

Agricultural Biotechnology: Facilitating Trade for Food and Feed

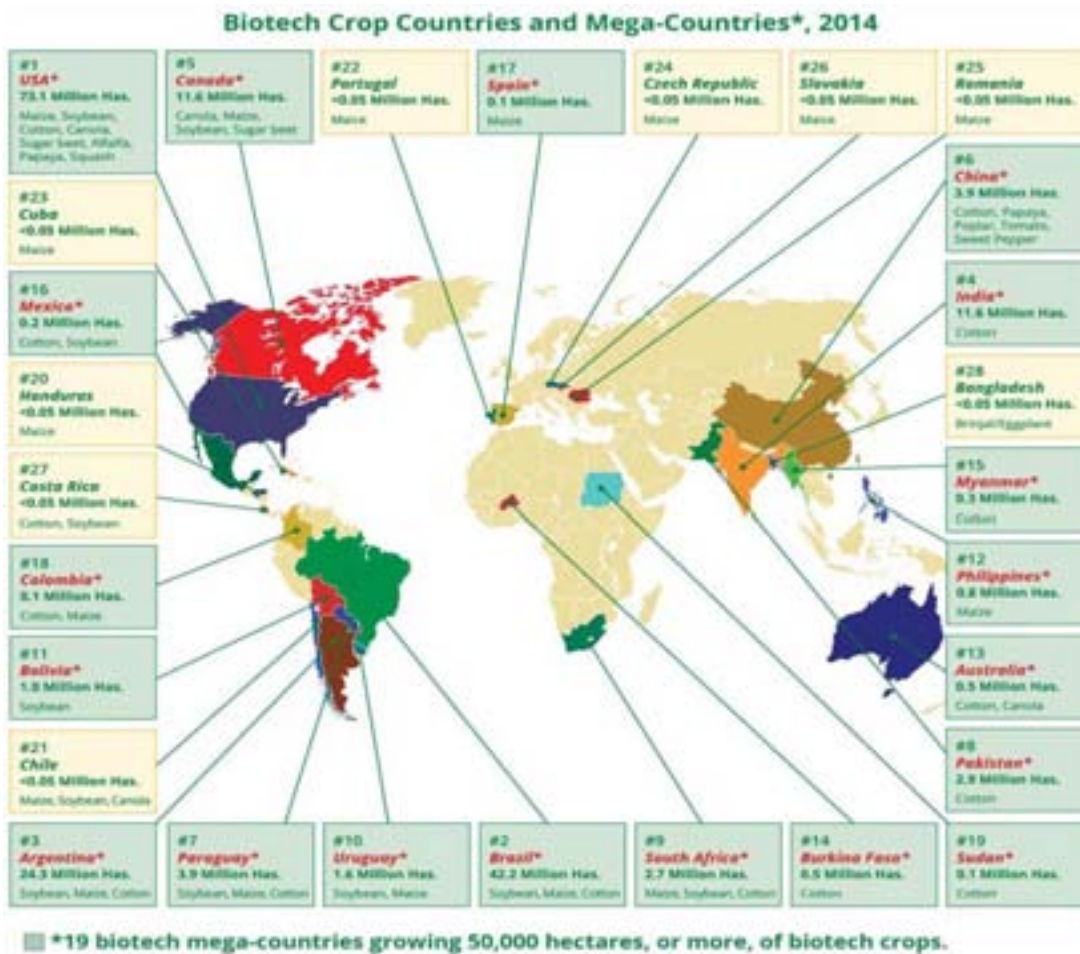
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Assistant U.S. Trade Representative, Agriculture
North American Agricultural Biotechnology Council
June 2, 2015

Outline

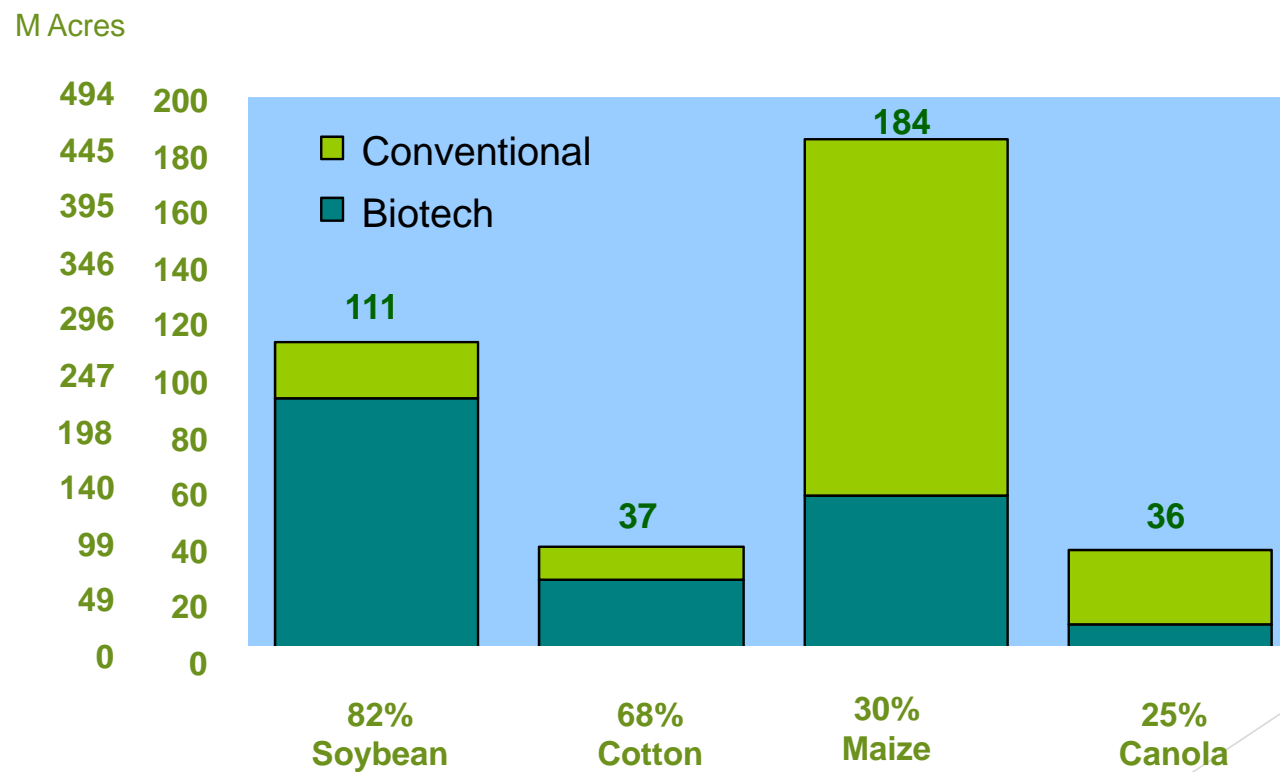
- ▶ Agricultural Biotechnology in U.S. and Global Agriculture
- ▶ Issues Affecting Agricultural Trade
- ▶ U.S. Government Approaches to Trade and Agricultural Biotechnology

Biotech Crop Countries and Mega-Countries*, 2014

2014
ISAAA



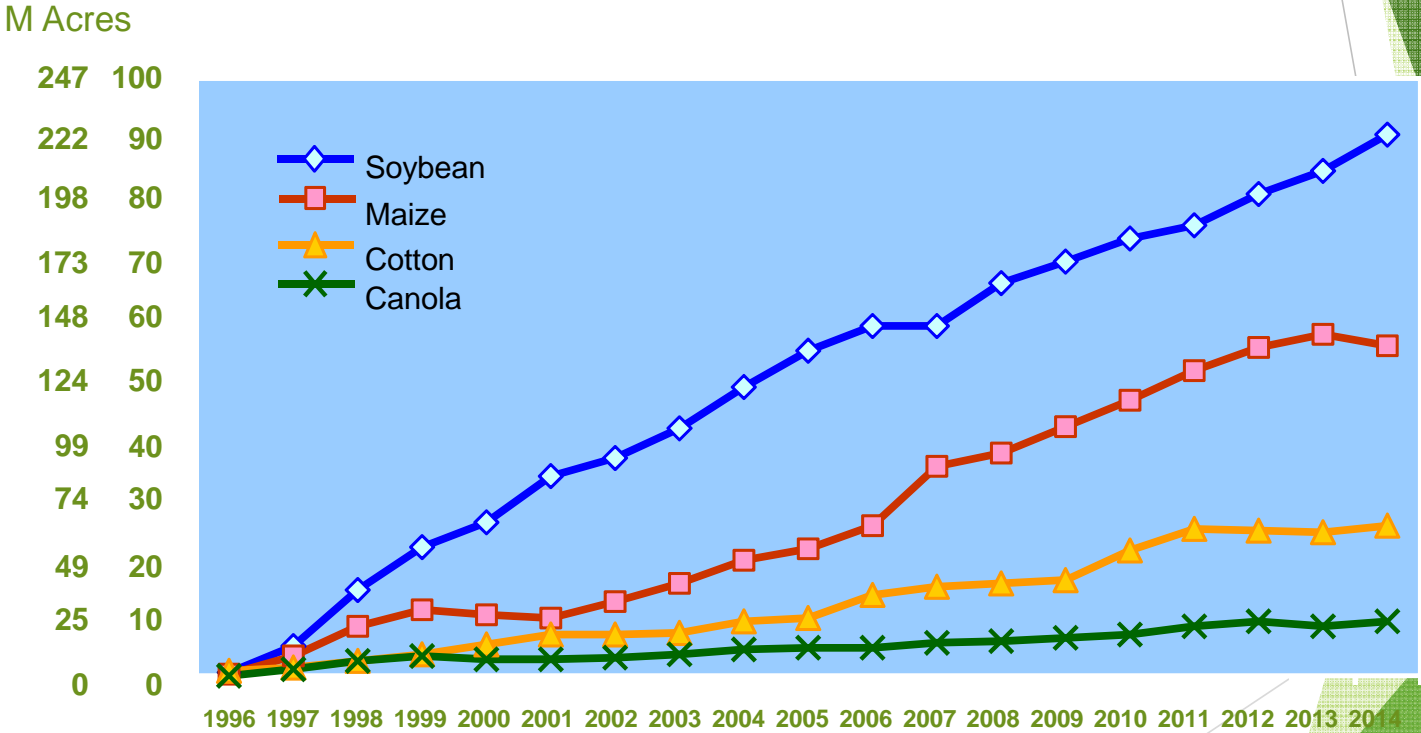
Global Adoption Rates (%) for Principal Biotech Crops, 2014



Source: Clive James, 2014
Hectareage based on FAO Preliminary Data for 2012.

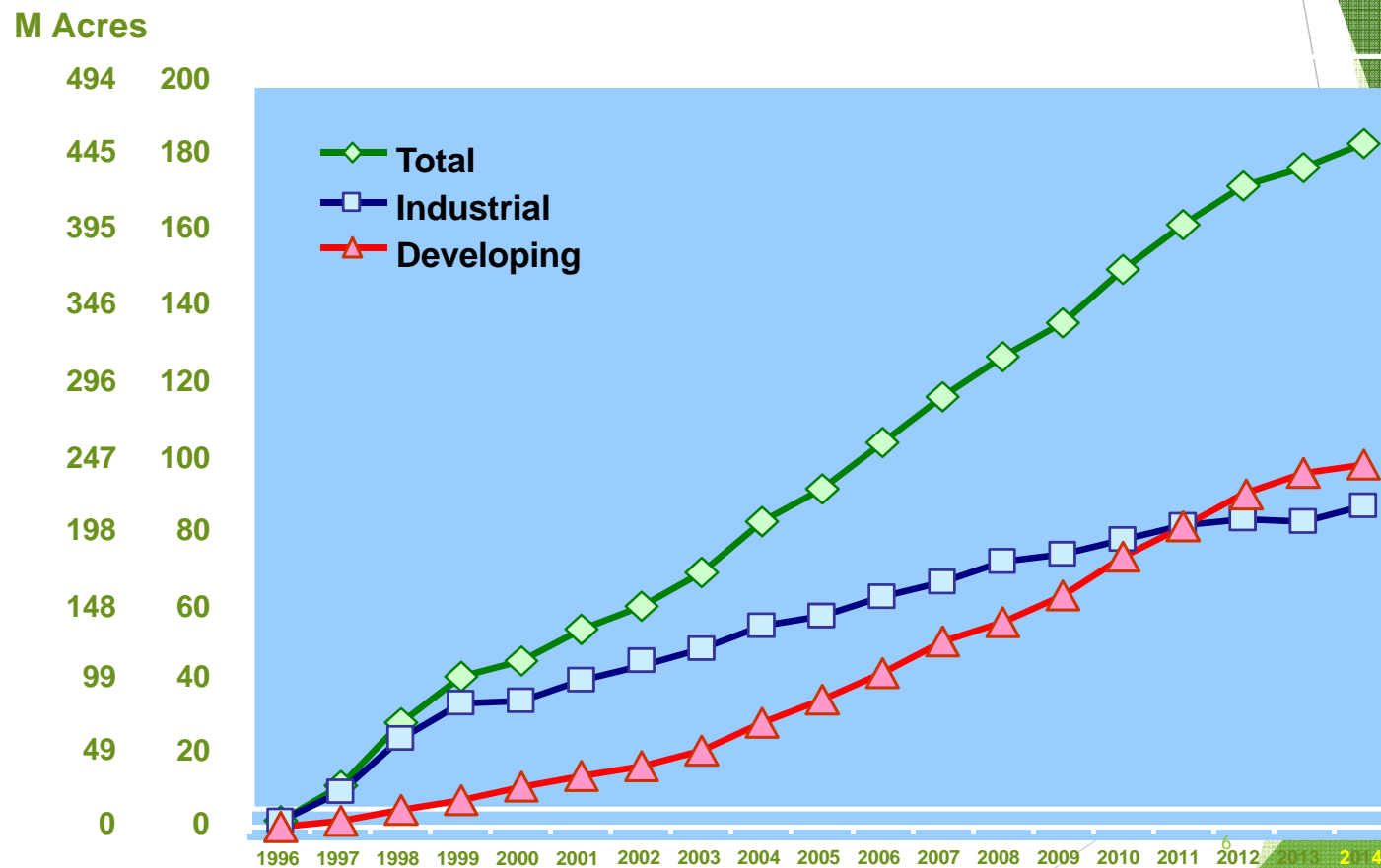
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Global Area of Biotech Crops, 1996 to 2014: By Crop (Million Hectares, Million Acres)



Source: Clive James, 2014

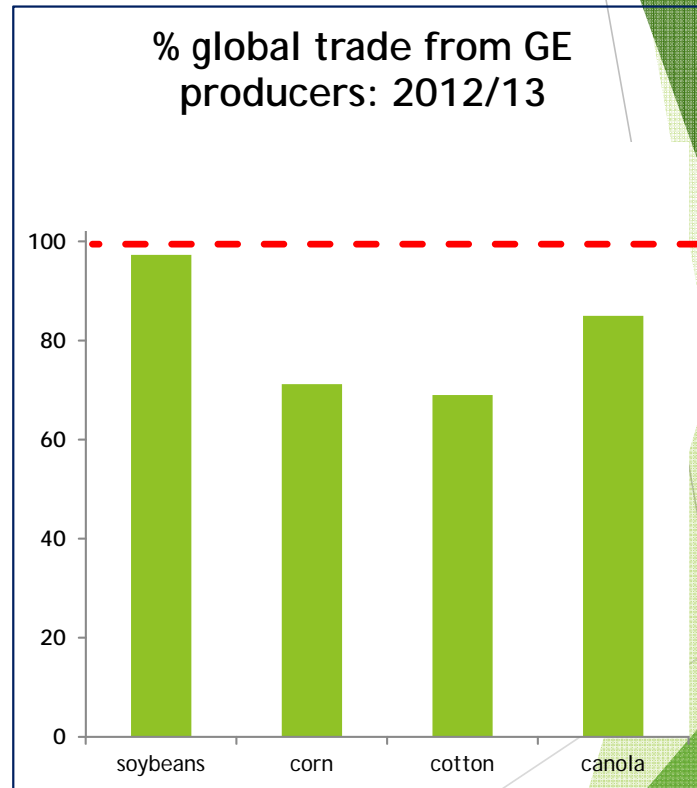
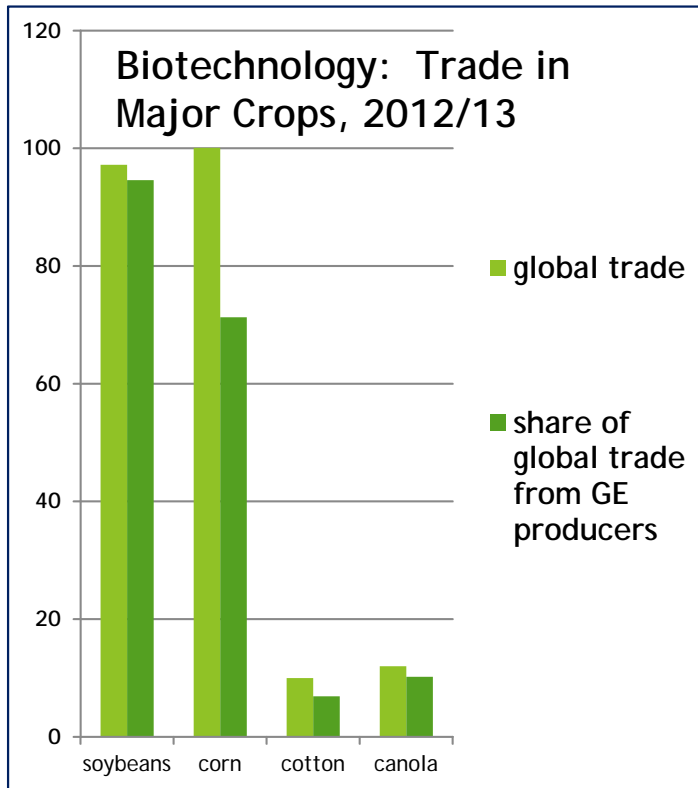
Global Area of Biotech Crops, 1996 to 2014: Industrial and Developing Countries



Source: Clive James, 2014

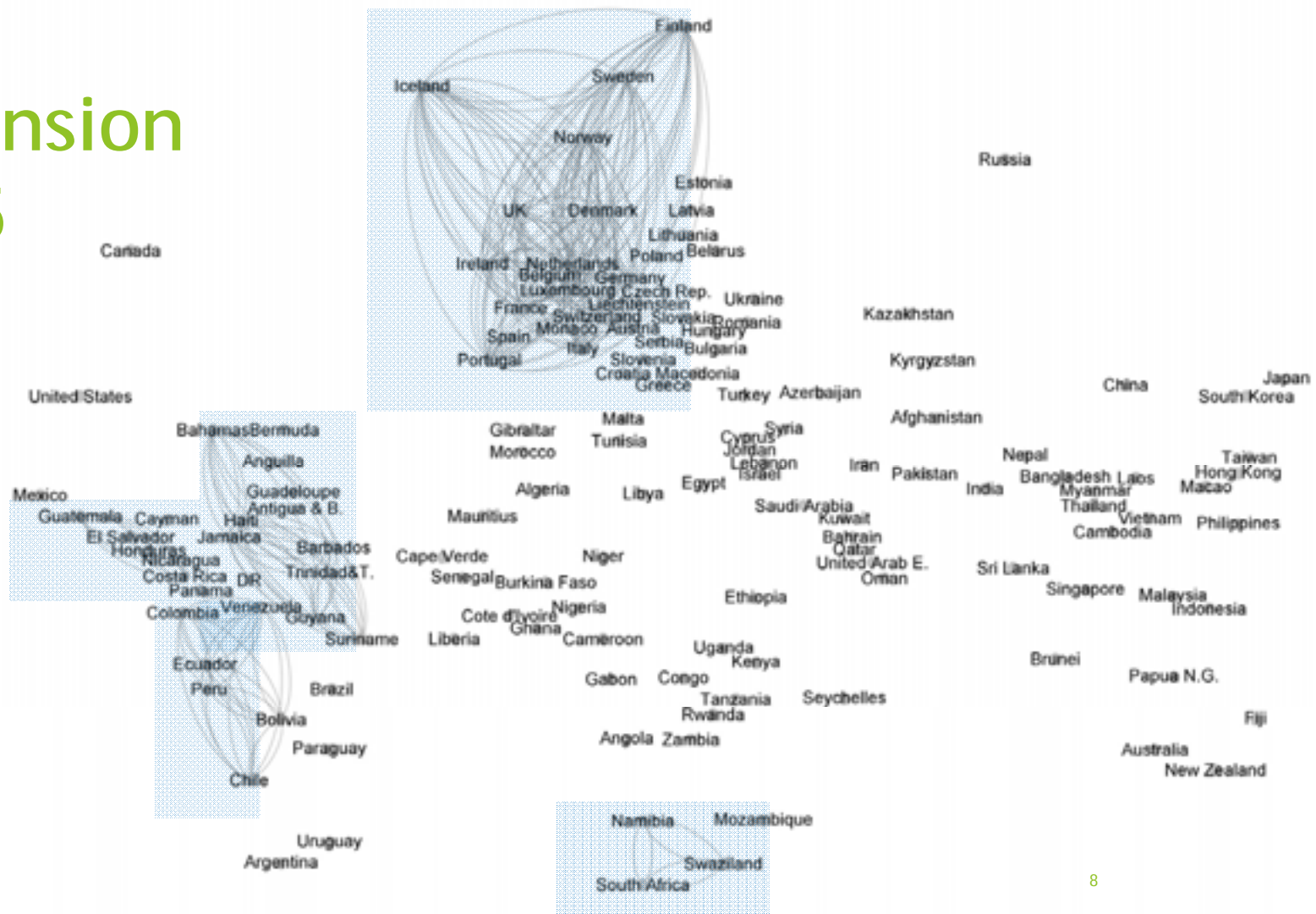
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Biotechnology and Trade



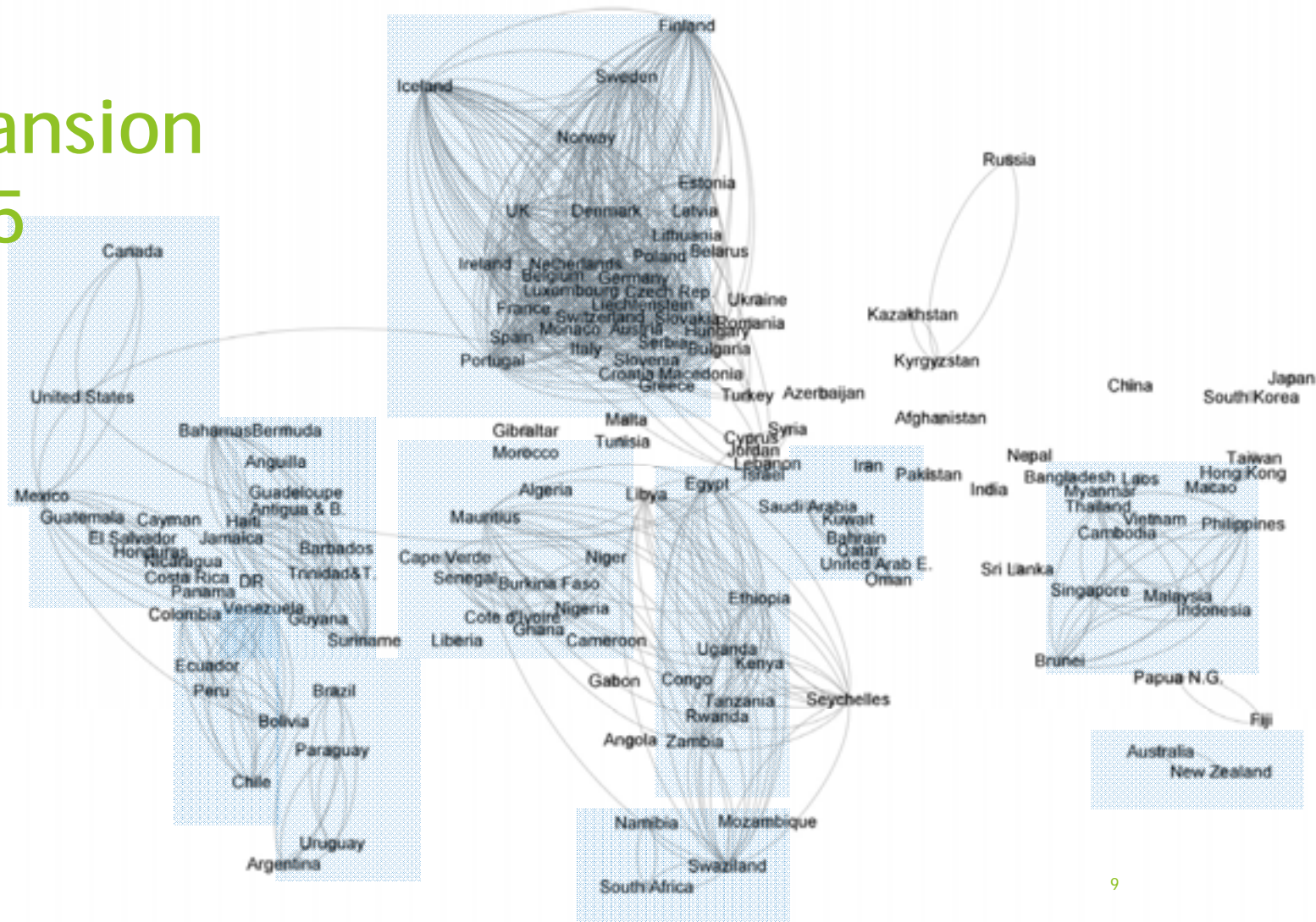
Source: Brooks and Barfoot, 2014

RTA Expansion 1975



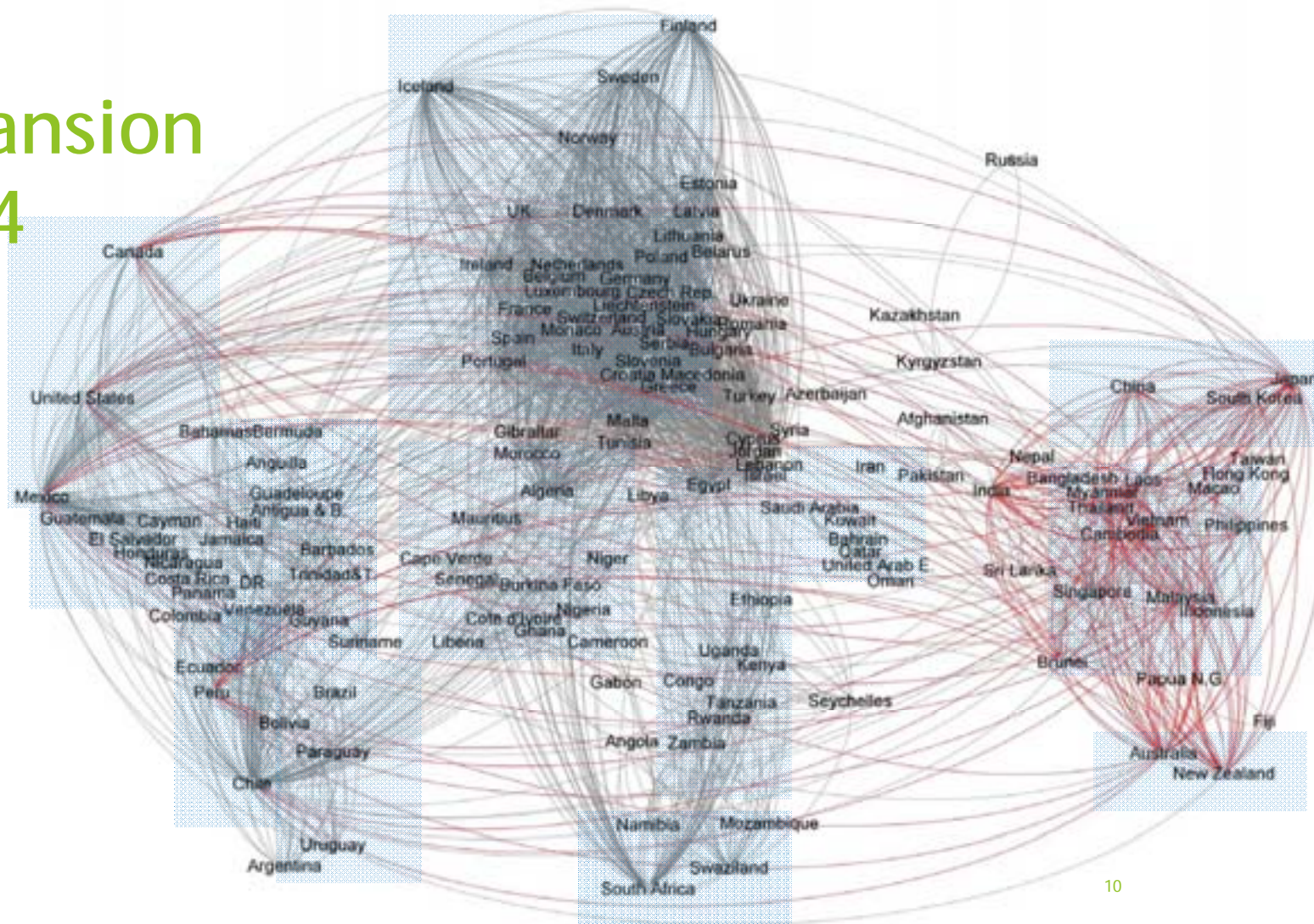
Source: IDB Integration and Trade Sector based on INTrade.

RTA Expansion 1995



Source: IDB Integration and Trade Sector based on INTrade.

RTA Expansion 2014



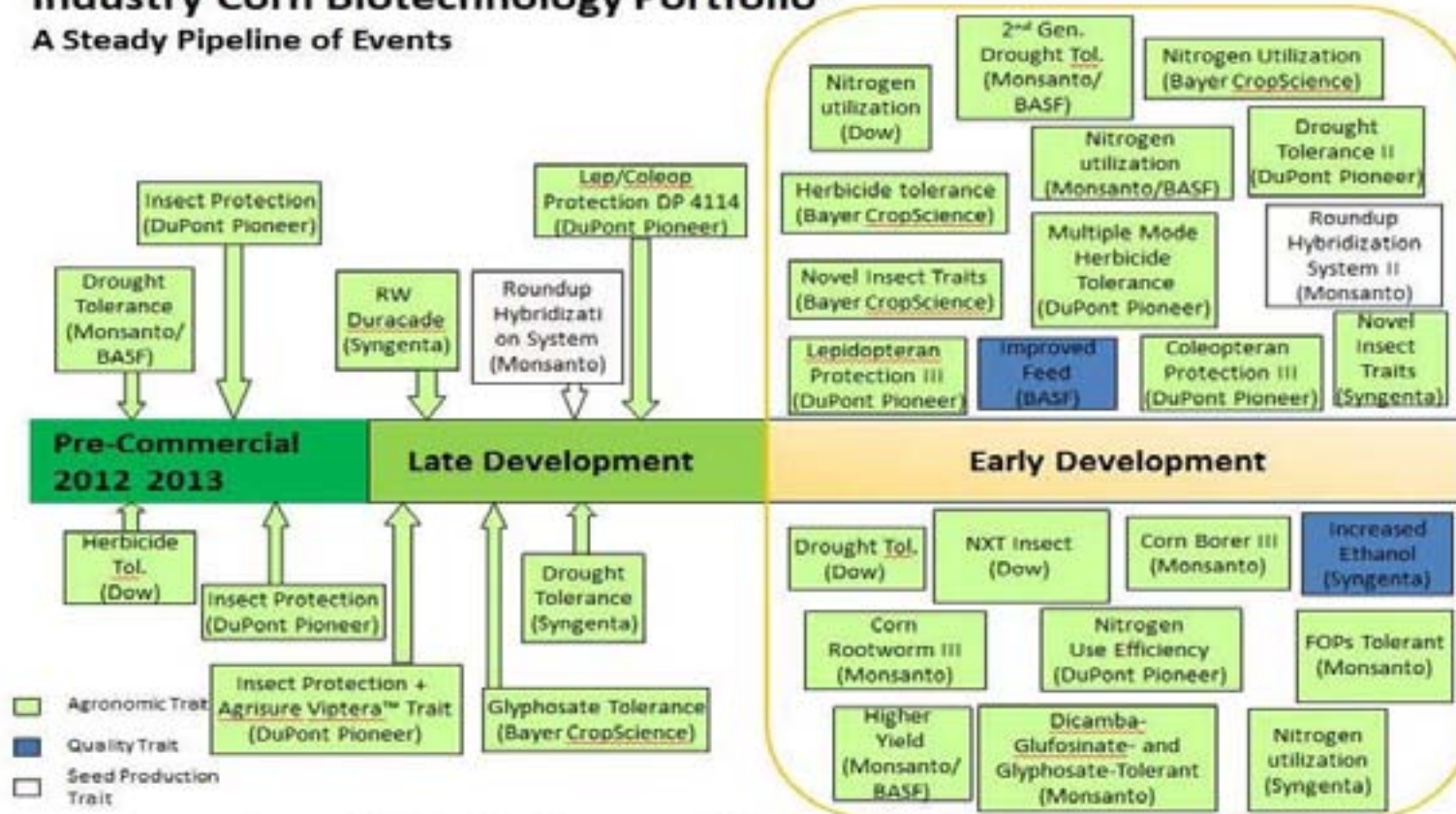
Source: IDB Integration and Trade Sector based on INTrade.

U.S. Commodity Exports (2014)

- ▶ Corn: \$10.6 billion to 71 countries
(93 percent biotech)
- ▶ Soybeans and Products: \$30.5 billion to 110 countries
(94 percent biotech)
- ▶ Cotton: \$4.4 billion to 68 countries
(93 percent biotech)

Industry Corn Biotechnology Portfolio*

A Steady Pipeline of Events

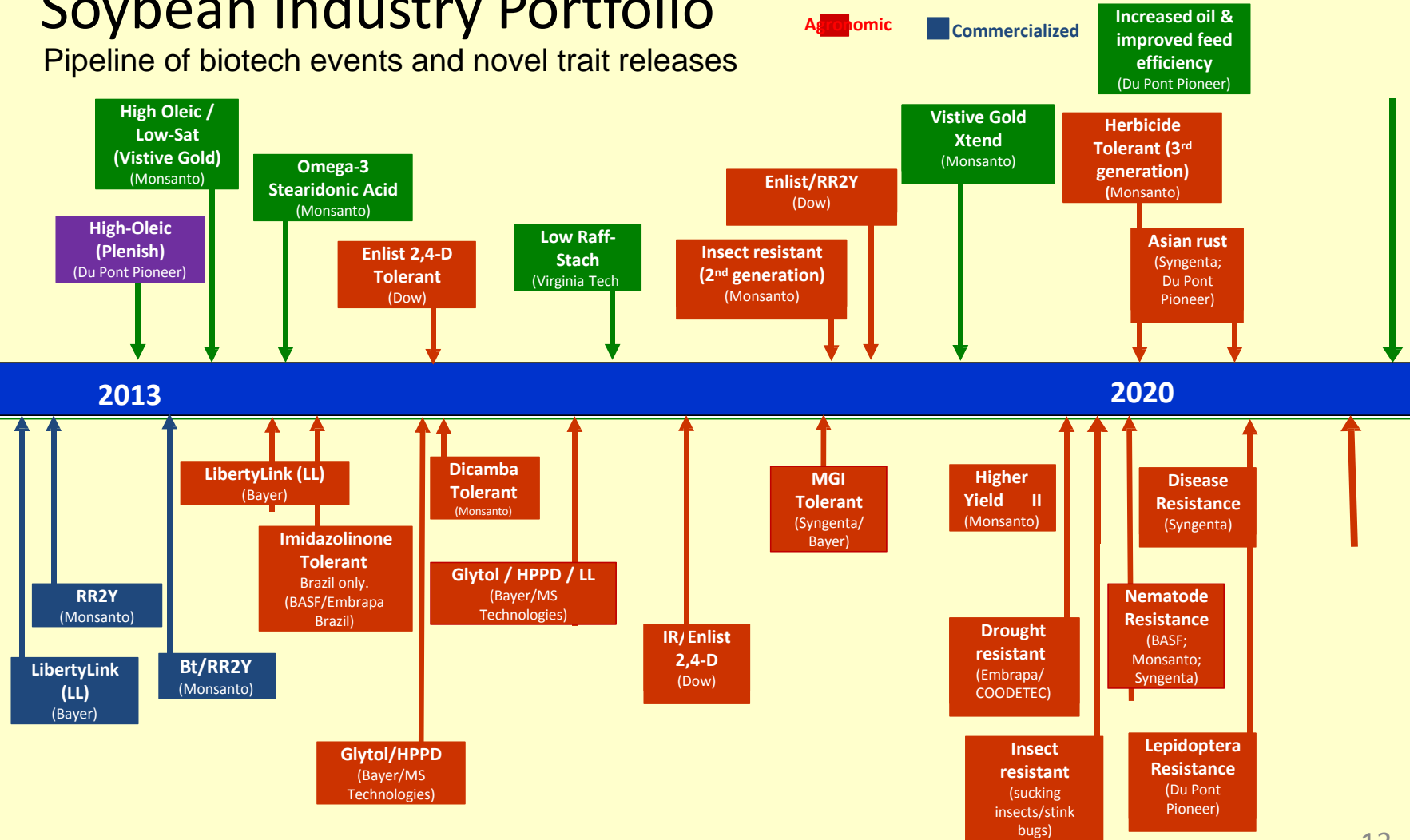


*Estimated commercialization pipeline of corn biotech events prepared by the U.S. Grains Council. Commercialization dependent on many factors, including successful conclusion of regulatory process.

Soybean Industry Portfolio

Pipeline of biotech events and novel trait releases

Quality/Food Commercialized
 Agonomic Commercialized



Source: Pipeline information from industry & published sources: May 2014

Issues Affecting Trade of Products Derived from Modern Biotechnology

- ▶ Lack of regulations in developing countries
- ▶ Asynchronous Authorizations
- ▶ Low Level Presence
- ▶ Labeling
- ▶ Field Trial Permits
- ▶ Liability Issues
- ▶ “Opt Out” on approvals

U.S. Government Approaches

- ▶ Sustained working-level
- ▶ Bilateral
- ▶ Plurilateral
- ▶ Multilateral
- ▶ Trade agreement negotiations
- ▶ Trade and technical capacity building and outreach

The Future?

- ▶ Scientific advances will continue to provide tools to improve crop varieties and animal breeds.
- ▶ Businesses need predictability and certainty in regulatory processes.
- ▶ Enabling policy environments will allow products of these innovations to be used and traded globally in a reliable manner.
- ▶ Stewardship on the part of technology developers is critical to help facilitate trade.