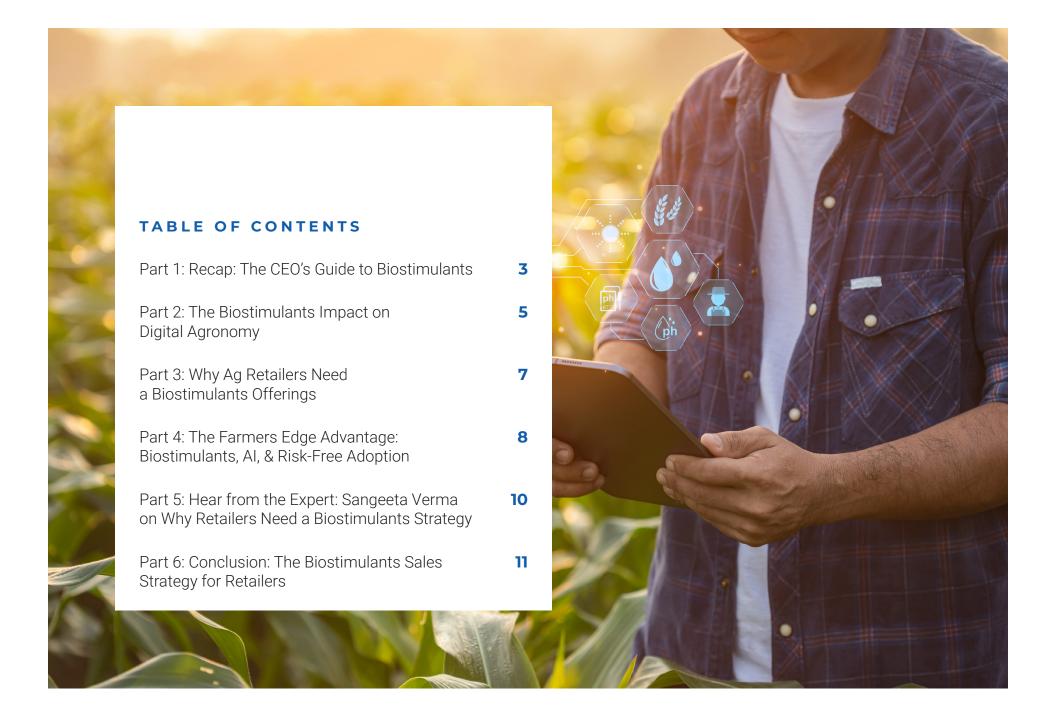




How Retailers Can Use Data-Driven Biostimulants to Increase Margins & Defend Market Share





### **Recap: The CEO's Guide to Biostimulants**

#### The Biostimulants Market is No Longer a Niche – It's the Next Input Shift

The CEO's Guide to Biostimulants established that biostimulants are moving from uncertainty to precision, from a promise to an expectation. The key drivers behind this shift:

# Biostimulants are now an extension of agronomy, not an *alternative*

- Al-driven screening has cut R&D timelines from 10 years to 3-5 years, increasing the number of validated, high-performance products.
- Biostimulants are being integrated into precision ag platforms, aligning them with existing fertility, crop protection, and input strategies rather than competing with them.

# Al is making biostimulants predictable and scalable

- Biomarker tracking is eliminating the broad, unverified plant health claims that once defined biostimulants, replacing them with measurable, targeted agronomic solutions.
- Al is optimizing where, when, and how biostimulants are applied, ensuring they are used in highvalue situations that deliver ROI.

# Biostimulants are following the same adoption curve as *synthetic inputs*

- Al-powered rebate & bundling programs are helping biostimulants reach critical mass in the input stack, much like how precision fertilizer and crop protection programs evolved.
- Retailers who embed biostimulants into their agronomic programs now will control the market before it commoditizes.







# Why This Matters for Ag Retailers

Growth alone won't determine winners—the key question is: Who can sell biostimulants profitably, at scale, with verifiable ROI?

Retailers must shift from selling biostimulants as an input to selling biological-backed agronomy. The winners will be those who can:



Track & verify biological performance using precision data



Bundle biostimulants into larger input programs to drive repeat purchases



De-risk adoption through warranties, rebates, and digital monitoring



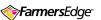


## The Biostimulants Impact on Digital Agronomy

Biostimulants Solve Key Retailer Problems – But Only If Sold with Data & Al

Despite rapid growth, biological adoption among retailers remains uneven. Here's why:

Retailer Challenge	Why It's a Probem	What's Needed
Trust Gap	41% of ag retailers say farmers don't trust biostimulants due to lack of verifiable field performance.	Al-powered agronomic tracking & third-party validation
No Clear ROI	20% of farmers say biostimulants are too expensive and are skeptical of impact on yield.	Performance-based warranties & rebate structures
Difficult Positioning	Biostimulants don't fit neatly into the traditional input stack	Digital agronomy integration— pairing biostimulants with crop protection & fertility strategies
Lack of Sales Data	Sales teams don't have clear agronomic recommendations for biostimulants	Al-driven placement models based on field conditions & input timing



# How Biostimulants Fit into the Digital Agronomy Ecosystem

Biostimulants cannot be sold as standalone products, they need to be embedded into real-time agronomic intelligence to drive adoption and profitability.



**Soil Health Sensors & Al Models**: Track microbial activity, pH, and nitrogen cycling to determine where biostimulants will be most effective



#### Remote Sensing & Yield Monitoring:

Measure real-world crop response, ensuring biostimulants deliver measurable agronomic ROI



**Warranty-Backed Sales**: Offer data-backed guarantees, if a biological product doesn't meet performance benchmarks, retailers can offer automatic rebate activation



Retailers who integrate biostimulants into their precision agronomy stack will win the long-term margin expansion.



### Why Ag Retailers Need a Biostimulants Offering

#### **Biostimulants Are Not Optional – They Are a Competitive Differentiator**

Retailers face four major structural pressures that biostimulants can help solve:

Challenges	Solutions	
Margin Compression on Traditional Inputs	<ul> <li>Synthetic fertilizer &amp; crop protection margins are tightening due to increased competition, regulatory pressure, and price transparency.</li> </ul>	
Demand for Sustainability	<ul> <li>Scope 3 supply chain pressure is forcing major agribusinesses to prove sustainability reductions at the field level.</li> </ul>	
Demand for Sustainability- Linked Inputs	<ul> <li>Biostimulants lower nitrogen reliance, reduce carbon intensity, and improve regenerative farming metrics—making them critical for sustainability-driven purchasing decisions.</li> </ul>	
Shift from Selling Inputs to Selling Agronomic ROI	<ul> <li>Retailers must sell solutions, not just products. Al-driven digital agronomy models are determining input decisions based on ROI optimization.</li> </ul>	
Selling Agronoline Kor	• Biostimulants must be positioned within total crop input plans, not as an add-on.	
Retailers Need a Digital-First	Retailers who use digital tracking, AI recommendations, and real-time biological verification will build customer stickiness and command pricing power.	
Differentiation Strategy	<ul> <li>Without a biostimulants + digital agronomy integration, retailers risk losing control of the category to data-driven competitors.</li> </ul>	

Ag retailers who build biostimulants into a digitally-verified, agronomy-first offering will create a defensible, high-margin position before the category commoditizes



# The Farmers Edge Advantage: Biostimulants, AI, & Risk-Free Adoption

**How Farmers Edge Helps Retailers Scale Biostimulants Profitably** 

Farmers Edge eliminates the three biggest barriers to biostimulants adoption—trust, tracking, and ROI verification—by offering:

#### White-labeled FarmCommand platform

Track biological performance under different agronomic conditions, aligning them with existing fertility, crop protection, and input strategies rather than competing with them

Al-powered biological product recommendations

Optimize biological application based on real-time field conditions

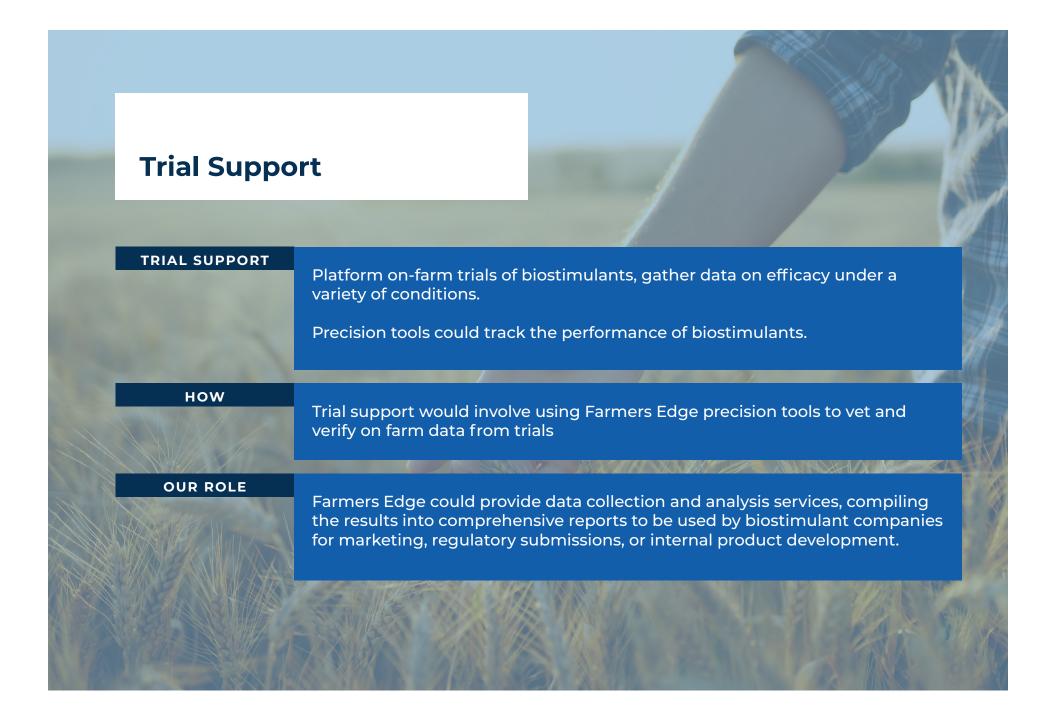
#### **Automated performance-backed warranties**

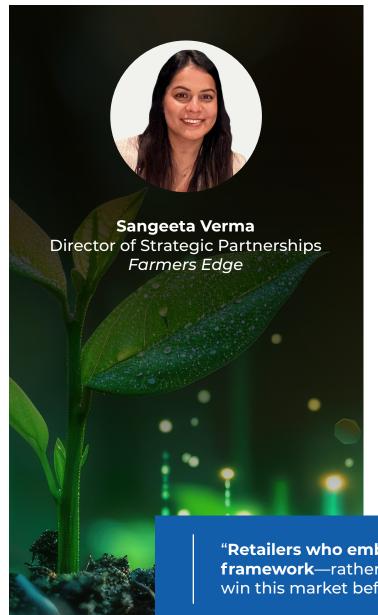
If a biological doesn't meet its performance benchmark, Farmers Edge technology verifies claims & triggers payouts Carbon Intensity scoring & sustainability tracking

Quantifies GHG reduction benefits, enabling premium pricing & sustainability-linked input programs

Retailers who partner with Farmers Edge gain a turnkey biostimulants strategy—AI-powered recommendations, field tracking, and risk-free adoption models







## Hear from the Expert: Sangeeta Verma on Why Retailers Need a Biostimulants Strategy

Biostimulants Are the Missing Profit Driver in Retail—If Sold Correctly

Sangeeta Verma, Director of Strategic Partnerships at Farmers Edge, has spent over a decade developing revenue growth strategies in agribusiness, supply chain, and e-commerce. Here's her perspective on why ag retailers must act now to integrate biostimulants and biologicals into their core sales model:

"Rather than treating biostimulants as an add-on input alongside synthetic chemicals, retailers need to recognize that this category works differently. Biostimulants succeed when they are tracked, verified, and bundled into a retailer's precision agronomy offering.

Right now, too many retailers struggle to answer a simple question: 'Why should a farmer trust this biostimulant over another—or choose it over synthetic alternatives?' The answer lies in data-backed recommendations, Al-driven placement models, and performance warranties that reduce risk for farmers while simplifying their decision-making."

"Retailers who embed biologicals into a precision agronomy framework—rather than selling them as standalone products—will win this market before it becomes commoditized."





# Conclusion: The Biostimulants Sales Strategy for Retailers

Winning in Biostimulants Requires a Digital-First, Agronomy-Integrated Approach



Retailers must move beyond selling biostimulants as a product—they must sell biological-backed agronomy.



The retailers who integrate AI, digital tracking, and warranty-backed sales will dominate the biostimulants market before it commoditizes.



Farmers Edge provides the infrastructure, verification tools, and digital intelligence to make biostimulants a scalable, profitable category.

Get in touch with Farmers Edge today to transform your biostimulants sales strategy.





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