

## Market Solutions, Challenges, Gaps and Opportunities

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## **Executive Summary**

Crop insurance is at a turning point. The industry, **valued at \$42.74 billion in 2023**, is projected to nearly double by 2032, **reaching \$85.3 billion**. Growth is being driven by the urgent need for better risk management, cost control, and streamlined claims processing.

Technology is the key enabler. Al-driven analytics, satellite imagery, and automation are revolutionizing underwriting, claims, and risk assessment—delivering faster, more scalable, and more transparent insurance products. Insurers who fail to embrace digital transformation risk falling behind.

### **Key Takeaways**

- The \$85B Market Shift
   What's leading the transformation
- From Delays to Payouts

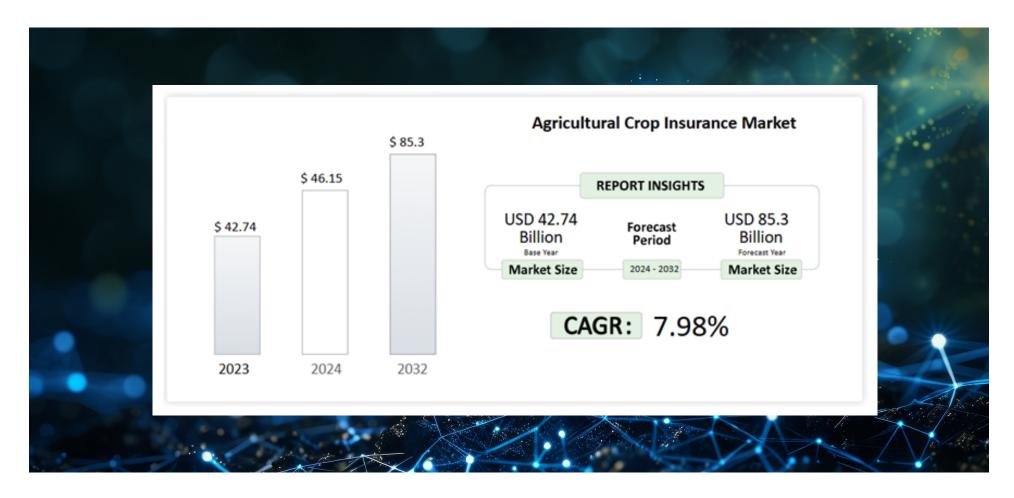
  How tech is reshaping claims experience
- Turning Risk into Opportunity
   Strategies for growth and scalability



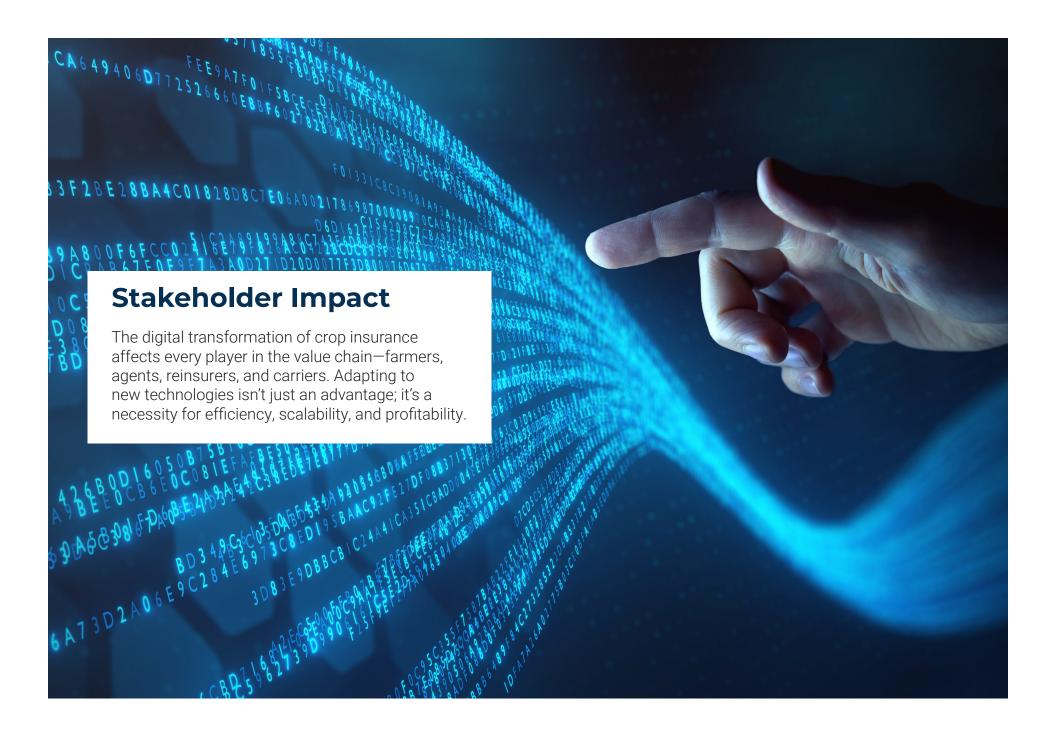


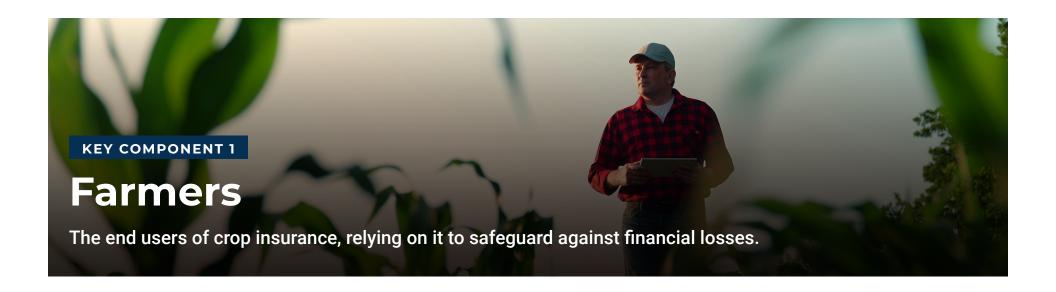
## **Macro Landscape**

The value of the global crop insurance market is projected to reach \$85.3 billion by 2032, growing at a CAGR of 7.98%.









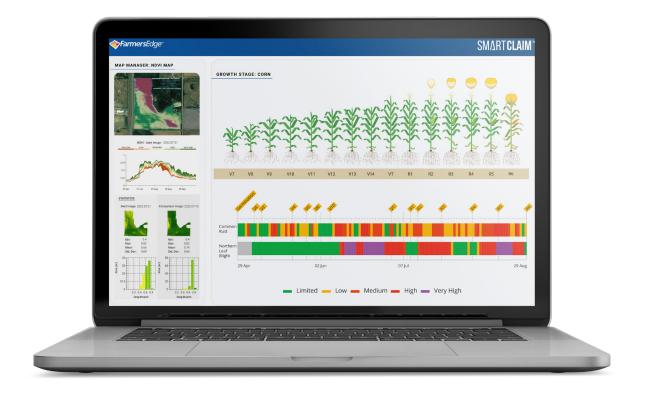
Challenges	Market Solutions		
<b>Delayed Claims and Disputes</b> – Manual assessments and slow payouts leading to poor experience.	<b>Training Claims Adjusters</b> – Employee training and improving adjuster guidelines.		
<b>Transparency</b> – Limited visibility into claim evaluations and payouts.	Claims Status Updates – Real-time tracking and transparent claim evaluations.		
Administrative Burden – Complex reporting distracts from operations	<b>Emphasis on Precision Ag Reporting</b> – Gathering precision ag data on the farm level.		

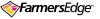


- 1. Predictive analytics pre-fill reports, saving time and improving accuracy.
- 2. Data-driven customer experience Real-time data for context and increased transparency to loss assessments.

#### Forensic Field Data Report

- Attached to any claims file to provide relevant crop performance and weather insights.
- Includes analytics including: Growth Stage, Crop health change, damage severity & Pest/ disease prediction.
- Provide confidence to the grower/producer on the loss assessment.







Challenges	Market Solutions		
Manual Workflows & Siloed Data – Slow, manual processes and fragmented data impact efficiency.	<b>Agent Management Systems</b> – Consolidate data and simplify workflows.		
<b>Limited Tools for Client Management</b> – Inefficient systems make policy tracking and updating difficult.	Ag Data Portal – Carrier-provided tools enhance policy accuracy and efficiency.		
Managing true risk – Growing complexity of client portfolios limit engagement time.	Al-Powered Sales Tools – Ensure adherence to crop handbooks and regulatory requirements.		

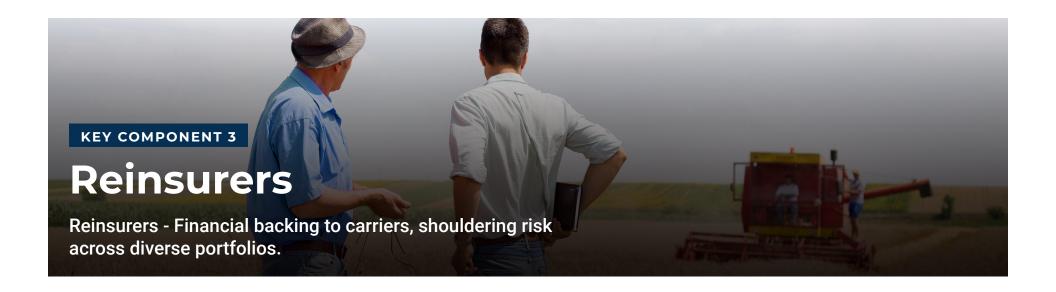


- 1. A one-to many platform connector that integrates with an agency's management system to reduce complexity, consolidate customer data, and save time.
- 2. In-season monitoring and analytics to optimize customer outreach and improve portfolio performance.



Farmers Edge can custom develop intercommunication data framework between the parties.





Challenges	Market Solutions		
<b>High Costs Managing Diverse Risk Portfolios</b> – Balancing exposure across regions is expensive.	<b>Al-Driven Risk Scoring Models</b> – Predict and manage exposure across diverse portfolios.		
<b>Limited Real-Time Risk Assessment</b> – Delayed insights hinder proactive risk mitigation.	<b>Real-Time Portfolio Analytics</b> – Enable dynamic risk assessment and decision-making.		
<b>Expanding Market Access</b> – Currently stuck in status-quo risk analysis.	Parametric insurance – Highly simplistic offerings that haven't seen market uptake.		

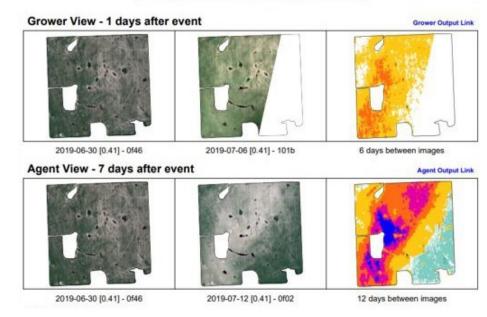
- 1. Reinsurers primary leverage over carrier performance is setting the cost of purchasing reinsurance. This leaves limited options for working with carrier partners to improve performance. By collaborating with technology partners who can work alongside the carriers, reinsurers can provide proactive solutions to help optimize their portfolio.
- 2. With interest in parametric insurance solutions on the rise, real-time field-level data capture mechanisms are needed to help validate the performance of those products and the overall portfolio and enable capacity in regions and crops that currently are left exposed.

#### **SWITCH Model**

(Severe Weather Induced Trend of Crop Health)

- Macro shift is to a more precise hybrid model that includes validation.
- SWITCH model provides spatial quantitative analysis to quantify weather-related crop damage.
- Data-driven approach reduces uncertainty, accelerates claims validation, and improves capital allocation.

Color	Change Description	Grower View Area (ac)	Adjuster View Area (ac)
	Severe	0	30
	Large	0	104
	Moderate	52.9	153.4
	Minor	261.9	159.4
	No Change	81.8	16.9
	Growth	0.9	118.3







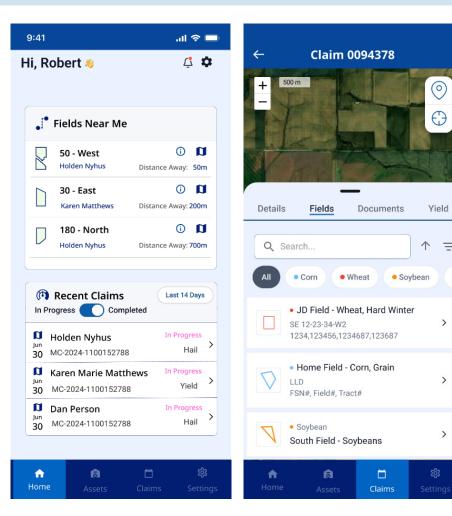
Challenges	Market Solutions		
Rising Tech Costs & Legacy Systems – Maintaining outdated infrastructure is expensive and inefficient.	Staffing Up Internal Resources – Applying human/labor solutions to technology focused problems.		
<b>Inconsistent Decision-Making</b> – Variability in underwriting and claims processing affects profitability.	Fragmented and Insufficient Analytics – In house and external data and analytics for insight generation.		
<b>Talent &amp; Training Gaps</b> – Upskilling new employees in specialized agri-insurance is slow and costly.	Apprenticeships and Junior Staff Training – Information sharing within the company to facilitate transfer of knowledge.		



- 1. Managed Technology Services With a lack of specific solutions in the market, many carriers have taken it upon themselves to build and customize their technology stack internally. Parntering with experience technology providers, carriers can reduce technology 30-50%.
- 2. Travel spend for claims adjustments continues to be one of the largest expenses for carriers. Digital platforms and analytics for optimal adjuster routing and in-field data capture can reduce costs by 25%-30%.

#### **Mobile Adjusting Application**

- Integrates directly with claims management platforms eliminating repetitive data entry
- Includes geospatial location recording technology and field specific agronomic crop data.
- Assessment forms and documents can be uploaded and viewed from anywhere.





Reduction in manual processing by

50%

Technology development cost savings of

30%

Accelerated loss detection by up to

3 months

## The Future of Crop Insurance

#### Why Act Now?

The market is shifting. Insurers and reinsurers who invest in technology today will define the future of crop insurance tomorrow. Data-driven underwriting, automated claims, and Al-powered analytics are no longer optional—they're necessary for competitive advantage.

# Farmers Edge: Your Digital Insurance Partner

Farmers Edge is the best digital builder in agriculture. For over 20 years, the Company has been at the forefront of ag technology.

Let's talk about how we can help your business navigate this shift.

Contact us: Partners@FarmersEdge.ca

Learn more: FarmersEdge.ca





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