

2025



# Gauntlet COA

Blockchain certificate of authenticity combating AI-generated art fraud using Polygon NFT technology.

Polygon · Solidity · IPFS · ScoreDetect · Shopify

**200+ Artworks Authenticated**

# AI Is Weaponizing Art Fraud



## AI-Generated Forgeries

Generative AI produces convincing fake art in seconds. Traditional authentication can't keep pace.



## Paper COAs Are Worthless

Paper certificates are easily forged, lost, or destroyed. No way to verify without contacting the issuer.



## Provenance Gaps

Art changes hands multiple times. Each transfer is an opportunity for records to be lost or falsified.



## Collector Trust Erosion

The \$450B art market depends on trust. As fraud tools improve, buyer confidence deteriorates.

# A \$450B Market Under Siege

**\$450B**

Global art market—growing more  
vulnerable to AI fraud

**\$6B+**

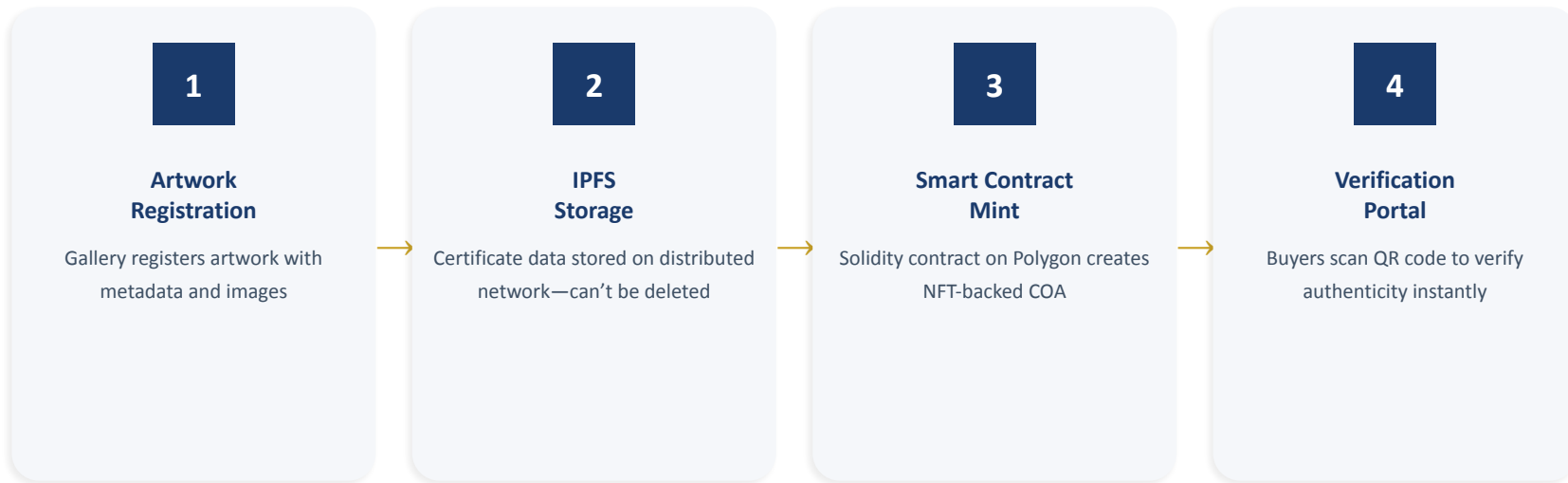
Estimated annual losses from art forgery  
worldwide

**50%+**

Market participants report concerns  
about AI-generated fakes

**Every art transaction depends on trust in authenticity. Blockchain provides what paper never could:  
immutable, publicly verifiable proof of provenance that survives every transfer.**

# Immutable Proof on the Blockchain



*Polygon chosen for ~\$0.01/mint gas fees and Ethereum-level security. ScoreDetect adds tamper-proof timestamping.*

# Fraud-Proof Certificates for the AI Era

■ <b>NFT-Backed COAs</b>	Immutable blockchain authentication
■ <b>QR Verification</b>	Instant scan-to-verify for buyers
■ <b>IPFS Storage</b>	Distributed, permanent metadata
■ <b>Shopify Integration</b>	Auto-mint on purchase completion
■ <b>Transfer Tracking</b>	Full provenance chain on-chain

## TECH STACK

### BLOCKCHAIN

Polygon (Ethereum L2)

### CONTRACT

Solidity ERC-721

### STORAGE

IPFS via Pinata

### COST/MINT

~\$0.01 gas fee

### VERIFICATION

QR → on-chain lookup

## THE RESULTS

# Authentication That Can't Be Faked

**200+**

Artworks cataloged with blockchain COAs

**\$0.01**

Average gas cost per certificate mint

**∞**

Certificate lifespan—immutable on-chain forever

**< 2 sec**

QR scan to full verification

**First independent gallery to deploy production blockchain COAs—enterprise-grade authentication**

## KEY TAKEAWAY

Gauntlet COA applies blockchain beyond speculation—solving a real, growing fraud crisis in a \$450B market with sub-penny transaction costs.

### Blockchain Dev

Solidity, Polygon, NFT standards

### System Architecture

IPFS + on-chain + Shopify

### Domain Expertise

Art market authentication needs