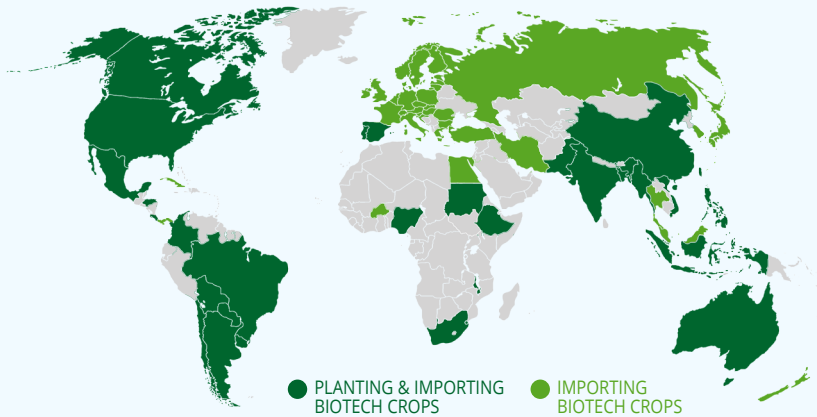


GLOBAL STATUS OF COMMERCIALIZED BIOTECH/GM CROPS: 2019

Biotech Crops Drive Socio-Economic Development and Sustainable Environment in the New Frontier

71 COUNTRIES ADOPTED BIOTECH CROPS SINCE 1996, THE FIRST YEAR OF COMMERCIAL PLANTING



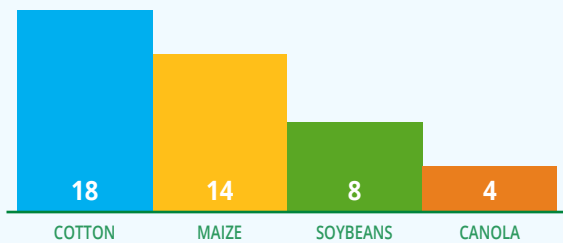
17 MILLION FARMERS IN **29** COUNTRIES PLANTED

190.4 MILLION HECTARES BIOTECH CROPS IN 2019

FASTEST ADOPTED CROP TECHNOLOGY IN RECENT TIMES

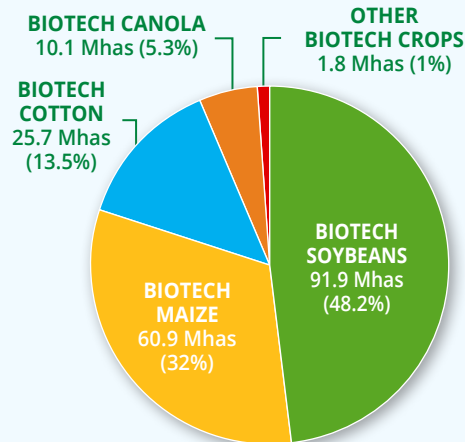
ACCUMULATED BIOTECH AREA SINCE 1996 HAS REACHED **>2.7 BILLION HECTARES**

NUMBER OF COUNTRIES GROWING MAJOR BIOTECH CROPS IN 2019



MALAWI, NIGERIA, ETHIOPIA PLANTED BIOTECH COTTON FOR THE FIRST TIME IN 2019

MAJOR BIOTECH CROPS (AREA & ADOPTION RATE)



BIOTECH MAIZE AREA INCREASED BY 3%



BIOTECH ALFALFA PLANTED FOR THE FIRST TIME IN ARGENTINA



4,485 APPROVALS FOR 403 BIOTECH EVENTS FOR 29 CROPS SINCE 1992 INCLUDING CARNATION, ROSE, AND PETUNIA



USA HAS MOST NUMBER OF GM EVENTS **539 APPROVED EVENTS**

CONTRIBUTION OF BIOTECH CROPS TO FOOD SECURITY, SUSTAINABILITY, AND CLIMATE CHANGE MITIGATION

INCREASE CROP PRODUCTIVITY



US\$225 BILLION FARM INCOME GAINS IN 1996-2018 GENERATED GLOBALLY BY BIOTECH CROPS

CONSERVE BIODIVERSITY



IN 1996-2018, PRODUCTIVITY GAINED THROUGH BIOTECHNOLOGY SAVED **231 MILLION HECTARES** OF LAND FROM PLOWING & CULTIVATION

PROVIDE A BETTER ENVIRONMENT



DECREASED USE OF CROP PROTECTION PRODUCTS BY **776 MILLION KGS** A GLOBAL REDUCTION OF 8.6% IN 1996-2018

REDUCE CO2 EMISSIONS

SAVED **23 BILLION KGS CO2** EQUIVALENT TO REMOVING **15.3 MILLION CARS** OFF THE ROAD FOR 1 YEAR



HELP ALLEVIATE POVERTY AND HUNGER



BIOTECH CROPS UPLIFTED THE LIVES OF

17 MILLION FARMERS

AND THEIR FAMILIES TOTALING



>65 MILLION PEOPLE



For more information, visit:

www.isaaa.org

Sources:

ISAAA. 2019. Global Status of Commercialized Biotech/GM Crops in 2019. *ISAAA Brief No. 55*.
Brookes, G. 2020. GM Crops: Global Socio-Economic and Environmental Impacts 1996-2018.

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#GMCrops2019
#ISAAAReport2019