# Sustainability in the Tire Industry

Global problems require mutual solutions SiGREEN dynamic PCF evaluation



# What is Your Motivation to drive Sustainability in the Tire Industry

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You want to be a leader in covering latest trends and drive decisions towards those trends You want to link environmental sustainability and profitability of your business based on facts and figures

What is

# **Your Motivation**

to drive Sustainability in the Tire Industry

You want to impress your stakeholders and shareholders by convincing all of them about your green attitude

Nature and environment are your key guidance to hand over a better world to your kids

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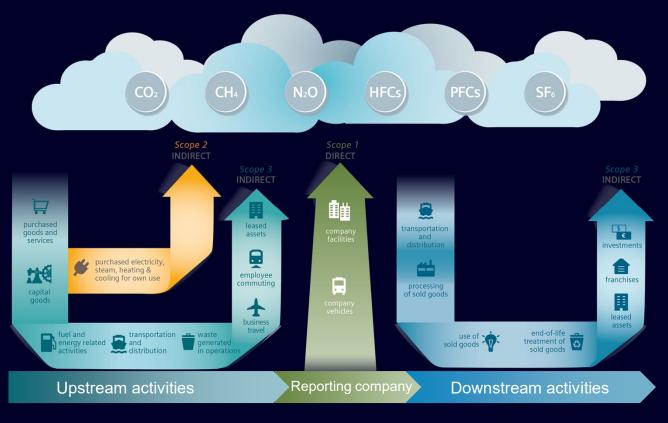
# What limits Your Motivation to drive Sustainability in the Tire Industry ?

## What limits Your Motivation to drive Sustainability in the Tire Industry?

- Complexity
- Legal regulations
- · Challenging terminology / missing specialists
- Input from suppliers along the supply chain
- No data input available due to missing or incompatible interfaces
- Limited transparency about own energy and resource consumption

#### This results in ...

- Just fulfilling minimum requirements from legislation
- By staying with static average assumptions for your products' carbon footprint (PCF)
- Paying too much CO<sub>2</sub> tax and loosing competitive advantages in front of your customers



1) ESG: Environmental, Social, and Governance

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# What is Your Solution

# to drive Sustainability in the Tire Industry



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#### What is your solution to drive Sustainability in the Tire Industry? How SiGREEN enables a sustainable industry

With Sigreen we enable the industry to manage **Product Carbon Footprints** 



Today. For free. For you.

Enable customers to establish specific, dynamic and trustworthy PCF as a basis for data-driven decisions that accelerate decarbonization in their own operations as well as their supply chains – today.

Connect industries by ensuring compliance with all relevant PCF standards. Integrated with the siemens portfolio and third-party applications as an option – not a prerequisite.

Continuously enhance SiGREEN to a solution to address further ESG criteria, supporting product passports and a circular economy in the future.

Moving from carbon footprint reporting to active PCF management How dynamic PCFs turn carbon footprints into a management tool

> From static PCF reporting... Conventional data base approach

- With up to 90% supply chain emissions, most of the PCF is based on static database averages
- (Sub-) supplier improvements are disconnected from a manufacturers PCF
- The same (sub-) supplier material is calculated multiple times by different manufacturers

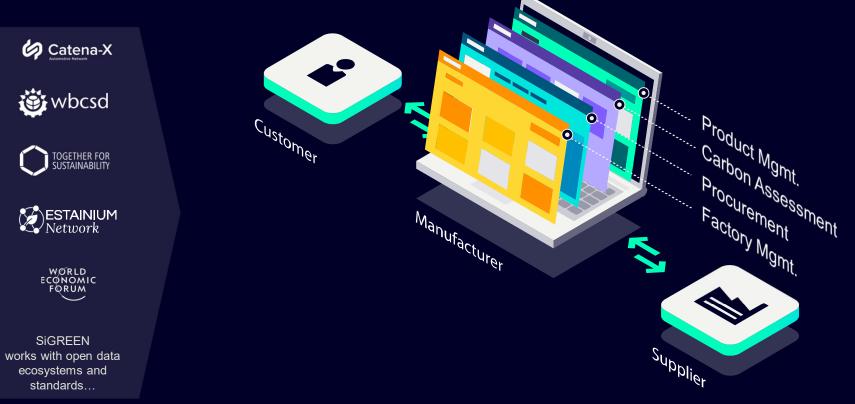
#### ...to dynamic PCF management SiGREEN PCF chaining approach



- Efficient communication allows for frequent and pro-active updates that create dynamic PCF
- (Sub-) suppliers' improvements quantify in PCFs, making them a management tool
- Dynamic PCF enable precise target setting and efficient reduction measures with quantifiable impact

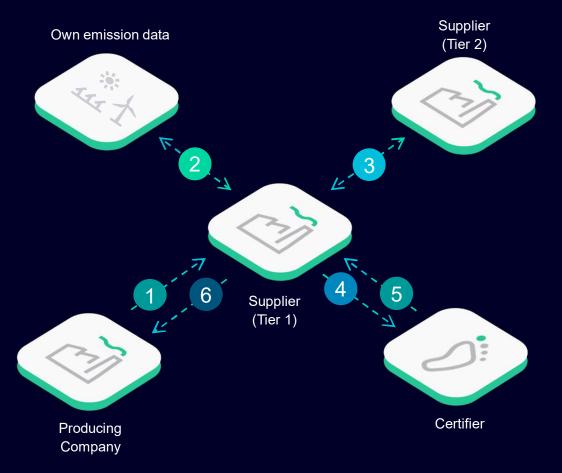
#### **SiGREEN enables PCF management in cross-functional collaboration** From your suppliers' input to your response to customers

Including the standards of ...

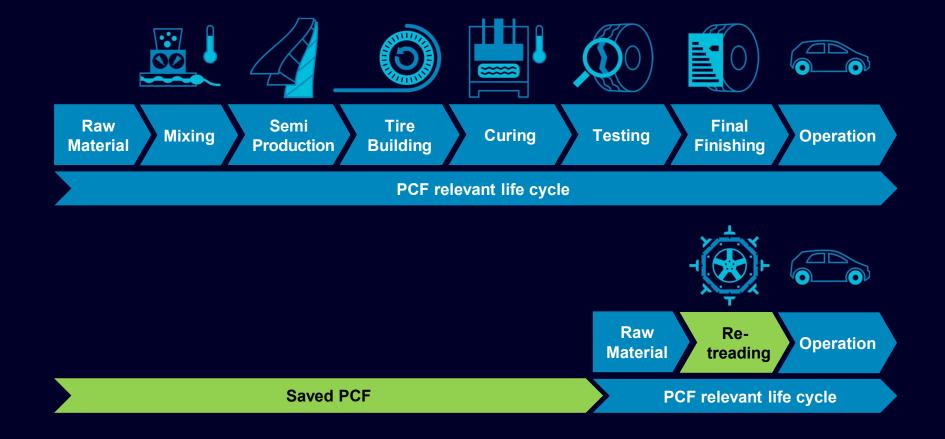


#### A Product's Carbon Footprint Journey What needs to be done to determine and aggregate PCF values?

- Producing company requests supplier for PCF
- 2 Supplier pulls own emission data (scope 1 & 2)
- Supplier obtains upstream emission data (scope 3)
- 4 Supplier calculates PCF and sends to certifier
- Certifier verifies based on standards and issues a certificate (credential block chain)
- 6 Supplier share PCF as digital copy of verifiable credential to producing company



#### **SiGREEN provides transparency about PCF savings in Retreading** If an end of life tire is retreaded its PCF is set to zero



### **Follow and fulfill**

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### Website

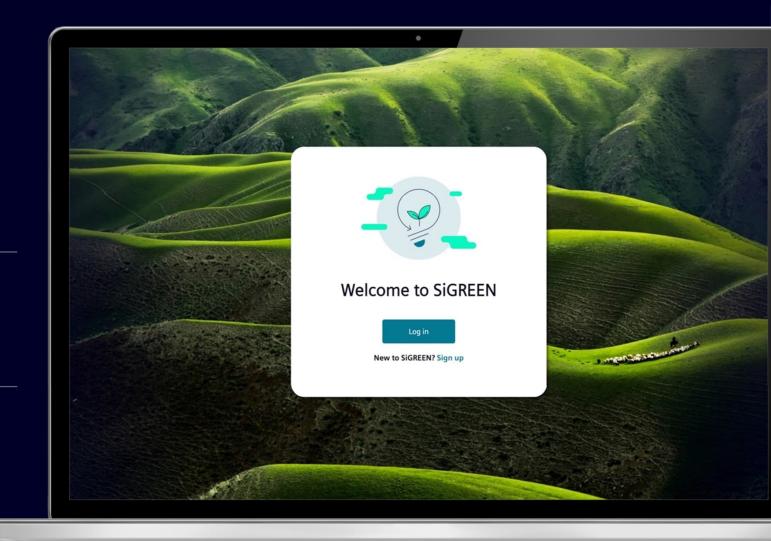
siemens.com/sigreen

#### Demo

https://app-demo-ext.sigreenplayground.siemens.cloud/

#### **Get started**

app.sigreen.siemens.com



# Let's drive sustainability together!

For more information, please visit our booth in hall 21, # 8058



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