



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, 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 commitments 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 innovative **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.cn

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One Step Ahead with Regenerative Agriculture

**Guaguajiao Farm –
China**



**Forward
Farming**

Advancing Regenerative Agriculture in the Field

Shanghai Guaguajiao Agricultural Products Professional Cooperative is located in the Pudong New Area of Shanghai. The cooperative farmers cultivate rice and vegetables. A strong emphasis is made on the introduction of new and sustainable agricultural technologies and services to improve cultivation and farm resource management. The strategic goals center around variety selection, quality, and branding, to boost competitiveness and foster strong marketing partnerships.

The ultimate aim of the cooperative is to set up a practical, robust and sustainable agricultural production system allowing farmers to increase their income, as well as contribute to community well-being.



*Introducing
Guaguajiao
Cooperative*

Chairman: Li Xiaogao



Location:

Xinbang Village, Chuansha Town,
Pudong New Area, Shanghai.



History:

Founded in 2013.



Farming Land:

24,3ha of rice paddy land,
1,7 ha greenhouse farming.



Crops:

Rice, tomatoes and leafy vegetables
grown in greenhouses.



Partners:

E-commerce grocery retailers such as
Freshippo as well as homestays.

Guaguajiao Farm

Farm Profile

Key Elements



4



1

Top quality seed health – the foundation for best yields

Seed growth treatments protect the seeds and the emerging plant against diseases and establish a healthy rice crop (with fewer seeds per ha).

2

The Much More/Better Rice program

An integrated and effective crop care program offered by Bayer to protect the rice crop during its growth, increasing both yield and grain quality, and consequently improving farmer income.

3

Precision applications

Utilization of drone application and selection of the right nozzles increase application efficiency and minimize environmental impact.

4

Digital farming

Satellite remote sensing and other technology, combined with crop simulation models, enable crop growth monitoring and yield maximization while minimizing labor cost.

5

Carbon smart farming/Direct Seeded Rice

Digital farming as well as weed management and precision fertilization in direct seeded rice, using alternate wetting and drying method and/or drip irrigation system, allow to save valuable water resources and reduce greenhouse gas emissions.

6

Soil and water protection

Elimination of product residues in wastewater through the use of Phytobac to minimize surface water and soil contamination.

7

Product stewardship

Crop protection products are purchased from designated or accredited retailers. Use of personal protective equipment, safe storage of input materials, sanitary measures, etc. permit a high level of worker safety.

8

Biodiversity

Habitat enhancements, such as flower strips, insect hotels and bird houses, help to protect a diverse range of species.

9

Transparent tracking and tracing

BayG.A.P. training, documentation, and certification enable tracking and tracing throughout the value chain.

10

Partnerships

Establish long-term collaborative relationships with scientific research institutions and food chain partners to encourage growers in the region to adopt standardized, modern and regenerative practices.

Tailored Solutions

Proactive Stewardship

Partnerships