CELEBRATING 25 YEARS OF BIOTECH

CropLife INTERNATIONAL

It has been 25 years since biotech crops were first planted. Since then, GM crops and biotechnology have not just transformed agriculture by providing a valuable tool for farmers, but they have helped the environment and rural communities around the globe.

Biotech is great for the environment and provides an important tool for tackling climate change. This is thanks to...

Reduced carbon dioxide emissions

Biotech crops require fewer passes by tractors and less fuel, which has helped to prevent the release of

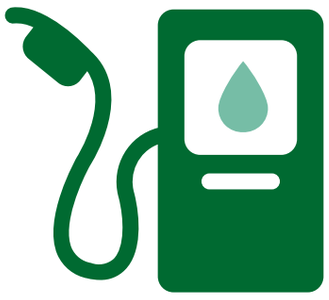
34 BILLION KG

of CO2 since they first came to market, equivalent to removing **22.7 million cars** from the road

Over the past 25 years, biotech crops have helped farmers be more efficient, helping to reduce pesticide applications by

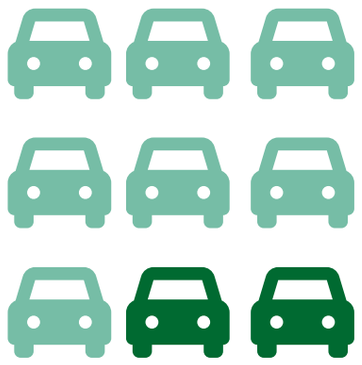
776 MILLION KG

a global **reduction of 8.6%**



Thanks to this reduction, the agriculture industry has cut its fuel use by an estimated

12,799 LITERS



Because biotech crops allow for no-till farming, more carbon remains in the soil. In 2018, the environmental gains from this carbon sequestration were equivalent to removing

13.6 MILLION

cars from the road

PLANT BIOTECHNOLOGY 25 YEARS

Biotech #FoodHeroes

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Leaps in biotech innovation have been instrumental in increasing yields and providing...

Greater food security

108 MILLION

people in food crisis-affected countries are facing food insecurity, and GMOs can help play a crucial role in tackling this issue through increased yields and crops that help fight food waste.

Thanks to improved pest and weed control, plant biotechnology has helped farmers to grow an additional

498 MILLION

tons of maize since their introduction

Plant biotechnology has also been responsible for the additional production of **278 million tons** of soybeans, **498 million tons** of corn, **32.6 million tons** of cotton, and **14 million tons** of canola over the past

23 YEARS

as farmers have been able to grow more on the same amount of land

Without biotech, farmers would have needed

24.2 MILLION

more hectares of land to produce the same amount of food in 2018

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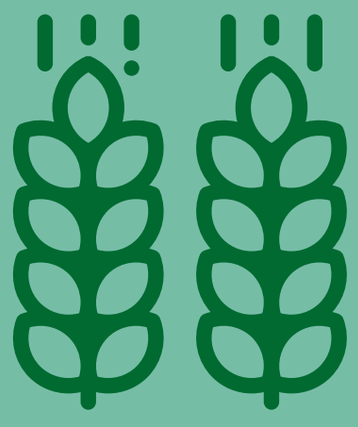
Plant biotechnology has helped farmers and families around the world, creating a ...

Better quality of life



$135 MILLION

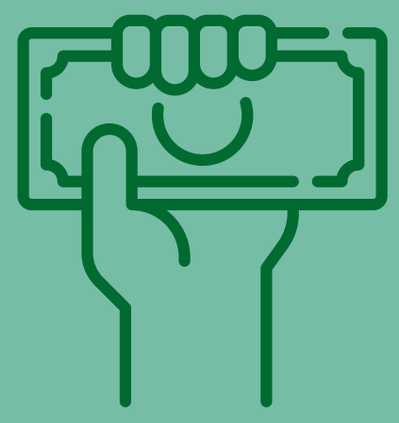
The average cost of discovery, development and authorization of a new plant biotechnology trait is around **$135 million**

$96.2 BILLION

Female farmers have realized an extra **$96.2 billion** in income since the introduction of GM crops, which improves not only their quality of life, but that of their families and wider communities

$4.42

In 2018, farmers in developing countries received **$4.42** for each extra dollar invested in biotech crop seeds



16.5 MILLION

This means that growing GM crops have helped **16.5 million** farmers, their families and their communities, mostly in developing countries, over the past 20 years.

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Plant biotechnology has helped to lift entire communities out of poverty, creating a ...

Growth in farm income

Thanks to enhanced productivity and efficiency gains, GMOs have helped increase farm incomes by **$225 billion** over the past **23 years**

GM insect resistant technology has added **$59.5 billion** to the income of global maize farmers, while GM herbicide technology in soybeans has delivered **$64.2 billion** of extra farm income

For each dollar invested in biotech crop seeds in 2018, farmers worldwide gained an average **$3.75**

PLANT BIOTECHNOLOGY 25 YEARS

Biotech #FoodHeroes