Product level measurements of carbon emissions

Presentation on ISO 14067:2018 carbon product footprint standard guidance

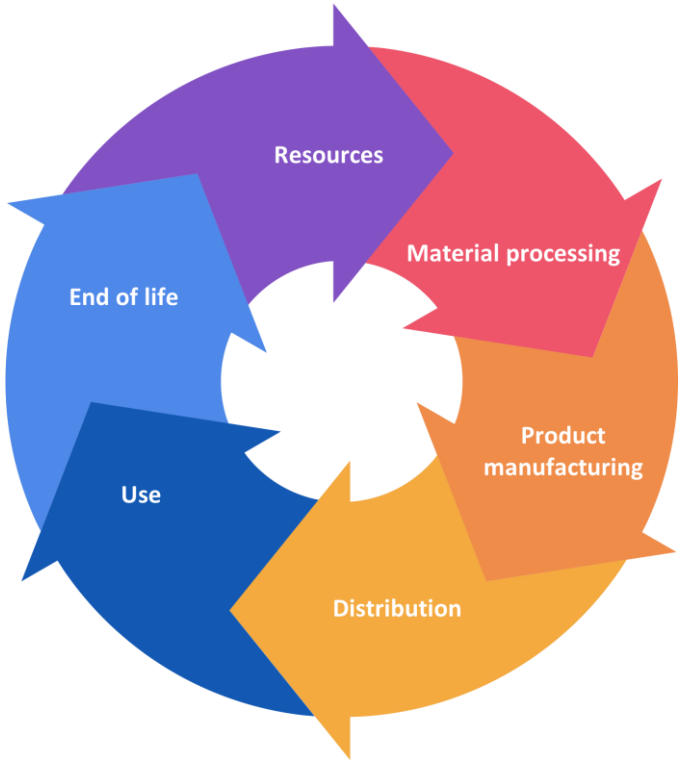
Jürgen Giegrich,
ISO Technical Committee 207 / SC 7
Head of German Delegation

February 4th, 2025

Definition of Carbon Footprint of a product

Sum of **greenhouse gas emissions** and greenhouse gas **removals** in a **product system**, expressed as **CO_2 equivalents** and based on a **life cycle assessment** using the single **impact category** of climate change.

LCA (Life Cycle Assessment) is a methodology that allows to evaluate the environmental impact of a product during its entire life cycle, **from cradle** (supply of raw materials) **to grave** (end of life of the product).



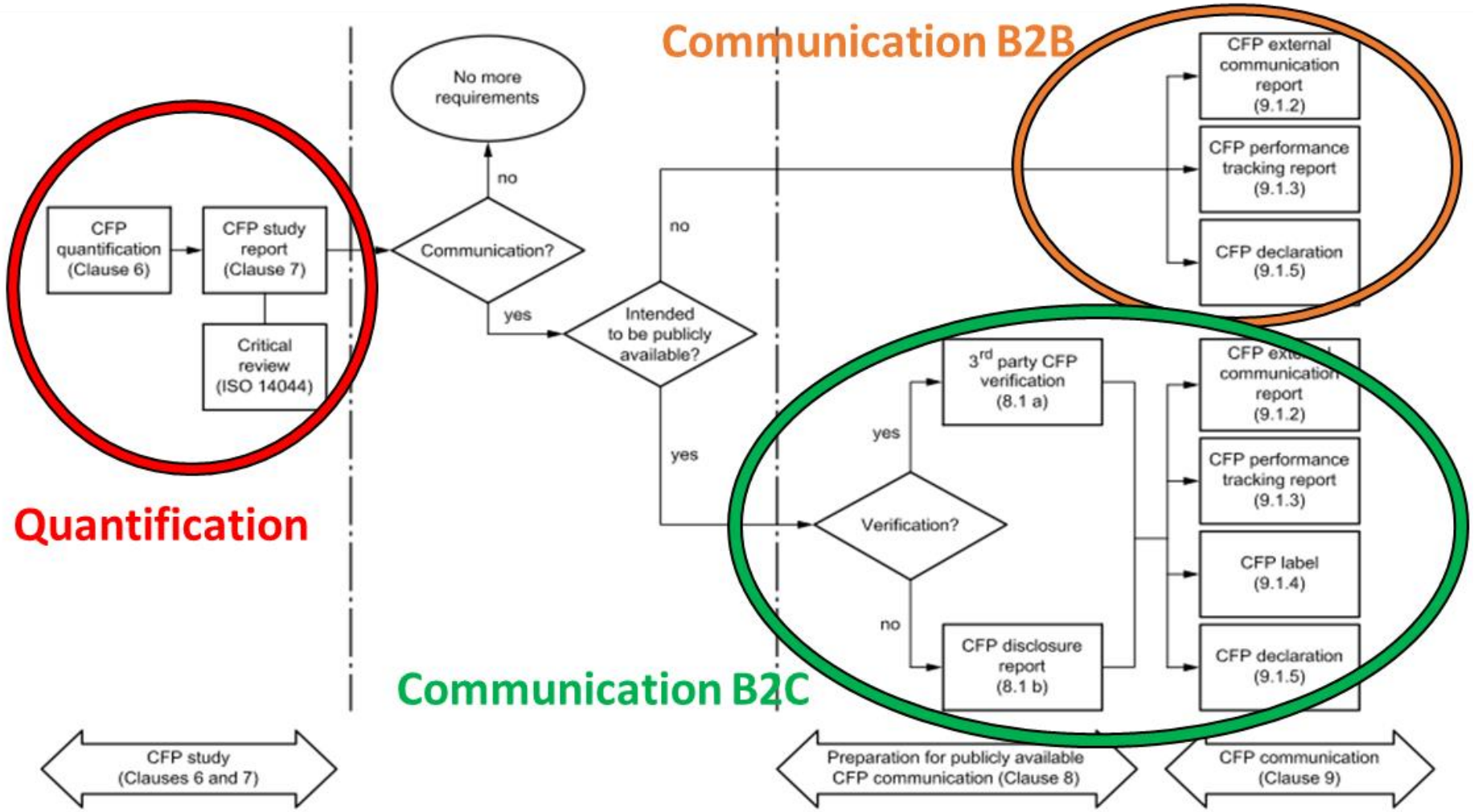
The Background of ISO 14067:2018

Title of standard:

Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification (ISO 14067:2018)

- Starting point: Market demand especially from retailers the 2000ies
- First standardization paper published by BSI in 2008: Publicly Available Specification (PAS) 2050 - Specification for the assessment of the life cycle greenhouse gas emissions of goods and services
- Start of the standardization project at ISO level in April 2008 in Vienna

Development of ISO/TS 14067:2013



“4 Application

As with all ISO International Standards, this Technical Specification is not intended to create barriers to trade or to contradict any WTO requirements.”

From ISO/TS 14067:2013 to ISO 14067:2018

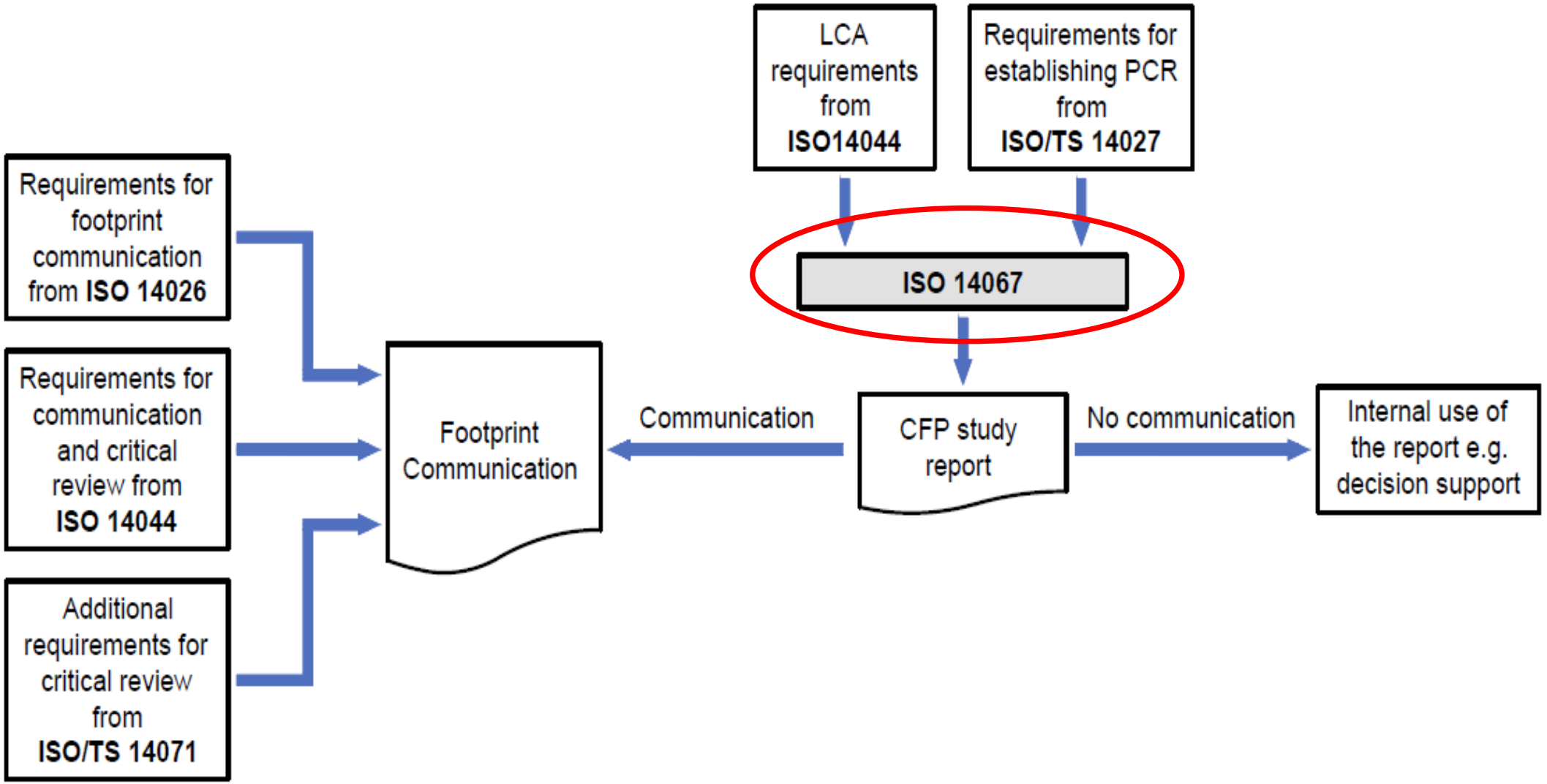
In September 2015 in Delhi the start of work to **transform** the Technical Specification into an **International Standard** was confirmed, with the following mandate:

The revision will be in accordance with the ISO TC207 SC7 "CFP AHG" recommendation to remove clauses from ISO TS 14067 ***related to communication, Product Category Rules (PCR) and verification*** *and replace with references to* ***appropriate ISO TC 207 standards.***

The revision of the new ISO will ***focus only*** *on* ***CFP quantification****.*



ISO 14067 in the context of other ISO Standards



The revision of ISO 14067 started in October 2024

Every **5 years** it will be decided if an ISO standard shall be confirmed, revised/amended or withdrawn. In 2024 it was **decided to revise** ISO 14067:2018.



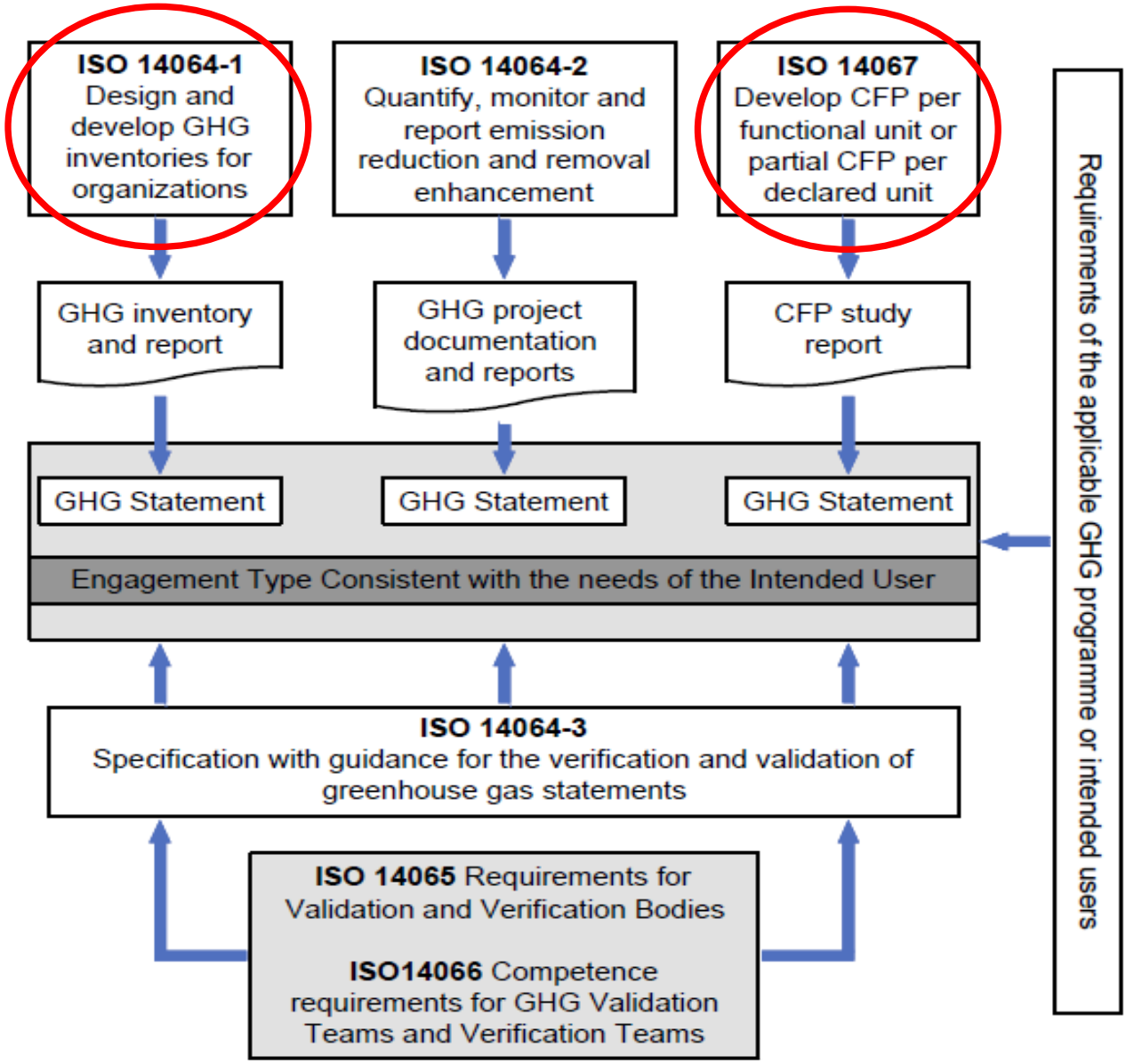
In **October 2024**, during a hybrid work session week of the ISO Technical Committee 207 SC 7 “Greenhouse gas and climate change management and related activities” in London the **Working Group 8** (WG 8) was established to revise ISO 14067.

Convenor is Mr. Daniele Pernigotti, Italy.

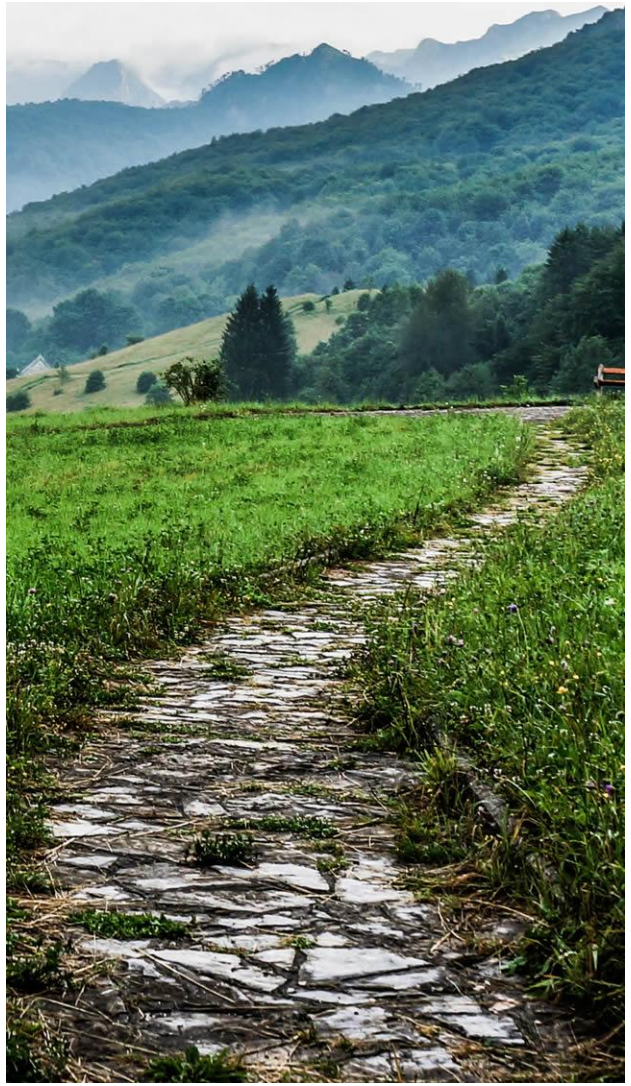
Challenge: Alignment of ISO 14067 and ISO 14064-1

In parallel to the revision of ISO 14067 it was decided to **also revise ISO 14064-1:2018**, Greenhouse gases — Part 1: Specification with guidance at the **organization level** for quantification and reporting of greenhouse gas emissions and removals at WG 4.

WG 4 and WG 8 committed themselves to a **close cooperation** and a **full alignment** between **Carbon Footprint of Products** (ISO 14067) and **Carbon Footprint of Organizations** (14064-1).



Some challenges ahead of us



- To combine the **different views** of experts for **organizational footprint** and **product footprint**

- To find a way to **best include** life cycle thinking for indirect GHG emissions from **product value chains** in the **organizational footprint**

- To further **develop** credible **quantification schemes** for topics such as
  - market based approaches (chain of custody)
  - alignment of biogenic carbon accounting
  - consistency of removal concepts