

2025  
EUROPE  
COMMUNITY  
MEETING

# AI at the Gates:

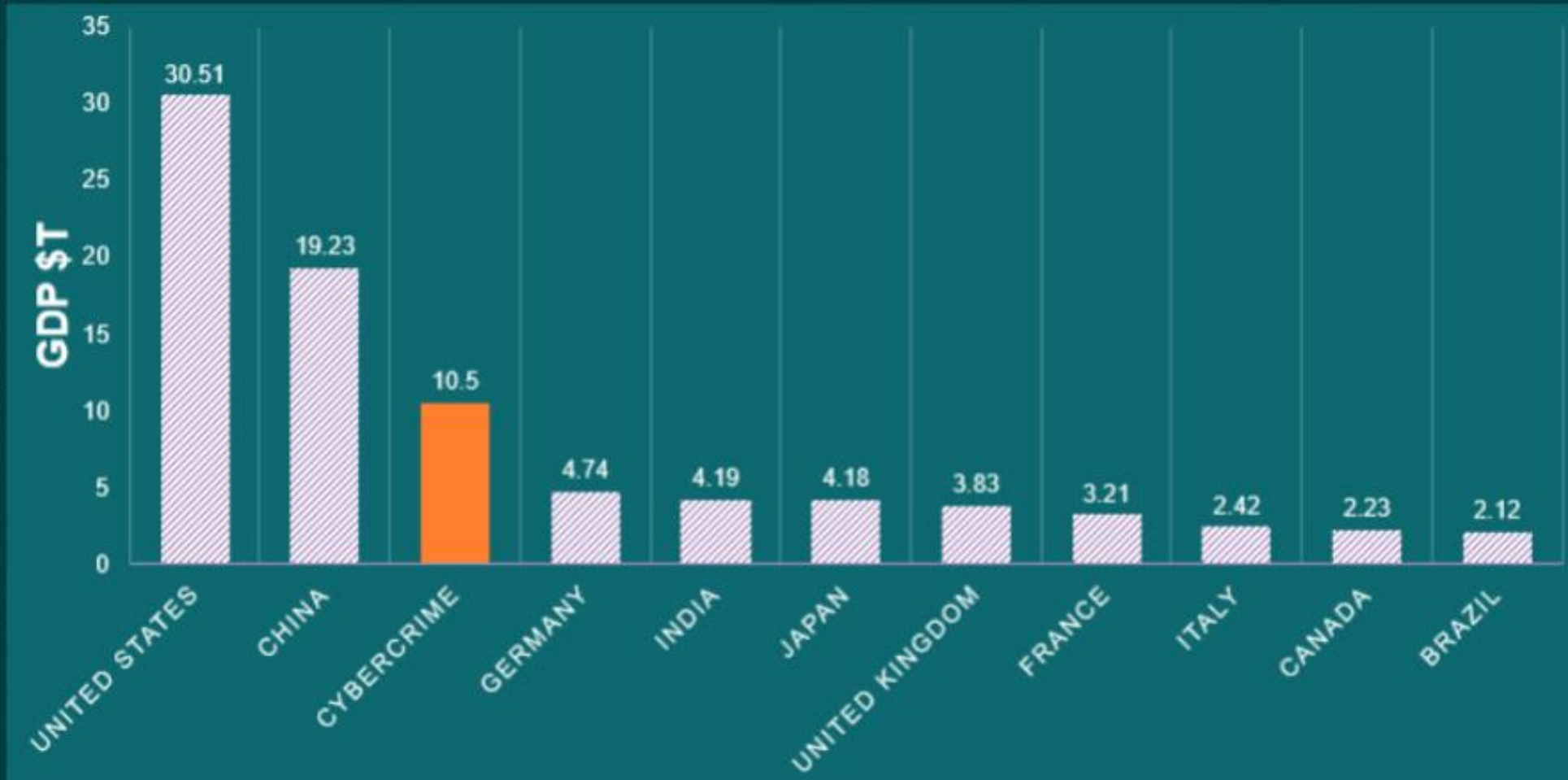
Stopping Payment Fraud Before it Starts



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Director Customer Data Security  
Elavon Merchant Payment Services Europe

# World's top 10 economies + Cybercrime



# Truly organised and very lucrative crime

## Well-positioned to take advantage of AI

### Cybercrime professionals

New powerful tech and **AI taking fraud to new levels**

### Cybercrime Trends

Fraud attempts with deepfakes have increased by **2,137%** over the last three years

The rising tide of bot attacks

### Cybercrime costs

Predicted to hit **€11.9 trillion by 2028.**

Equivalent to GDP of world's third-largest economy

### Card fraud

Card-based payment fraud transactions expected to reach **€34.5 billion by 2027**

### Rising costs

Fraud Losses Hit **\$11m Per Company** as Customer Abuse Soars

Fraud driving higher prices for consumers.

AI boosts organised crime, fraud costs rise, consumers impacted globally

# What we see across industry

Phishing and carding attacks

Account takeovers and data breaches

Bot Fighting is never ending

Fake bookings and chargebacks

Abuse of loyalty programmes

Hard to tell fraudsters from good customers

Fraud signals are present throughout the merchant journey  
Legacy fraud tools only kick in at checkout, which can be too late

# Fraud Prevention Starts Too Late

## Legacy systems

### Based on the payment transaction

- Focus on card number
- Catching obvious fraud scenarios
- Rules based
- Huge manual effort
- Over-reliance on limited blacklists
- Multiple steps for good customers

## Next Generation

### AI oversight at all steps

- AI inferences from whole journey
- Data signals from all interactions
- Finding hidden correlations in data
- Real-time link analysis
- Blocks real fraud
- Frictionless for good customers

## Cutting edge



AI honeypots &  
Bot detection

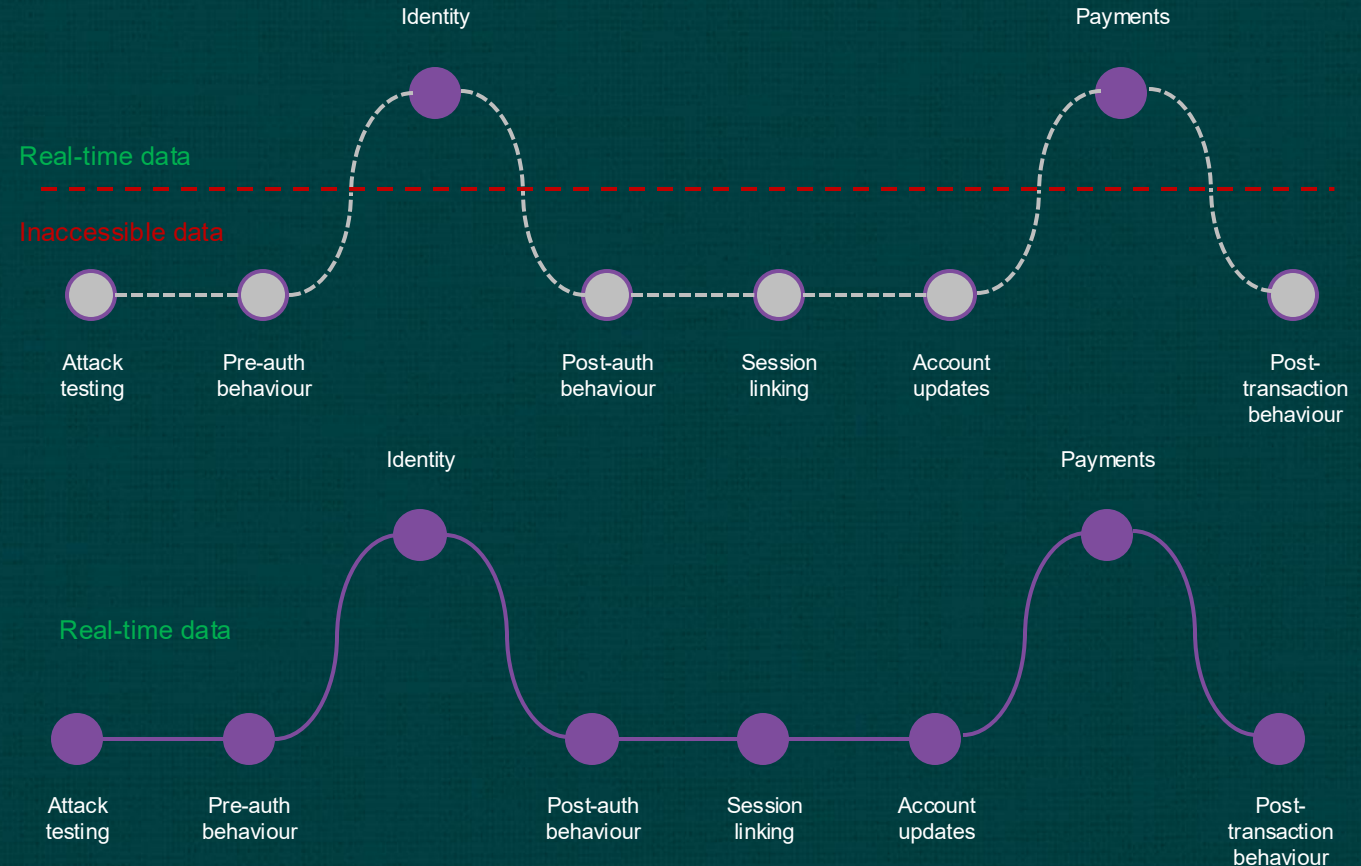
The game has changed. Criminals are using AI to steal high-value data  
We need to fight AI fire with AI fire

# We need to see all the signals

Traditional methods have limited visibility of the wide range of fraud signals available.

Processing is analytical and rule-based.

To stay ahead, we require visibility across the entire range of signals to support AI-powered detection, allowing for fast feedback loops that provide low-latency, real-time corrections.



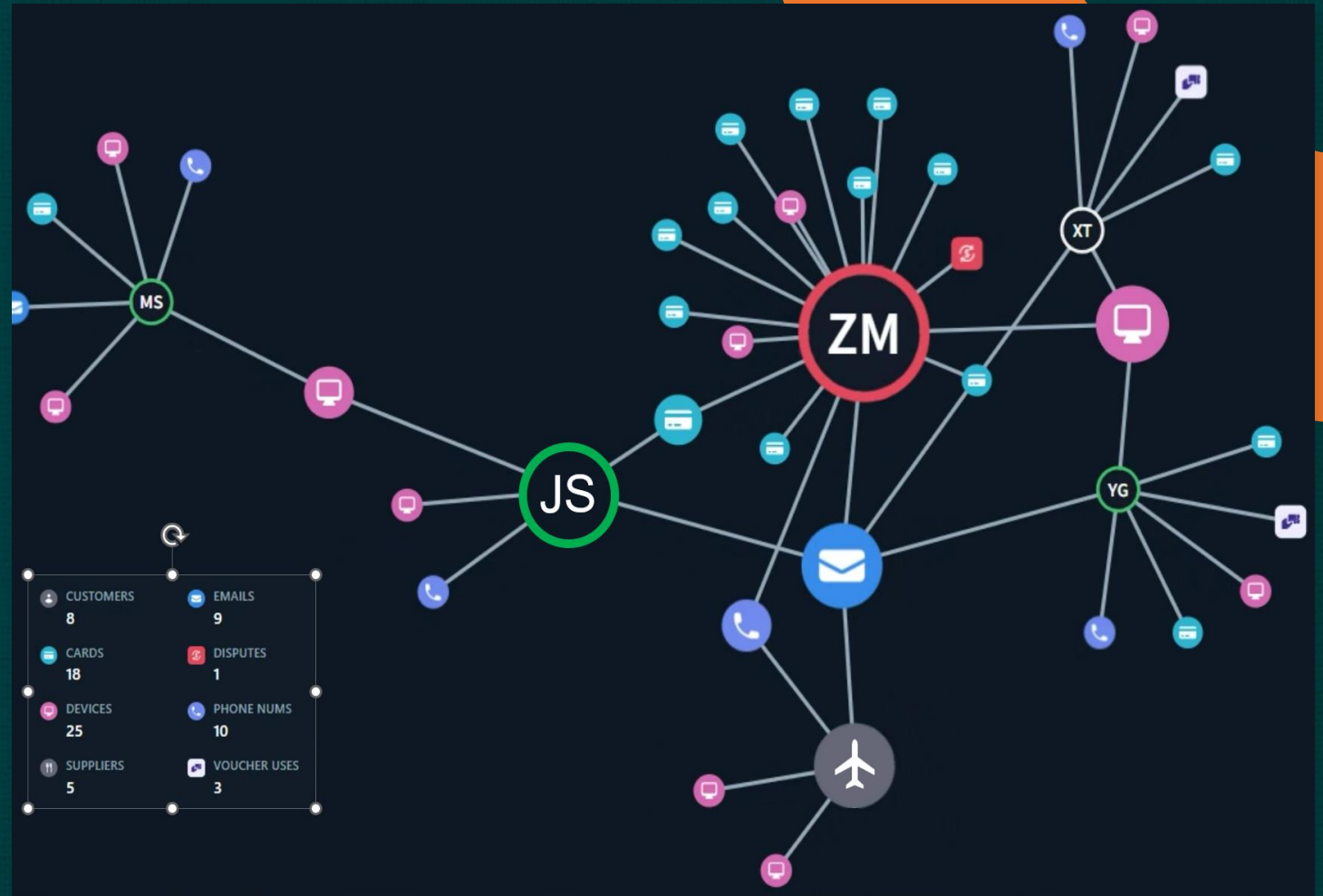
Adapts instantly as fraudsters change their tactics

# Instant link analysis

(170ms)

Thousand of signals analysed

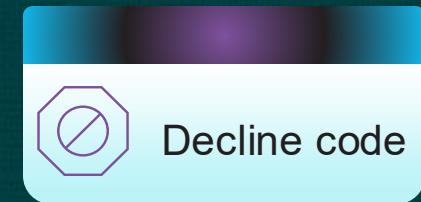
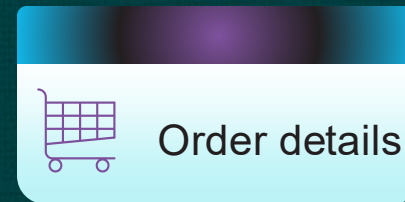
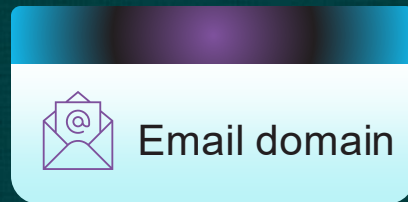
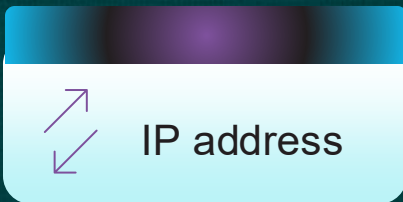
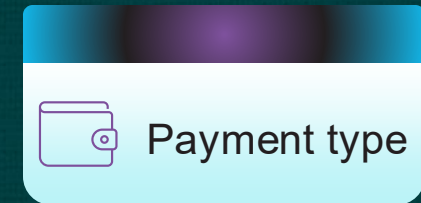
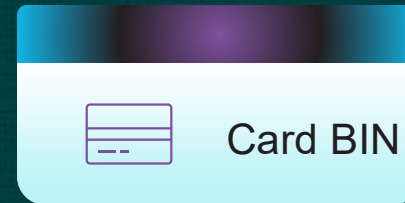
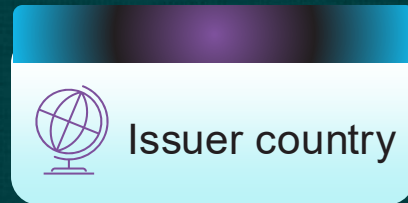
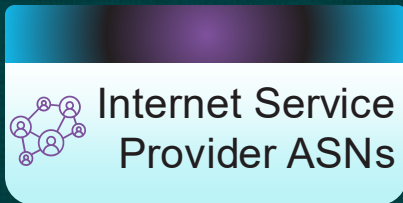
AI models have access to the latest data and rapidly adapt their behaviours.



Fraud is web that AI maps instantly

# Consortium data

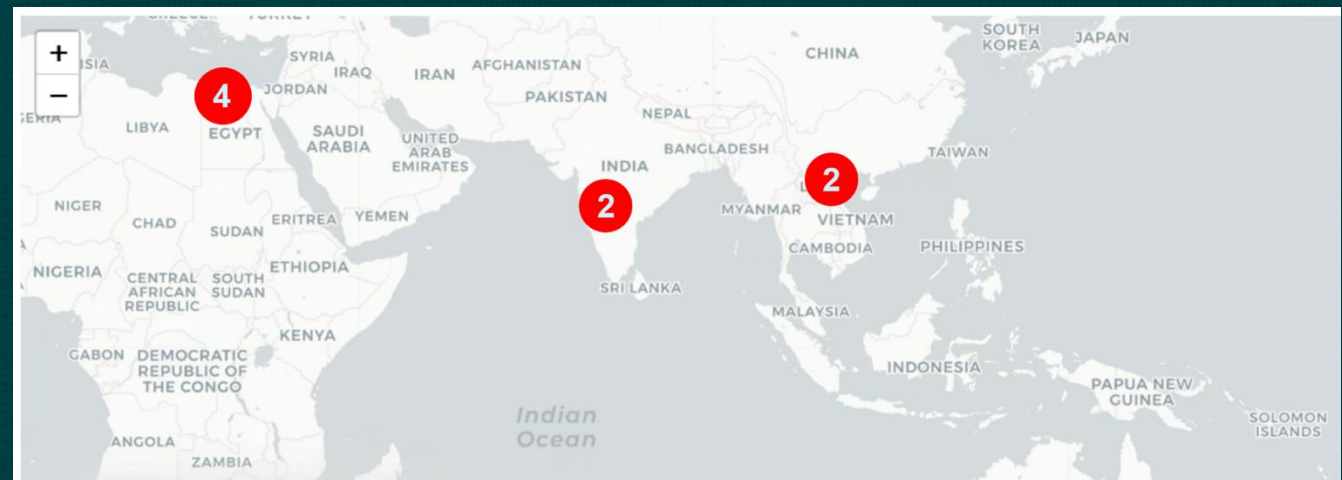
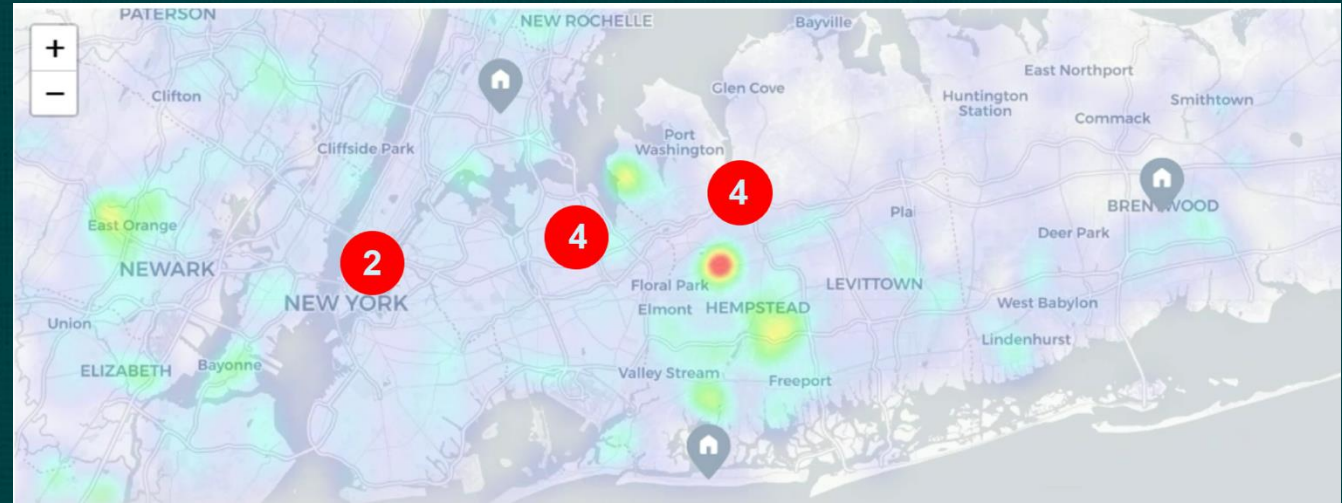
We use consortium data to generate **fraud rate** features. These features represent how much fraud has been associated with a particular entity in the past. These are calculated at **global** level (i.e. using consortium data) and at a **merchant** level.



Consortium data sharing strengthens industry-wide fraud defences

# Fraud is both local and global

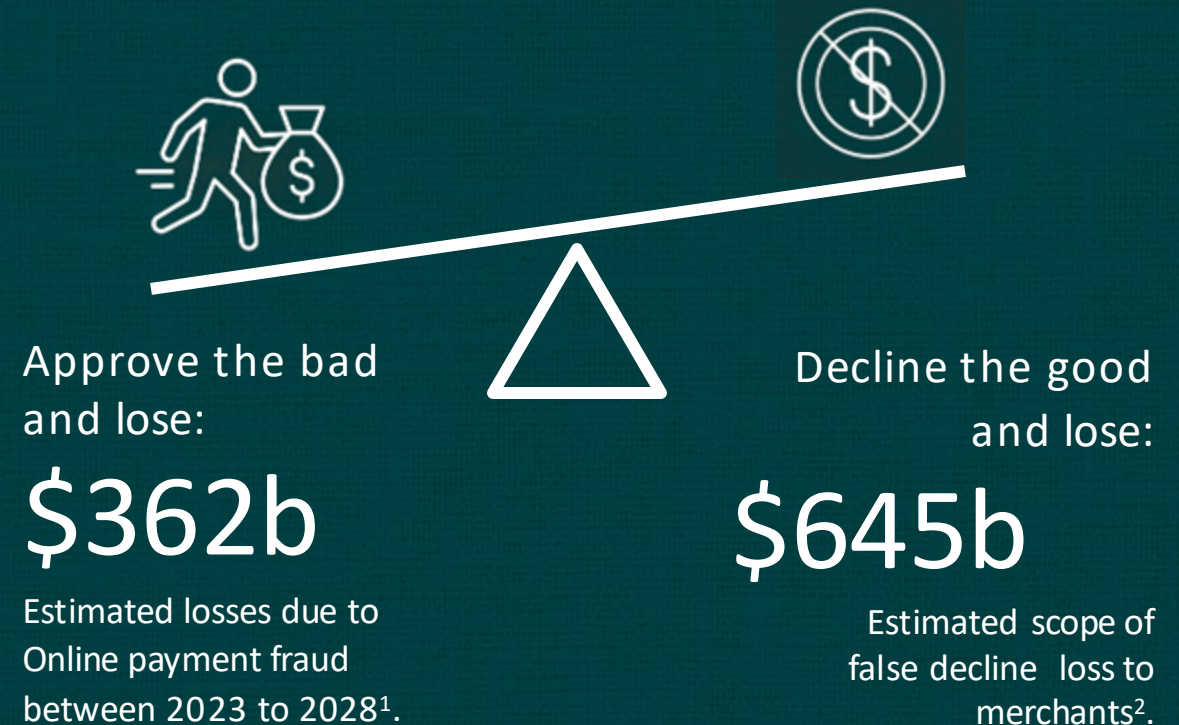
- Fraud is borderless. Activity can bounce between continents in minutes.
- The same fraud network can test stolen cards in Asia, Europe, and North America in under an hour.
- Fraud hotspots light up in real-time, revealing where criminals are active right now.



Fraud networks operate globally, evading borders and laws

# False Declines cost merchants more than fraud

- AI-driven fraud detection reduces both fraud losses and operational costs by catching threats earlier and more accurately.
- Advanced AI tools minimise friction for genuine customers while blocking bad actors before they reach checkout.
- Investing in AI means fewer manual reviews and lower false positives, protecting revenue and customer experience.
- The right AI solution balances security and efficiency, ensuring merchants don't sacrifice good customers to stop fraud.



Blocking good customers costs twice as much as letting the fraud through

# Governance, not gloss

- Governance, transparency, and explainability are essential for secure, scalable AI systems.
- The EU AI Act enforces strict rules for high-risk AI in payments and fraud prevention.
- Dual compliance: AI accountability and GDPR compatibility are now mandatory for personal data use.
- Organisations must conduct AI Impact Assessments and Data Protection Impact Assessments.
- Build systems with clear governance, ready for boardroom and courtroom scrutiny.
- Start with governance, embed human oversight, and continuously monitor for model drift.

Boundaries shape trust and truth, Accountable dawn

# 3 Key Takeaways...

**AI is  
redefining  
fraud  
prevention**

shifting from  
static rules to  
adaptive, self-  
learning defence

The threat is  
**Global and  
always  
evolving**

fraud networks  
adapt in minutes,  
so defences  
must too

**Precision  
matters**

as much as  
protection,  
reducing false  
positives protects  
more revenue  
than stopping  
fraud alone

AI is rewriting the rules of fraud, we must adapt or lose

# Thank you

**Bio:** As an award-winning Data Security leader at Elavon/U.S Bank, I deliver AI-driven fraud and security solutions. Previously, I secured 80 million transactions annually at BT Group, leading a team of 100 security professionals

**LinkedIn:** [Candice Pressinger | LinkedIn](#)

**Blogs:** PCI SSC – blog on AI governance

[Paving the Way: Inspiring Women in Payments - A Podcast Featuring Candice Pressinger](#)





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