Excellence Through Stewardship®
Advancing Best Practices in Agricultural Biotechnology

Excellence Through Stewardship
The agricultural biotechnology industry is highly committed to the responsible management of its products and continues to invest in stewardship practices and quality management systems. Excellence in stewardship is the key to maintaining the freedom to operate across the value chain.
Stewardship is a life cycle approach to product management. It is the responsible way to manage biotechnology-derived plant products from their discovery and development, to their use and eventual discontinuation.

Quality Management comprises the systems and processes to establish stewardship and maintain quality in each phase of this life cycle.
Excellence Through Stewardship

Components

1. Member commits **principles and best management practices** for the responsible global management (handling, governance, oversight, etc.) of biotechnology derived plant products

2. ETS develops **high quality technical resources, guides & trainings** to help implement related stewardship and quality management systems (QMS)

3. A 3rd party independent auditor conducts **Global Stewardship Audit** to verify that members have developed and implemented appropriate stewardship programs and quality management systems

How to we accomplish our objectives?
Principles and Management Practices

Examine and analyze all biotech operations

Identify potential challenges to maintaining product integrity and quality

Implement stewardship programs and quality management systems to meet those challenges

Document that stewardship programs and quality management systems are in place

Audit stewardship programs and quality management systems to verify that they meet ETS goals

Include stewardship and quality management requirements, standards, or specifications in contracts and agreements.

Flexible program structure works with any size, scope and location of operations.
Guides, Training and Technical Resources

- ETS Guides
  - Stewardship of Biotechnology-Derived Plant Products
  - Maintaining Plant Product Integrity
  - Resistance Management
  - Product Launch Stewardship
  - Product Discontinuation
  - Incident-Response Management

- Implementation Path
- Audit Guide
- Forms
- Checklists
- Webinars
- Multimedia
- Self Assessment Tools
- Ask-an-expert
- Case Studies
3rd Party Audit Process

- Verifies appropriate stewardship and quality management systems are in place.
- Uses Trained and Qualified Independent 3rd party Auditors who examine objective evidence for the ETS components according to a defined criteria.
- Audits are conducted at a systems level on operations from discovery through to discontinuation (as applicable). These are representative, ongoing and build over time.
- ETS training tools and technical resources assist members with preparation of the audit program steps diagrammed above.
3rd Party Audit Program

**Auditable Components**
- General Product Stewardship
- Incident Response Management
- Maintaining Plant Product Integrity
- Product Launch Stewardship
- Product Discontinuation
- Resistance Management (Pest / Weed)

**Auditable Operations**
- Headquarters
- Laboratory
- Containment Facility (i.e., greenhouse / growth chambers)
- Plant and Seed Multiplication / Production
- Confined Field Trial
- Commercial Plant and Seed Distribution
ETS members have operations across the product life cycle from the laboratory through commercial seed production. They are also engaged in activities across a wide range of products from corn and soybeans to trees and potatoes.
ETS Regular Members

3rd Millennium Genetics
African Agricultural Technology Foundation
AgReliant Genetics
Agritech Rural
BASF Plant Science
Bayer CropScience, LP
Beijing Origin State Harvest Biotechnology Limited
BioAgiltyx Labs
Cargill
CIAT (International Center for Tropical Agriculture)
CIMMYT (International Maize and Wheat Improvement Center)
Curimapu
DBN (Beijing Dabeinong Technology Group Co., Ltd.)
Dow AgroSciences LLC
DuPont
Forage Genetics International

Genective
INDEAR (Instituto de Agrobiotecnologia Rosario S. A.)
KWS
Limagrain
Mahyco (Maharashtra Hybrid Seeds Co. Ltd.)
Monsanto Company
Pannar Seed
Pinto Piga Seeds
R&D Research Farm
S & W Seed Company
Semillas del Sur
Semillas Tuniche
Simplot Plant Sciences
Sinobioway
Sociedad Exportadora Importadora Hortisem LTDA.
Syngenta

As of 6/14/2016 – Refer to www.ExcellenceThroughStewardship.org for the most up-to-date list of members.
ETS Associate Members
ETS and Biotechnology Plant Product Stewardship

- Highlights industry commitment to responsibly manage products proactively to regulators, stakeholders and the public
- Provides industry developed and proven best management practices
- Promotes global adoption of basic set of stewardship and quality management practices
- Advances the collective industry’s stewardship performance
- Demonstrates integrity and credibility of industry best management practices with independent verification
- Contributes to the enhanced benefits, availability and marketability of products
- Offers a unique forum for dialogue with regulators, governments and other stakeholders
- Expands the industry’s freedom to operate
Benefits of ETS Membership

ETS Program Participants receive...

- Access to technical resources & tools to help members meet stewardship objectives relevant to activities
- Implementation assistance/guidance, ask-an-expert & mentoring
- Public recognition of membership and audit completion
- Participation in the ETS organization
- ETS member news which keeps members up-to-date on industry developments
- Promote a stewardship culture across organization
Benefits of ETS Implementation

Implementation of ETS can result in...

- Independent 3rd party verification of stewardship program
- A strengthened quality management systems (QMS) to achieve and maintain plant product integrity
- A consistent operational discipline
- Anticipation of regulations and lower cost of compliance
- Reduction in potential liability
- Enhancement of relationships with customers, government authorities, and the public
- Increased potential opportunities for industry partnerships and agreements
THANK YOU!

www.ETS.bio