



# One Step Ahead with Sustainable Agriculture

**Nossa Senhora Aparecida –  
Brazil**



Bayer  
Forward   
Farming

# Sustainable Agriculture in Practice

The Fiorese family has a long history of producing grain crops in the Brazilian Cerrados. On 2.700 hectares, soybean, corn, field beans and wheat are produced at Nossa Senhora Aparecida. The Fiorese family believes that the key to success in farming is to implement new technologies and connect social and environmental aspects to achieve maximum productivity. On Bayer ForwardFarms like Nossa Senhora Aparecida, Bayer joins hands with farmers and partners to demonstrate sustainable agriculture in practice.



## Introducing Nossa Senhora Aparecida

**Owned by Oli Fiorese  
and his family**



### **Location:**

Nossa Senhora Aparecida, Goiás.



### **History:**

Oli Fiorese, his wife Edileusa and their two children arrived to the Brazilian Cerrados in 1995. There, they have continued the agricultural traditions of their family.



### **Farming Land:**

Red latosol with a high clay content and medium iron content – a typical soil of the Brazilian Cerrado.



### **Crops:**

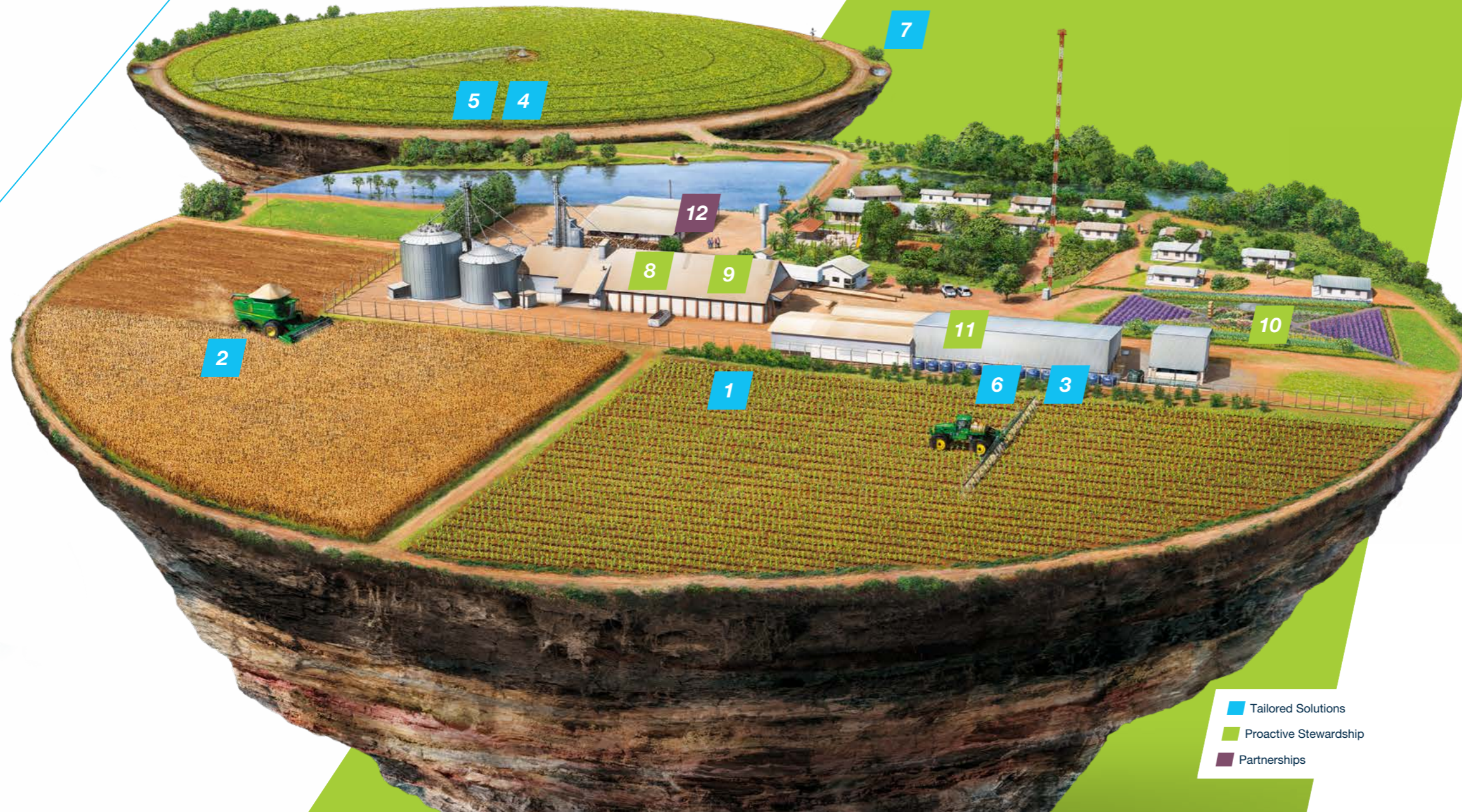
Soybean, corn, field beans and wheat.



### **Partners:**

M Prado, Unigeo, HP Agroconsultoria, Consultoria João Dantas, Agroexata, Icrop, Aliança da Terra, Conectere Agro e Allez.

# Nossa Senhora Aparecida Farm Profile



## Key Elements

- 1 Seeds**  
Creating value by using high-quality seeds and technologies that support the farmer to increase productivity and being more productive in a sustainable manner.
- 2 Soil fertility**  
Improving soil fertility by optimizing crop rotation practices to achieve high, sustainable productivity.
- 3 Integrated weed management**  
Identification and mapping of weeds and implementation of integrated weed management programs to limit proliferation.
- 4 Integrated disease and pest management**  
Implementation of techniques to monitor disease and pest outbreaks, as well as making cropping recommendations to ensure a more sustainable use of crop protection products.
- 5 Nematode monitoring and control**  
Mapping of nematode infestation and crop damage, as well as giving recommendation for integrated chemical and biological control to avoid productivity loss.
- 6 Digital farming**  
Use of precision farming techniques and tools like Climate FieldView™ to maximize yields and optimize farming tasks and inputs.
- 7 Erosion control**  
Drainage basins along the road are used to capture water runoff to fill the groundwater aquifer, preventing erosion and avoiding pollution of lakes and reservoirs with eroded soil.
- 8 Stewardship**  
Trainings aim to help the farmer apply agricultural products in a responsible manner, protecting people, preserving the environment and improving the crop.
- 9 Valore program**  
Farm certification program specifying production processes that follow legislation to ensure food safety, adding value to the value chain and competitiveness of the Brazilian farmer.
- 10 Pollinator care**  
Preservation of pollinators on the farm with conservation measures and harmonic coexistence between farming and beekeeping.
- 11 Water protection**  
Phytobac®: sustainable management of the water used to clean equipment in a process that biologically breaks down crop protection product residues.
- 12 Partnerships**  
Bayer ForwardFarming combines knowledge, experience, skills and new technologies with partners to grow the farming business successfully and sustainably.

- Tailored Solutions
- Proactive Stewardship
- Partnerships



Bayer ForwardFarming provides an up-close look at how farmers are practicing sustainable agriculture around the world. Unique in its global reach the Bayer ForwardFarming network serves as platform for knowledge sharing and dialogue. Forward-Farmers deploy technologies and best practices that reduce agriculture-related greenhouse gas emissions, decrease the environmental impact of crop protection, promote biodiversity and conserve natural resources.

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

**Bayer ForwardFarming demonstrates solutions that support sustainability in agriculture across the following three components:**

// **Care for Crops** – Every farm is different, and every field within a successful farming operation is unique. **Tailored Solutions** are needed to meet the needs of the individual farmer and their specific field – 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 and precision.

// **Care for the Planet and People** – ForwardFarming promotes and demonstrates **Proactive Stewardship** to protect human health and preserve the environment. 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.

// **Care for Partnerships** – Bayer ForwardFarming fosters **Partnerships** with agricultural value chain actors, research centers, universities, and other institutions to strengthen sustainable farming development.



For further information, visit our website:

[www.forwardfarming.com](http://www.forwardfarming.com)

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