



Bayer ForwardFarming provides an up-close experience at how farmers are practicing regenerative agriculture around the world. Unique in its global reach the Bayer ForwardFarming network serves as a platform for knowledge sharing and dialogue. ForwardFarmers deploy **innovative** technologies and best practices to improve **productivity** and **soil health**, aiming to reduce agriculture-related greenhouse gas emissions, decrease the environmental impact of crop protection, promote biodiversity and conserve natural resources and water.

On the ForwardFarms, progress towards the Crop Science sustainability targets truly comes to life.

Bayer ForwardFarmers are frontrunners in demonstrating innovative sustainable agronomic crop systems across the following three components:

// **Care for Crops** – Every farm is different, and every field within a successful farming operation is unique. An entire system of **Tailored Solutions** is needed to meet the needs of the farmers' individual agronomic crop system – from the right seeds and traits to the correct type and amount of crop protection, to the digital tools and services that allow for good decision making, precision and overall economic success.

// **Care for the Planet and People** – Bayer ForwardFarming promotes and demonstrates **Proactive Stewardship** to protect human health and preserve the environment as well as **farmers' and farm workers' well-being**. Examples include addressing the safe and responsible use of crop protection products; soil health, biodiversity, and water conservation; and offering training in all of these areas and beyond.

// **Caring Together** – Bayer ForwardFarming fosters **Partnerships** with the farmer at the center, as well as value chain actors, research centers, universities, and other institutions to strengthen sustainable and regenerative farming development.



For further information, visit our website:
www.forwardfarming.com

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One Step Ahead with Regenerative Agriculture

**Fazenda Estância –
Brazil**



Forward 
Farming

Advancing Regenerative Agriculture in the Field

Fazenda Estância is located in the agricultural heartland of São Paulo, a state where a variety of crops are grown, including sugar cane, oranges, soybean, corn, coffee, and vegetables. This is where Nathália and Aline took over their father's farm. The focus is on building an ecosystem of innovation, aligned with environmental responsibility and sustainable, regenerative agriculture. They implement innovative practices with a positive effect on soil health, biodiversity, and ecological balance, using cover crops, root rotation, and no-till farming. Against this backdrop and supported by a network of partner organizations, they ensure sustainable prosperity for current and future generations.



Introducing Fazenda Estância

**Owned by José,
Nathália and Aline Vick**



Location

Pirassununga, São Paulo, Brazil.



History

The farm was acquired by Mr. Vick in 2005, where his wife Mrs. Doralice was born. With the acquisition of new properties, their daughters, Nathália and Aline, joined to manage the agricultural business in 2010 and 2019 respectively.



Farming Land

1,200 ha of dystrophic red latosols with a surface layer rich in organic matter.



Crops

Soybean, corn, sugar cane, cassava, sorghum, and cover crops.

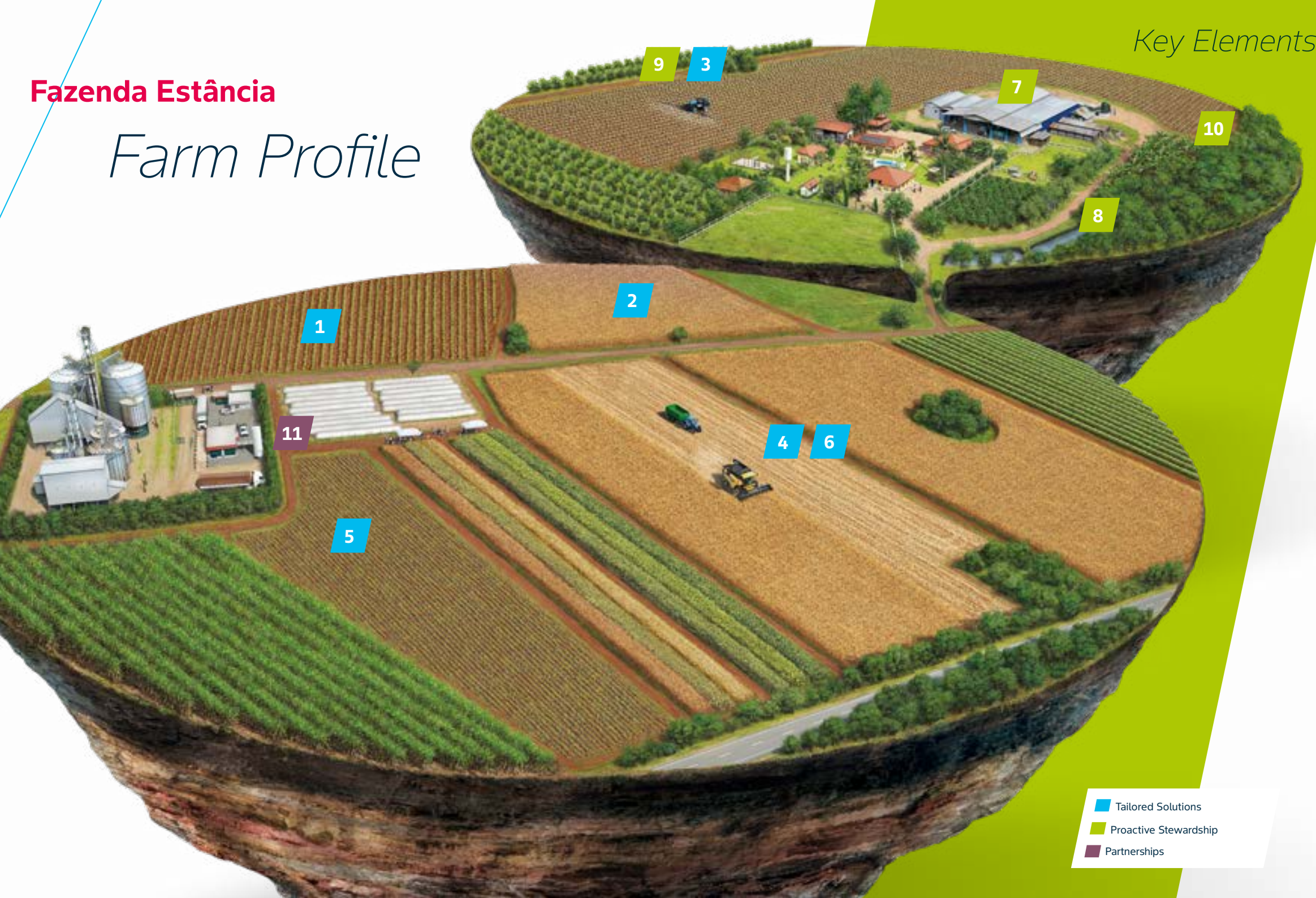


Partners

Sugarcane Planters Cooperative of São Paulo State (COPLACANA); Center for Carbon Research in Tropical Agriculture (CCARBON) from the University of São Paulo (USP) and Luiz de Queiroz Agricultural Studies Foundation (Fealq).

Fazenda Estância

Farm Profile



Key Elements

- 1 Seeds**
The use of quality seeds with a trait technology profile adapted to local needs and protected by SeedGrowth treatments increases productivity and profitability.
- 2 Integrated weed management**
Identifying and mapping weed infestations and implementing integrated management programs limits their proliferation and promotes a positive effect on crop yield.
- 3 Integrated pest and disease management**
Monitoring plant pests and diseases and implementing good management practices prevents resistance to fungicides and insecticides and optimizes the use of crop protection products.
- 4 Digital agriculture**
Use of digital tools such as Climate FieldView™ and the cultivation of corn within the VALora program that prescribes seed population density and nitrogen fertilizer for corn crops improves the operational efficiency, optimizes input consumption, and maximizes production.
- 5 Soil health**
Increasing organic matter and microbial activity through crop rotation, cover crops, and the use of organic fertilizers make up the regenerative agriculture system that favours soil health and helps reduce greenhouse gas emissions.
- 6 PRO Carbono**
The biggest carbon program in Brazilian agriculture supports farmers in implementing management and regenerative agriculture practices to achieve greater yield and increase the carbon stock in the soil.
- 7 Good agricultural practices**
Use of refuge practice, occupational health and safety, use of personal protective equipment, safe storage of inputs, and empty container management protect workers and the environment's health.
- 8 Water protection**
Good agronomic practices reduce water run-off, erosion, and increase soil infiltration protecting water resources. The adoption of precision farming reduces the volume of water used during operations.
- 9 Modern application technology**
Optimized application through the maintenance and calibration of spraying equipment, the use of low-drift nozzles, and frequent training of machinery operators reduces the environmental impact of the operation.
- 10 Biodiversity**
Preservation of habitats and species through the conservation of legal reserves, riparian zones, bee hotels, and reforestation ensure the conservation of biodiversity.
- 11 Partnerships**
Bayer ForwardFarming combines knowledge, experience, expertise, and new technologies with partnerships to promote the successful and sustainable growth of agricultural activity.

■ Tailored Solutions
■ Proactive Stewardship
■ Partnerships