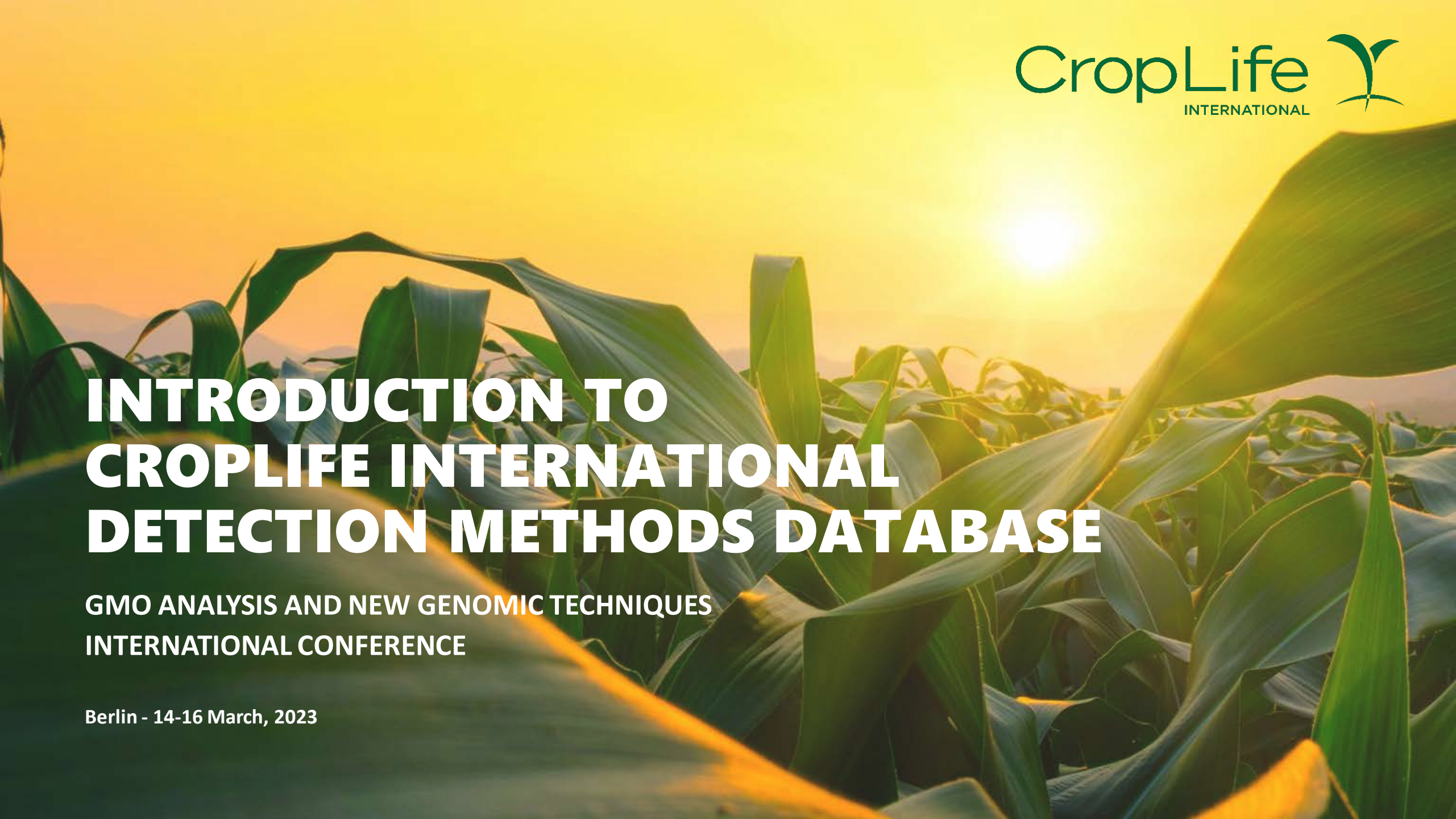


INTRODUCTION TO CROPLIFE INTERNATIONAL DETECTION METHODS DATABASE

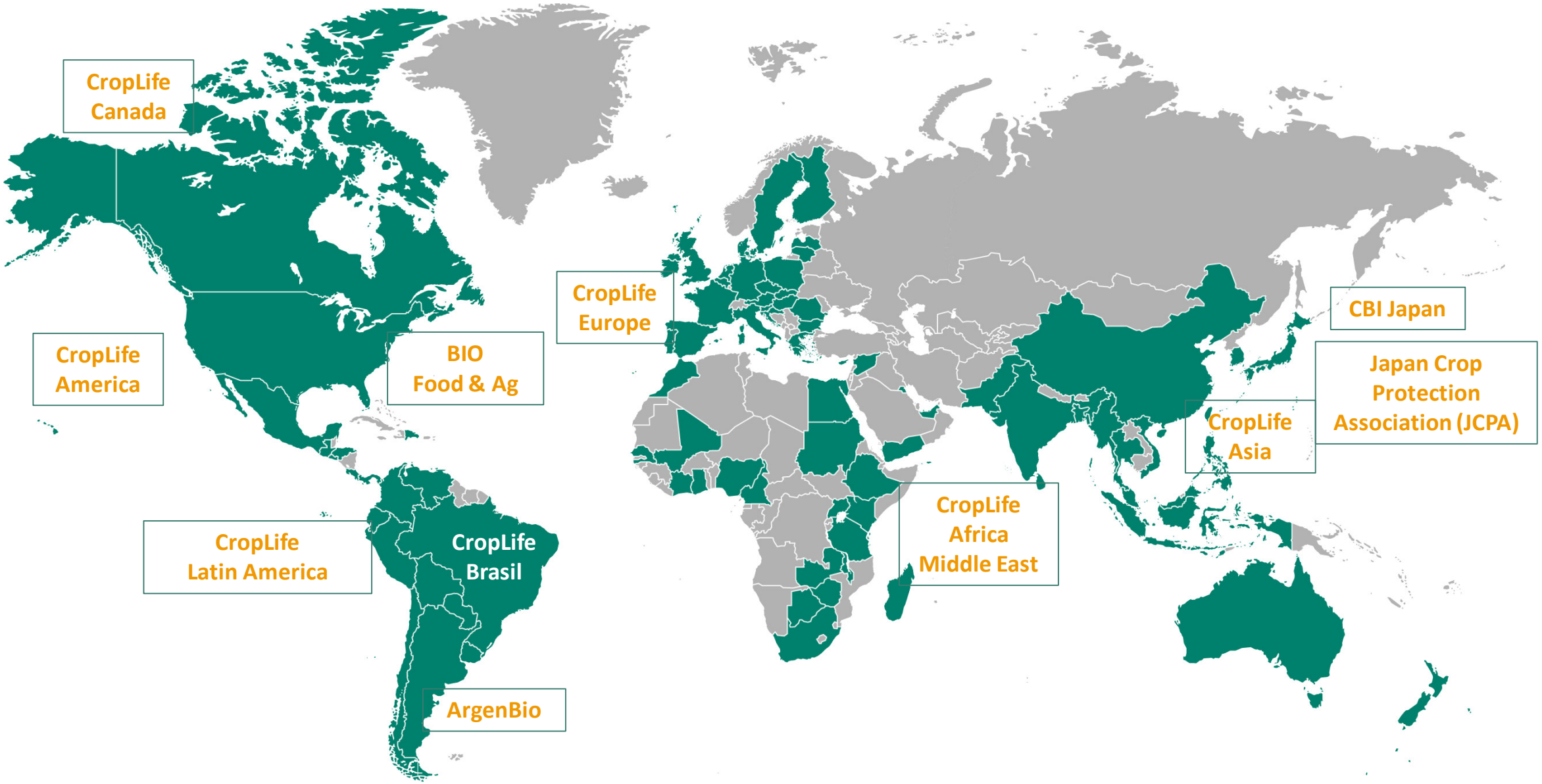
GMO ANALYSIS AND NEW GENOMIC TECHNIQUES INTERNATIONAL CONFERENCE

Berlin - 14-16 March, 2023

Member Companies

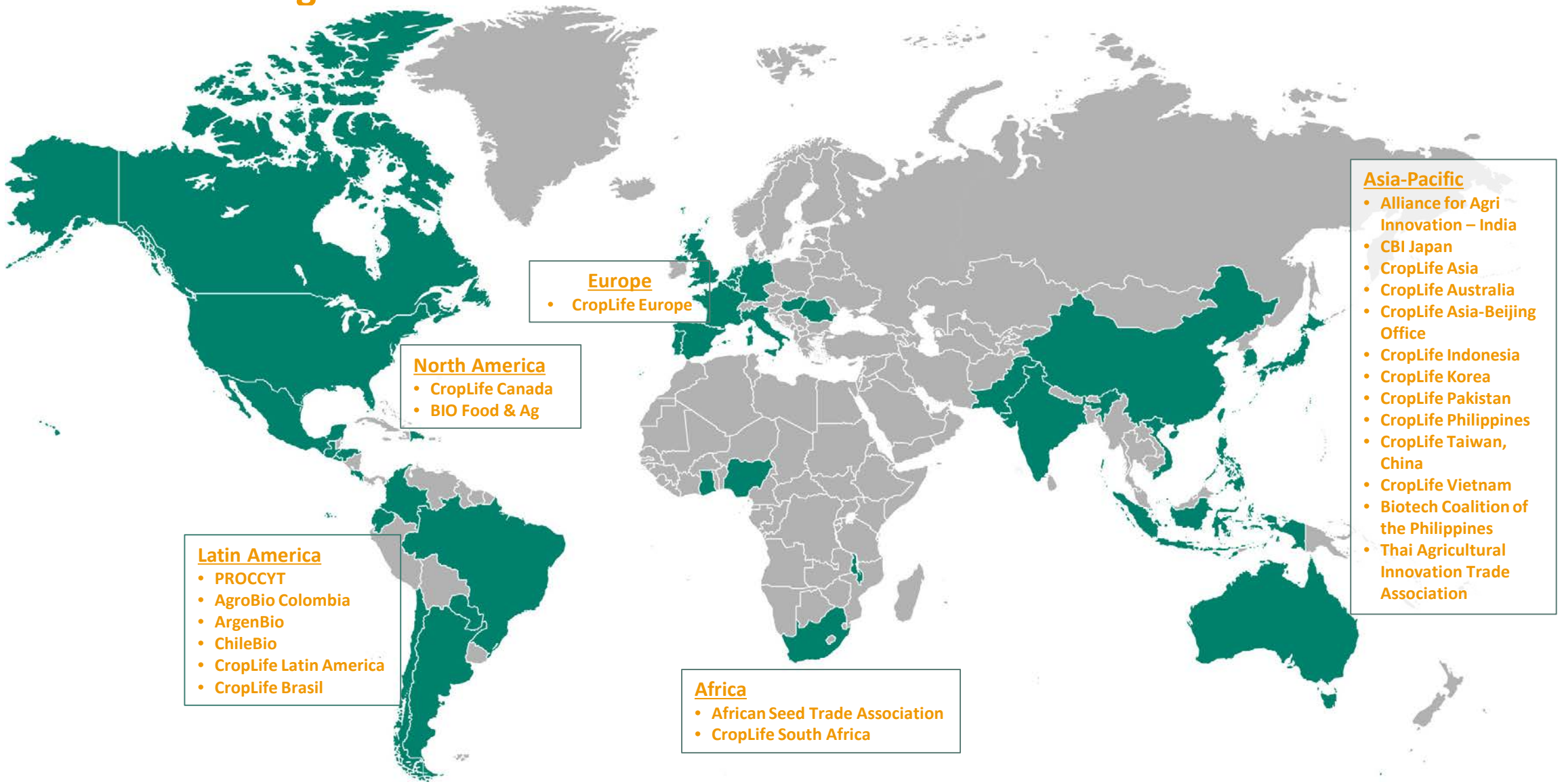
CropLife INTERNATIONAL

Member Associations



Plant Biotech Network

24 National & Regional Associations



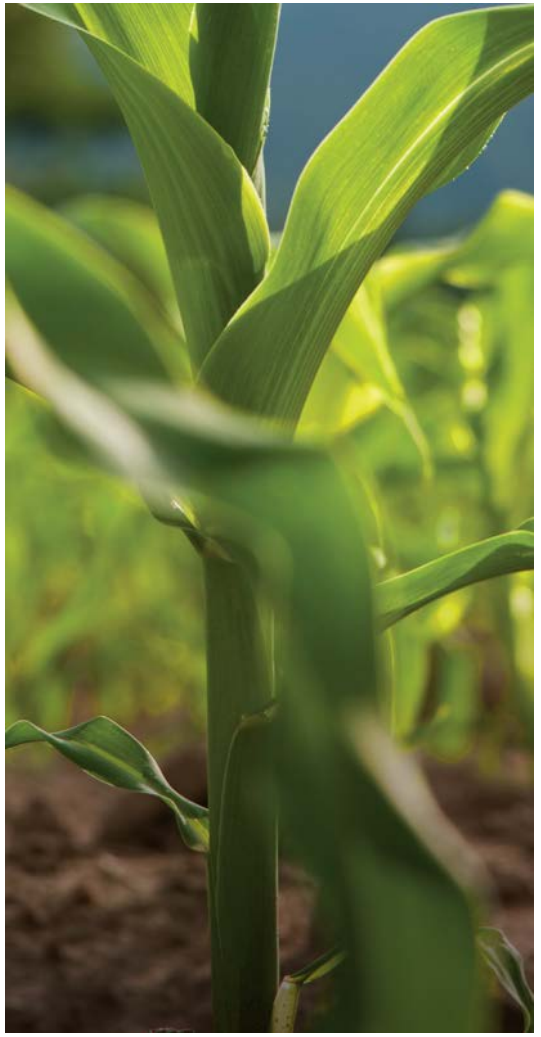
Biotech Information Tools

Maintained by CropLife International

- **Detection Methods database** (https://detection-methods.com/)
  - Public database of GM detection methods, maintained by CropLife International member companies
- **BiotradeStatus website** (http://www.biotradestatus.com/)
  - Public website and database for the Regulatory and Market Status of specific agricultural biotechnology products
- **AgbioInvestor GM monitor database** (https://gm.agbioinvestor.com)
  - Public website with information about GM approvals and planted area
  - Approvals are based on publicly available data
- **GMOAnswers website** (http://gmoanswers.com/)
  - Public website created to provide accurate and validated answers to questions about GMOs
  - Provides easy access to information about GMOs in food and agriculture

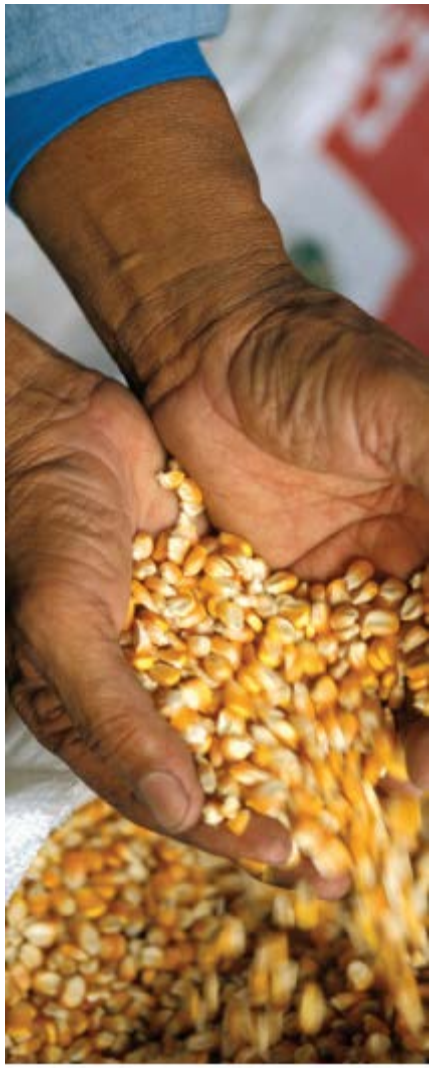
Detection Methods Expert Team

- Encourage international standardization and promote implementation of harmonized, practical and science-based regulations for the development, validation, and utilization of detection methods for GM crops
- Provide technical expertise, develop consensus positions and provide answers to regulatory agencies
- Work together with value chain stakeholders to provide access to diagnostic methods and appropriate reference materials
- Manage and maintain the CropLife Detection Methods Database



Detection Method Database Goals

- Fulfill member company commitment to make detection methods and reference materials available for regulatory requirements, consumer preference and stewardship of our products
- Ensure robust and consistent testing by sharing validated, industry-developed detection methods that are compliant with standardized guidelines
- Facilitate method access to customers and end-users (e.g. regulators, seed companies) to meet their needs (e.g. LLP testing) without specific license agreements
- Provide transparency to downstream stakeholders and governments
- Support global trade and reduce the potential for trade disruptions

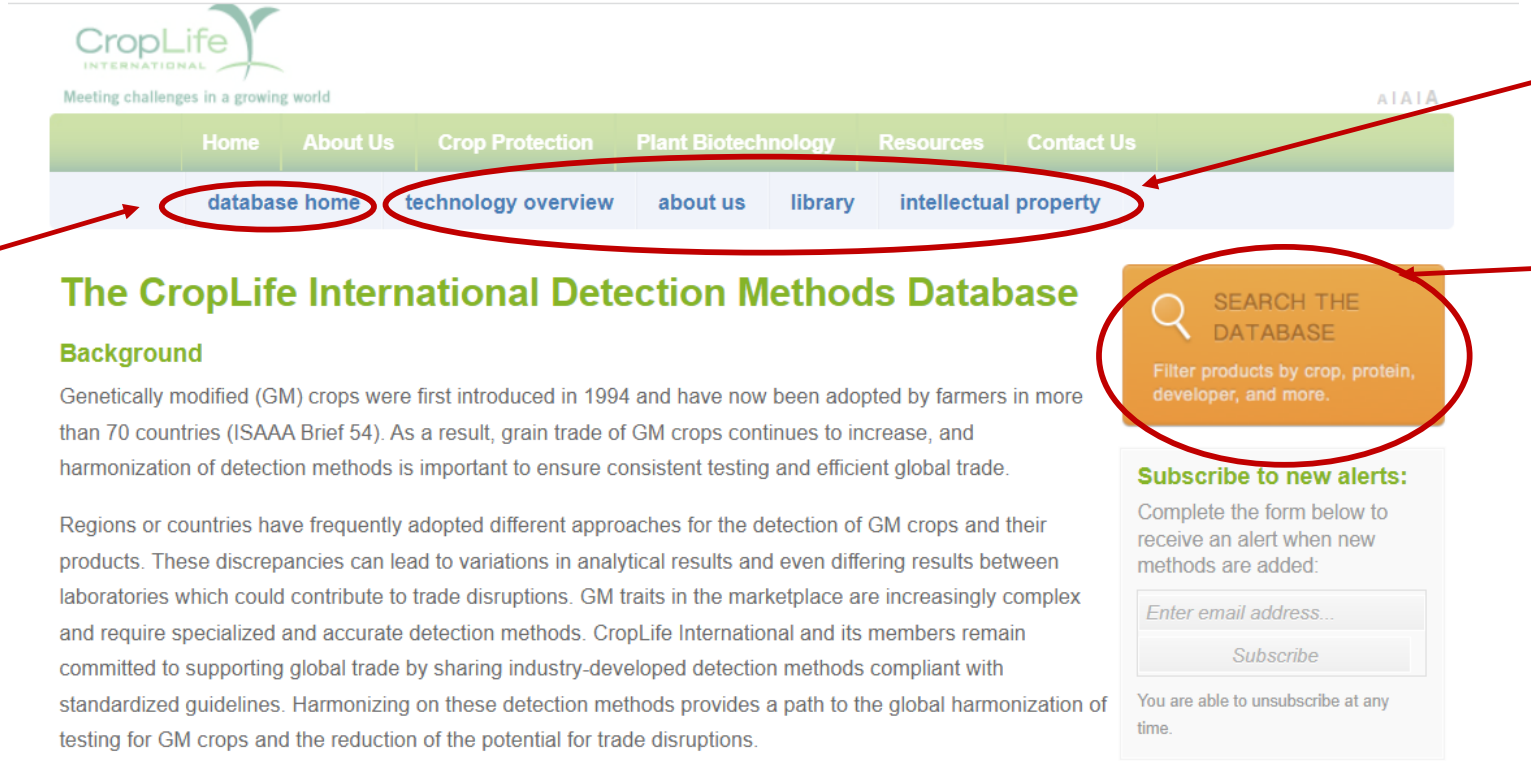


Key Features of Database

- Includes validated event-specific PCR-based methods from member companies
- Links to sources to purchase protein-based methods (e.g. lateral flow strips)
- Links to sources of certified reference material (AOCS, IRMM)
- Publication of methods is typically at the time of commercial sales

The Detection Methods Homepage

(https://detection-methods.com/)

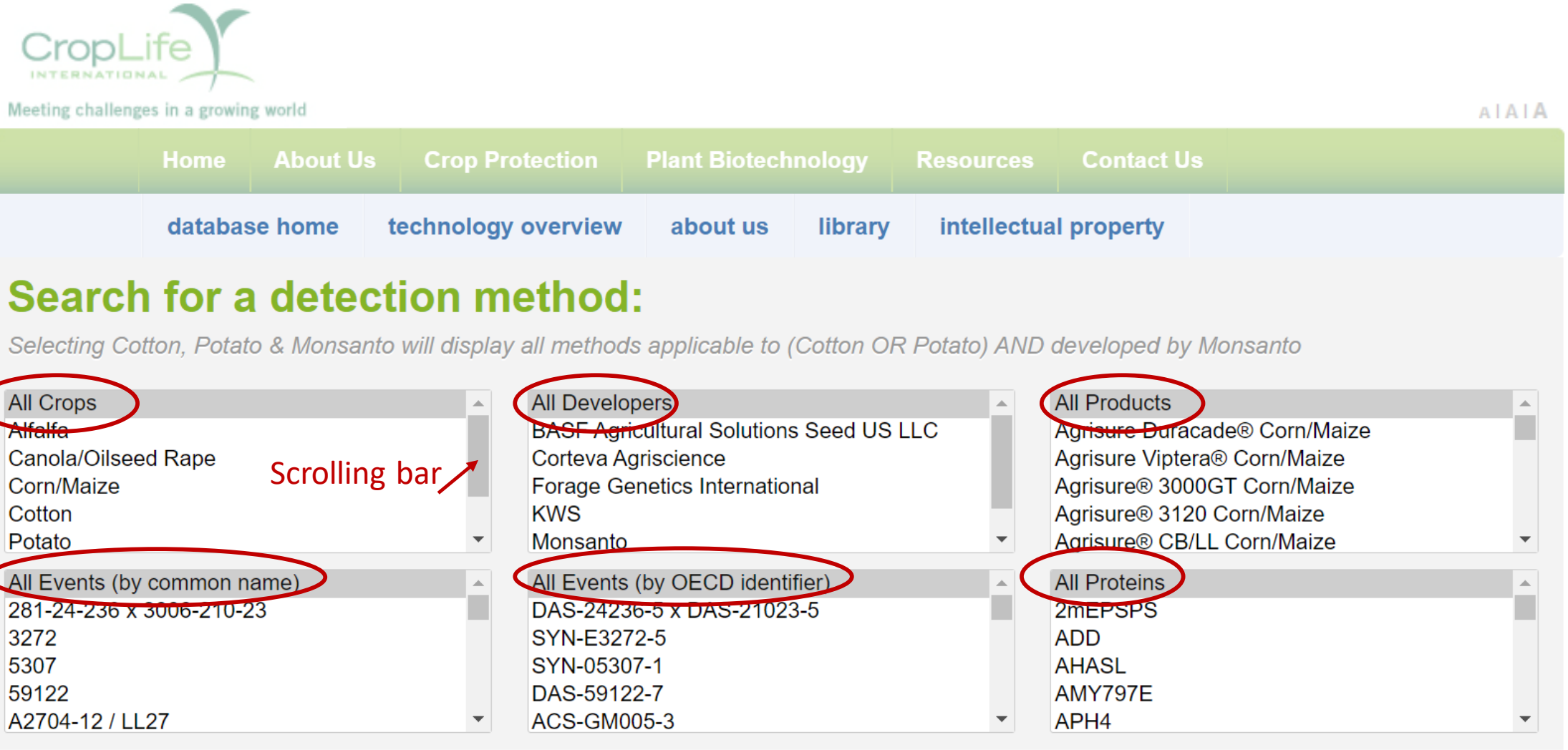


Homepage Information

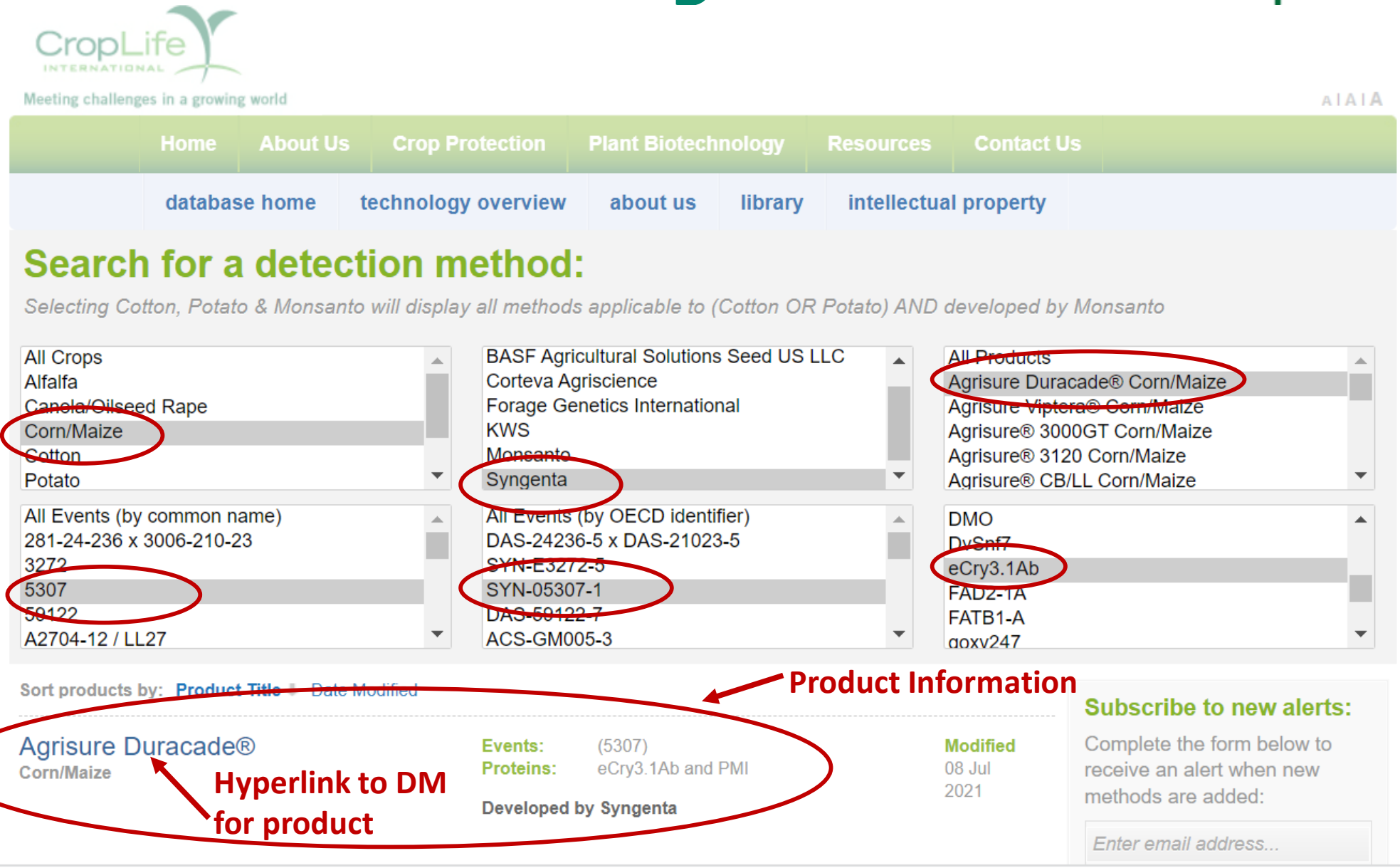
Additional Information

Click to access database

The Database - Selecting a Method



The Database - Selecting a Method



Product Pages

Agrisure Duracade® Corn/Maize

Developed by Syngenta

For more information about Agrisure Duracade® Corn/Maize, please refer to the published descriptions:

- Syngenta

5307

(SYN-05307-1)

CERTIFIED REFERENCE MATERIAL:
› AOCS

PROTEIN METHODS:
eCry3.1Ab | PMI

PCR METHODS:
Quantitative RT

Hyperlink to certified reference material (CRM) provider homepage

PROTEIN METHODS:

eCry3.1Ab	PMI
Envirologix Romer Labs	Romer Labs

Providers for protein detection kits (ELISA and Lateral Flow Strips)

Hyperlink

Are you undertaking fee-for-service testing?

Yes No

Simple Way to License and Access Member Company Methods

CropLife INTERNATIONAL

1 - Information for limited license

Limited License for Detection of Event-Specific Transgenic DNA

1. By checking the "Agree" box you on behalf of your organization (collectively "Licensee") are granted a non-transferable, limited, non-exclusive, royalty-free license ("License") by the member company listing the method(s) ("Company") to use the method(s) and information disclosed to you through this portal for the sole purpose of detecting the
2. By checking the "Agree" box,
3. Except as permitted herein, t
4. Licensee also agrees and co
5. Licensee affirms that it will ac

adventitious presence testing. Licensee also understands that this License is terminable at will by th
reason and that, upon receipt by Licensee of written notice from the Company providing notification
and desist from all use of the method(s) and information disclosed to you through this portal until furt

2 - Complete form

Please complete the form below to agree to the above license and download the metho

All fields required

First Name:
Last Name:
On behalf of:
Email:
Phone:
Street:
City:
State:
Postal/Zip Code:
Country:
I Agree

3 - Check email

Thank you.

Please check your email for a link to your download.

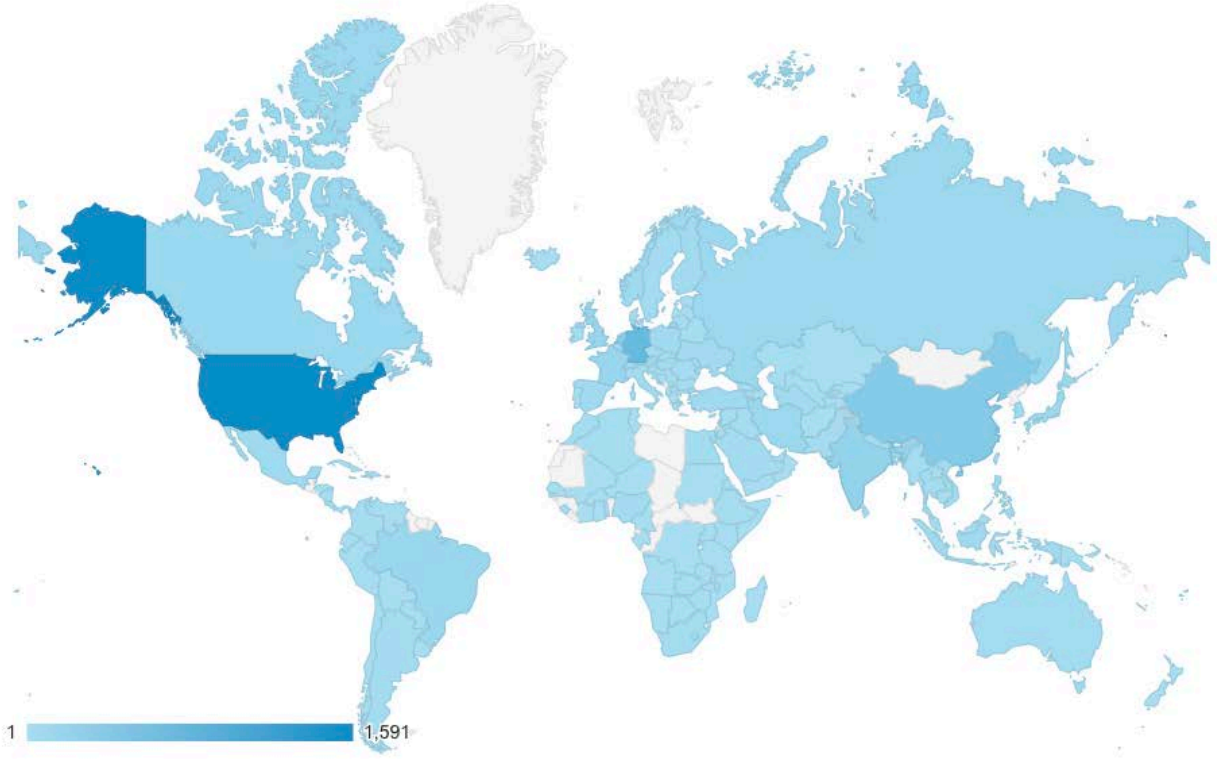
4 - Download method

syngenta

Event 5307 Maize

Real-time, Event-specific Polymerase Chain Reaction Method

Database - Access Metrics (2022)



1.	United States	**1,396** (25.47%)
2.	Germany	**639** (11.66%)
3.	China	**307** (5.60%)
4.	Netherlands	**266** (4.85%)
5.	India	**164** (2.99%)
6.	Austria	**155** (2.83%)
7.	France	**126** (2.30%)
8.	United Kingdom	**122** (2.23%)
9.	Iran	**104** (1.90%)
10.	Brazil	**98** (1.79%)

Benefits to users

- Enables governments and companies to test commodities and food and feed products without additional legal agreements (unless performing fee-for-service testing)
- Users can be assured they are using up-to-date methods developed and validated by the trait developer
- Questions, inquiries can be sent directly to trait developer
- Database linked to Biosafety Clearing House information on LMOs (Living Modified Organisms)

ADDITIONAL BIOTECH INFORMATION RESOURCES

BiotradeStatus
(http://www.biotradestatus.com/)

CropLife INTERNATIONAL

Market Status

Type of Authorization

Crop

Product

This database only maintains information about the commercial status of agricultural biotechnology seeds from CropLife International member companies and may not be reflective of other companies that are selling or commercializing these products.

Select the Market Status:

- [x] Commodity Cultivation
- [x] Non Commodity Cultivation
- [x] Closed Loop Cultivation
- [x] Last Seed Sales
- [x] Import
- [x] Not Commercialized

Select the Authorized For Option:

- [x] Environmental/Cultivation
- [x] Environmental/Import
- [x] Food
- [x] Feed
- [x] Refer to Individual Event Status
- [x] Safety Certificate
- [x] No Longer Authorized

Select Crop:

- [ ] All Commodities
- [x] Corn

Select Company:

- [ ] All Companies
- [x] Syngenta

Company

Select by:

Event Name | OECD Unique Identifier(s) | Product

- [ ] 3272 X Bt11 X MIR604 X TC1507 X 5307 X GA21*
- [x] 5307
- [ ] Bt11
- [ ] Bt11 X DAS-59122-7 X MIR604 X TC1507 X GA21*
- [ ] Bt11 X GA21*
- [ ] Bt11 X MIR162 X GA21*

* Indicates Combined Event Product

Select Country:

- [x] All Countries
- [ ] Argentina
- [ ] Australia/New Zealand
- [ ] Brazil
- [ ] Canada
- [ ] China
- [ ] Colombia

Country

Select by Last Updated Date:

(•) All Dates -OR- ( ) Specific Dates: 02/28/2011 to 02/28/2023

Search | Reset Fields

BiotradeStatus

Total Results Returned: 52

(1 2) » Last Page (View All Results)

Group Results: ◉ Country ○ Product ○ Event ○ Market Status ○ Authorized For

Display: ☑ Product Name ☑ Event Name ☐ OECD Unique Identifier

Sorting options

Modify Search | Perform New Search

ARGENTINA

Company	Product	Event	Crop	Market Status	Authorized For	Updated
Syngenta	Agrisure Duracade™ E-Z Refuge™ 5222	Bt11 X MIR162 X MIR604 X TC1507 X 5307 X GA21	Corn	Not Commercialized	Environmental/Cultivation, Food, Feed	05/05/2022
Syngenta	Agrisure Duracade	5307	Corn	Not Commercialized as a Single Event	Environmental/Cultivation, Food, Feed	02/20/2020

AUSTRALIA/NEW ZEALAND

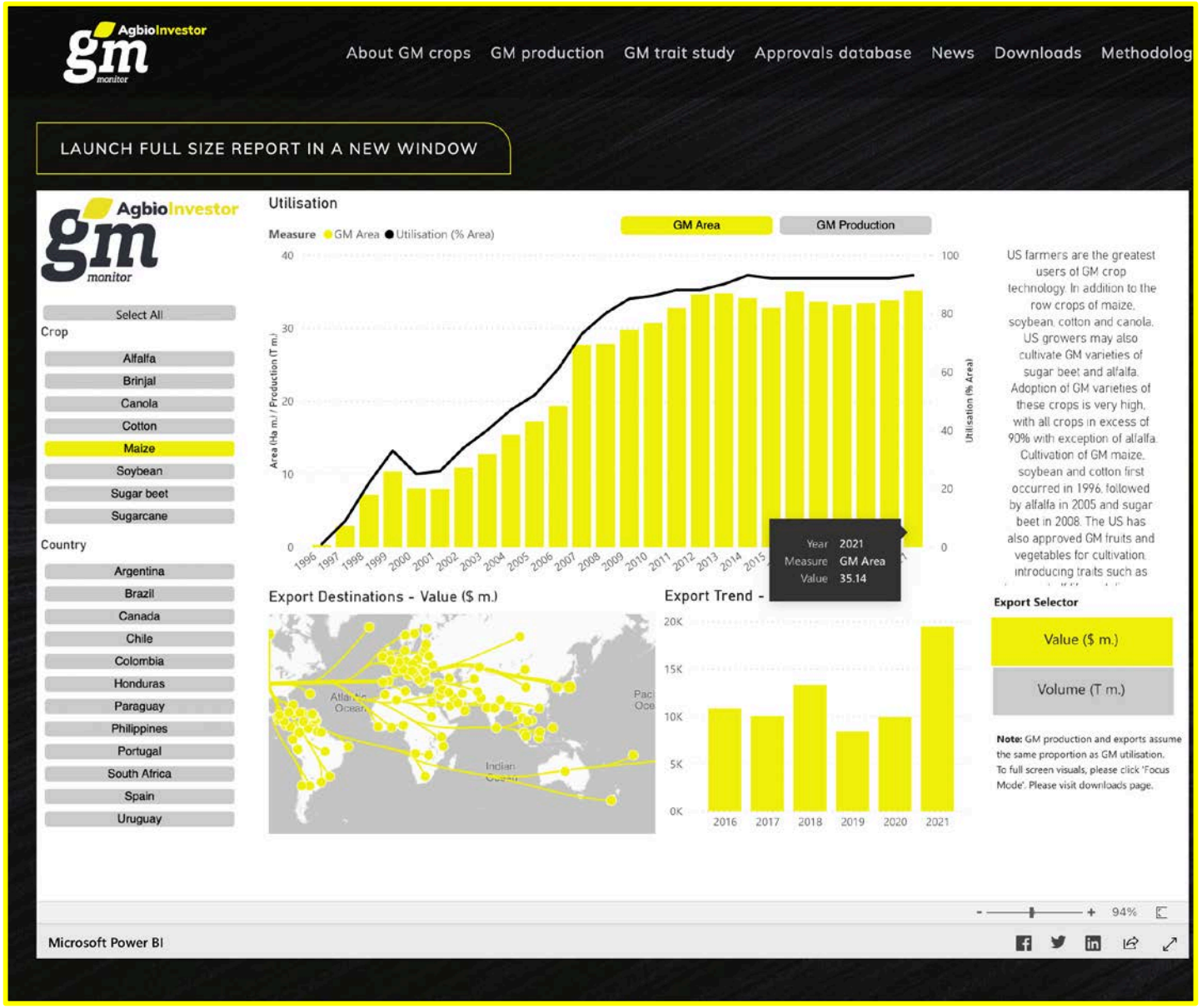
Company	Product	Event	Crop	Market Status	Authorized For	Updated
Syngenta	Agrisure Duracade™ E-Z Refuge™ 5122	Bt11 X MIR604 X TC1507 X 5307 X GA21	Corn	Import	Refer to Individual Event Status	05/08/2020
Syngenta	Agrisure Duracade™ E-Z Refuge™ 5222	Bt11 X MIR162 X MIR604 X TC1507 X 5307 X GA21	Corn	Import	Refer to Individual Event Status	05/08/2020
Syngenta	Agrisure Duracade 5332	Bt11 X MIR162 X MIR604 X MON 89034 X 5307 X GA21	Corn	Not Commercialized	Refer to Individual Event Status	05/08/2020
Syngenta	Agrisure Duracade	5307	Corn	Not Commercialized as a Single Event	Food	02/20/2020

BRAZIL

Company	Product	Event	Crop	Market Status	Authorized For	Updated
Syngenta	Agrisure Duracade™ E-Z Refuge™ 5222	Bt11 X MIR162 X MIR604 X TC1507 X 5307 X GA21	Corn	Not Commercialized	Environmental/Cultivation, Food, Feed	05/08/2020
Syngenta	Agrisure Duracade	5307	Corn	Not Commercialized as a Single Event	Environmental/Cultivation, Food, Feed	02/20/2020

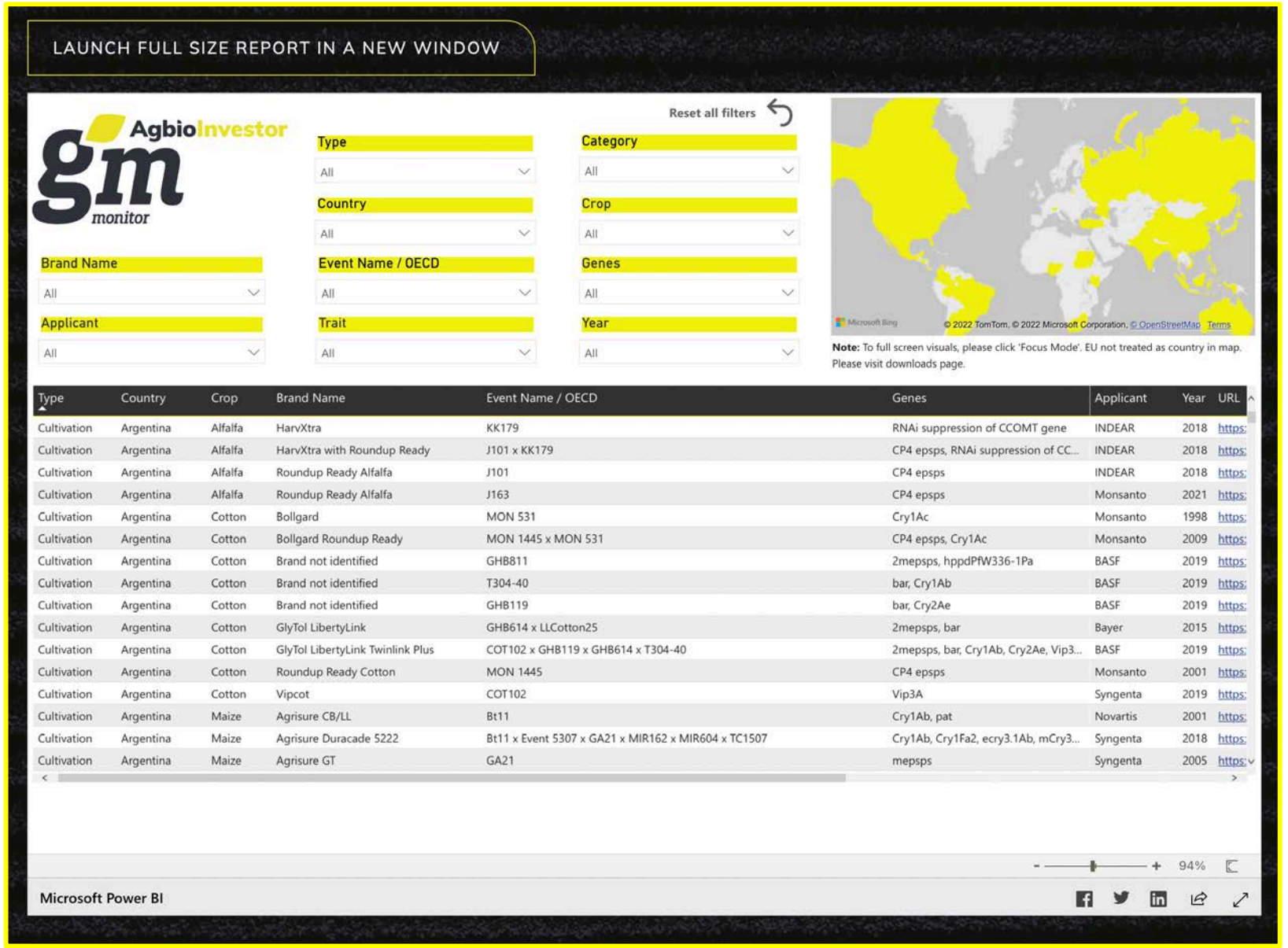
AgbioInvestor – GM Monitor

- GM production acreage and export information
- Interactive graphics unveil additional information
- Downloadable data



AgbioInvestor – GM Monitor

- Approvals Database
- Visual/Interactive map to access country information
- URL to regulatory agency website



Wrap-up

- Provision of standardized validated detection methods is needed to enforce biosafety regulations, and support global trade, product traceability and stewardship
- Methods developed and validated by members are made available through the Detection Methods Database
- The database provides easy access to methods without specific license agreements
- Products linked to sources for CRMs and protein detection kits
- Member companies manage, update and maintain a database
- Questions can be directly addressed to product developers
- Publication of taxon-specific methods coming soon
- Additional information through CropLife International include “BiotradeStatus” and “AgbioInvestor-GM Monitor” databases.

Thank You!