### CELEBRATING 25 YEARS OF BOTECH



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**



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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

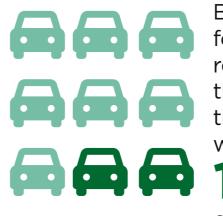


Over the past 25 years, biotech crops have helped farmers be more efficient, helping to reduce pesticide applications by **776 MILLION KG** 





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





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

### **Greater food security**



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

**498 MILLON** tons of maize since their







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

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



Without biotech, farmers would have needed

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



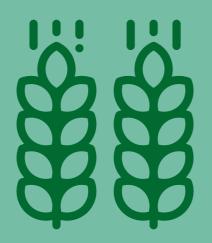
### **Biotech** #FoodHeroes



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

**Better quality of life** 





# **\$135 MILLION**

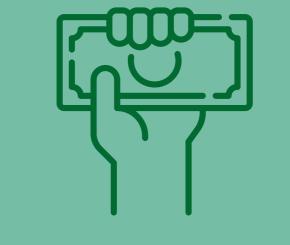
The average cost of discovery, development and authorization of a new plant biotechnology trait is around **\$135 million** 

# **\$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



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.



### Biotech #FoodHeroes



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.

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

## **Growth in farm income**



Thanks to enhanced



GM insect resistant technology has



For each dollar

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

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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 invested in biotech crop seeds in 2018, farmers worldwide gained an average **\$3.75** 

### **Biotech FoodHeroes**