

## Enabling Resilient Supply of Coffee by Increasing Soil Health

### Section 1: Concept Overview

**Project Objective:** The project aims at enabling resilient supply of coffee production through responsible soil health management in coffee plantations. Increased soil health in deeper soil layers and enhanced microbial activity are the key targets of this project.

- Brief Description:** Addressing climate change emergency in terms of mitigation and adaptation is one of the most challenging priorities for agriculture. The UN Framework and Convention to Climate Change has recognized that healthy soils are essential to reduce GHG emissions and increasing their carbon content significantly strengthens resilience to climate change. However, according to the UN Food and Agriculture Organization, 33% of global soils are degraded up to date. Thus, there is an urgent need to focus on soil protection and application of good agricultural practices and soil conservation measures to realize their full potential for carbon sequestration, biodiversity protection and resilience to climate change. The focus of this project is therefore to increase soil fertility and soil organic carbon through reducing soil acidity, protecting the soil from erosion, and resulting surge of microbial activity in healthier soils.

**Country of Focus:** Brazil

#### Key Performance Indicators:

Indicator	Metric	Baseline	Project Target
Restored soils	Hectares	Current situation to be evaluated at project start	To be defined, according to the specific, region, size of sourcing area and current situation
Benefited producers	Quantity of producers	Size of group to be defined at project start	100% of initially defined group

**Please indicate how this project aligns with the 2025 Targets:**

- Resilient supply
  Improve well-being & prosperity  
 Strengthen market demand
  Conserve nature

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**Project Status:** New project planned to commence soon

**Project Timeline:** *Start date: At any time End date: Three years*

## Section 2: Partnerships

### Involved Parties:

Organization Name	Role in Project	Contribution
4C Services GmbH	Project manager	In-kind, with expertise in soil health, soil conservation and good agricultural practices
Meo Carbon Solutions GmbH	Project implementer	In-kind, with expertise in GHG emissions calculation
Industry partners	Project industry partner	Financial and with expertise in the coffee sector as buyer of sustainable coffee
Local partners	Project implementers	In-kind, local expertise in soil health and soil conservation

### Expectations for Partner Engagement:

This project is fit for partners who are willing to make sustainability commitments with a uniquely designed and impact-driven project. Potential partners proactively address the issue of soil fertility and climate change, contributing to SDG 12, Responsible Consumption and Production, and SDG 13, Climate Action. This project will provide partners an opportunity to become not only a sustainability forerunner but also an innovator in the market, investing in and sourcing climate friendly coffee grown on healthy soils. Ideally, partners to this project would like to add an exclusive and innovative project to their sustainability portfolio, which showcases corporate responsibility and creates brand awareness.

**Deadline for partnership opportunities:** 12/31/2021

## Section 3: Funding

### Project Costs:

<b>Total project costs</b>	To be defined together with project industry partner
<b>Secured funding</b>	0
<b>Funding needed</b>	ditto

**Explanation of Funding Use:** Funds are needed to implement the steps within the structure of the project:

1. Selection of coffee farms and producer engagement.
2. Gathering of data on cultivation input.
3. Soil sampling and definition of reference soil conditions.
4. Definition of appropriate measures for soil conservation, soil acidity correction based on reference soil conditions and plantation-specific characteristics.
5. Issuance of technical bulletin with recommendations on sustainable soil management and provision of technical support to coffee producers.
6. Monitoring and evaluation of results to identify progress of the implementation of acidity correction measures through soil sampling, soil acidity measurement and other data collection.
7. Calculation of GHG emissions in coffee production to identify the magnitude of the GHG savings driven by the project.

**For more information on this project, please contact Gustavo Bacchi at [bacchi@4C-Services.org](mailto:bacchi@4C-Services.org)**