

# The Problem

## Financial Losses

Since 2020, smart contract vulnerabilities have caused over \$2 billion in losses.

## Security Challenges

Traditional security tools cater primarily to the Ethereum/Solidity ecosystems, leaving other architectures exposed.





# Why Qubic is a Security Nightmare



## UEFI Vulnerabilities

Bare Metal Execution means no OS-level security boundaries, exposing the system to UEFI-level vulnerabilities.



## Hardware Access

No Virtual Machine Isolation results in direct hardware access, creating novel exploit paths.



## Contract Risks

C++ Smart Contracts bring dangers such as memory corruption, buffer overflows, and pointer attacks.



## Rapid Propagation

Its capability of over 40 million Transactions Per Second (TPS) means attacks can propagate extremely rapidly.



## Network Stability

Core Integration means contract bugs can crash the entire network.



## Quantum Threats

Quantum computing threats are intensified on bare metal systems.

# Our Solution



## AI-Powered Auditor

Utilizes Together.ai's advanced Meta-Llama-3.1-8B-Instruct-Turbo models.



## Real-Time Analysis

Features MongoDB persistence for effective audit data management.



## Integrated Warnings

Provides in-editor security warnings through Monaco Editor integration.



## Vulnerability Detection

Trained on C++ best practices for Qubic's specific environment.

# Technical Architecture



## Next.js + tRPC

Ensures type-safe, full-stack development for reliability.



## Cloudflare R2

Provides distributed and scalable file storage.



## Real-time Analysis

Triggered with 500ms debounce to optimize responsiveness.

# AI-Powered Security Analysis

## Memory Safety Issues

Detects buffer overflows, use-after-free, memory leaks, and null pointer dereferences.

## Qubic-Specific Vulnerabilities

Identifies epoch transition safety and computer consensus attacks effectively.





# Live Demo Features



## Instant Upload

Drag-and-drop C++ files with real-time security scoring.



## In-Editor Warnings

Visual cues highlight vulnerable lines with informative tooltips.



## Comprehensive Reports

Detailed findings with remediation steps and risk prioritization.



## Historical Audit

Searchable audit history for file-specific security tracking.

# Market Validation



## Market Opportunity

The Qubic security auditing market represents a significant opportunity exceeding \$500 million.



## Competitor Rates

Major competitors charge premium rates for audits, with varying price ranges.



## Audit Turnaround

Typical auditing turnaround time is 6-8 weeks, necessitating rapid iteration.



## Qubic Ecosystem

The Qubic ecosystem includes 676 computers with a 1,024 smart contract limit.



## Enterprise Demand

Enterprise adoption demands swift security validation and compliance assurance.

# What We Achieved in 24 Hours



## Complete Security Platform

Developed a complete security platform incorporating modern UI/UX and AI integration.



## Real-Time Analysis

Deployed real-time analysis capabilities saving audit data persistently.



## C++ Vulnerability Detection

Built Qubic-specific C++ vulnerability detection targeting bare metal threats.



## Enterprise Features

Incorporated enterprise features: audit history, team collaboration, and compliance reporting.



## Production Deployment

Production deployment ready on secure infrastructure, available for user engagement immediately.



# Competitive Advantage



## First-Mover Advantage

First-mover advantage within the Qubic ecosystem.



## AI Integration

Deep AI integration with tailored domain-specific training.



## Real-Time Analysis

Real-time analysis surpassing traditional batch auditing methods.



## Blockchain Expertise

Specialized expertise in bare metal blockchain security.



## Market Position

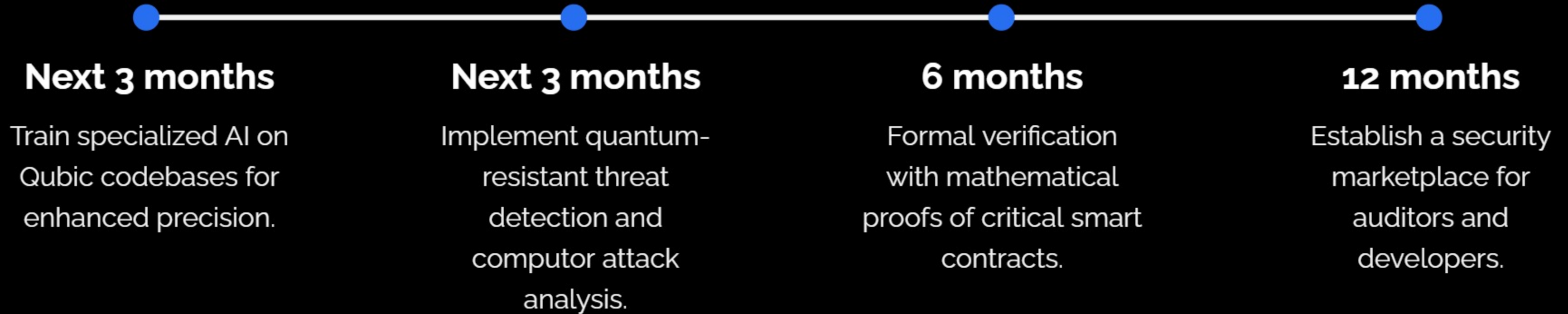
No competition for Qubic-specific security tools.



## Scalable Architecture

Enterprise-grade architecture with professional UI/UX.

# Roadmap & Future Development



# Business Model & Sustainability



SaaS Subscriptions

**\$99/month**



Enterprise Plans

**\$999/month**



Audit Services

**\$25,000**



API Access

**AI-as-a-service**



Market Potential

**\$8 million ARR**



Client Sectors

**Financial, Gaming,  
AI**



# Call to Action

## 01

### **Strategic Partnerships**

We seek partners including the Qubic core team and major computer operators.

## 02

### **Early Customers**

We need customers deploying smart contracts on Qubic for security validation.

## 03

### **Investment Opportunities**

Investment is essential for accelerating AI model development and team expansion.

## 04

### **Developer Contributions**

We encourage the developer community to contribute to shaping security standards.



The background is a vibrant blue with flowing, wavy lines that create a sense of movement. Scattered throughout are numerous small, bright white stars and larger, glowing light sources that produce lens flare effects. The overall aesthetic is clean, modern, and celebratory.

# THANK YOU

**Thank you for your  
attention and time!**