



CERTISTRIKE

CertiStrike Whitepaper

Real-Time Hail Detection. Decentralized. Verified.

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Abstract

CertiStrike is building the first decentralized, real-time hail detection network powered by DePIN (Decentralized Physical Infrastructure Networks). By enabling individuals and businesses to deploy weather sensors, CertiStrike generates hyperlocal, verifiable hail impact data used by industries such as construction, insurance, emergency services, agriculture, and energy.

Through a dual-token model combining base emissions and revenue-linked rewards, CertiStrike creates a new data economy—one where homeowners and contributors can monetize their environmental insights while protecting their own assets.

This whitepaper outlines the technical architecture, economic design, use cases, governance model, and long-term vision of the CertiStrike Network.

Disclaimer:

This whitepaper is a living document and is subject to change as the CertiStrike project evolves. The information contained herein reflects the current plans, goals, and technical designs of the CertiStrike Foundation, but does not represent a binding commitment. Future updates may revise or expand upon the concepts, timelines, and mechanisms described.

Table of Contents

- 1. Executive Summary**
- 2. Introduction**
 - 2.1 The Impact of Hail Events**
 - 2.2 Limitations of Current Systems**
- 3. The CertiStrike Vision**
 - 3.1 Mission and Goals**
 - 3.2 Why Now? The Role of DePIN**
- 4. System Architecture**
 - 4.1 Sensor Technology Overview**
 - 4.2 Data Collection and Verification**
 - 4.3 Connectivity and Network Standards**
 - 4.4 DePIN Integration and Incentive Layer**
- 5. Market Opportunity**
 - 5.1 Roofing and Construction**
 - 5.2 Agriculture and Solar Operations**
 - 5.3 Emergency Services and Municipal Response**
 - 5.4 Insurance and Risk Modeling**
 - 5.5 Forecasting and Analytics Platforms**
- 6. Tokenomics**
 - 6.1 Token Utility**
 - 6.2 Supply and Distribution**
 - 6.3 Revenue Sharing Model**
 - 6.4 Staking and Deductible Vaults**
- 7. Incentive Design**
 - 7.1 Data Quality and Reward Scaling**
 - 7.2 Role of Location and Event Verification**
 - 7.3 Staking Incentives**
 - 7.4 Anti-Sybil and Abuse Prevention**
- 8. Governance and Community**
 - 8.1 Foundation-Led Governance**
 - 8.2 Community Participation**
 - 8.3 Ecosystem Growth Fund**

9. Roadmap

9.1 2025 Milestones

9.2 2026 Deployment & Expansion

9.3 2027 and Beyond

10. Risks and Considerations

10.1 Technical Risks

10.2 Regulatory and Legal Risks

10.3 Adoption and Market Risk

10.4 Ecosystem and Token Economy Risk

11. Legal and Disclaimers

11.1 No Guarantee of Returns

11.2 Regulatory Compliance

11.3 Token Non-Security Statement

11.4 Forward-Looking Statements

11.5 Risk Acknowledgment

12. Contact and Partnerships

12.1 Partnership Opportunities

12.2 Contact Channels

1. Executive Summary

CertiStrike is building the world's first decentralized hail impact detection network—combining real-time sensor data, cryptographic verification, and tokenized incentives to transform how industries interact with severe weather.

Hail causes over \$15 billion in annual damage across the U.S. alone, yet current detection methods rely heavily on radar estimations and post-event reports. These systems are not only imprecise, but also exclude the people most affected—homeowners and communities—from the value chain their data supports.

CertiStrike changes this dynamic. By deploying scientifically calibrated hail sensors at the edge—on homes, farms, and commercial infrastructure—the network captures accurate, time-stamped data on hail size, force, and location. This data is verified through a decentralized system and made available to industries like:

- Roofing and construction
- Agriculture and solar energy
- Insurance and emergency response
- Weather analytics and forecasting platforms

The network is powered by a DePIN (Decentralized Physical Infrastructure Network) model, where participants earn **STRIKE** tokens for contributing valuable data and maintaining sensor uptime. Revenue from enterprise data buyers is shared with contributors, creating a sustainable, real-world utility loop.

Key features include:

- **Real-time ground-truth data** with street-level resolution
- **Token rewards and revenue-sharing** for network participants
- **Staking into “Deductible Vaults”** to provide a safety net for verified hail losses
- **Foundation-led governance** with community collaboration pathways

CertiStrike represents a new class of Web3 infrastructure—one that bridges physical deployment, economic alignment, and enterprise adoption through a decentralized, trustless protocol. It is not just a network of sensors, but a framework for how real-world data infrastructure can be owned, monetized, and governed by the people who power it.

2. Introduction

2.1 The Impact of Hail Events

Hailstorms are among the most damaging and costly forms of severe weather, causing billions in insured and uninsured losses each year. In the United States alone, hail damage contributes to over \$15 billion in annual insurance claims, primarily affecting residential roofing, vehicles, agriculture, and solar infrastructure. As climate patterns shift, hailstorms are becoming more frequent and more severe—intensifying the need for accurate, timely, and location-specific impact data.

Despite the economic significance of hail events, the systems used to detect and verify hail are outdated. Most hail detection relies on radar-based models and historical reports that offer limited resolution, no confirmation of ground truth, and slow response times. This lack of precision creates inefficiencies, fraud, and delays across insurance, construction, and emergency services.

There is a clear market need for a new standard in hail data—one that is immediate, verifiable, and localized.

2.2 Limitations of Current Systems

Current hail detection technologies fall into two primary categories:

- **Radar-based Estimation Systems:** These systems infer hail size and location using radar reflectivity and environmental modeling. While useful at scale, they lack precision at the property or street level, and they often over- or under-estimate severity.
- **Manual Observation Methods:** Physical hail pads and field reports require manual verification and processing, often delaying insights by hours or days. These methods are labor-intensive and not scalable.

Both approaches share a critical limitation: they are centralized, reactive, and disconnected from the communities most affected.

This gap in real-time, verified hail impact data affects not only claims processing but also proactive response planning, infrastructure protection, and economic resilience. It also excludes homeowners—who suffer the losses—from participating in the value chain created around their own property data.

CertiStrike was created to solve these challenges by deploying a decentralized, real-time sensor network designed to measure hail impacts with scientific accuracy and economic purpose.

3. The CertiStrike Vision

3.1 Mission and Goals

CertiStrike's mission is to create the world's first decentralized, real-time hail detection network—delivering verified, hyperlocal impact data to the industries and communities that need it most.

By combining physical sensor deployment, real-time data processing, and decentralized economic incentives, CertiStrike empowers individuals to participate directly in a network that historically excluded them—transforming homeowners and businesses into active contributors to a high-value weather data marketplace.

The goals of the project are:

- To provide **real-time, verified hail impact data** with street-level accuracy.
- To incentivize widespread sensor deployment through **token-based rewards**.
- To establish a **data economy** that is transparent, decentralized, and revenue-generating.
- To enable industries such as roofing, agriculture, insurance, and public safety to **access reliable data** for faster, smarter decisions.
- To reduce fraud, delay, and inefficiency in post-storm damage assessment and response.
- To give individuals control and upside in the infrastructure and data systems built around their environments.

3.2 Why Now? The Role of DePIN

CertiStrike would not have been viable until the emergence of **DePIN (Decentralized Physical Infrastructure Networks)**. In traditional models, building a nationwide hail detection network would require centralized capital, corporate infrastructure, and years of development—leaving homeowners, small businesses, and communities on the outside of the value chain.

DePIN flips that model by allowing anyone to contribute infrastructure (in this case, sensors) and earn rewards based on the value they bring to the network. Using token incentives and decentralized architecture, CertiStrike creates a real-time sensor grid built by the people, for the people.

With the rise of DePIN, affordable IoT hardware, and tokenized reward mechanisms, it's now possible to:

- Distribute the cost of infrastructure deployment across a wide base of contributors
- Incentivize high-quality data generation from real-world locations
- Monetize data through open-access APIs and licensed enterprise feeds
- Create a circular, revenue-generating ecosystem where value flows back to the community

CertiStrike isn't just applying DePIN principles—it's a native DePIN use case. The network is more than just infrastructure—it's a **living, trustless, and economically-aligned system** for real-world hail detection.

4. System Architecture

CertiStrike's architecture is built to capture real-time, verifiable hail impact data from distributed physical sensors and make it accessible through a decentralized, trust-minimized data infrastructure. It combines rugged IoT hardware, a secure data transmission layer, decentralized verification logic, and tokenized incentives.

4.1 Sensor Technology Overview

At the edge of the network are CertiStrike-enabled hail sensors, designed to be compact, weather-resistant, and scientifically accurate. These devices detect:

- **Kinetic energy** of impact
- **Diameter** estimation of each hailstone
- **Time and location** of each strike

Sensors are optimized for long-term outdoor installation and minimal maintenance, with modular communication options depending on region and deployment style, including:

- Wi-Fi

- LoRaWAN
- LTE / SIM-based
- Optional BLE setup or backup

Each sensor is tamper-resistant and includes cryptographic identity verification for data signing and authenticity.

4.2 Data Collection and Verification

Once hail impacts are detected, the device logs the timestamp, force, and estimated size, then packages the event for transmission. The data flow follows these steps:

1. **Edge Data Capture**
Sensor locally records and verifies the impact event.
2. **Secure Transmission**
Event packets are sent over encrypted protocols to CertiStrike's node layer for aggregation and validation.
3. **Cross-Sensor Correlation**
Data from multiple nearby sensors are checked for consistency to prevent spoofing or anomalies.
4. **Network Confirmation**
Verified events are logged into the CertiStrike database and become queryable via APIs and apps.

Each event is digitally signed by the originating sensor, enabling on-chain or off-chain verification for data consumers.

4.3 Connectivity and Network Standards

The CertiStrike network supports multiple connection types to ensure broad compatibility:

- **Wi-Fi** is used in urban and residential deployments where coverage is abundant.
- **LoRaWAN** enables low-power wide-area connections in rural or remote regions.

- **Cellular (LTE-M / NB-IoT)** is available for direct-to-cloud deployment in areas without local connectivity.
- **Bluetooth Low Energy (BLE)** is included for quick provisioning and future mesh-based communication layers.

The system is hardware-agnostic at its core, allowing future integration of third-party certified devices under a trust framework defined by the CertiStrike protocol.

4.4 DePIN Integration and Incentive Layer

The physical CertiStrike network operates on a DePIN model—each sensor functions as a node in a decentralized infrastructure network. Hosts are incentivized based on:

- Sensor uptime
- Geographic relevance and network coverage gaps
- Verified hail event contribution
- Staking into **Deductible Vaults** for optional bonus rewards

The network's smart contracts automate token distribution, staking logic, and usage-based reward bonuses. As revenue from data buyers (insurance, construction, agriculture) grows, a portion is redirected to sensor operators based on their contribution to that revenue.

5. Market Opportunity

The CertiStrike network is positioned at the intersection of multiple high-value industries that rely on weather data for operational, financial, and strategic decisions. Traditional weather systems rely heavily on radar-based estimations, which lack the granularity and real-time accuracy needed to make timely, localized decisions. CertiStrike introduces a new data layer: verified, hyperlocal hail impact information powered by a decentralized network of physical sensors. The demand for this type of data already exists across several sectors.

5.1 Roofing and Construction

The U.S. roofing industry is valued at over \$57 billion, with hail-related repairs accounting for approximately \$10 billion annually. These companies rely heavily on storm maps and

door-to-door scouting to locate storm-damaged properties. CertiStrike enables more efficient deployment of sales and service teams by providing real-time, location-specific hail impact data. This increases lead precision, shortens response time, and improves contractor competitiveness.

5.2 Agriculture and Solar Operations

Agricultural losses due to hail are estimated at \$22 billion annually on a global scale. In parallel, the global solar operations and maintenance (O&M) market was valued at \$5.4 billion in 2023 and continues to grow rapidly. Both sectors are vulnerable to hail damage and benefit significantly from accurate, early warnings and post-impact assessments. CertiStrike offers a new layer of decision-making capability by enabling crop managers and solar operators to take preemptive action (e.g., adjusting panel tilt) and validate damage for insurance or operational responses.

5.3 Emergency Services and Municipal Response

Municipalities and emergency responders often lack ground-level weather data, resulting in inefficient storm response and public safety risks. Real-time hail detection allows cities to dispatch emergency services more effectively, assess infrastructure risks faster, and reduce liability exposure. CertiStrike offers municipalities the ability to license real-time data feeds for high-resolution situational awareness during severe weather events.

5.4 Insurance and Risk Modeling

The global property and casualty (P&C) insurance market exceeds \$1.8 trillion, with U.S. hail-related claims estimated at over \$15 billion per year. Insurance providers increasingly seek parametric solutions and automated claim verification models. CertiStrike delivers verifiable, timestamped hail impact data from specific geographic coordinates, offering a foundation for faster claims processing, fraud reduction, and new insurance products.

5.5 Forecasting and Analytics Platforms

Companies such as IBM Weather, AccuWeather, and CoreLogic rely on historical and modeled weather data to power their enterprise solutions. However, these models often suffer from a lack of verified ground-truth data. CertiStrike introduces a decentralized layer of real-time, first-party hail data that enhances both short-term forecasting and long-term risk modeling. This opens up potential for CertiStrike to offer premium API access to enterprise weather platforms and data aggregators.

6. Tokenomics

CertiStrike's native token, **STRIKE**, is the economic engine behind the network—driving participation, rewarding contributors, and enabling value transfer between data producers and consumers. The tokenomics are designed to support sustainable growth, incentivize accurate data generation, and tie the token's utility directly to real-world economic activity.

More on CertiStrike's tokenomics will be made available soon.

7. Incentive Design

The long-term success of CertiStrike depends on the reliability, geographic distribution, and economic alignment of its data contributors. The incentive model is built to reward meaningful behavior, discourage low-value or malicious participation, and support a network that grows alongside demand for high-quality hail impact data.

7.1 Data Quality and Reward Scaling

Reward emissions to sensor operators are dynamically adjusted based on several performance factors:

- **Sensor Uptime**
Devices that are consistently online and reporting receive a higher share of rewards.
- **Verified Impact Data**
Rewards are boosted for sensors that contribute valid data during confirmed hail events, especially when cross-verified with other sensors.
- **Geographic Priority Zones**
Regions identified as underrepresented or high-risk (e.g., hail-prone but under-covered zip codes) receive increased emissions to incentivize deployment.
- **Network Congestion Control**
Areas with excessive sensor overlap will see diminishing rewards per sensor, promoting wider geographic distribution and limiting redundancy farming.

This dynamic scaling ensures that rewards are allocated based on **real network contribution**, not simply hardware quantity.

7.2 Role of Location and Event Verification

CertiStrike incorporates **multi-sensor verification logic** to confirm hail events:

- **Redundant Reporting:** Data is considered valid only when multiple nearby sensors report matching impact signatures within a shared time window.
- **Weighted Accuracy:** Sensors with long-term reliable history receive greater verification authority in low-density areas.
- **Anomaly Detection:** False or spoofed reports can be flagged by the system and penalized with reward reduction or slashing.

This creates a **trustless, self-validating network** that doesn't require central review to maintain data integrity.

7.3 Staking Incentives

Staking is optional but unlocks additional benefits:

- **Deductible Vaults:** Hosts who stake tokens into deductible vaults gain eligibility for post-event claims tied to their sensor's verified hail data.
 - **Bonus Yield:** Vaults with longer lock periods receive bonus emissions from the Boost Pool.
 - **Network Health Bonus:** Participants in high-need zones or during peak events may receive time-limited multipliers on their staking yield.
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7.4 Anti-Sybil and Abuse Prevention

To maintain the credibility of the network, CertiStrike implements mechanisms to prevent gaming:

- **Device Authentication:** Each sensor is cryptographically registered and verified at the time of onboarding.
- **Location Locking:** Devices are geofenced to their registered deployment area; rapid relocation reduces earning potential.

- **Early Withdrawal Penalties:** Users who prematurely exit staking vaults or attempt to game the insurance system forfeit bonus rewards and may lose access to claim functionality.

These measures ensure that **economic incentives are tightly aligned with honest, high-quality participation** and reinforce the DePIN model's core values of decentralization, integrity, and shared ownership.

8. Governance & Community

While CertiStrike embraces decentralization at the infrastructure and incentive level, governance of the project itself will remain under the leadership of the **CertiStrike Foundation**. This foundation will operate as a U.S.-based legal entity, governed by a traditional board structure to ensure responsible oversight, compliance, and long-term strategic execution.

8.1 Foundation-Led Governance

The CertiStrike Foundation is tasked with:

- Managing protocol development and updates
- Overseeing token emission schedules and economic modeling
- Allocating ecosystem resources and treasury funds
- Ensuring regulatory compliance and legal integrity
- Securing enterprise partnerships and integrations

This model provides the necessary structure and accountability for operating a real-world infrastructure project with legal and financial complexity, while still aligning with Web3 principles of transparency and collaboration.

8.2 Community Participation

Although final authority resides with the foundation, **community members will be invited to actively participate** in the evolution of the network through:

- **Working groups and open feedback rounds** on product and incentive design
- **Non-binding proposal voting** to surface community sentiment
- **Task-based bounties, grants, and contribution rewards**
- **Representation on advisory boards or technical committees** where appropriate

The goal is to foster a **collaborative development process** where builders, sensor hosts, and data users contribute meaningfully—while maintaining clarity and direction under the foundation’s leadership.

8.3 Ecosystem Growth Fund

The foundation will oversee an **Ecosystem Fund** sourced from the token supply and protocol revenue. These funds will support:

- Grants for developer tools, integrations, and sensor innovation
- Strategic deployments in under-covered regions
- Educational initiatives and community content
- Partnerships that expand access to data and increase demand

These programs will be operated with transparency and guided by both board priorities and community input.

CertiStrike’s governance model combines the **stability of foundation-led oversight** with the **collaboration of community-driven innovation**, ensuring the network can scale responsibly while staying connected to the people powering it.

9. Roadmap

The development of CertiStrike follows a phased rollout designed to validate core technology, incentivize early adoption, establish data revenue channels, and scale network participation.

The roadmap balances technical execution with business development and regulatory compliance.

2025

Q3 – Foundational Release

- Publish whitepaper and technical documentation
- Release tokenomics and emission model
- Publish initial hardware specs and onboarding requirements
- Launch early community channels and working groups

Q4 – Core Development Begins

- Application and sensor provisioning interface development
 - Database architecture and API framework implementation
 - Begin internal and partner testing of real-time data handling
 - Preorders open for first-generation CertiStrike-compatible sensors
 - Initial bounties for analytics tools and integrations
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2026

Q1 – Network Activation (Alpha)

- Live sensor onboarding (manual + QR-based setup)
- First live hail event test captures
- Data verification system (cross-sensor correlation logic) deployed
- Alpha API release for partners and selected testers

- First token rewards distributed to sensor hosts

Q2 – Revenue Layer Integration

- Launch enterprise API licensing and billing interface
- Begin revenue-sharing model with participating sensor hosts
- Deductible Vault staking interface released
- Initial sensor density mapping and incentive zone calibration

Q3 – Business Expansion & Field Testing

- Strategic partnerships with roofing, solar, and ag-tech companies
- Pilot program with insurance and emergency response firms
- Additional hardware vendor certifications
- Continued developer grant and integration bounties

Q4 – Network Optimization

- Sensor health monitoring tools and tamper detection
- Geographic redundancy management and reward rebalancing
- Community-driven product feedback integrations
- Publish annual network report and open metrics dashboard

2027 and Beyond

- Transition to expanded foundation board and advisory roles
- Broader enterprise sales effort and global expansion

- Third-party sensor certification program
 - Advanced use cases: predictive modeling, automated claims triggers
 - Expanded staking mechanics and additional real-world risk products
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CertiStrike's roadmap is iterative by design. Milestones and focus areas may evolve as the project enters new development cycles. The foundation is committed to transparency and will issue regular updates through public channels and progress reports.

10. Risks and Considerations

While CertiStrike represents a novel approach to decentralized weather infrastructure and data monetization, it is important to acknowledge the challenges and risks associated with deploying, operating, and scaling such a system. The following outlines major areas of risk and the considerations guiding our response.

10.1 Technical Risks

Sensor Reliability

Hail sensors must function accurately and consistently in diverse environments. Hardware malfunction, poor installation, or environmental interference may reduce data quality or cause coverage gaps.

Mitigation:

- Use of robust, field-tested sensor hardware
- Data redundancy through geographic clustering
- Real-time monitoring tools to detect offline or underperforming units

Data Verification

Ensuring that reported data is authentic and not spoofed is essential to maintaining data integrity and network trust.

Mitigation:

- Cryptographic device registration and signatures
- Cross-sensor validation logic to correlate events
- Reputation scoring over time for sensor operators

Network Congestion or Oversaturation

Excessive sensor concentration in specific areas may lead to inefficient reward distribution and degraded network utility.

Mitigation:

- Dynamic emission scaling based on regional density
 - Reward decay in oversaturated zones
 - Incentive multipliers for underserved geographies
-

10.2 Regulatory and Legal Risks

Token Classification

The STRIKE token may be subject to varying regulatory definitions across jurisdictions, particularly regarding its utility, staking mechanics, and revenue-sharing features.

Mitigation:

- U.S.-based foundation with legal oversight
- Regular third-party compliance reviews
- Adaptive token design focused on utility and governance over speculation

Data Privacy and Security

Real-time sensor data tied to physical locations may raise privacy concerns, especially when linked to residential addresses.

Mitigation:

- Anonymized sensor ID structure
 - Aggregated data access for most external users
 - Optional privacy-enhancing configurations for sensor hosts
-

10.3 Adoption and Market Risk

Industry Resistance

Traditional roofing, insurance, and emergency response industries may be slow to adopt decentralized data models or token-based access systems.

Mitigation:

- Simple enterprise API integrations
- Hybrid payment support (fiat or stablecoin gateways)
- Early partner incentive programs to reduce onboarding friction

Community Participation

DePIN models rely on meaningful, sustained community contribution. Low engagement or gaming behaviors (e.g., deploying useless sensors) could threaten network reliability.

Mitigation:

- Ongoing community education and support
 - Anti-sybil mechanics and tamper detection
 - Optional “proof-of-quality” reward weighting
-

10.4 Ecosystem and Token Economy Risk

Volatility and Incentive Imbalance

High token price volatility or poorly structured incentives could reduce economic sustainability or lead to under-provisioning of data.

Mitigation:

- Hybrid model combining emissions + revenue-driven rewards
- Emission decay with long-term sustainability focus
- Real-world utility via staking (Deductible Vaults) and buyback mechanisms

CertiStrike is committed to proactively identifying and addressing risks as they arise. Ongoing collaboration between the foundation, legal advisors, technical teams, and the community will be critical in managing the evolving risk landscape as the network scales.

11. Legal and Disclaimers

The information contained in this whitepaper is provided for general informational purposes only and does not constitute legal, financial, investment, or tax advice. This document is intended to present the conceptual vision and development path for the CertiStrike network and its associated token, STRIKE. It is not a solicitation to purchase tokens or securities, nor an offering of any kind.

11.1 No Guarantee of Returns

Participation in the CertiStrike network—whether through token purchase, sensor deployment, or staking—is done at the participant’s own risk. The value of STRIKE tokens may fluctuate significantly, and there is no guarantee of any financial return. Past performance or early adoption success does not ensure future results.

11.2 Regulatory Compliance

CertiStrike operates under a U.S.-based foundation governed by a traditional board structure. While the Foundation will make every effort to remain compliant with applicable laws and regulatory guidance, the legal status of decentralized networks and digital tokens is evolving. Regulatory changes or interpretations could materially affect the design, function, or distribution of the STRIKE token or the network itself.

Participants are responsible for complying with the laws of their respective jurisdictions. Nothing in this whitepaper should be construed as legal advice, and readers are encouraged to consult independent counsel before engaging with the project in any capacity.

11.3 Token Non-Security Statement

The STRIKE token is designed as a utility token that powers the CertiStrike network by facilitating access, rewarding contributions, and enabling participation in certain features. It is **not intended to be a security** in any jurisdiction and carries no ownership, profit-sharing, or equity rights in the CertiStrike Foundation or any associated entity.

11.4 Forward-Looking Statements

This whitepaper contains forward-looking statements regarding the future development, deployment, and adoption of the CertiStrike network. These statements are inherently uncertain and are subject to change based on technical, regulatory, market, or operational factors. No assurance can be given that any forward-looking statements will prove to be accurate.

11.5 Risk Acknowledgment

Engaging with blockchain-based systems carries inherent risks, including but not limited to:

- Technical vulnerabilities
- Regulatory uncertainty
- Market volatility
- User error
- Malicious attacks

By participating in the CertiStrike ecosystem, individuals acknowledge these risks and accept full responsibility for their actions and decisions.

This document does not constitute a legally binding agreement. It is subject to change without notice and should not be relied upon as the sole basis for any decision related to CertiStrike or its associated assets.

12. Contact and Partnerships

CertiStrike is actively seeking partners, contributors, and collaborators across a wide range of industries and disciplines. From sensor manufacturing and software development to enterprise integrations and data licensing, we welcome engagement from stakeholders aligned with our mission to create a decentralized, real-time hail impact network.

12.1 Partnership Opportunities

We are currently exploring partnerships in the following areas:

- **Roofing and Construction**
Gain access to verified hail impact data for rapid deployment and lead generation.
 - **Insurance and Risk Modeling**
Improve claims automation and risk assessment with hyperlocal, ground-truth data.
 - **Agriculture and Solar Operations**
Use real-time hail intelligence to protect valuable assets and reduce downtime.
 - **Emergency Services and Municipal Governments**
Enhance resource allocation and storm response through verified, location-specific impact data.
 - **Sensor Hardware Providers**
Certify and integrate third-party hail sensors into the CertiStrike network under defined performance and security standards.
 - **Web3 Developers and Analytics Builders**
Build apps, dashboards, visualizations, and tools on top of CertiStrike's live data feed and API infrastructure.
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12.2 Contact Channels

If you are interested in exploring a partnership or collaboration, we encourage you to reach out through one of the following:

- **Website:** certistrike.com
- **Email:** team@certistrike.com
- **Telegram:** [@DePIN_Crypto_Network](https://t.me/DePIN_Crypto_Network)
- **X / Twitter:** [@CertiStrike](https://twitter.com/CertiStrike)
- **GitHub / Developer Portal:** [Coming Soon]

For media inquiries, ecosystem grants, or enterprise sales, please contact the CertiStrike Foundation directly at brimatthewsmith@gmail.com.

CertiStrike is still early—and we believe the strongest networks are built through collaboration. If you're aligned with our vision and want to contribute, build, or integrate, we'd love to hear from you.