café dos contos

INTRODUCING OURSELVES

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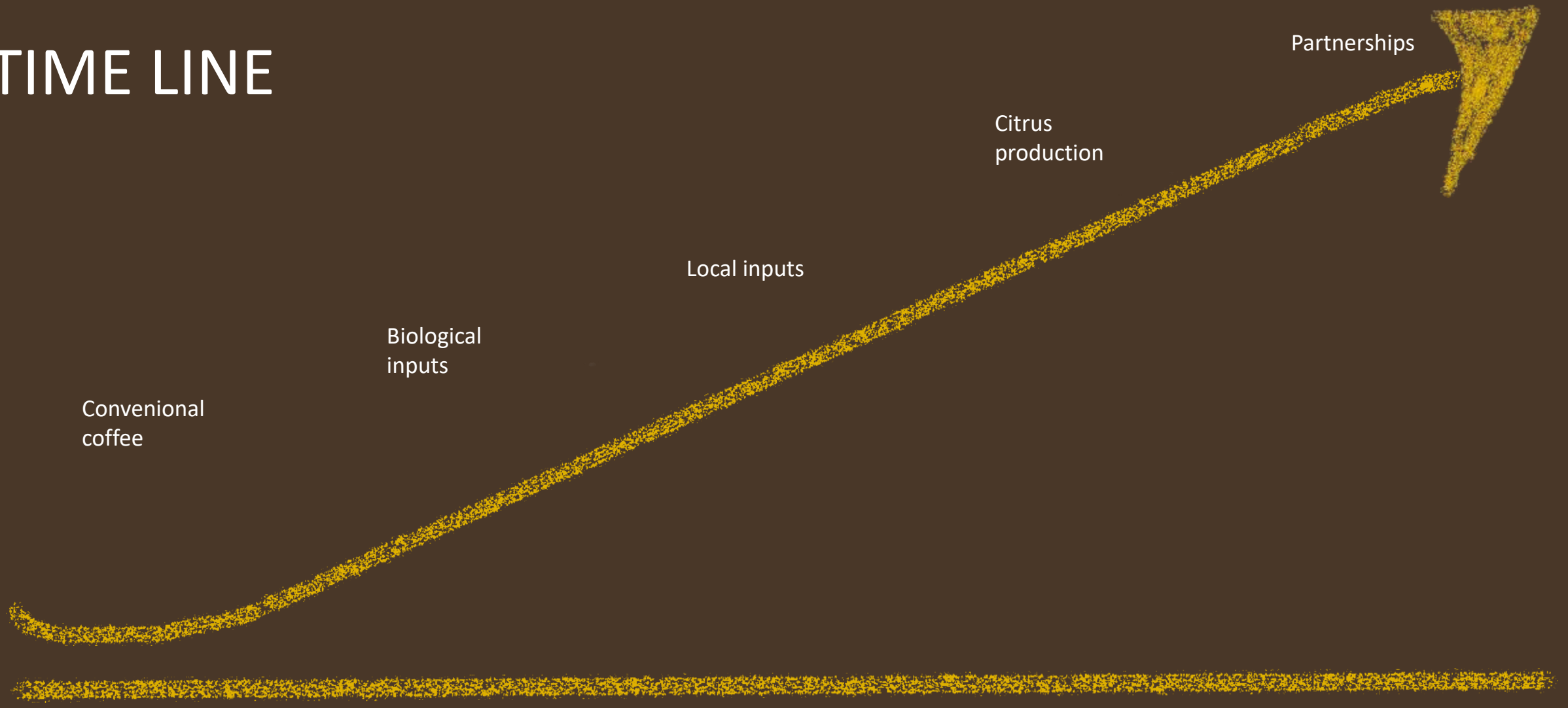
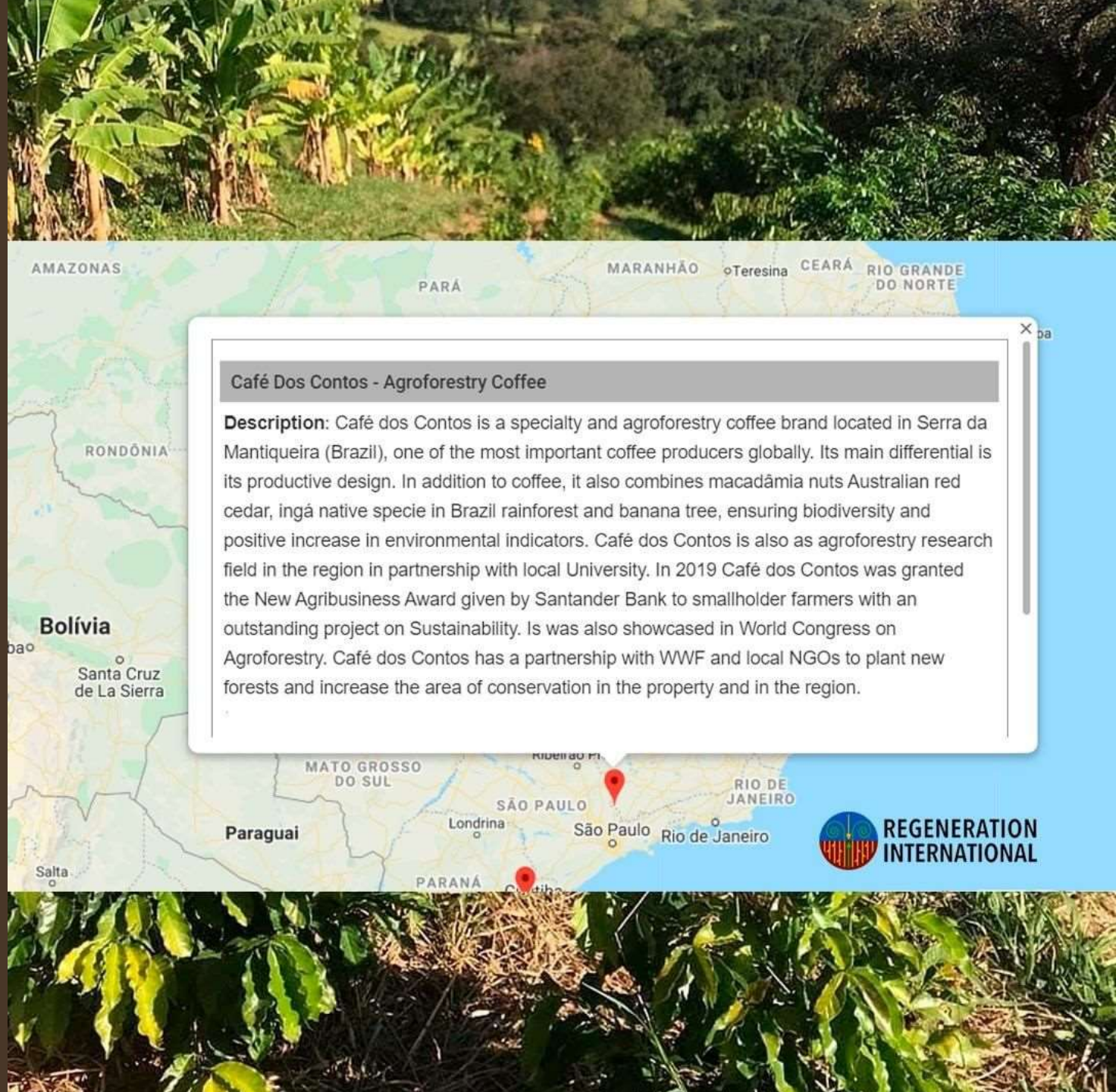
TIME LINE


Partnerships
Citrus production
Local inputs
Biological inputs
Convenional coffee
2012
Acquisition of the farm (15 ha)
2013
Transition to organics
2018
Transition to agroforestry
2020
First agroforestry expansion
2021
Reforestation Regenerative Farm

REGENERATIVE MAP



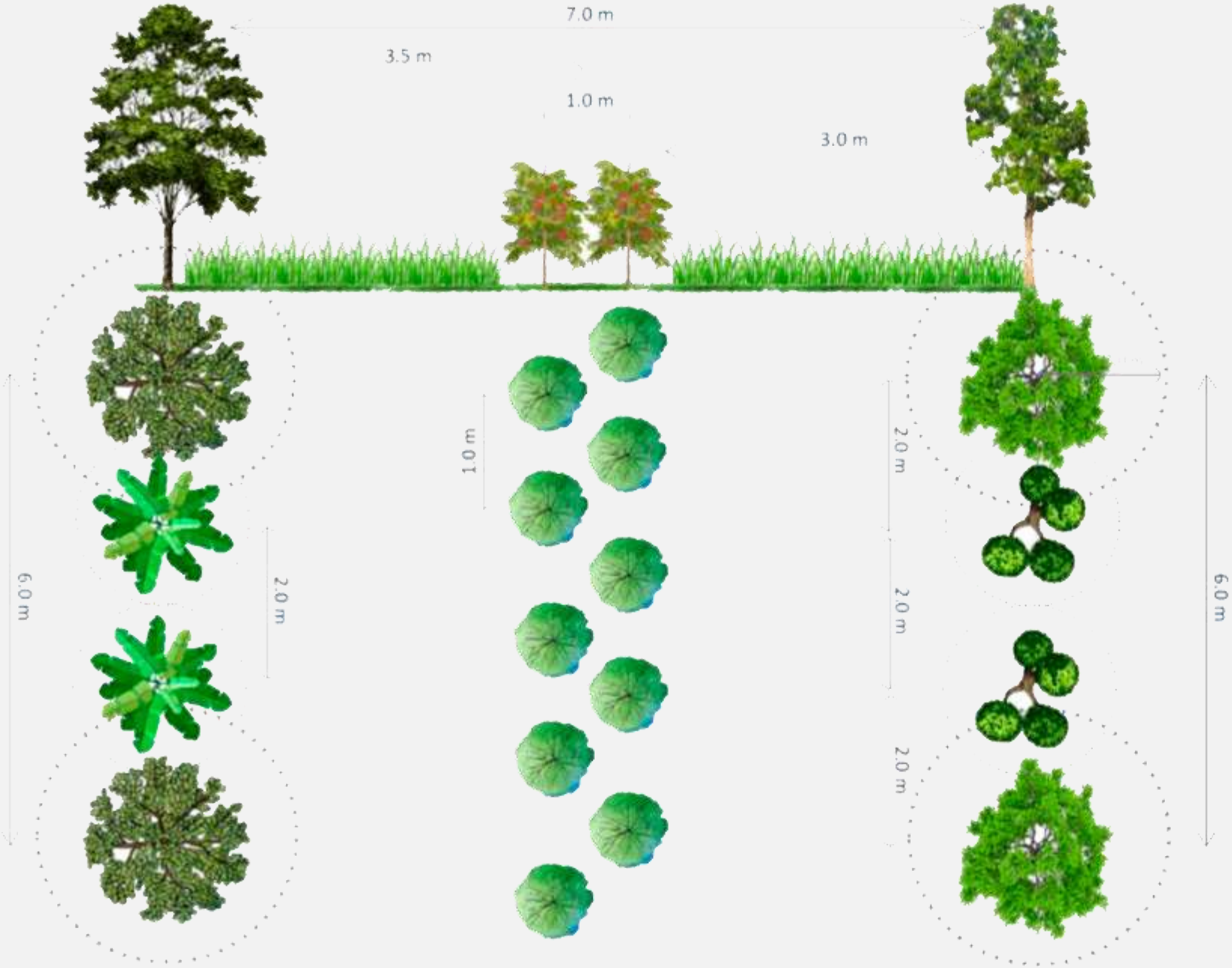
SPECIALTY AND AGROFORESTRY COFFEE

OUR GOALS

- To produce high quality coffee grains
- To regenerate natural ecosystems
- To inspire and disseminate regenerative practices in coffee production

DESIGN OF THE SYSTEM

PRETATERRA




Transition
Monocultural
Organic
Coffee
Multistrata
Agroforestry
Coffee

SOIL

- Health soil
  - Health plants
    - Health human beings

ACADEMIC PARTNERSHIP

- Scientific Research carried out by IFSUL – Agronomy Federal University

- Initial focus: biology life in soil, including:

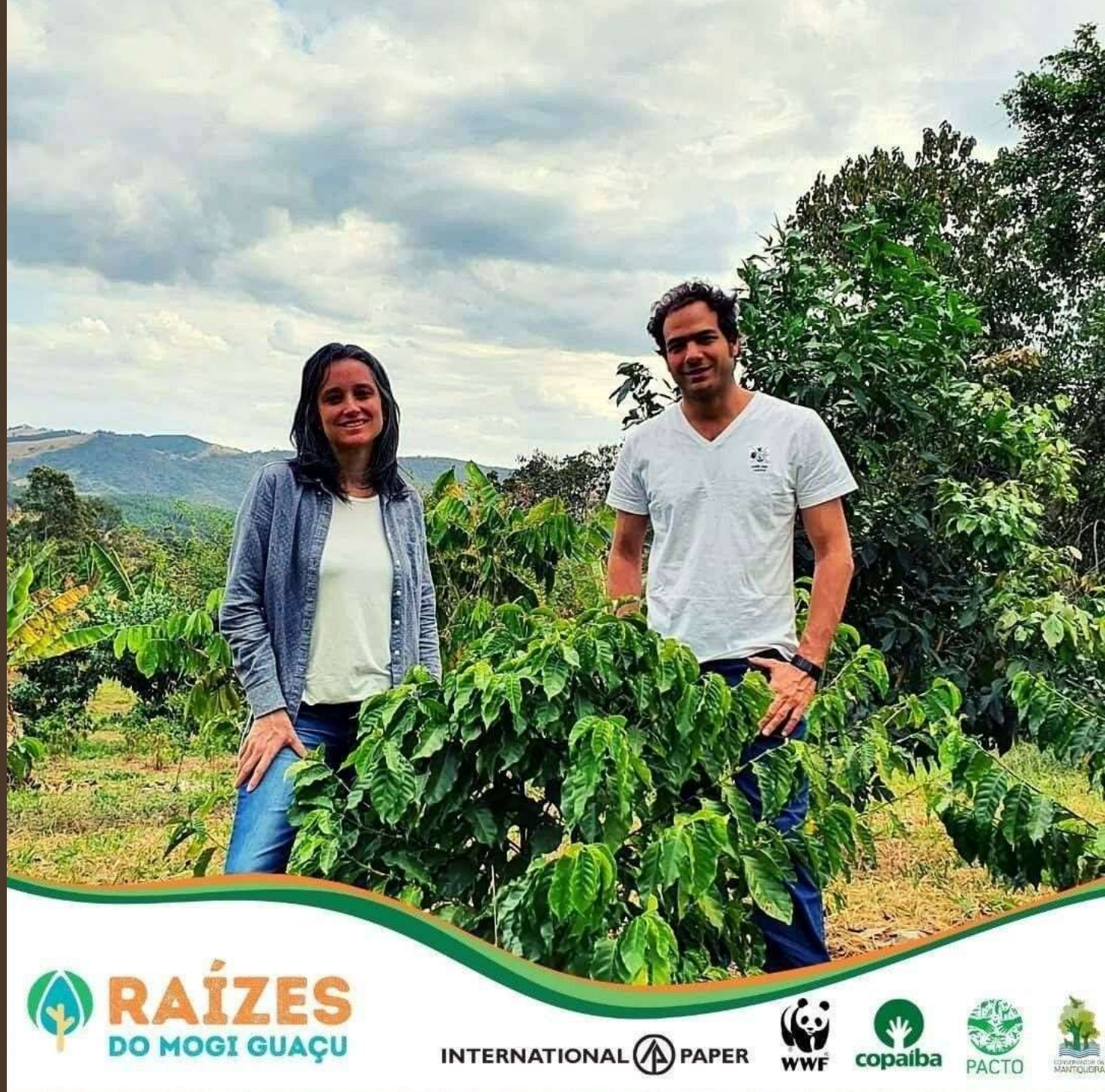
  _larger soil fauna

  _soil microorganisms

RESULTS OF OUR SOIL RESEARCH

To be shown in the Event

REGENERATIVE PRACTICES



REFORESTATION

Plants: 3.200

Species: 38

Brazilian Mata Atlântica Rainforest

INTERNATIONAL CONGRESS ON AGROFORESTRY

L17.P40

Thriving climate change in Mantiqueira, Brazil. Coffee agroforestry design for soil and crop resilience in slope zones

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Mantiqueira region, Brazil is under desertification process, facing droughts and soil degradation. Regenerative models, considering soil conservation are needed to thrive under harsh conditions while diminishing chemical fertilizers. An agroforestry system was designed, maximizing soil infiltration and improving coffee resilience on slope zones in Monte Sião. Final model and costs are shown in table 1. For soil conservation, aggregation and retention, an ancestor method based on *Anthropogenic Dark Earth* (TPI) was used, based on charcoal and sawdust deposition. N_2 fixer species were selected for alley green manure. Species selection and arrangement considered succession, stratification, shade, architecture, permeability, lifecycle and root depth. Components are: *M. integrifolia*, *C. arabica*, *T. ciliata*, *Musa sp*, and *I. vera*. Seed-mixture for alley enrichment is: *U. brizantha*, *C. cajan*, *H. annus*, *P. glaucum* and *C. spectabilis*. Soil management and mulching used a mix for fertilizing purposes, charcoal residues for raising soil CEC, coffee husks + poultry manure (10% N) and eucalyptus sawdust for soil covering. Design attributes were systematized. With a cost of USD 6,316, the first 1 hectare was implemented in Dec, 2018 in the Farm "Café dos Contos". Integrated systems diversify revenues. A replicable agroforestry model for Mantiqueira coffee-based agriculture will drastically improve soil conservation and crop resilience, while building a new sustainable productive paradigm.

Table 1. Complete information of (a) design, (b) table of quantities and (c) general costs.

Keywords: Shade-grown coffee, Terra Preta de Indio, desertification, Anthropogenic Dark Earth, Soil conservation.

References:

1. Wiedner, 2015, Catena, 114-125; doi.org/10.1016/j
2. Maezumi, 2018, Nature Plants, 540-547; doi.org/10.1038/s41477-018-0205
3. Primavesi, in: Manual do Solo Vivo, 2016, Expressão Popular, 35 - 100
4. Campanha, 2004, Agroforestry Systems, 75-82; DOI: 10.1023/B:AGFO.0000049435.22512.2d

SOUL

If Mother Earth could speak our language, what would she say to us?

SOCIETY

Café dos Contos: an open space to sharing learnings and to practice environmental education

School Groups

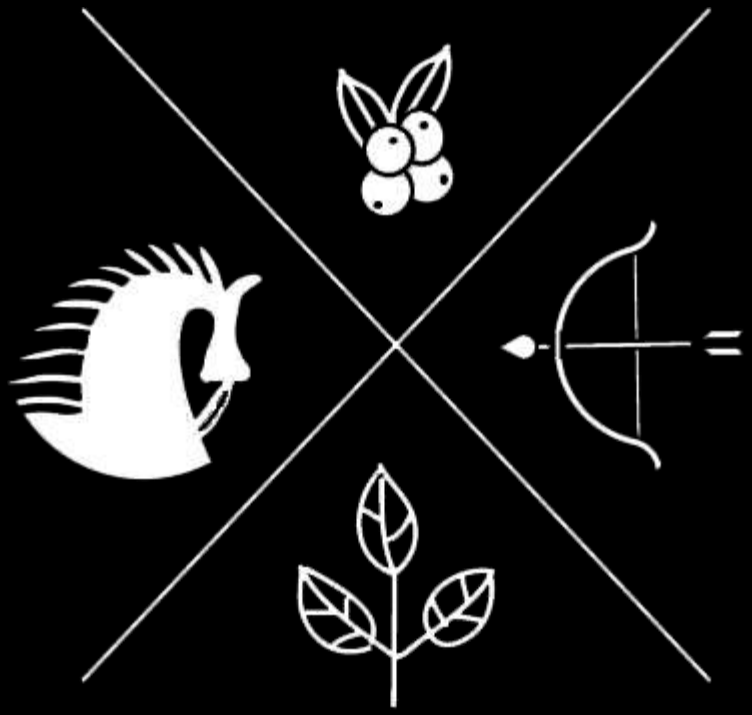
Volunteer Programme

Member of International Women's Coffee Alliance (IWCA) - (Brazilian Chapter)

AWARD

- Winner of New Agriculture Award, granted by Santander Bank and Esalq/USP on Susteinability category

SPECIAL THANKS



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