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 absortion 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 Valrona'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 agroferestry 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 programm 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