Semantics for logistics emissions exchange

Teams: SFC & SINE Foundation

Supported by WBCSD

Teams

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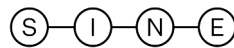Technical Manager, Digitalization Lead

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Smart Freight Centre

A global NGO supporting action towards efficient and zero emissions global freight and logistics.

Martin Pompéry
Co-Founder & Co-Chairman

Prasad Tilloo
Technical Project Manager

SINE Foundation

A think and do tank ("tech for good NGO") offering solutions to data sharing dilemmas.

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Outline
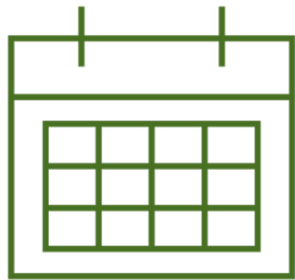
Goal: Present iLEAP & gauge participation interest

Standards	2'
Importance of standardization	5'
Project description	5'
Get involved	2'
Q&A	5'

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What is new with the standards for CO2 accounting?

Publication of ISO14083

The new norm for logistics emissions accounting

INTERNATIONAL STANDARD

ISO 14083

First edition
2023-03

Greenhouse gases — Quantification and reporting of greenhouse gas emissions arising from transport chain operations

Please share your feedback about the standard. Scan the QR code with your phone or click the link
Customer Feedback Form

Reference number
ISO 14083:2023(E)

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For now, the **only globally** recognized **methodology** to calculate and emissions consistently across the multi-modal logistics supply chain

The basis of CSRD and CountEmissionsEU

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GLEC Framework

The standard for logistics emissions accounting

Global Logistics Emissions Council Framework

Launch 2023

For logistics Emissions Accounting and Reporting | V3.0

GLEC GLOBAL LOGISTICS EMISSIONS COUNCIL · cefic · Smart Freight Centre

Calculating GHG transport and logistics emissions for the European Chemical Industry

Module 5 of the GLEC Framework written in partnership with Cefic

September, 2021

The GLEC framework will act as an "easy-to-digest" version which is kept up to the industry trends.

Module 5 is specific to the **chemical industry** and defines how to account for emissions:
- Definition of TOCs
- Specific operations: cleaning, pipeline transport

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Importance of standardisation

Importance of standardisation?

Set a common language

Set then a common "grammar rule" guidance

Facilitate the exchange of GHG information between parties by focusing on standardising the data variables and constraints
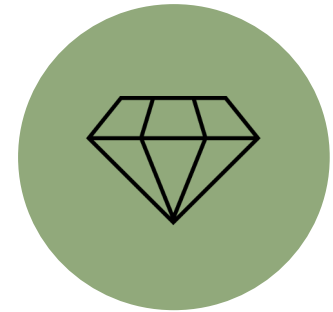
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Why now? CSRD, CountEmissionsEU

EU policies will require more transparency …

Addresses many companies, requires them to set **targets and report progress** based on those commitments

Limited **assurance** has been introduced currently progressing to higher levels over time.

Early compliance offers **advantages against slow adopters** as the production & distribution can be optimised on carbon measures ahead of competitors.

ECTA RC Training Workshop: iLEAP project

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Conclusion !

These new standards will shape up the regulatory scene and translate soon to corporate requirements for **reporting** and **assurance**.

Engaging now in semantics alignment projects and investing in IT development will ensure easier **compliance** & lay the foundation to the **revision of SQAS & ECTA RC KPIs**

ECTA RC Training Workshop: iLEAP project
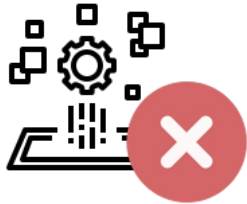
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Integrating Logistics Emissions and PCFs – description

Out of scope

We are not going to be keeping a copy of participants data

We are not going to create a platform of solutions

Every participant is in control of their data

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Project Description

Motivation & problem statement

1 Compliance with upcoming **regulatory obligations**

2 More **customers are requesting** PCFs from companies

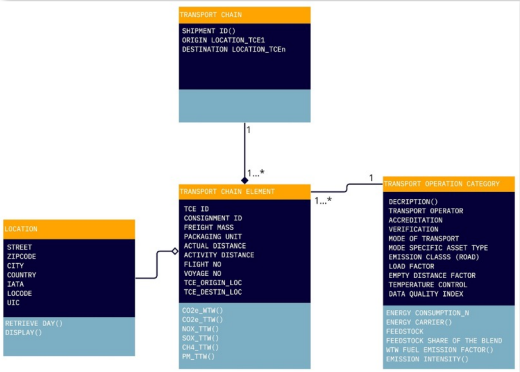**3** **Logistics** emissions are often a significant (**>20%**) share of a PCF

iLEAP

Integrating Logistics emissions and PCFs

Do you find difficulties with variable names and units & struggle to manipulate GHG data?

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Bridging the gap…
Integrating Logistics Emissions into PCFs

GLEC Data Model for Logistics

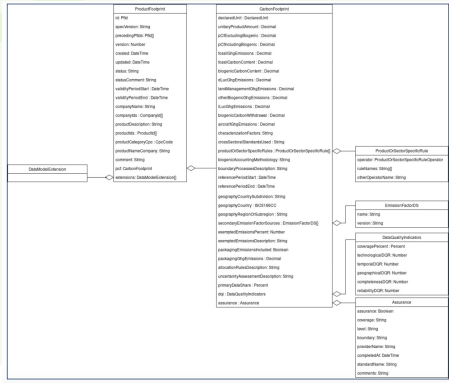**Material acquisition & pre-processing** → **Production** → **Distribution & storage** → **Use** → **End-of-life**

PACT Data Model for PCFs

Based on GHG Protocol. Product Life Cycle Accounting and Reporting Standard

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Transparency on the emissions impact created by products is essential for effective decarbonization business decisions

Setting accurate decarbonization targets

Determining how much reduction to aim for

Identifying where to tackle in the value chain

Understanding exactly where to engage to reduce

Tracking performance

Measuring effectiveness of decarbonization activities over time

PACT enables the businesses to **record**, **report** and **act** on **reliable** and **accessible** emissions data to drive corporate climate action, particularly in the supply chain via a Global / Common Standard for exchanging Product Carbon Footprint Emission data.
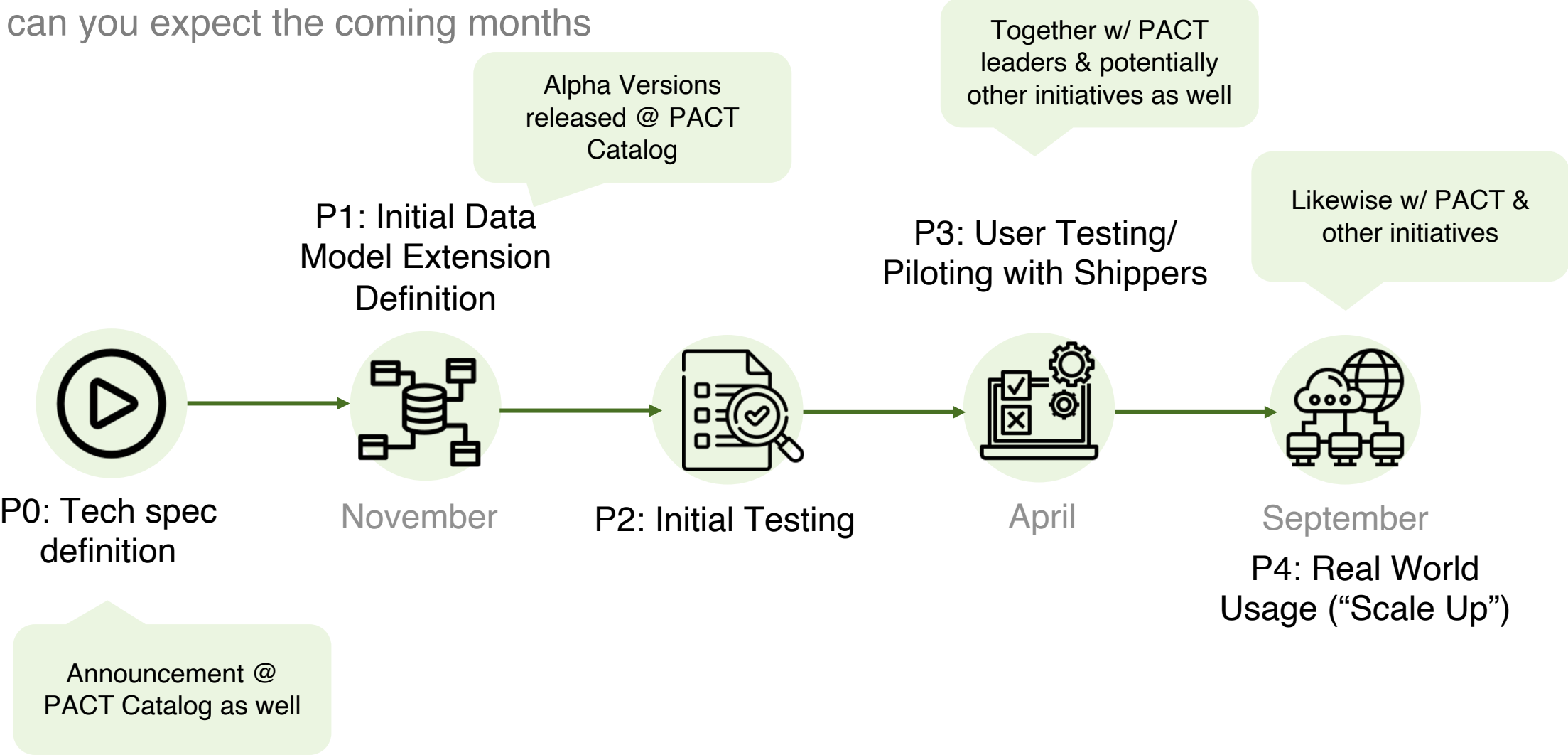
Such data is key to -
- Setting **accurate** net zero targets,
- Identifying **specific intervention areas** in the value chain with maximum (decarbonization) impact
- **Accurately tracking performance** of emission reduction initiatives against established targets

PACT

Do you want to be involved?

Project timeline

What can you expect the coming months

Alpha Versions released @ PACT Catalog

Together w/ PACT leaders & potentially other initiatives as well

P1: Initial Data Model Extension Definition

P3: User Testing/ Piloting with Shippers

Likewise w/ PACT & other initiatives

P0: Tech spec definition

November

P2: Initial Testing

April

September

P4: Real World Usage ("Scale Up")

Announcement @ PACT Catalog as well

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Added value

What is the value for each stakeholder
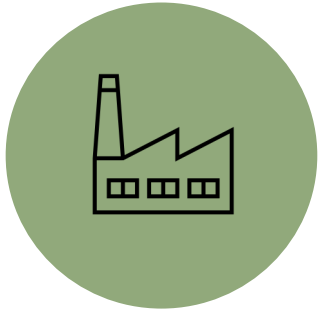
Shippers **reflect supply chain decarbonization efforts** at product level faster

Carriers and LSPs bring **visibility at TCE level** and **shape the standard** to report logistics emissions to their customers

Tool providers bring in **experience in using data attributes** to calculate emissions and help **shape the technical specifications** while updating their tools

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Questions

1 Use your phone to **scan the QR code** shown on the right and **navigate to the website** displayed. Alternatively, open your browser and **go to** www.menti.com. When prompted, **enter the code 5518 9978.**

2 **Wait** until the survey is shown on your screen.

3 Please **answer the questions.**

Mentimeter

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Thank you for your attention

For more information, please visit:

You can also reach me at:
violetta.matzoros@smartfreightcentre.org