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GLOBAL STATUS OF COMMERCIALIZED BIOTECH/GM CROPS IN 2024

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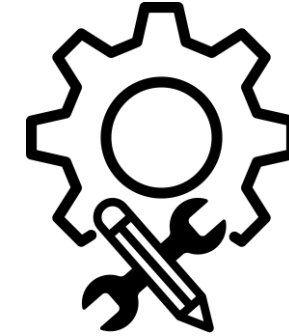


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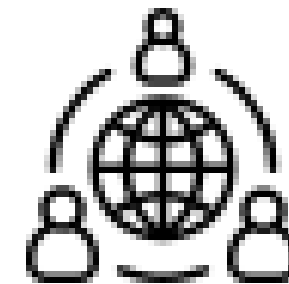
Feeding the world with knowledge

*A world where accurate biotech information
empowers farmers and consumers to drive
food security through innovation*

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**CAPACITY
BUILDING**



**NETWORKING &
PARTNERSHIPS**

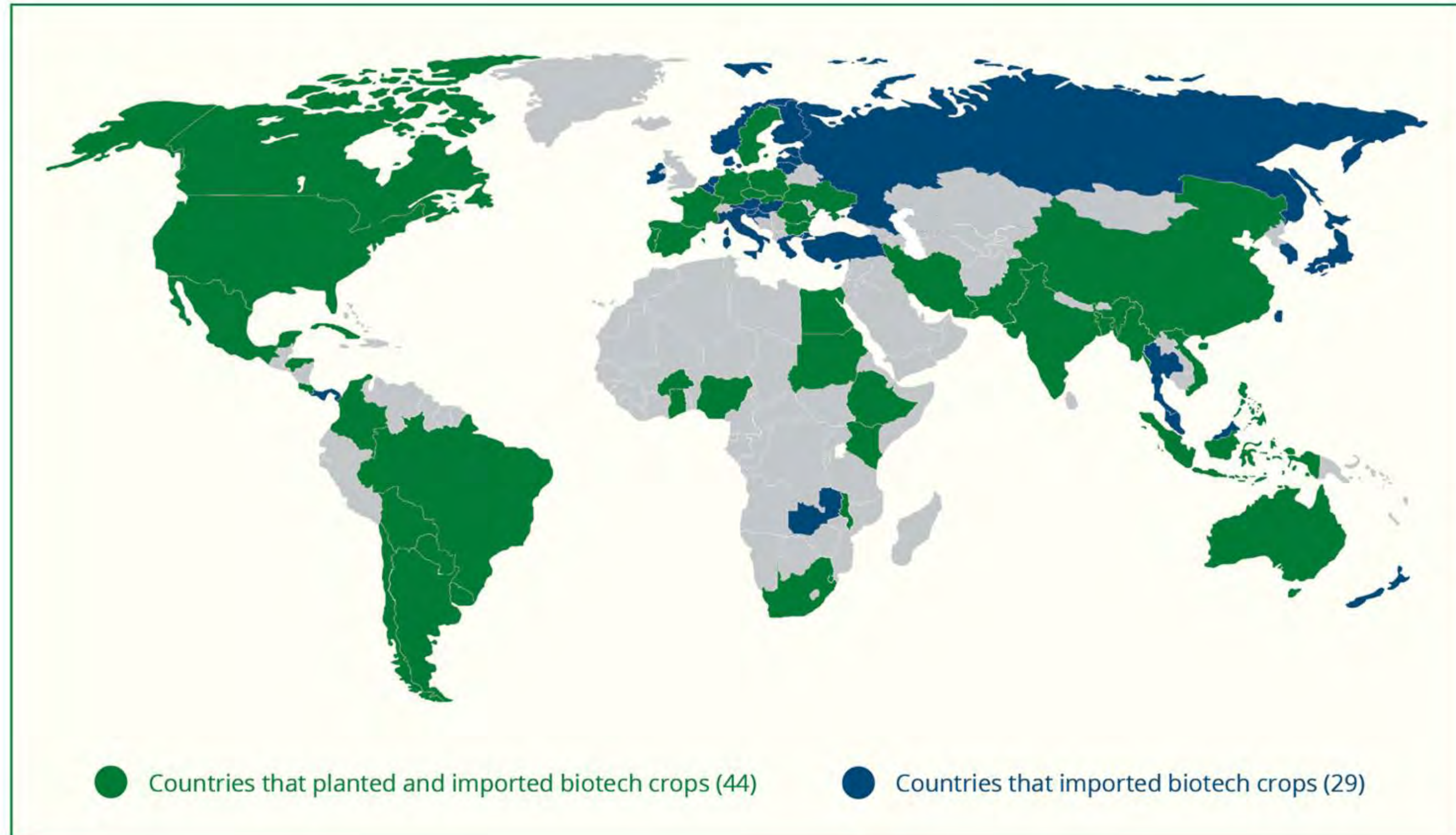


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GLOBAL STATUS OF COMMERCIALIZED BIOTECH/GM CROPS IN 2024

From 1996 to 2024, 73 countries have adopted biotech/GM crops, demonstrating 29 years of safe use and widespread integration worldwide.



Countries that Planted and Imported Biotech/GM crops from 1996 to 2024.

Source: ISAAA, 2024

Biotech/GM Crops Commercialized in 2024

Source: ISAAA, 2024



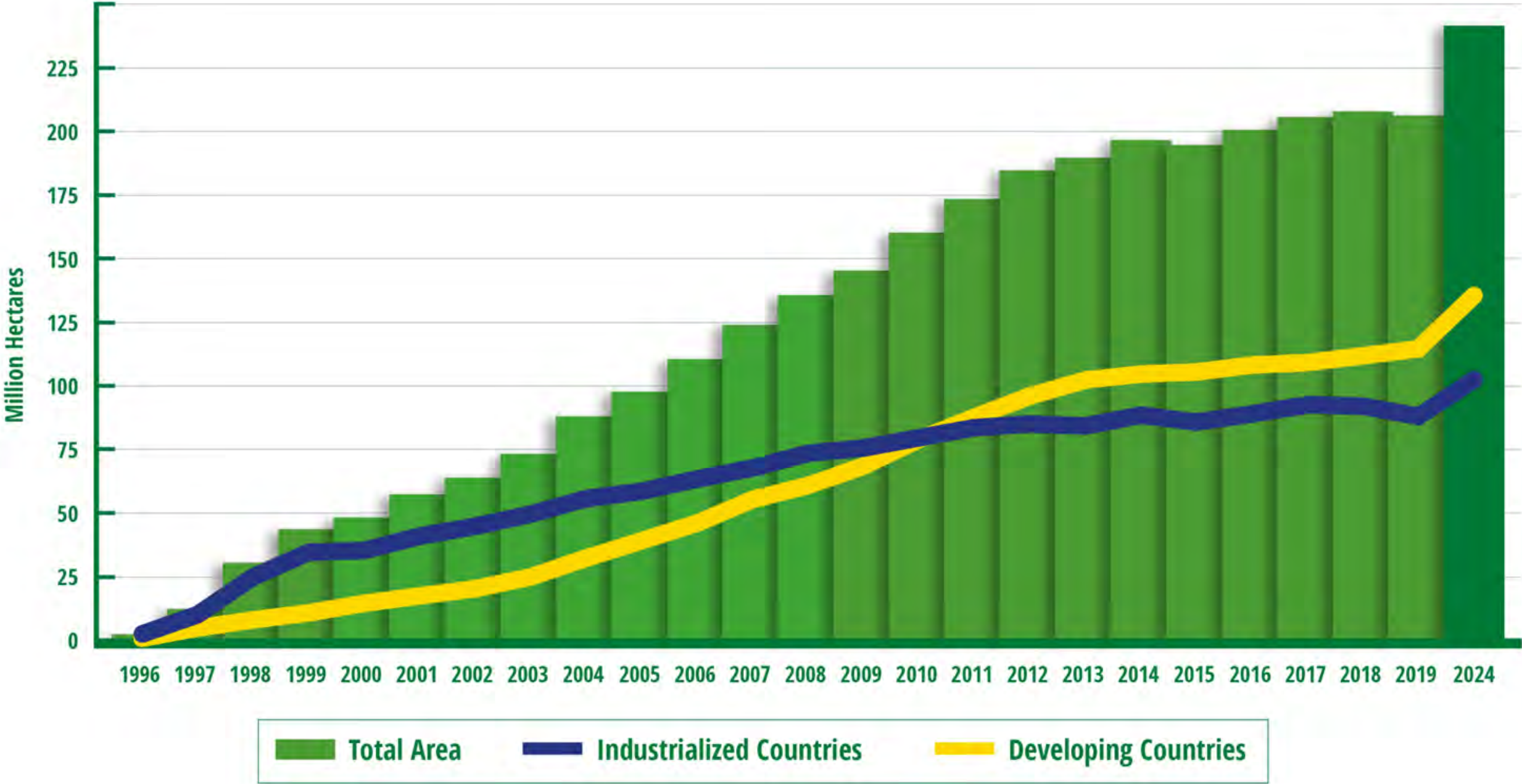
Legend:

- | | | | |
|-------------|------------------|--------------------|----------------|
| Soybeans | Papaya | Pineapple | Rice |
| Maize | Squash | Safflower | Cowpea |
| Cotton | Potato | Petunia | Tomato |
| Canola | Apples | Creeping bentgrass | Brown mustard |
| Sugar beets | Eggplant/Brinjal | Dry edible beans | Indian mustard |
| Alfalfa | Sugarcane | Wheat | Banana |

- | |
|--------------------|
| Blue carnations |
| Blue petal roses |
| Blue chrysanthemum |
| Gypsophilas |
| Eucalyptus |
| Camelina sativa |

Distribution of Biotech/GM Crops in Industrialized and Developing Countries

Source: ISAAA, 2024



Top Five Biotech/GM Crop Planting Countries



US
>79.9 M ha

maize (90%), soybeans (96%), cotton (93%), alfalfa, canola, sugar beets, potato, papaya, squash, apples, petunia, tomato, creeping bentgrass, pothos



Brazil
68.5 M ha

soybean, maize, cotton, sugarcane, eucalyptus, dry edible beans



Argentina
25.7 M ha

soybean, maize, cotton, alfalfa, safflower, potato, wheat



India
11.9 M ha

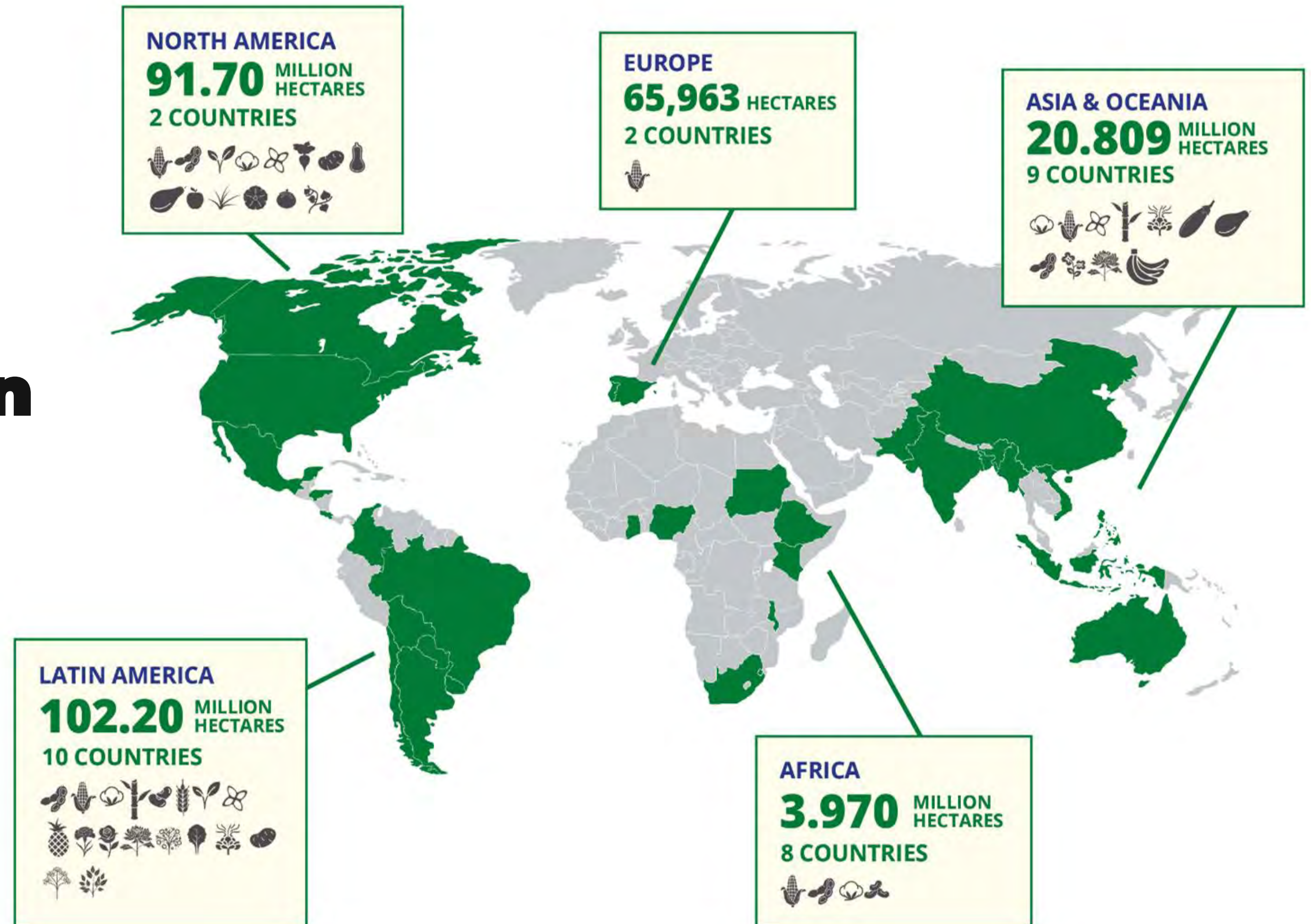
cotton



Canada
11.8 M ha

canola, soybean, maize, sugar beets, potato, apples, alfalfa

Source: ISAAA, 2024



Top Biotech/ GM Crops

Source: ISAAA, 2024



soybean

107.2 M ha



maize

72.6 M ha



cotton

25.3 M ha



canola

11.2 M ha

Approved Biotech/ GM Crops in 2024



TELA maize

Source: ISAAA | Science Speaks | Biotech Updates



TELA maize



TR4-resistant banana



**Yield-enhanced
eucalyptus**



Glowing petunia



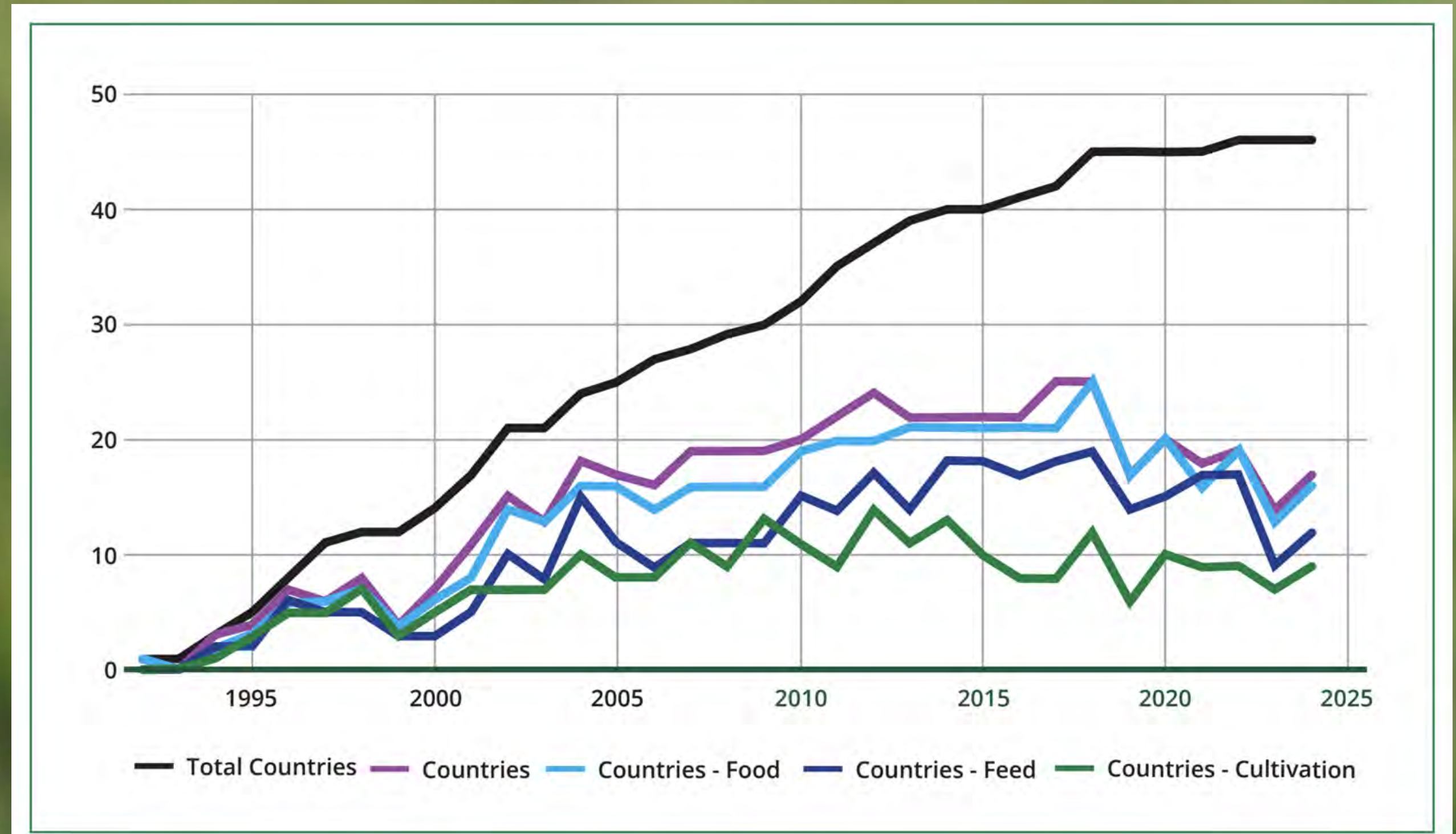
Air-purifying pothos

Key Trends in Countries/Regions

- The US remains the global leader in adoption and regulations.
- Several Asian countries and Australia are expanding their GM crop portfolios, regulatory hurdles and legal challenges remain.
- Latin America has surpassed North America in global biotech crop production.
- Africa has emerged as a growth frontier with new planting countries.
- Adoption in Europe continues to be concentrated in Spain and Portugal.

Number of Countries With Approvals 1992-2024

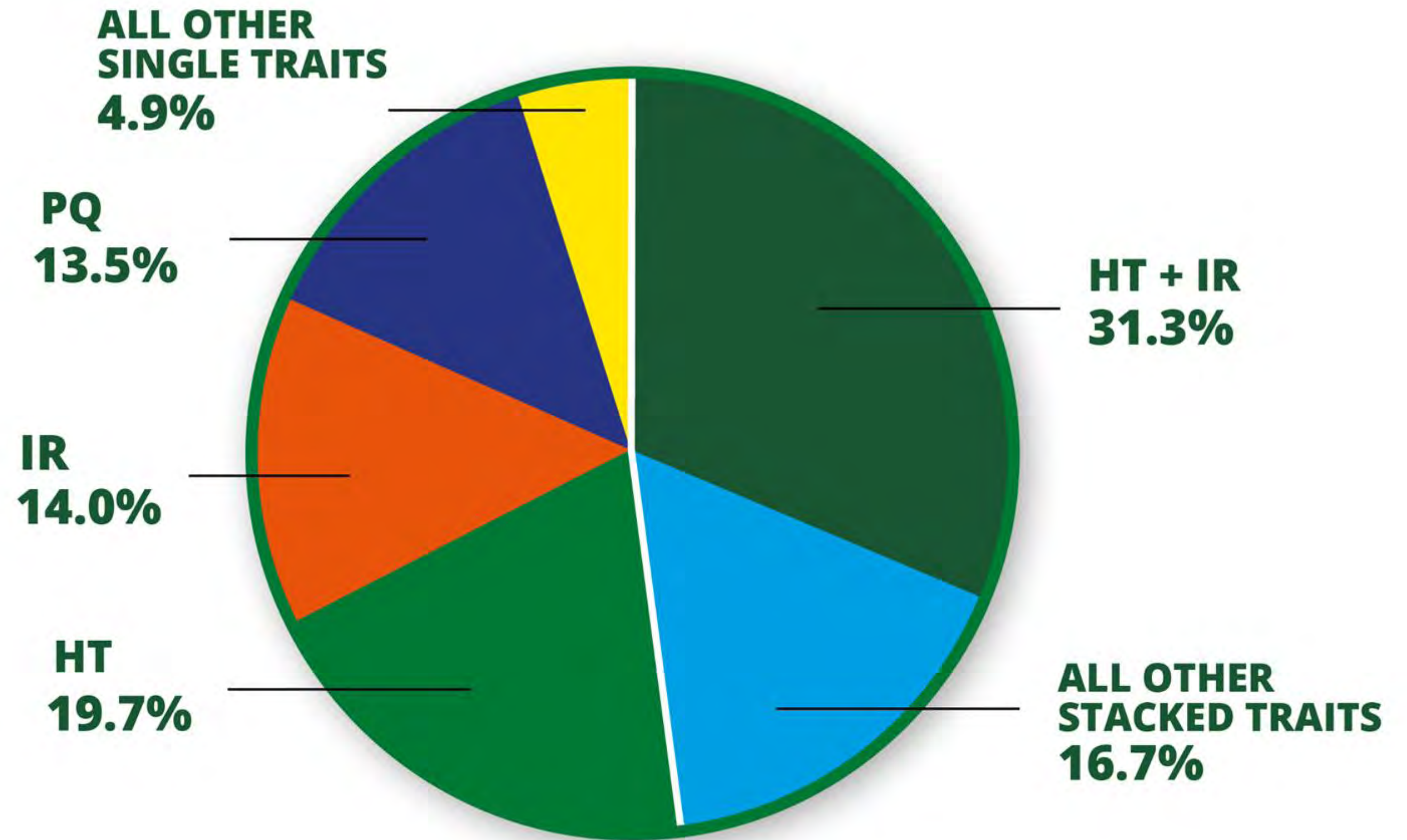
Source: ISAAA, 2024



Traits of Approved Events

1992-2024

Source: ISAAA, 2024



Way Forward

- ✓ intensify science communication efforts
- ✓ pursue regional regulatory cooperation
- ✓ continue harnessing emerging technologies
- ✓ engage with policymakers

Source: ISAAA, 2024



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THANK YOU!

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