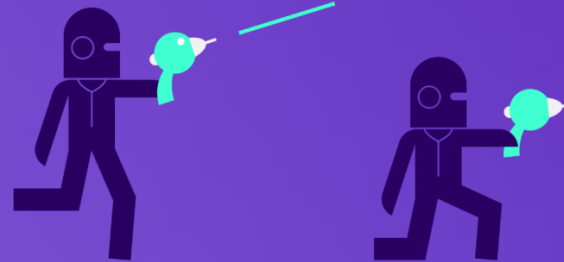


The Battle Against (AI-driven) Identity Fraud

Thomas Osinga
Signicat product management



Pan-European Digital Identity Service Provider

FT FINANCIAL TIMES

statista

1000 EUROPE'S FASTEST GROWING COMPANIES 2024



Full digital identity journey

- Onboarding (identity & risk verification)
- Authentication
- Signing & consent

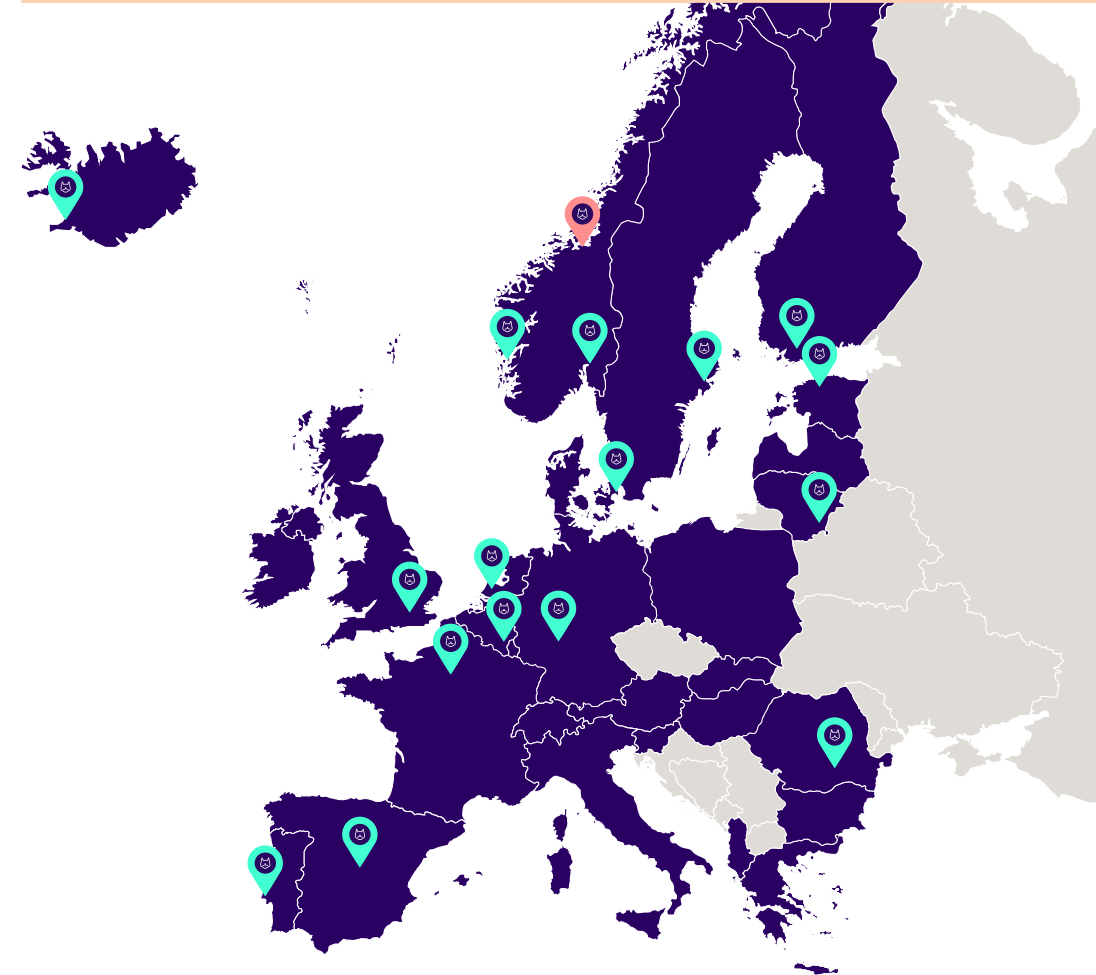


Highest identity coverage in the world

- 35+ eID integrations
- 200+ ID & risk data source integrations
- All-LoA ID-document & biometric verification



> 450 identity experts



Customer footprint

Office

Research report: The Battle Against AI-driven Identity Fraud

1st

Research on AI-driven Digital Identity Fraud

consult.
hyperion

Signicat

7

Countries

Belgium, Germany, The Netherlands, Norway, Spain, Sweden and the UK

1206

Fraud Decision-makers

have answered the survey

4

Segments

Banks, Fintechs, Insurance providers & Payment providers

+

Our own fraud data from VideoID

Trends

Attempted fraud is on the rise

80%

Increase in fraud attempts over last three years

Fraud attempts in total up 80% over the last three years

Identity fraud attempts up 74% over the last three years

Deepfakes now 6.5% of fraud attempts, up 2137% over the last three years



Tips oss

Bergens Tidende

- Vi anmelder de samme svindlerne igjen og igjen. Likevel får de fortsette.

Banken etterlyser bedre samarbeid for å stanse svindlerne. - Forstår at det kan være frustrerende, svarer politiet.

PUBLISERT: 13. MAI



Norge Siste nytt Dokumentar Klima NRK Ytring

Advarer mot ny svindelmetode: Norsk kvinne (80) ble bortført av svindlere til Dubai

To menn i 20-årene tappet kontoene hennes for flere millioner kroner mens de holdt henne i Dubai. - Jeg trodde de var fra Økokrim, sier kvinnen.



Julia Kirsebom Thomassen Journalist
Sverre Holm-Nilsen Journalist
Christian Breidli Journalist

Advarer mot ladesvindel med Qr-koder

Hundrevis av danske elbileiere lurt inn på svindelside.



Klarna / Extra O Blogg / 300 000 nordmenn lurt av falske nettbutikker det siste året

300 000 nordmenn lurt av falske nettbutikker det siste året

23. juni 2022 - 1 min lesning

Klarna Klarna



Nordland Nyhetssenter Mobilvideo Snakk med oss TV Radio Tips oss!

Svindlerne blir stadig mer kreative - oppga e-postadressen kundeservice@vipps.no

Ville du luktet lunta dersom du fikk en e-post fra denne avsenderen?



Anette Tjemsland Journalist

Publisert 24. feb. 2023 kl. 22:24



Why does it happen now?

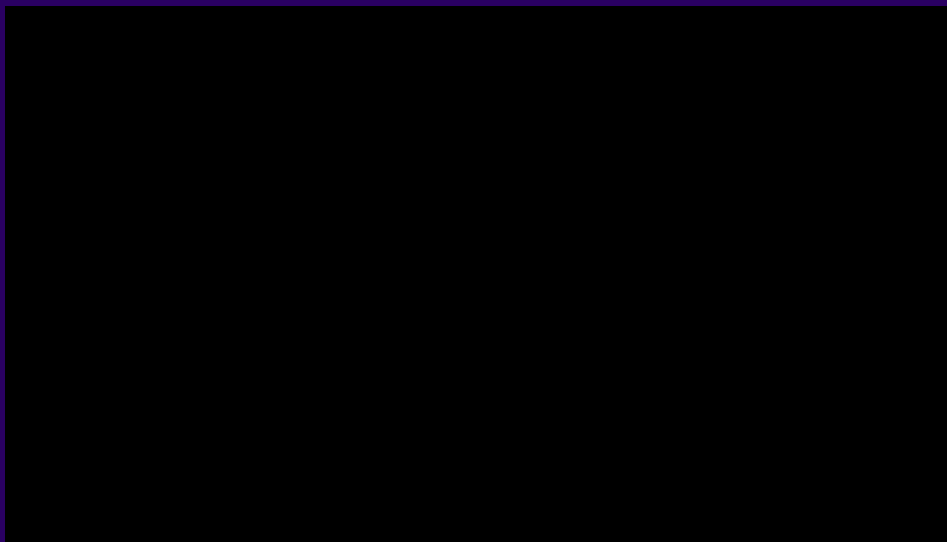
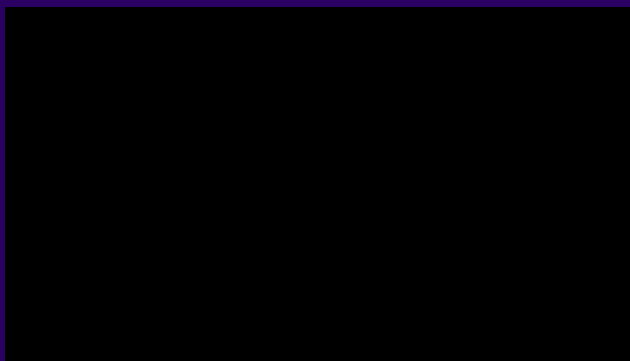
(AI) tooling to **easily** generate/manipulate/replicate:

- Voice
- Image
- Video
- Website or app



Recording: Scottsdale Police Department

<https://www.youtube.com/watch?start=29&feature=oembed&v=BiqtRxm kPNw>



Credits: **Per Thorsheim (Youtube)**

<https://www.youtube.com/watch?v=u0rLOcERP6s>

<https://www.youtube.com/watch?v=1mzzA77DaY8>

passport clouds

English TELEGRAM EMAIL MESSENGER VIBER

PSD - TEMPLATES

Passport ID Driving Bill Credit USA MRZ Gen Barcode PhotoDrops Vector

Passport PSD template



\$ 30

Ps PSD
OVER 100 COUNTRIES
6000 DPI



\$ 60

Ps PSD
MULTIPLE PASSPORTS (2020/2019/18)
6000 DPI



\$ 50

Ps PSD
MULTIPLE PASSPORTS
6000 DPI

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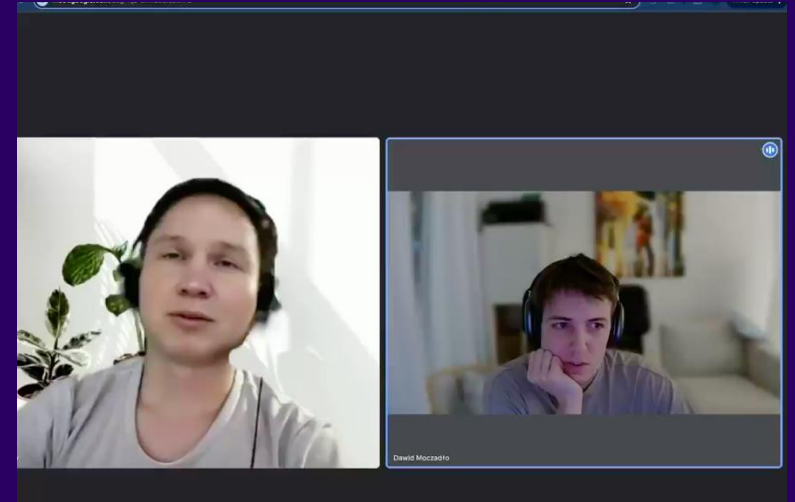
We are a team of experts who create high-quality novelty documents using the latest editing technology. Whether it's bank statements, P60s, SA302 utility bills, or payslips, our aim is to achieve the same quality as the original document that you are replacing.

 **Bank Statements**

 **Payslips**

 **Utility Bills**



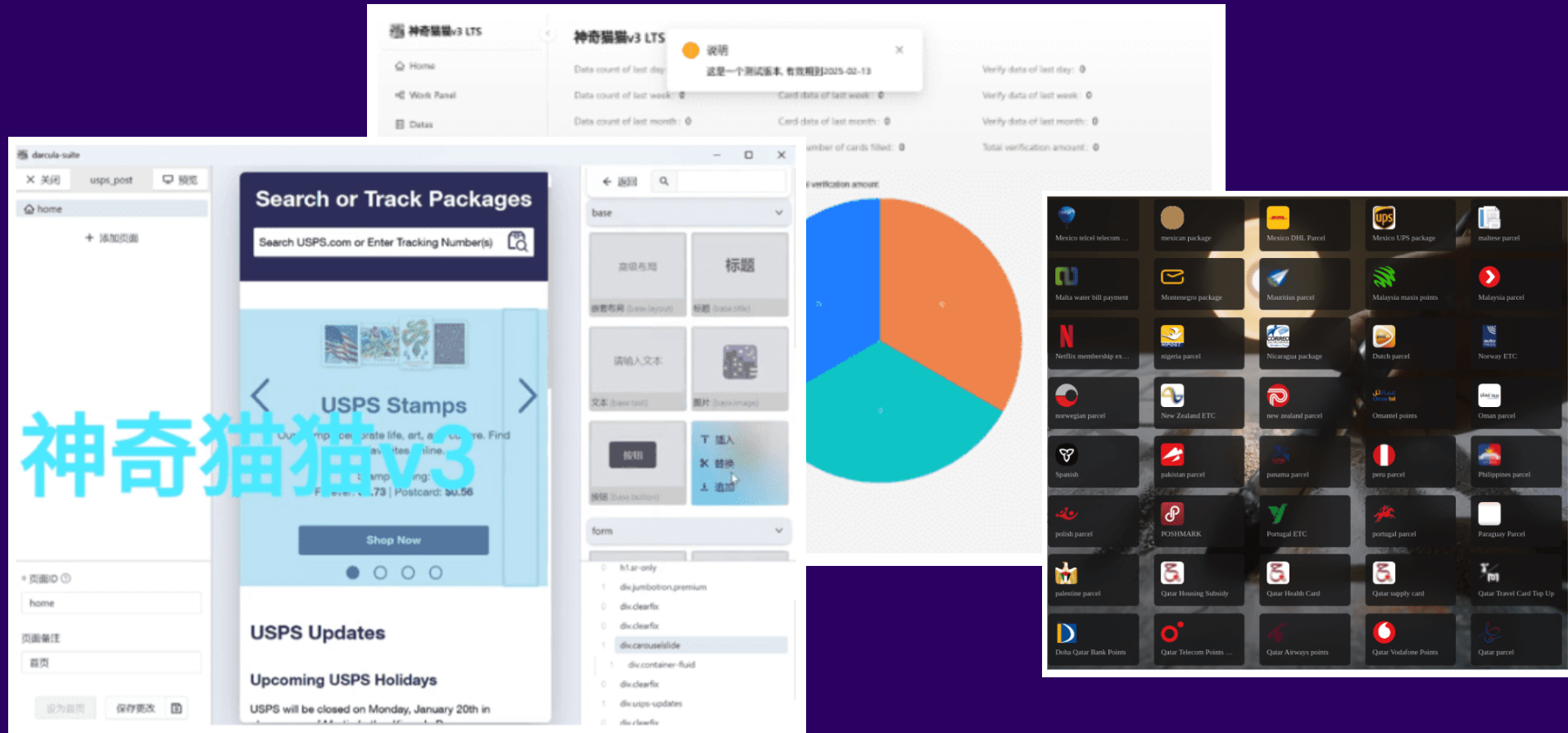


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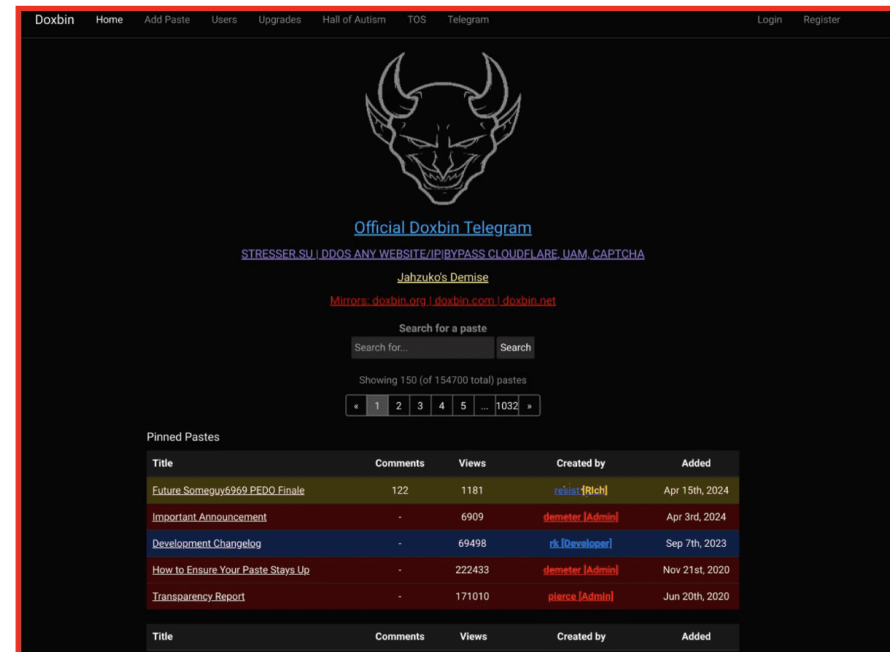
https://www.linkedin.com/posts/klaudia-kloc_story-of-how-an-ai-generated-polish-politician-ugcPost-7300929611511611395-QUeq

Phishing-as-a-Service (PhaaS) – e.g. Darcula v3



Attacker's goals

- Financial gain
- Disruption (denial of service)
- Corporate espionage/intelligence
- Embarrassment/shaming/stalking ('doxing')



Detailed research results

AI-driven fraud now a big proportion of fraud

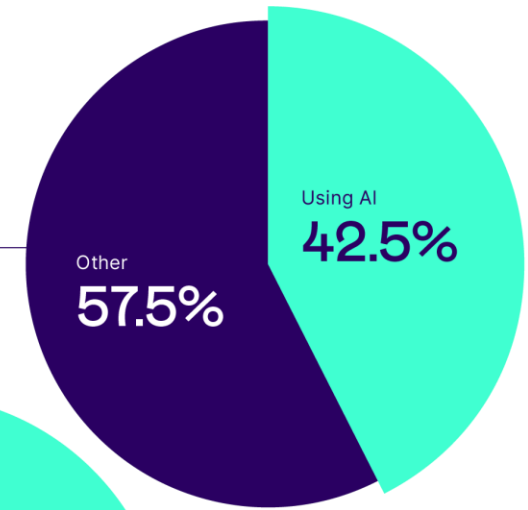
42%

of detected fraud attempts use AI

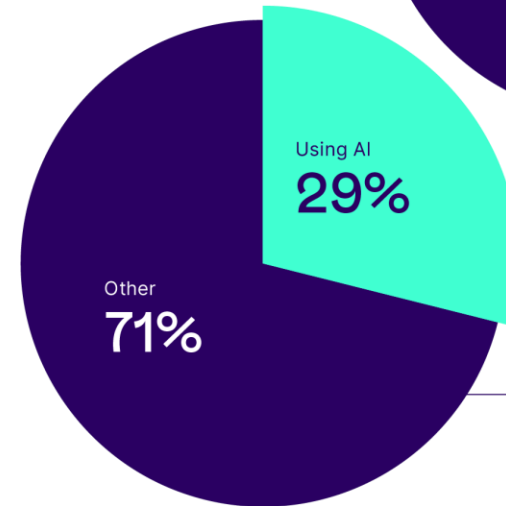
29%

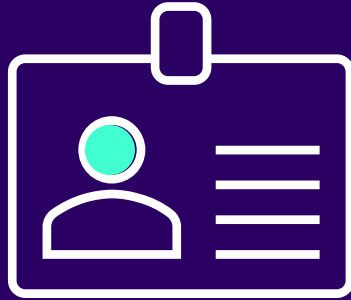
Of them considered successful

How many fraud attempts that you detect use AI?



How many successful fraud attempts use AI?





ID DOCUMENT FORGERY

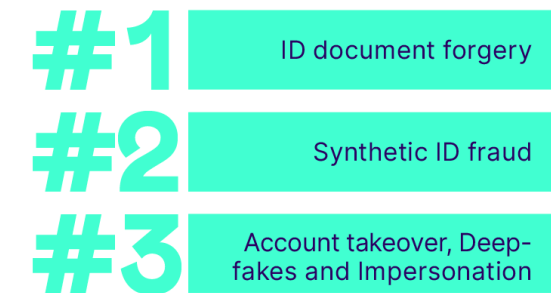
is the most common type of
identity fraud

What are the most common types of identity fraud you experience?

Three years ago



Today



ID document forgery: The practice of creating, copying, and/or altering identity documents, such as identity cards or passports, with the intent to deceive others about the identity or legal status of the holder.

Deepfakes are getting more sophisticated

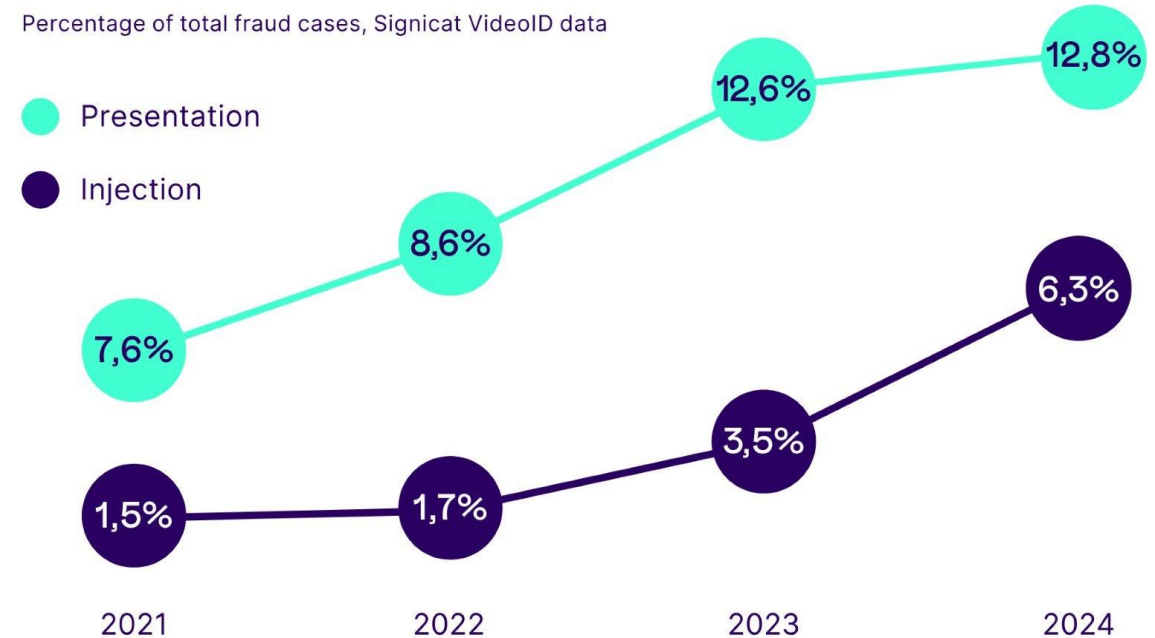
INJECTION ATTACKS
going up



While presentation attacks
are plateauing

Evolution of Presentation attacks vs. Injection attacks

Percentage of total fraud cases, Signicat VideoID data

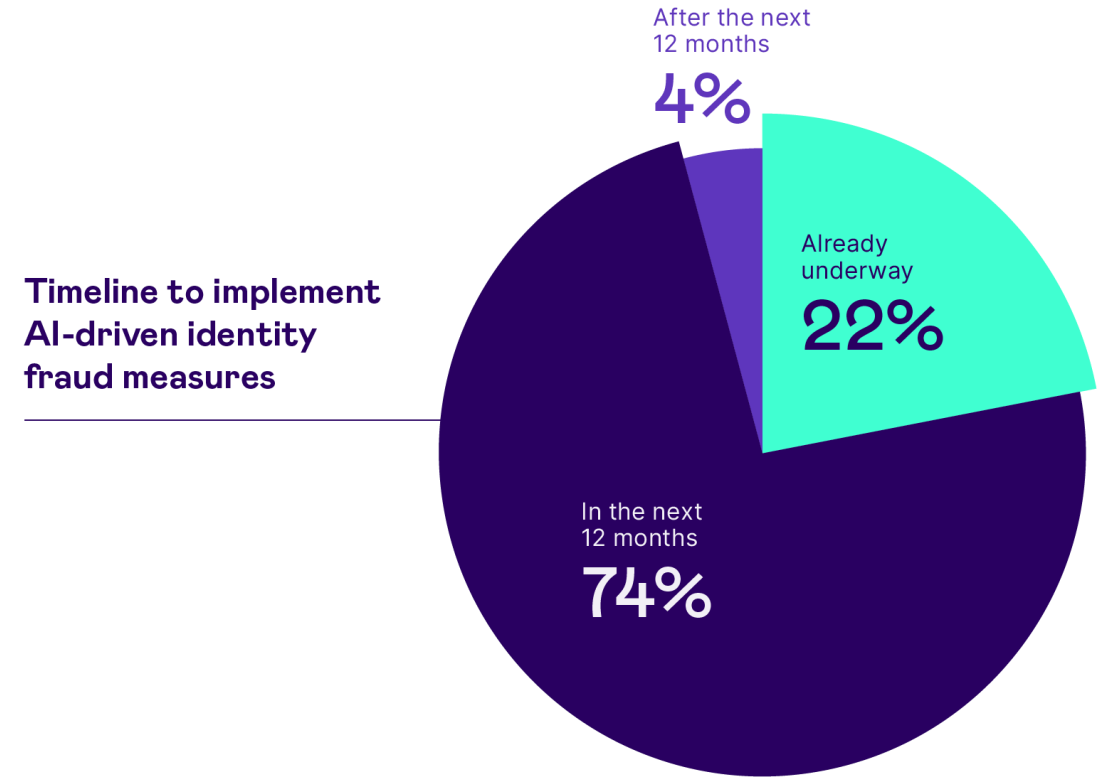


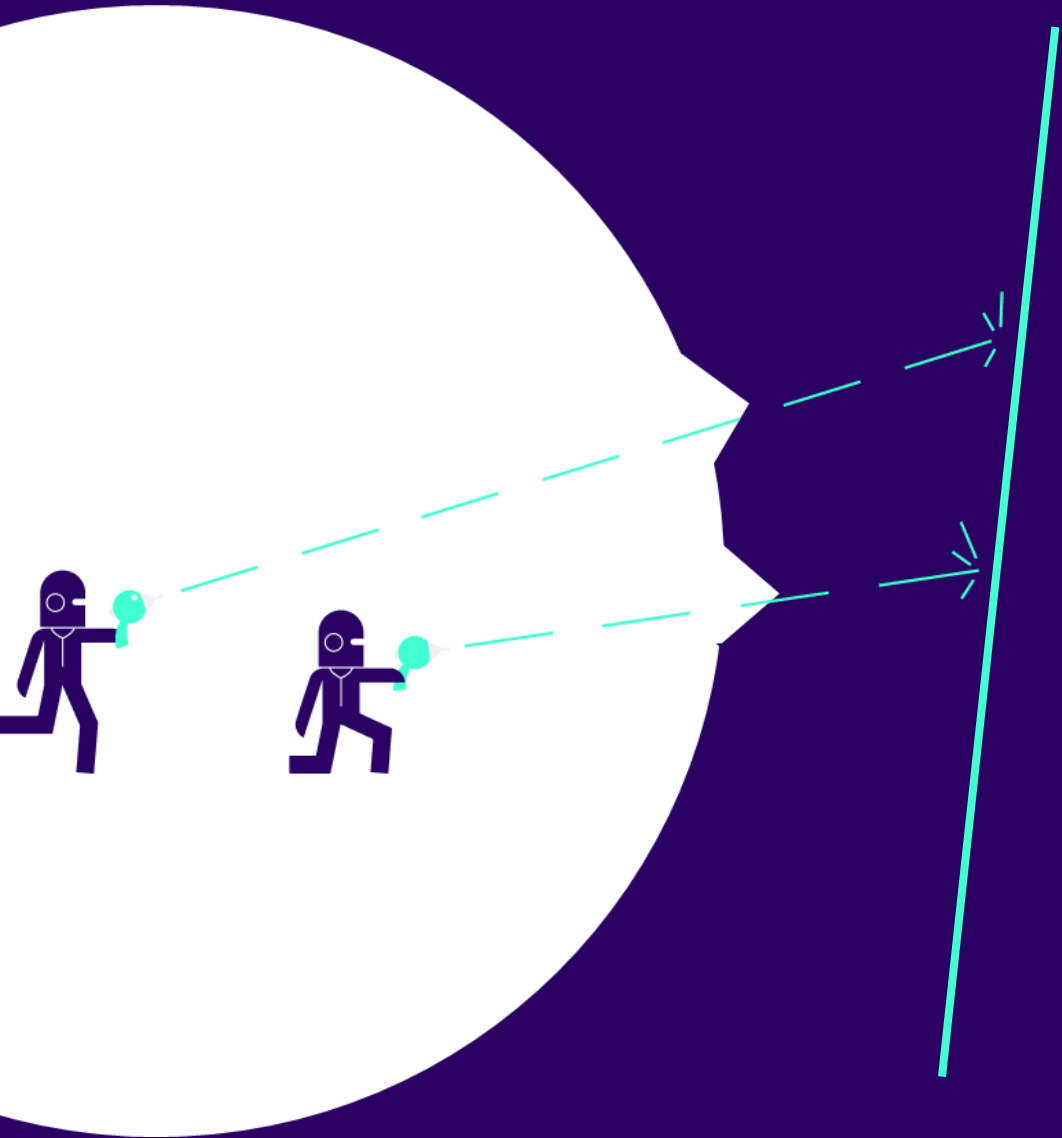
Over three-quarters of businesses prioritise AI-driven identity fraud prevention...

How are you tackling the issue of AI-driven identity fraud?



Timeline to implement AI-driven identity fraud measures





75% of respondents believe that deepfakes will never be convincing enough to fool financial institutions.



World

Africa

Americas

Asia

Australia

China

Europe

India

Middle East

United Kingdom

Watch

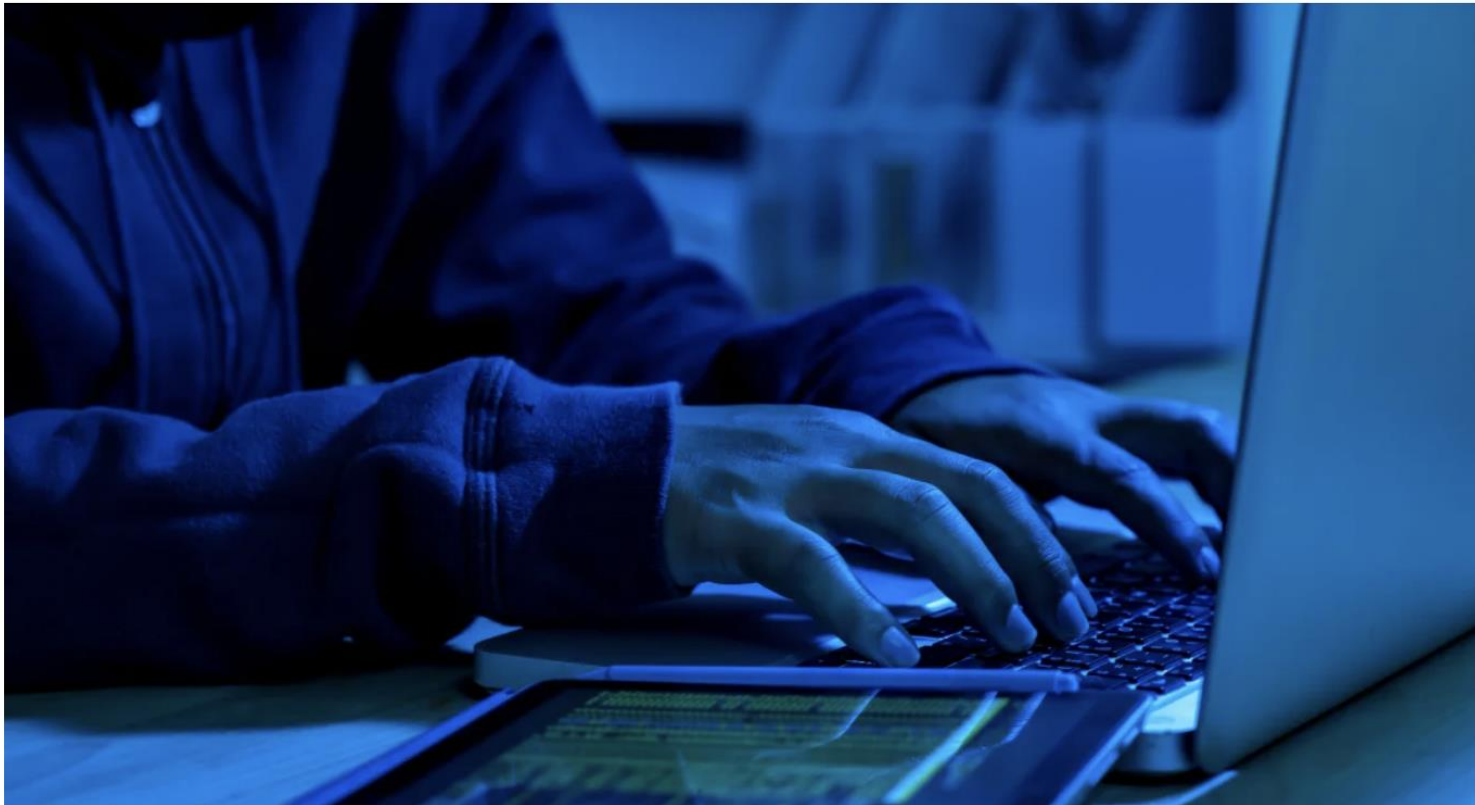
World / Asia

Finance worker pays out \$25 million after video call with deepfake 'chief financial officer'



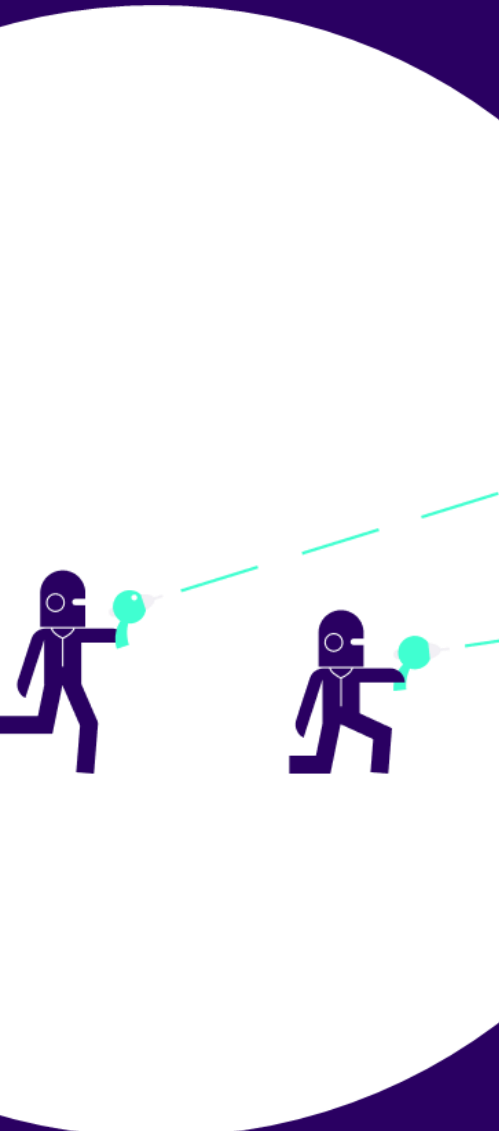
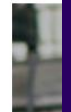
By Heather Chen and Kathleen Magramo, CNN

2 minute read · Published 2:31 AM EST, Sun February 4, 2024



ve that
vincing
stitutions.

MORE



Mitigating identity fraud

Mitigating AI-driven Identity fraud

1

A multi-layered approach

A combination of multiple technologies and techniques

2

Covering all vulnerable fronts

From onboarding and logins to payment authorisations and e-signatures

3

Battle AI with AI

Build profiles, perform pattern recognition, anomaly detection

4

Education

Organisations need to prepare employees and customers



Mitigating identity fraud with Signicat

1

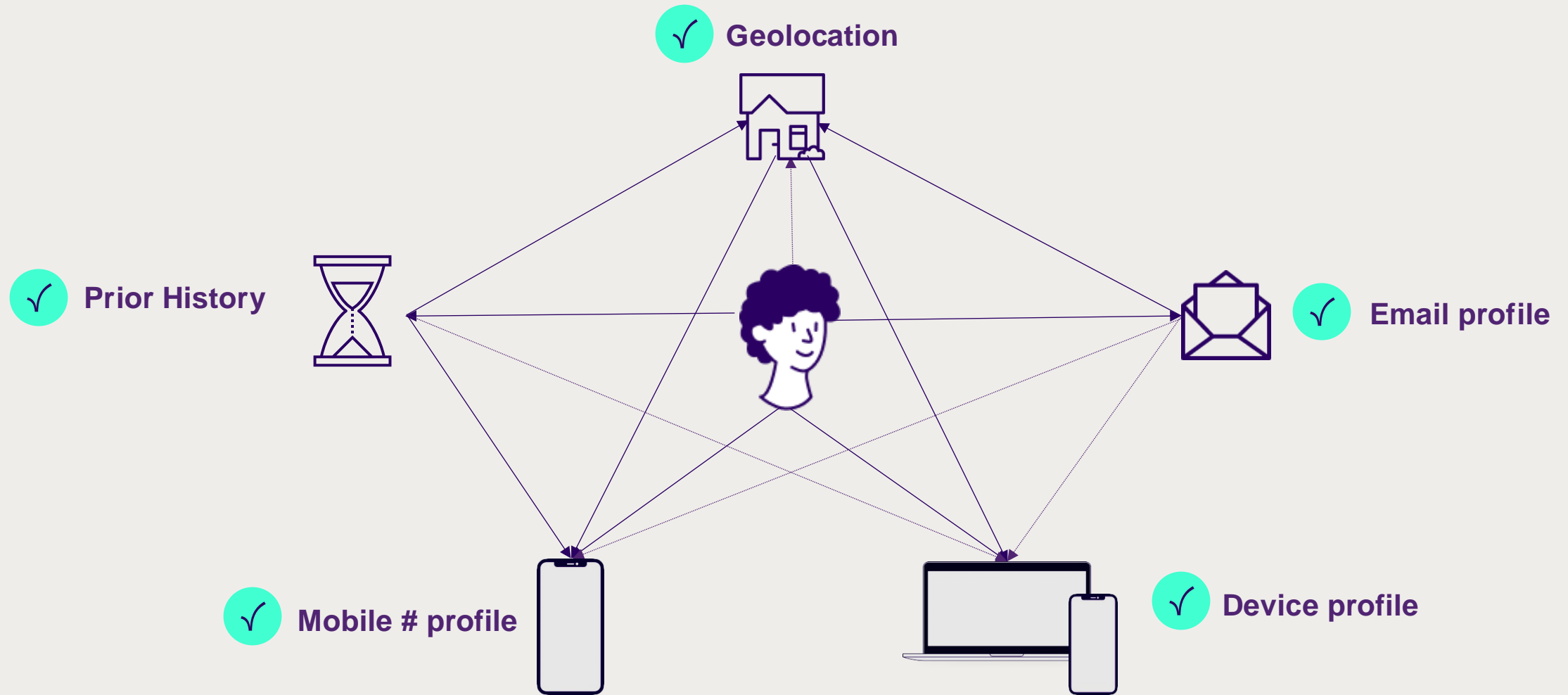


Early Risk Assessment

- Smart sequence
- Build profile



Digital profile



Mitigating AI driven identity fraud with Signicat



1



Early Risk Assessment

- Sequence
- Blacklist
- Velocity

2



Automated User Identity Verification

- eIDs
- VideoID

3



Data Enrichment & Verification

- Person
- Organization
- Risks

4



Secure login for returning users

- eIDs
- MobileID (2FA)

5



Trusted eSignature

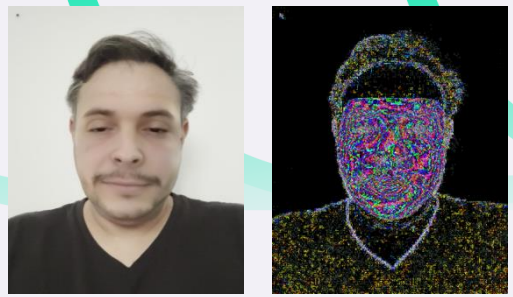
- AES & QES
- Digital Evidence Management

6



Ongoing Identity and Risk Monitoring

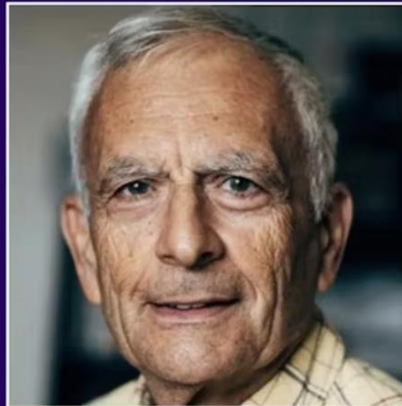
- Watchlists
- Credit rating
- Address
- Ownership



4 take-aways:

- 1 Don't rely on 1 tool, use a **multi-layered** approach.
- 2 Do risk assessments **early in a process**, lowering the barrier for 'good' customers and increasing it when identifying risk.
- 3 **Build a profile** of a customer to be able to recognize a genuine customer and their data.
- 4 Additional data verification is advised at **events**, increased **risk** or **uncertainty** about the authenticity

Quiz: spot the deepfakes

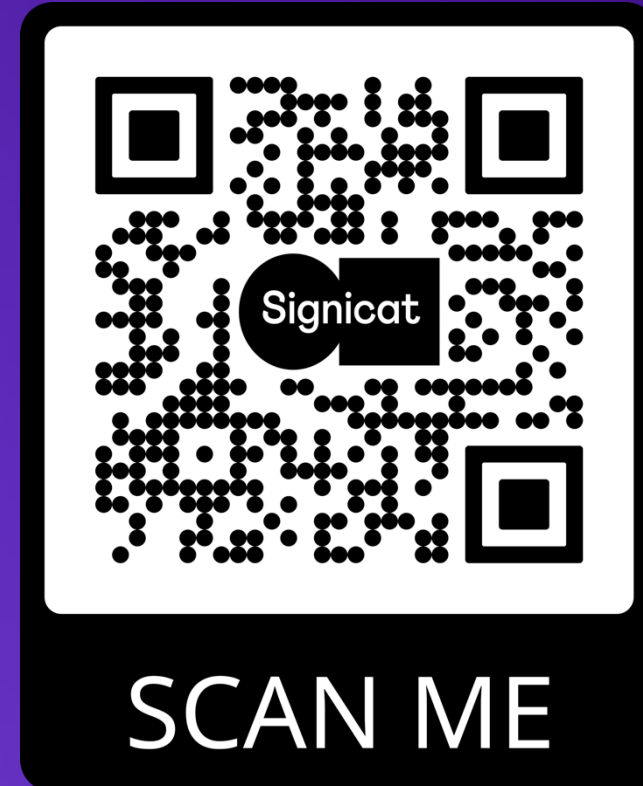




Battle Against AI-driven Identity Fraud



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