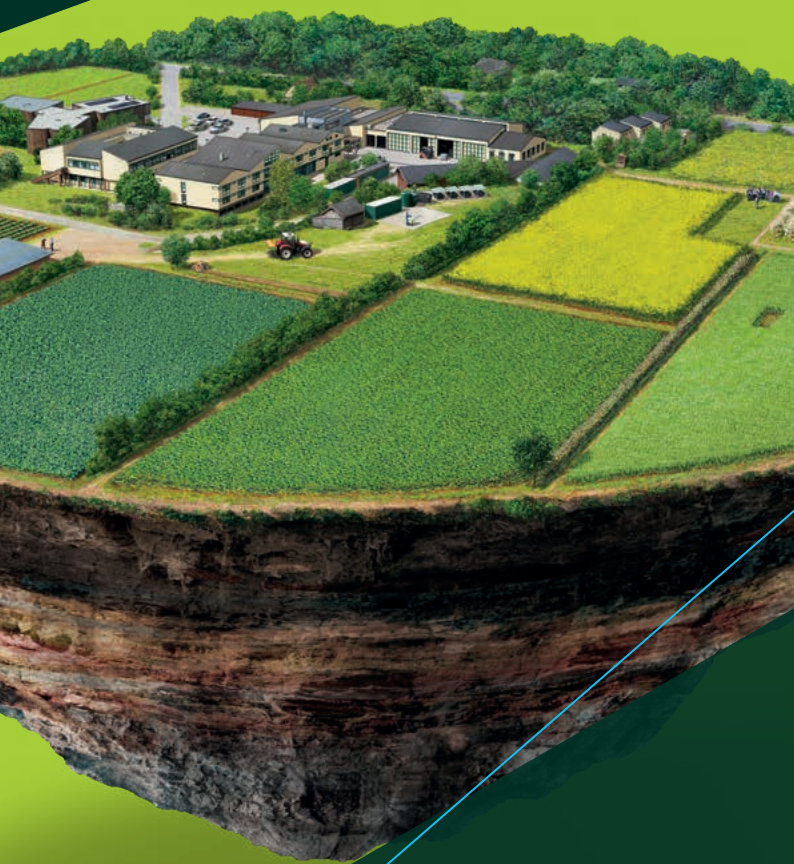


One Step Ahead with Sustainable Agriculture



***A collaboration between the Hollabrunn
Agricultural College and Bayer***



Bayer
Forward 
Farming

Sustainable Agriculture in Practice

Acting economically and ecologically smart: At the Hollabrunn Agricultural College, students are trained in theory and practice for agricultural professions. Practical training takes place at the teaching and experimental farm on site. Emphasis is made on innovation in ecology and economy. Bayer ForwardFarming supports the agricultural college with innovative solutions and projects in the areas of biodiversity, water and user protection, consulting and digital services.



Introducing Hollabrunn Agricultural College



Location:

Hollabrunn, northwest of Vienna.



History:

The college was founded in 1903 as a winter school and operates a working farm and vineyard.



Soil:

Sedimentary soil consisting of loess sediment of incoherent morphology – sandy/silty with only moderate clay content.



Crops:

Winter wheat, winter barley, corn, sugar beet, soybean, potato, fruit, grapevines, field vegetables, and more.



Partners:

The collaboration between the Hollabrunn Agricultural College and Bayer is just one example of the comprehensive projects with various partners that are being pursued to advance agriculture.

Overview of the Sustainability Activities



Tailored Solutions
Product Stewardship

Key Elements

- 1 Seeds**
High quality, certified seed provides the basis for good yields.
- 2 Crop protection**
The combination of chemical and biological crop protection products, as well as biotechnical measures in an integrated crop protection program, allow for high-quality, sustainable yields.
- 3 Digital solutions**
support the farmer in his or her decisions. Crop protection applications are optimized, and the environment is preserved.
- 4 easyFlow M**
protects the farmer and preserves the environment. With this closed transfer system, crop protection products are safely transferred.
- 5 Safe storage**
Crop protection products are safely stored in a suitable warehouse and are available when needed.
- 6 Flower strips**
Annual and perennial flower strips in strategically favorable locations protect native flora as well as birds, beetles and earthworms.
- 7 Phytobac®**
System in which microorganisms degrade crop protection product residues in order to protect water.
- 8 Skylark plots**
Small open plots in grain fields help threatened skylarks to land and nest safely.
- 9 Insect hotels**
Inside this breeding aid, wild bees and other pollinators enjoy protection from predators and weather. The insect hotel was built by students.
- 10 Rock piles and beetle bank**
The loose soil of a beetle bank provides an ideal habitat for beetle species that build their nests below the earth's surface. Lizards and slowworms can find an airy and warm shelter inside a rock pile.
- 11 Preventing erosion from wind and water**
In addition to the implementation of erosion prevention projects for tillage and greening systems, wind protection hedges are installed to prevent wind erosion and serve as a shelter or food source for wild animals, insects and birds.



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.

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