

The farms involved in Bayer ForwardFarming – the Bayer ForwardFarms – make use of three basic components:

- **Integrated Crop Solutions** with high-quality seeds and crop protection products (chemicals and biologicals) to protect the yield and quality of agricultural commodities. These solutions are backed by tailored services ranging from agronomic support, field demonstrations, diagnostics, and prediction tools to documentation.
- **Proactive Stewardship** to ensure product integrity (for seeds and crop protection products), protect human health, and preserve the environment. We offer training to raise standards of handling and usage, as well as to minimize any possible risks to human health and the environment.
- **Partnerships** to enhance the quality of life for farmers, communities, and society. Mutually beneficial partnerships that include all players in the value chain and help to leverage the potential for collaboration in modern agriculture.

## BAYER CROPSCIENCE AND SUSTAINABLE AGRICULTURE

Over 300 years ago, Hans Carl von Carlowitz, a farsighted mining inspector in Germany, recognized the importance of sustainable reforestation for ensuring a lasting supply of wood for the mining industry.

The challenge facing us now and in the future is global food security, with the world's population increasing rapidly and limited arable land available. In other words, the most pressing global challenge is to intensify agricultural productivity in a sustainable way.

Bayer CropScience approaches this challenge holistically by connecting economic success in agriculture with environmental and social responsibility for all of the partners involved. In this way, Bayer CropScience is playing its part in enhancing global food security.



## Bayer CropScience

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Science For A Better Life



Château Lamothe de Haux, France

ONE STEP  
AHEAD WITH  
SUSTAINABLE  
AGRICULTURE

# MASTERING THE CHALLENGES OF MODERN AGRICULTURE AND SOCIETY'S EXPECTATIONS

In cooperation with farmers, Bayer CropScience demonstrates innovative solutions for sustainable agriculture in Bayer ForwardFarming, the knowledge platform for sustainable agriculture practices.



**INTRODUCING  
CHÂTEAU LAMOTHE**  
OWNED BY  
DAMIEN CHOMBART



### LOCATION

Haux, near Bordeaux,  
France



### HISTORY

Château Lamothe's foundations date back to the 16th century. Since 1956, 4 generations of our family have managed Château Lamothe: the Perriquets, then the Néels, and now the Chombarts.



### SOIL

Limestone-clay on slopes in the heart of the Bordeaux wine region.



### CROPS

Wine Grapes



### PARTNERS

Berthoud, French Vine and Wine Institute, Vitinnov, bee keeper



### CUSTOMERS

Export 90 % to North America and Asia

Bayer ►► ForwardFarming

# BAYER FORWARD FARMING


SUSTAINABLE AGRICULTURE  
IN PRACTICE



CHÂTEAU LAMOTHE DE HAUX  
FRANCE




**1**  
**GRAPE VARIETY**  
Choosing the right grape variety and rootstock as the basis for the quality of the wine.



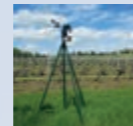
**2**  
**TARGETED WEED CONTROL**  
Herbicides are targeted via band application close to the foot of vines. This leaves vegetation between rows, limiting run-off and preserving habitat for biodiversity.




**3**  
**DISEASE CONTROL - MILDEW AND BOTRYTIS**  
Chemical and biological crop protection products are combined to protect the vine from disease and manage resistance.




**4**  
**SOIL ANALYSIS**  
Regular soil analysis allows optimal organic and mineral fertilization to preserve soil characteristics.




**5**  
**DECISION SUPPORT SYSTEMS**  
Weather and mildew prediction models ensure the best-possible application timing – Movida®.




**6**  
**APPLICATION TECHNOLOGY**  
Jointly with our partner Berthoud, tests are carried out, the equipment is calibrated correctly and the application optimized.




**7**  
**BEEKEEPING PARTNERSHIP**  
The beekeeper and the farmer have signed a Charter of Commitment for Good Agricultural and Beekeeping Practices for the hives that are welcomed each spring.



**8**  
**BIODIVERSITY**  
Assessing the status-quo and implementing a variety of supporting measures to protect flora, birds, beetles and earthworms.




**9**  
**BEE HOTEL**  
Wild bees and other pollinators enjoy this safe haven for nesting and protection from bad weather.



**10**  
**HUMAN PROTECTION**  
Operator protection is continuously optimized through risk assessment, training, and new infrastructure.



**11**  
**PHYTOBAC®**  
The bioremediation system that ensures optimal on-farm wastewater management.



**12**  
**PARTNERSHIPS**  
Bayer ForwardFarming unites the skills and expertise of different partners for continuous improvement.