

WHITE TUQUE

# Securing North American Agritech

Operational resilience, regulatory alignment, and intellectual property protection for modern agricultural operations.



## **Threat Landscape & Capability Overview**

Prepared for Industry Partners and Operators

White Tuque Intelligence-Driven Security

# Where Attackers Target Agricultural Operations

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Modern agritech runs on interconnected ecosystems that did not exist a decade ago. While automated systems optimize yields and stabilize supply chains, they also introduce a complex corporate attack surface. Understanding where threat actors direct their focus is the first step toward building meaningful operational resilience.

## **Operational Technology (OT) & IoT Systems**

Climate automation, precision irrigation loops, and specialized field sensors were heavily deployed before cybersecurity became an engineering standard. Many of these environments run on legacy firmware, lack systematic patch protocols, and sit flatly on the primary business network. This architectural overlap provides attackers with a direct pivot point from a simple phishing email straight into core cultivation lines.

## **Supply Chain & Third-Party Ecosystems**

Modern agribusiness depends on a matrix of vendors, dedicated logistics networks, equipment OEMs, and specialized SaaS tools. Every external integration expands the perimeter. Because the industry operates on just-in-time delivery models, a disruption at a single third-party node rapidly cascades across the entire cultivation, harvesting, and distribution process.

## **Ransomware Exploiting Operational Downtime**

Unlike standard enterprise software, biological processes cannot be paused for a system reboot. Threat actors understand that a cultivation facility, a processing plant, or a perishable distribution hub has absolute zero tolerance for downtime. Ransomware groups specifically exploit these critical time windows to apply immediate financial pressure and accelerate payment demands.

## **Regulatory, Compliance & Licensing Exposure**

The regulatory environment is tightening rapidly. Federally licensed producers in Canada navigate strict Health Canada reporting windows, while food processors answer to the CFIA and provincial mandates. Concurrently, U.S. operations face evolving CISA directives and the Farm and Food Cybersecurity Act. A cyber incident that compromises inventory tracking or compliance reporting does not just leak data; it risks immediate regulatory suspension or loss of license.

# Securing the Full Spectrum of Agritech

We provide comprehensive cyber defense across four core areas of North American agriculture:

## Cultivation & Growing Operations

Protecting greenhouses, indoor vertical farms, and outdoor operations. We secure the environmental variables and automated infrastructure that keep specialty crops and licensed production facilities viable.

## Food Processing & Manufacturing

Securing midstream facilities, extraction assets, and high-throughput packaging plants. Our focus centers on maintaining production line availability and protecting absolute uptime where windows are tight.

## Supply Chain & Distribution

Defending agri-food logistics networks, cold chain integrity, and digital traceability systems where a localized breach can ripple across multi-party commercial networks.

## Research & Development

Safeguarding intellectual property for seed genetics developers, precision ag software firms, and biopharma-adjacent entities with high-value proprietary assets.

# Intelligence-Driven Operational Security

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Security programs fail when they are built in a silo. We align our services directly with your people, operational workflows, and existing technology stack to build robust defenses that actually support daily agricultural operations.

## Cyber Ready Plan

We audit and evaluate your existing infrastructure against the clear practical threats facing agritech. Rather than delivering a generic checklist, we provide an actionable, prioritized business roadmap aimed specifically at mitigating the vulnerabilities that hold the highest real-world financial risk.

## Vulnerability Management

Continuous visibility across your hybrid environment—from back-office corporate endpoints to IP-connected field sensors. Driven by real-time threat intelligence, we identify, triage, and guide remediation efforts for flaws that attackers are actively exploiting in the wild.

## Penetration Testing

Controlled, rigorous attack simulations designed to pressure-test your real production networks, OT setups, and cloud frameworks. You receive precise, field-tested guidance showing exactly how an attacker could breach your defenses, and practical steps to ensure they cannot.

## CISO on Demand

Fractional cybersecurity leadership tailored directly for small-to-midsize operations. We build customized incident response strategies, integrate regulatory compliance notifications, and establish clear playbooks to manage and survive sudden vendor or supply chain disruptions.

## A Different Kind of Cyber Partner

We do not just hand over automated compliance reports. White Tuque operates as an extension of your team, providing seasoned tactical direction and elite, battle-tested defense mechanisms.

### Crisis-Proven Under Pressure

Our team brings over 3,200 hours of direct leadership in critical cyber incident recovery and has managed more than 650 complex incidents across highly regulated global environments. We have guided organizations through their worst operational days and built the reliable architectures that brought them back online safely.

## **Intelligence-Led Frameworks**

Passable audit checklists are a natural side effect of a resilient security posture, but they are not the primary goal. We construct protection frameworks based explicitly on active threat intelligence and deep technical knowledge of how current adversary groups conduct corporate campaigns.

## **Boutique Engagement, Enterprise Capability**

When you partner with White Tuque, you collaborate directly with senior cybersecurity veterans. We eliminate layers of account management, junior staff hand-offs, and generic corporate templates. You gain agile, institutional-grade engineering capability matched with direct, unhindered access to leadership.