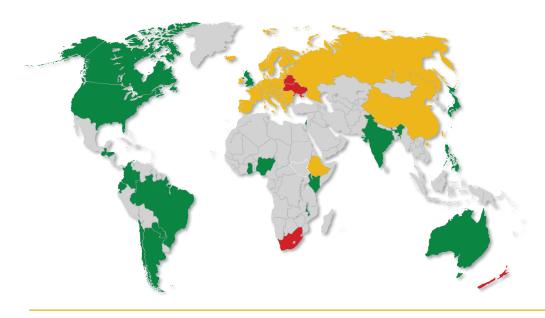
GLOBAL REGULATORY LANDSCAPE FOR GENE-EDITED CROPS

Established regulatory criteria for new breeding innovations in different world regions in the past decade



Countries where products are likely to be regulated as conventional new varieties after recent regulatory policy updates.

Countries where there are noticeable policymaking discussions over proposals to treat SDN1 as conventional new varieties.

Countries where SDN1 products should be treated as GMO according to court interpretations based on old regulations.

NORTH AMERICA

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US & CANADA AMONG FIRST COUNTRIES WITH CONCRETE REGULATORY DECISIONS ON NEW BREEDING INNOVATIONS

SOYBEANS PRODUCING HIGH-OLEIC SOYBEAN OIL SOLD AS CALYNO



FIRST COMMERCIALIZED GENE-EDITED CROP IN THE US IN 2019 DEVELOPED USING TALENS

EUROPE



AFRICA



4 COUNTRIES WITH ESTABLISHED GUIDELINES ON NEW BREEDING INNOVATIONS:

NIGERIA (FEBRUARY 2022) KENYA (MARCH 2022) MALAWI (AUGUST 2022) GHANA (OCTOBER 2023)



For more information, visit: **WWW.isaaa.org** Sources:

ISAAA. 2021. Breaking Barriers with Breeding: A Primer on New Breeding Innovations for Food Security. *ISAAA Brief* No. 56.

ISAAA Biotech Updates. https://www.isaaa.org/kc/cropbiotechupdate/

Updated January 24, 2024

LATIN AMERICA



8 COUNTRIES WITH ESTABLISHED CRITERIA OF NEW BREEDING INNOVATIONS: BRAZIL • CHILE • COLOMBIA • ECUADOR GUATEMALA HONDURAS • PARAGUAY ARGENTINA

ARGENTINA PIONEER REGULATION ISSUED IN 2015 GENE-EDITED NON-BROWNING POTATO DEVELOPED USING CRISPR RELEASED IN 2018



ASIA AND THE PACIFIC

AUSTRALIA, JAPAN, PHILIPPINES, AND INDIA ISSUED IMPLEMENTING REGULATIONS AND SOME

APPROVED THEIR FIRST GENE-EDITED PRODUCTS



JAPAN STARTED SALE OF GENE-EDITED HIGH GABA TOMATO IN 2021

PHILIPPINES

REDUCED BROWNING GENE-EDITED BANANA DETERMINED AS NON-GMO IN 2023 FIRST GENE-EDITED PRODUCT TO GO THROUGH THE PHILIPPINES' GENE EDITING REGULATORY PROCESS

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SDN1: site-directed nuclease

GMO: genetically modified organism TALENs: transcription activator-like effector nucleases CRISPR: clustered regularly interspaced short palindromic repeats GABA: gamma-aminobutyric acid