7th Seed Congress of the Americas

Promoting Seed Business in the Americas

September 9 - 11, 2019
Buenos Aires, Argentina

Seed Applied Technologies

Regional & global context: threats & opportunities

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SAA
Seed Association of the Americas

CORTEVA™
agriscience

Our Purpose

To enrich the lives of those who produce and those who consume, ensuring progress for generations to come

Seed Applied Technology – Overview

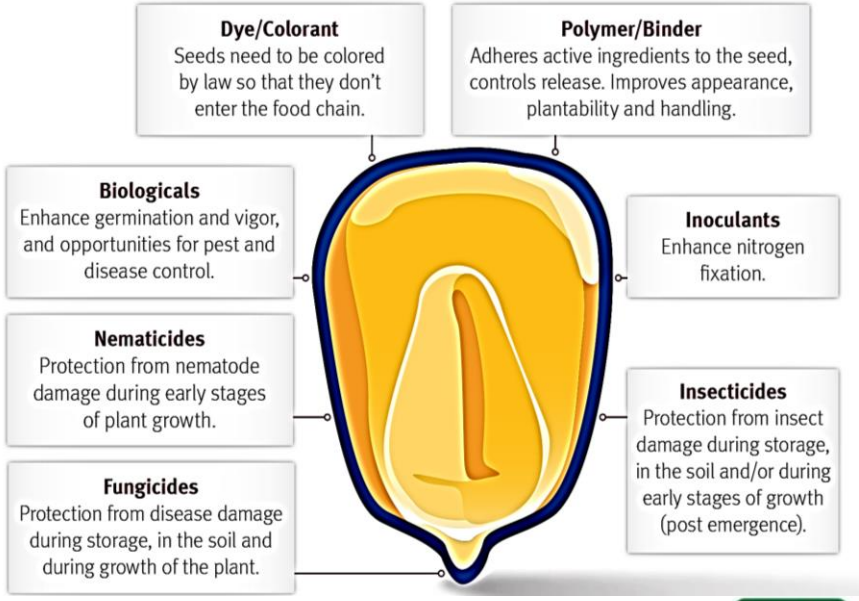
Definition: Seed treatments are the biological, physical and chemical agents and techniques applied to seed to provide protection and improve the establishment of healthy crops.

Grower Benefits

- Protection of seed investment
- Enables earlier planting
- Stand establishment and vigor/yield
- Early season disease and insect protection

Health & Environment Benefits

- Reduces need to handle chemistries directly
- Reduced rates of active ingredients
- Potential for less foliar sprays



Seed Treatment: How the market & customer perceptions are evolving

FROM

- Protecting the seed & seedling
- A ‘cost’
- Chemicals ‘placed on the seed’
- ‘Insurance’ / Defensive protection
- ‘One size fits all’ blanket application

VALUE DELIVERY

TO

- **Technology** that is an integral to maximizing productivity of the crop
- A **value** creation investment - A key component of yield potential.
- **Integrated products going on the seed**
- Investment / **offensive** opportunity
- **A key factor in crop & grower success**

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Delivering products with confidence: Centers for Seed Applied Technology (CSAT)

- Recipe development
- Biological compatibility
- Seed flow and plantability
- Dust-off and abrasion testing
- Storage-time germination
- Environmentally controlled chamber
- Pre-commercial scale up

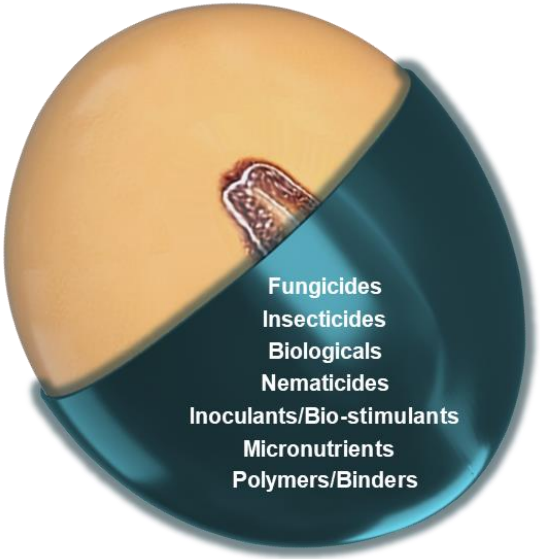
Bringing capabilities together to exceed customer expectations





Corteva Agriscience CSAT
Current: Johnston, Iowa (left) | Formosa, Brazil (right)
Coming soon: Aussonne, France | TBD Asia Pacific

Seed Applied Technologies



Challenges

- ✓ Market requires chemicals – environmentally friendly
- ✓ Chemicals being challenged
  - ✓ Neonics, Fipronil, Thiram and Carbendazin
- ✓ Application – # products applied to the seeds
- ✓ Growers education: safe use

Opportunities

- ✓ Integration with other Technologies
  - ✓ Genetics / traits / digital
- ✓ Increase professional SAT in Latin America
- ✓ Improve treatment quality – training
- ✓ Plant health boosters
- ✓ Services

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Thank you

Any questions?