



Bayer Crop Science

Working together for Climate Smart Agriculture

GACSA Annual Forum
5 May 2023



Our 2030 climate **commitments**

- **Reduce by 30 percent the field greenhouse gas footprint of the most emitting crop systems by 2030.**
- Become climate-neutral by 2030 by **reducing our own emissions by >42%** and offsetting remaining emissions through the purchase of recognized certificates.
- The company also cooperates with its suppliers and customers to **reduce GHG emissions along the upstream and downstream value chain by at least 12.3%** by 2030.

These targets have been approved by the Science Based Target initiative led by CDP, UNGC, WRI, WWF.

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Our **levers** for CSA

- **Agronomic expertise** on multiple crops, including cereals, rice, maize, soybeans, fruits and vegetables, cocoa, potatoes, sugar cane, among others.
- **R&D expertise** in:
 - **breeding and biotech** for the development of crops that withstand drought and floods, require less water and less fertilizer
 - **digital tools** for precision fertilizer application
 - **inoculants** for biological nitrogen fixation
 - **crop protection** solutions, including **biologicals**, allowing no-till farming
- **Expertise** in building & implementing accredited **carbon credit projects**.

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Our CSA partnerships

- **AIM for Climate** – Bayer is a partner of the Agriculture Innovation Mission for Climate (AIM4C), a joint initiative by the United States and the United Arab Emirates seeking to address climate change and global hunger by uniting participants to significantly increase investment in, and other support for, climate-smart agriculture and food systems innovation over five years (2021 – 2025).
- **EU Carbon+ Farming Coalition** – Bayer is a founding member of this fast-growing coalition, an example of the cross-sectoral momentum around transitioning to carbon-natural food systems and giving farmers a fair reward for participating in the transition. It's a CEO-led project but one that includes all sectors, including government, NGO, civil society, academia and finance. It's an initiative working at scale, with full backing and standards from the public sector, for the benefit of all.
- **LEAF Coalition** – Lowering Emissions by Accelerating Forest finance (LEAF) is an ambitious new public-private initiative designed to accelerate climate action by providing results-based financing to countries committed to protecting their tropical forests. Bayer was one of the first members, alongside Amazon, Nestle, Unilever, GSK, McKinsey and other private-sector giants – as well as several national governments. This kind of public-private partnership will empower efforts at a greater scale to combat deforestation, restore tropical forests and move towards net zero carbon emissions. Its initial goal is to mobilize at least \$1bn in financing for forestry projects.



Our CSA partnerships

- **Living Soils of the Americas** – Bayer is a strategic partner in the "Living Soils of the Americas" initiative, launched by the International American Institute for Cooperation on Agriculture (IICA) and Professor Rattan Lal, to tackle soil degradation. The agreement includes exchange of agronomic and scientific knowledge, advanced management strategies, technical cooperation and expansion of training programs to bolster sustainability and food security through innovation and commercial models that assist farmers to restore soil health and reduce the environmental footprint of agriculture through three strategic areas of work: measuring and monitoring of soil organic carbon (SOC), soil policies and regulations, and better management practices.
- **ScaleDirect** - USAID and Bayer agreed to support and co-invest in a four-year project "Scale Direct" that aims to accelerate the global efforts of the International Rice Research Institute (IRRI) on direct seeded rice (DSR) research and development for smallholder farmers in Asia and Africa. The Project was launched in 2023. Underpinned by IRRI's DSR research flagship, the project titled "Improving the quality of life of smallholder rice farmers in Asia and Africa through introduction, on-farm testing and scaling of improved germplasm and climate smart agronomy" is a comprehensive integration of breeding specific varieties for DSR establishment methods, on-farm validations, DSR specific agronomic practices, and seed systems and enterprise development activities.



Our contribution to **GACSA**
Capacity Building projects

- Lasting relations with **45 million smallholder farmers** worldwide (30M in Asia, 13M in Africa, 2M in Latin America).
- **Case studies** of successful CSA practices for the Module 3 of the online course.
- Expertise in designing and implementing courses with universities to train agronomy students to train farmers on good agricultural practices.

