CARBON FOOTPRINT ADD-ON

measuring, reducing & offsetting emissions in coffee cultivation and supply chains



CLIMATE FRIENDLY COFFEE

4C SERVICES GMBH

Growing consumer demand for sustainably sourced coffee led 4C to respond with a tailored solution to understand the current impact of companies' & their supply chains' operations on the climate.

For the development of the Add-On, recognized **methodologies**, **standards** and **initiatives** were **researched** and considered, such as ISO 14067:2018, GHG Protocol Product Standard, PAS 2050:2011 and several IPCC guidelines. It is aligned with the guide from the Science Based Target Initiative (SBTi) and the Paris Agreement target to limit global warming to 1.5°C. The methodology developed was **tested on the ground** by 4C in various pilots.

THE ADD-ON ALLOWS SYSTEM USERS TO...







calculate carbon footprint





identify emission reduction options





use carbon offsetting for remaining emissions

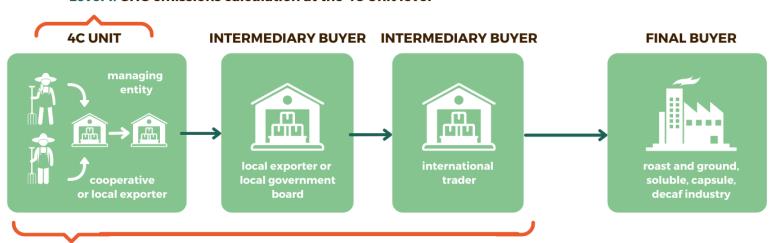
EXPECTED RESULTS:



Participating 4C system users can implement the methodology of this Add-On in four levels, making it possible to apply the 4C Carbon Footprint Add-On gradually and in different arrangements of the coffee value chain. Those who wish to benefit from it need to conduct a baseline assessment for the GHG emissions calculation on the unit (farm) level.

To reach level 2, the downstream supply chain will be included in the calculation. For level 3, it is needed to present an improvement plan including emission reduction measures. These certified coffee producers may use the claim 4C Climate Friendly Coffee. Remaining emissions can be offset to achieve Climate Neutral Coffee.

Level 1: GHG emissions calculation at the 4C Unit level



Level 2: GHG emissions calculation at the 4C Unit level and Intermediary Buyers including logistics until gate of last entity in boundary

Option: inclusion of final buyers

Level 3: level 1 or 2 including the reduction of the GHG emissions

Level 4: level 3 including carbon compensation