

It has been 25 years since biotech crops were first planted. Since then, GM crops and biotechnology have not just transformed agriculture and improved life for farmers and rural communities, but have helped improve the health of the planet, making us healthier too.

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

## Reduced CO2 and pesticide applications



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

**24 BILLION KG** of CO2 since they first came to market - equivalent to removing **16.7 million cars** from the road



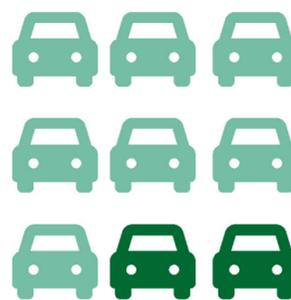
Over the past 25 years, biotech crops, such as those that are insect-resistant, have reduced pesticide applications by

**619 MILLION KG** a global **reduction of 8.1%**



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 were equivalent to removing

**13.6 MILLION** cars from the road



Biotech #FoodHeroes

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

## Greater food security



An estimated **821 MILLION** people in the world suffered from hunger in 2018, and GMOs can play a crucial role in tackling the crisis



Thanks to improved pest and weed control, plant biotechnology has enabled farmers to grow an additional **405 MILLION** tons of maize since their introduction



Plant biotechnology has also been responsible for the additional production of **180 million tons** of soybeans, **357.7 million tons** of corn, and **10.6 million tons** of canola over the past **20 YEARS** as farmers have been able to grow more on the same amount of land



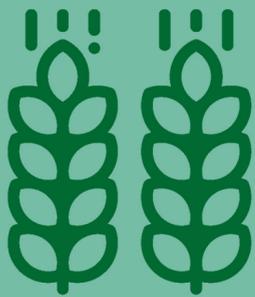
Without biotech, farmers would have needed **51 MILLION** more acres of land to produce the same amount of produce in 2018



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Plant biotechnology has helped to lift entire communities out of poverty, 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**



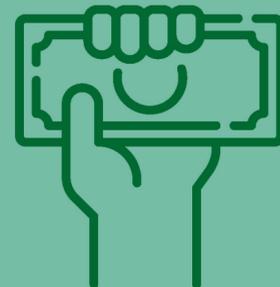
**\$96.2 BILLION**

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



**\$5.15**

In 2018, farmers in developing countries received **\$5.15** for each extra dollar invested in biotech crop seeds



**16.5 MILLION**

This means that GM crops have helped alleviate poverty for over **16.5 million** people in 21 developing countries over the last 20 years



**Biotech #FoodHeroes**

# CELEBRATING 25 YEARS OF BIOTECH

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## Growth in farm income



Thanks to enhanced productivity and efficiency gains, GMOs have helped increase farm incomes by **\$225 billion** over the past **25 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 **\$3.45**



**Biotech #FoodHeroes**