



**Evolving Sustainable Perspective** 

INTERNATIONAL CARBON ACCOUNTING STANDARDS Carbon Footprint of Product Daniele Pernigotti O4<sup>th</sup> october 2022 Prospettive sostenibili in evoluzione



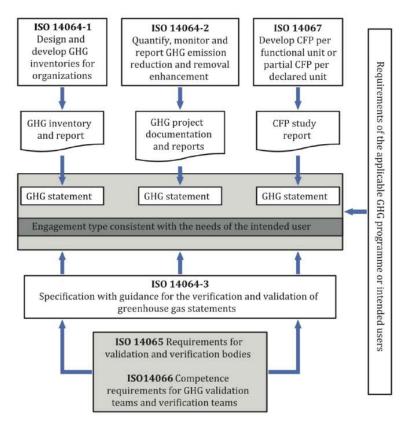
#### **Daniele Pernigotti**

- CEO Aequilibria, environmental consultancy and training firm, founded in 2002 and specialized in carbon management.
- Active since about 20 years in the international standardization context, he **coordinated** the development of the **standard on Carbon Footprint of Product** (ISO 14067).
- Chair of the Technical Commitee on Climate Change of CEN (TC 467).
- Chair of ISO/TC 207/SC2 on conformity assessment and of an ISO Working Group on Circular Economy.
- Since 2006, he personally follows the **UNFCCC negotiations**.
- He is a Technical advisor on GHG schemes for Accredia, he was Lead Assessor for Accredia, as well as for ANAB (USA), ONAC (Colombia) and was Technical Expert for RvA (Netherlands).
- ↔ He can count on a significant experience with consultancy and trainings at international level.

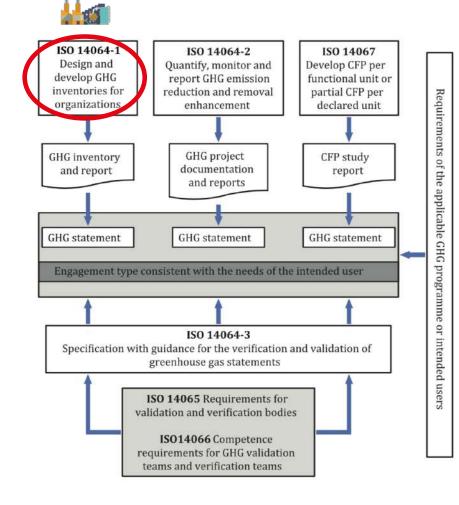


# The ISO package for carbon accounting

Currently, there are **several standards on carbon accounting**, but only ISO provides a full package of standards for a consistent **monitoring**, **reporting**, **verification** and **accreditation** on GHG.

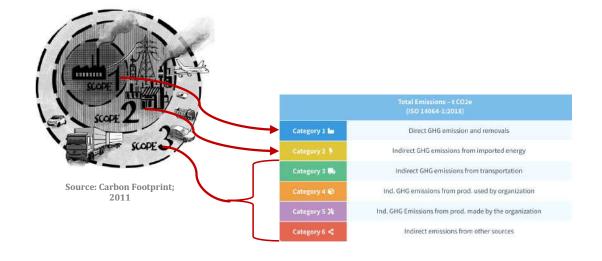


#### ISO 14064-1

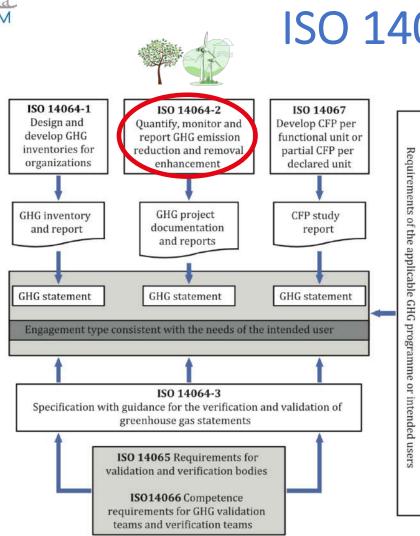


MNASIUM

Specifies principles and requirements to **project**, **develop**, **manage** and **report GHG inventories** at **organization level**.







#### ISO 14064-2

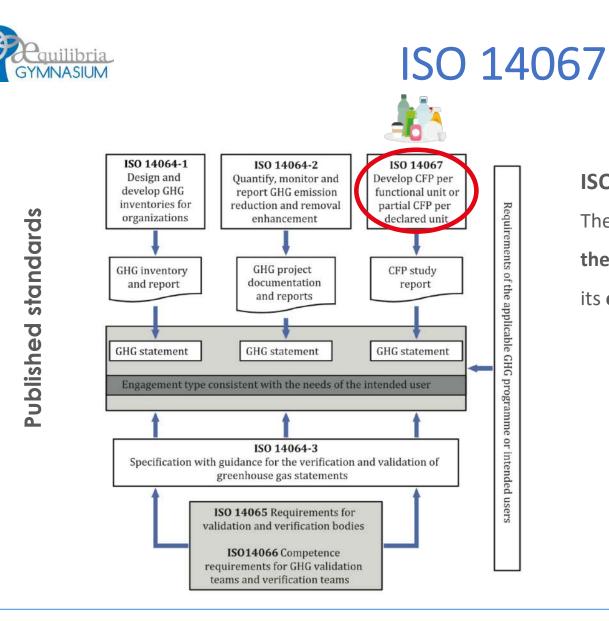
#### ISO 14064-2

Specifies principles and requirements at the project level for the quantification, monitoring and reporting of activities intended to cause GHG emission reductions or removal enhancements.



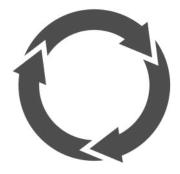
Prospettive sostenibili in evoluzione

Published standards



#### ISO 14067

The standard that describes how to quantify the Carbon Footprint of a product, considering its entire life cycle.





## Carbon footprint of a product (CFP)

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.





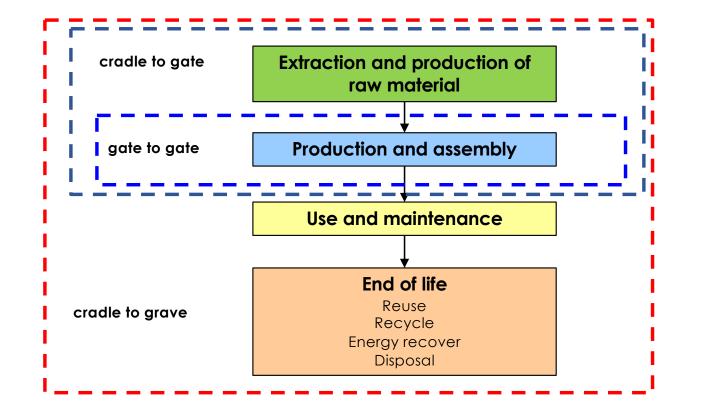
## Life cycle perspective

The **quantification** of a CFP takes in consideration **the entire life cycle of a product**, including acquisition of raw material, design, production, transportation/delivery, use and the end-of-life treatment.





#### **CFP** and partial CFP



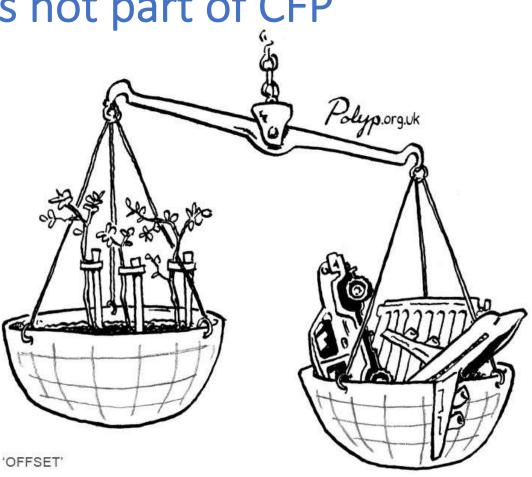
Requirements for the quantification of the **partial carbon footprint** of a product (partial CFP) are also provided.



### Offsetting is not part of CFP

The offsetting is outside

the scope of ISO 14067.





#### **Product category**

#### **Different products** require **different approaches** for the quantification of the **CFP**.





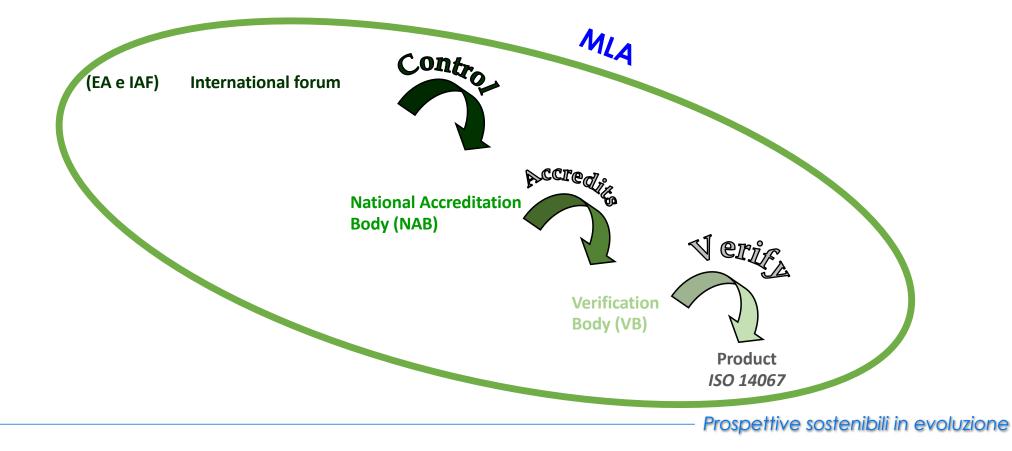
## Product category rules (PCR)

Set of specific rules, requirements and guidelines for developing Type III environmental declarations and footprint communications for one or more product categories.





# A common approach for verification and accreditation





### "ISO 14026 Guidelines for footprint communications

**ISO 14026** requires the implementation of **a programme** to **manage** the **communication**.





The **MoU** was recently **extended** to include two other major international Programmes, creating a **strong foundation** to pave the way for a possible path to the MRA.

The new Group of 5 signatories consists of:

- Carbon Footprint Italy CFI (Italy)
- The Climate Registry TCR (California USA)
- **o** Toitu Envirocare (New Zeland)
- Programa País de Carbono Neutralidad PPCN (Costa Rica)
- Thai Carbon Labelling Programme (Thailand)

The signing took place at the COP26 in Glasgow on November 5<sup>th</sup>, 2021.



## **THANK YOU FOR YOUR ATTENTION!**

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