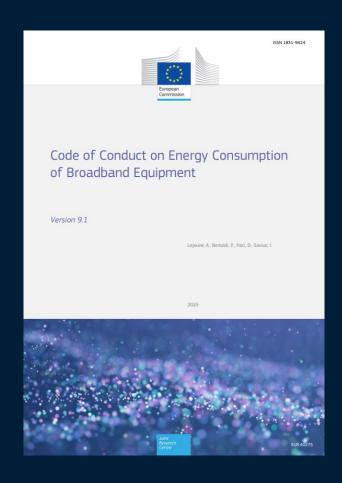
**Aura Series** Wi-Fi 7 Router





#### **Power consumption**





**FiberTwist Series**2.5G PtP ONT



**Aura Series**Wi-Fi 7 Router





#### **Product circularity**

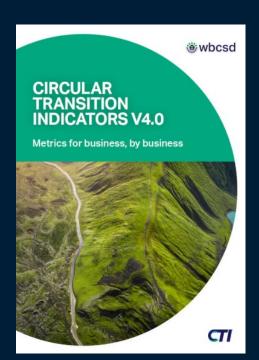


### **FiberTwist Series**2.5G PtP ONT



#### **Aura Series** Wi-Fi 7 Router





# | Mass (g) | Non-virgin | Patents | Non-virgin | Patents | Patents

#### Material circularity calculation sheet

Based on CTI framework v4.0 definitions and formulas.

Material	Mass (g)	Non-virgin – renewable (circular) %	Non-virgin  - non-renewable (circular) %	Virgin – renewable (circular) %	Virgin – non-renewable (linear) %	Weight of non-virgin materials (g)	Actual recovery %	(Default) Recovery potential %	Weight of waste generated (g)	Weight of recovered waste (g)	Circular score
Plastic	283	0%	90%	0%	9%	254,7	12%	100%	249,04	33,96	51%
PCB	200	0%	0%	0%	100%	0	12%	84%	176	24	5%
Packaging	287	100%	0%	0%	0%	287	12%	100%	252,56	34,44	56%
PSU adapter	159	0%	0%	0%	100%	0	12%	84%	139,92	19,08	5%
Aluminum	134	0%	0%	0%	100%	0	12%	100%	117,92	16,08	6%
Ethernet cable	40	0%	0%	0%	100%	0	12%	84%	35,2	4,8	5%
Total	1103	26%	23%	0%	51%	541,7	12%	94%	970,64	132,36	30%

#### Adopt the Standards. Accelerate the Change.







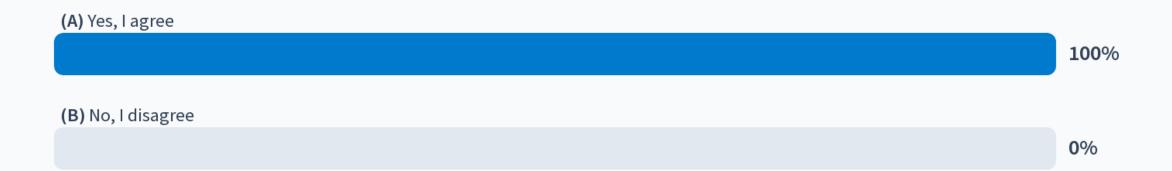
# Bringing the World to Everyone's Home

www.genexis.eu

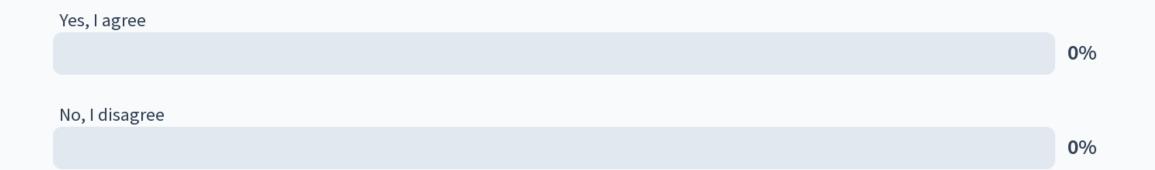


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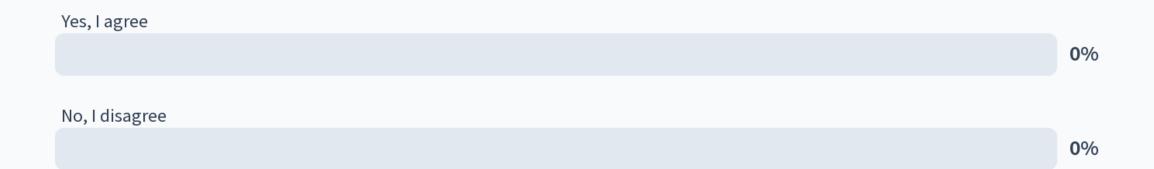
#### Governments should impose stricter regulations to enforce corporate sustainability



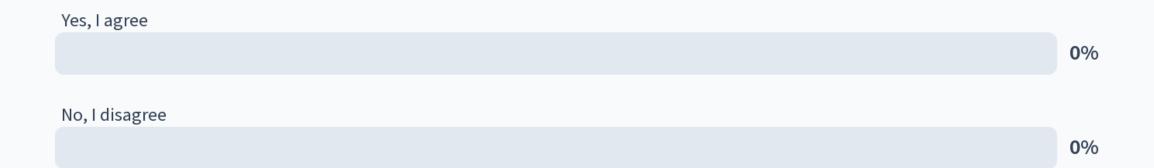
## The CO<sub>2</sub> reduction targets set by companies for scope 3 are unrealistic, because they are too dependent on their suppliers



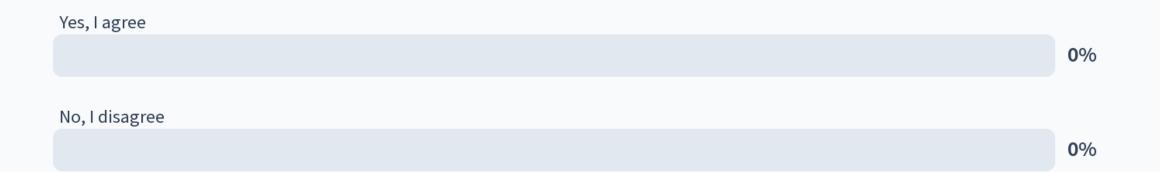
## The fiber industry should focus on network rollout and not (yet) concern itself with sustainability



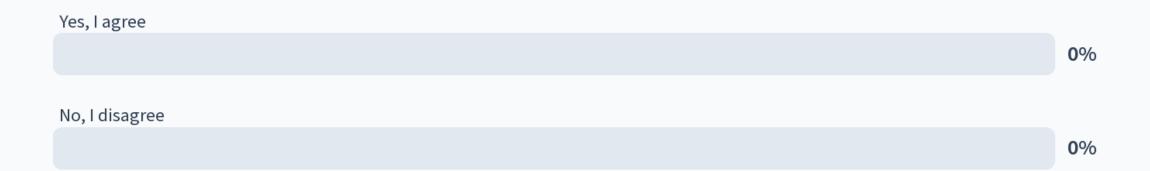
## Reporting obligations place an unreasonable burden on businesses and distracts from real climate action



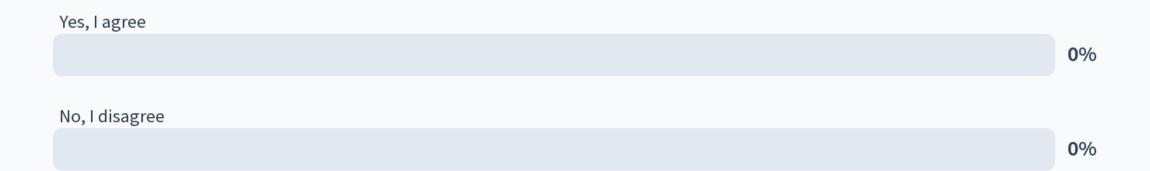
## Without reporting obligations like the CSRD, the telecom and fiber industry would never have taken real steps towards decarbonization



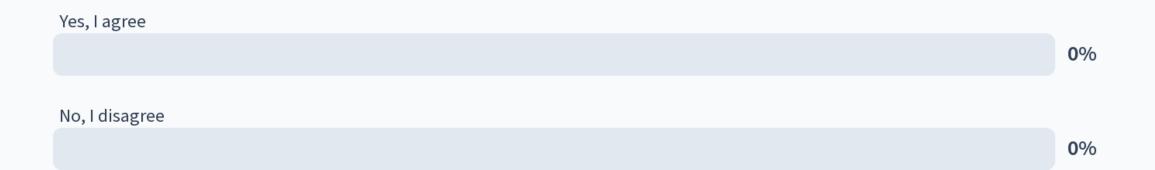
Although parts of the CSRD have been postponed through the Omnibus Directive, there are still strong business drivers to improve and measure sustainability in our industry's value chain



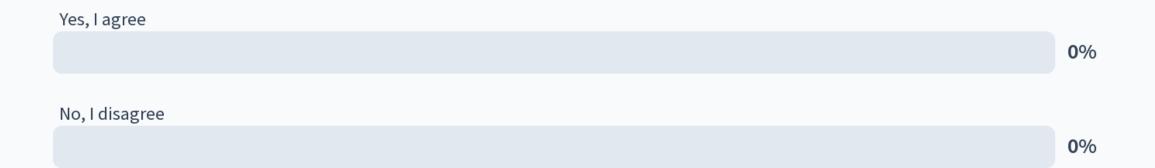
#### If ESG is not part of your company DNA, you will struggle to attract young talent



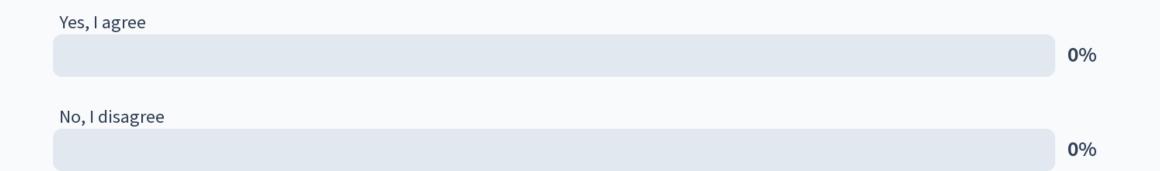
## Thanks to standards like SBTi and CTI, the sector is able to set realistic sustainability targets and track progress in a measurable way



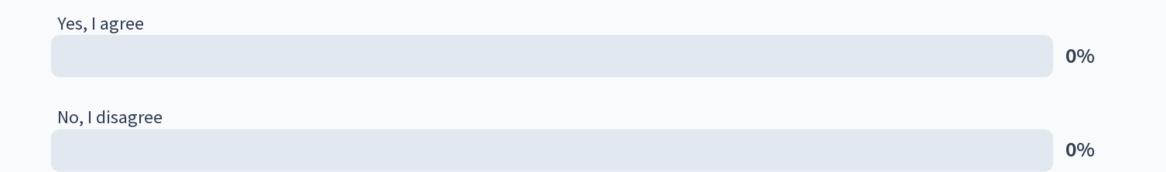
## Spend-based emissions calculations have had their day — within three years, all major operators will report scope 3 emissions through LCA's



## The NL connect PCRs will become key references for product-level emissions reporting across the international fiber industry



Because major operators have already invested in proper sustainability reporting under the CSRD, they now require product-level emissions data from their suppliers — pushing pressure for LCA-based data down the value chain



## Let's use it!













www.nlconnect.org



## The Presentations of the Technology Panels are available here:

Die Vorträge der Technik-Panels finden Sie unter:

https://angacom.de/en/visitors/downloads

Password: ac2025#download