

Project title : CARBOVAL - Development of a method to calculate greenhouse gas emissions for a cocoa produced in Madagascar

Project place	Project cost	Role in the project	Technical and financial sponsors	Dates
Madagascar	35 000 €	Carbon Compensation Expertise	VALRHONA	January 2021 - March 2021

Project's goals and results

Main goals

The final aim of Valrhona is the **full scope carbon neutrality by 2025**. Valrhona controls its supply industry via long-term partnerships. For some origins, it seems that to calculate the carbon footprints of Valrhona, used greenhouse gas are far from the reality. Indeed, the **culture system is organic and under shade**, and it seems likely that emissions linked to production of this cocoa are distinctly lower opposed to the global average emissions of 12 kgCO₂eq

Specific objectives

SO1. Develop a method to calculate greenhouse gas emission for a cocoa produced in Madagascar on the basis of two established areas from Valrhona's partners to check used hypothesis in the carbon footprints calculation of Valrhona and adjust it

SO2. Develop a quantification method, on a more solid basis, from the absorption of the CO₂ of the cocoa parcels of Madagascar to the build of a reasonable and verifiable carbon compensation system

Beneficiaries

Results

R1. Soil inventory results about **carbon storage** in plantations

R2. Analysis of **deforestation dynamics** in the area and the impact in terms of greenhouse gas emission

R3. The tool **ExACT Value Chain** calibrated with datas of Valrhona allows also to establish a carbon track record the closest to Valrhona's supply reality

R4. A strategy proposition of **carbon compensation** is contributing to the carbon neutral objective full scope 2025 of Valrhona

Cocoa and chameleon in the Millot plantation

Activities

A1. Carbon stocks evaluation in agroforestry parcels of Millo plantation on the West and in representatives parcels on the East

A2. Historic evaluation of deforestation on parcels to estimate carbon impact linked to deforestation and to change of soils occupation

A3. Maps analysis of existing deforestation (Global Forest Watch) to evaluate deforestation to the level of parcels

A4. From the results obtained by the cartography analysis, conduct a slight analysis of agricultural dynamics of the area through area studies that could explain deforestation

A5. Evaluation of the accompanying producers program towards agroforestry put in place in the East

A6. Results integration of the change of use of the soil, agroforestry sequestration and of other emission sources (transport, transformation...) in a recognizable, easily replicable and transparent carbon track record tool

A7. Training to take the tool over for using it in other areas if necessary

A8. Mixt insetting/offsetting compensation strategy proposition including obtained results from the previous phase