



How to fight rising synthetic identity fraud?

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Omnisecure



AGENDA



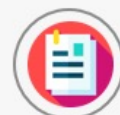
Understanding Digital Identity



Identity Fraud Landscape



Synthetic Identities – the fastest growing financial crime



The gaps within traditional KYC



How Mastercard can help

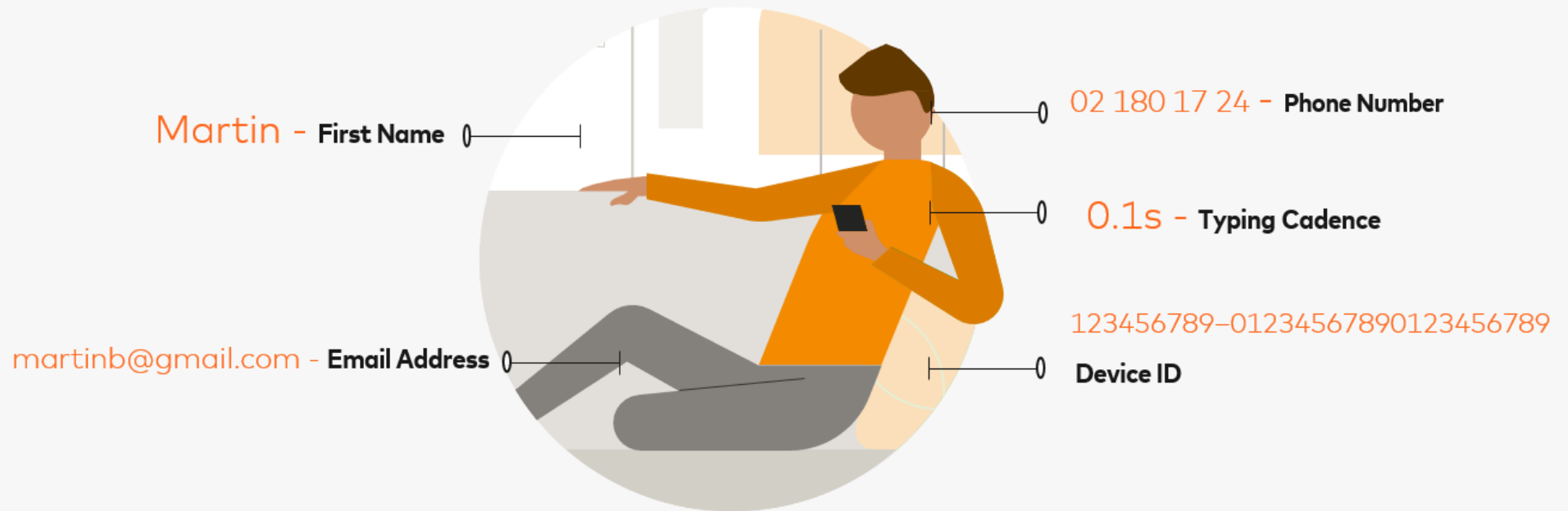




Drawn Peter Steiner, published by The New Yorker on July 5, 1993.

***"On the Internet,
nobody knows you're a dog"***

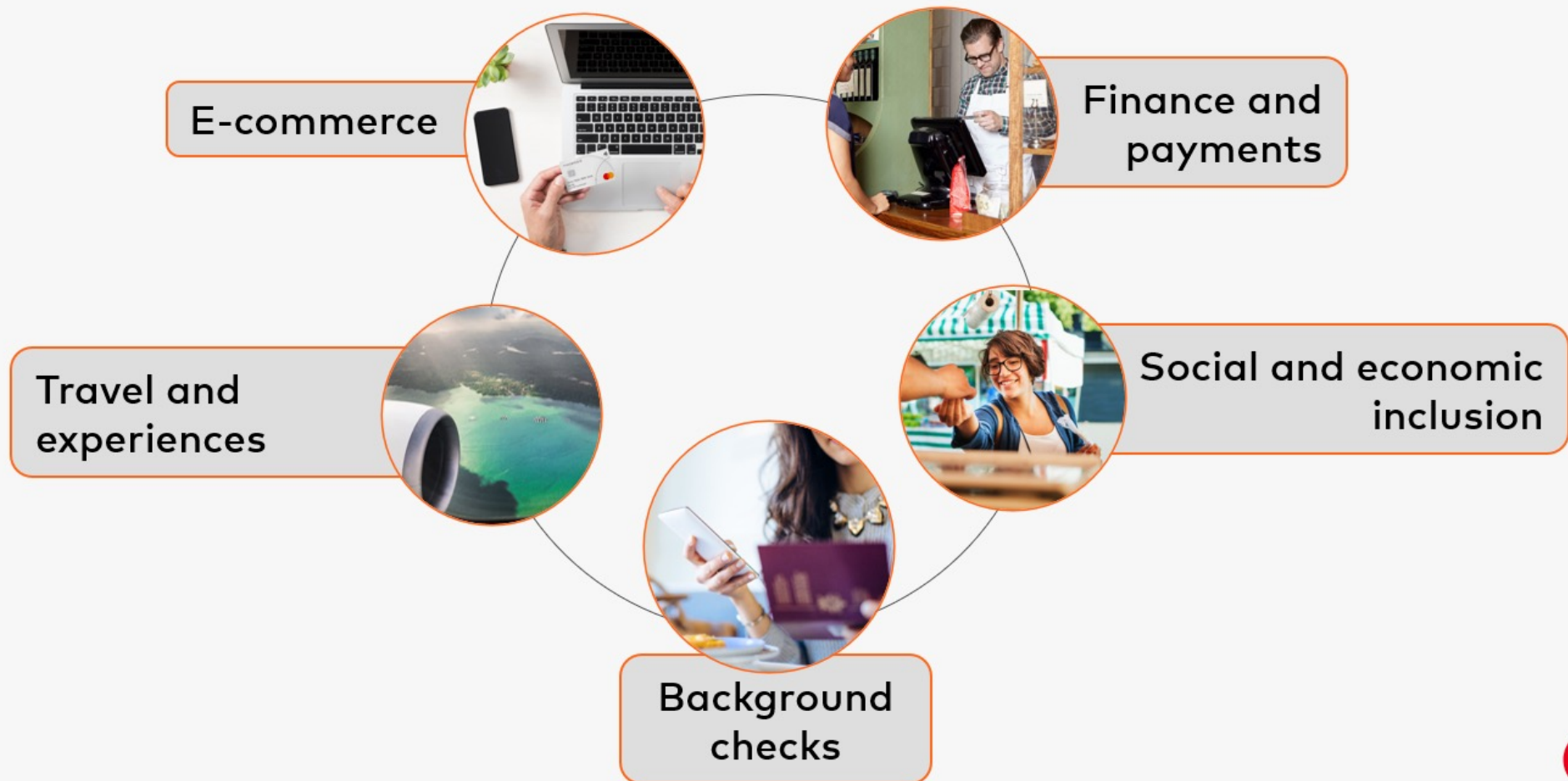
Digital Identity is the digital representation of a real-life human, company or object



Digital identity consists of different **digital attributes and behavioral patterns** that express specific aspects of the real-life entity



Identity is core to nearly every digital interaction



CHALLENGE

Identity fraud is the illicit use of a victim's personal identifiable information (PII) by an impostor to gain a financial advantage.

9%

Of Europeans became a victim of Identity fraud in the past year¹

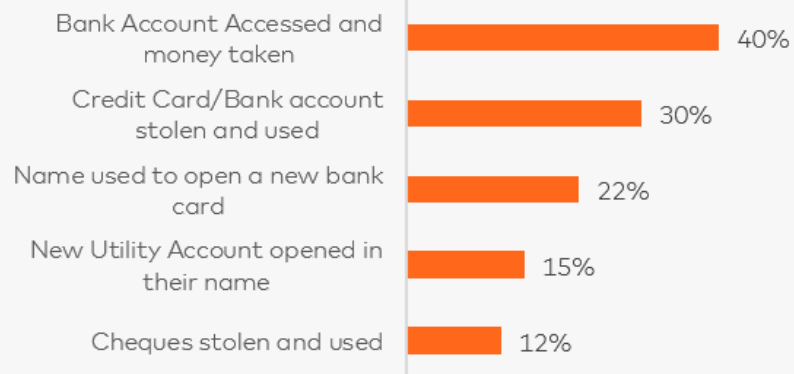
€54B

was lost globally in 2020 due to identity fraud²

€17k

Average loss per breach²

Consequences for fraud victims in the past 12 months¹:



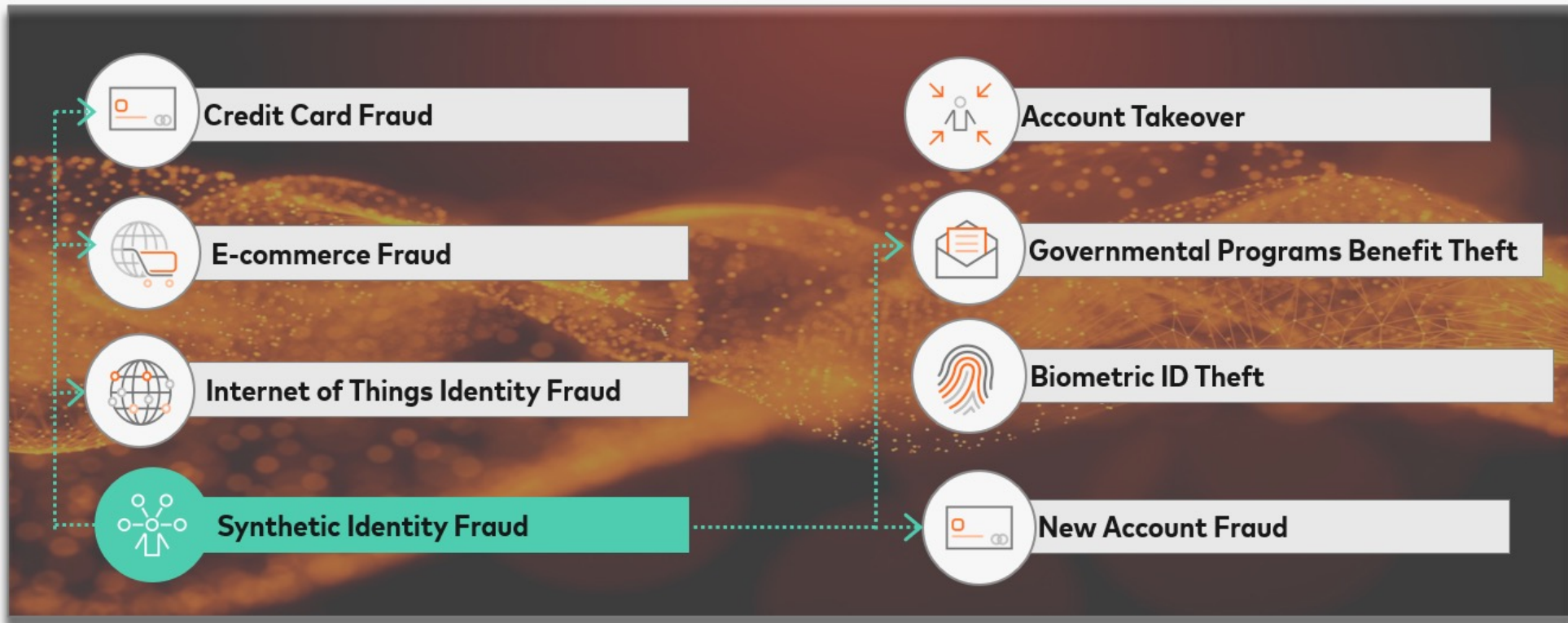
IDENTITY THEFT

Personal Identity Insights can be easily acquired and exploited by fraudsters



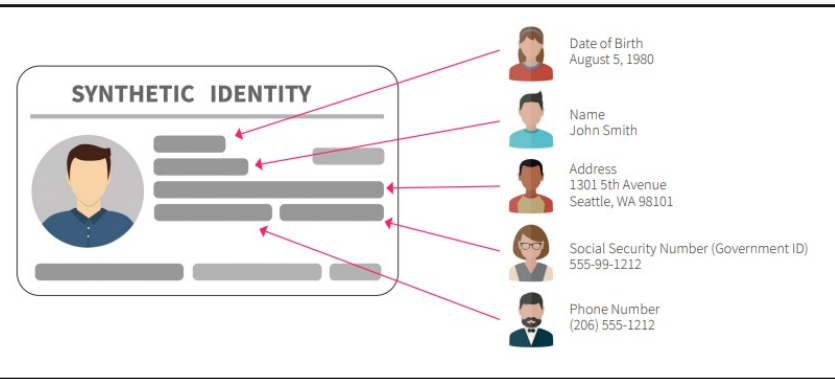
TYPES OF IDENTITY FRAUD

Identity fraud is sophisticated and fraudsters are finding new vulnerabilities



What is a Synthetic Identity?

Synthetic Identity Fraud combines stolen personal information with other fake information, to create an entirely new consumer profile



“Traditional Identity theft is a ‘smash and grab’”

“With Synthetic Identity, the victim exists nowhere except in a credit profile”

How do fraudsters make a Synthetic Identity?



Primary Personal Identity Insights Elements

Identity elements that are, in combination, typically unique to an individual or profile.



Supplemental Personal Identity Insights Elements

Elements that can help substantiate or enhance the validity of an identity but cannot establish an identity by themselves.

FABRICATION	MANIPULATION	COMPILATION
 James Bond  james.bond@gmail.com	 John Smith  js123@gmail.com	 John Smith  jane.doe@gmail.com



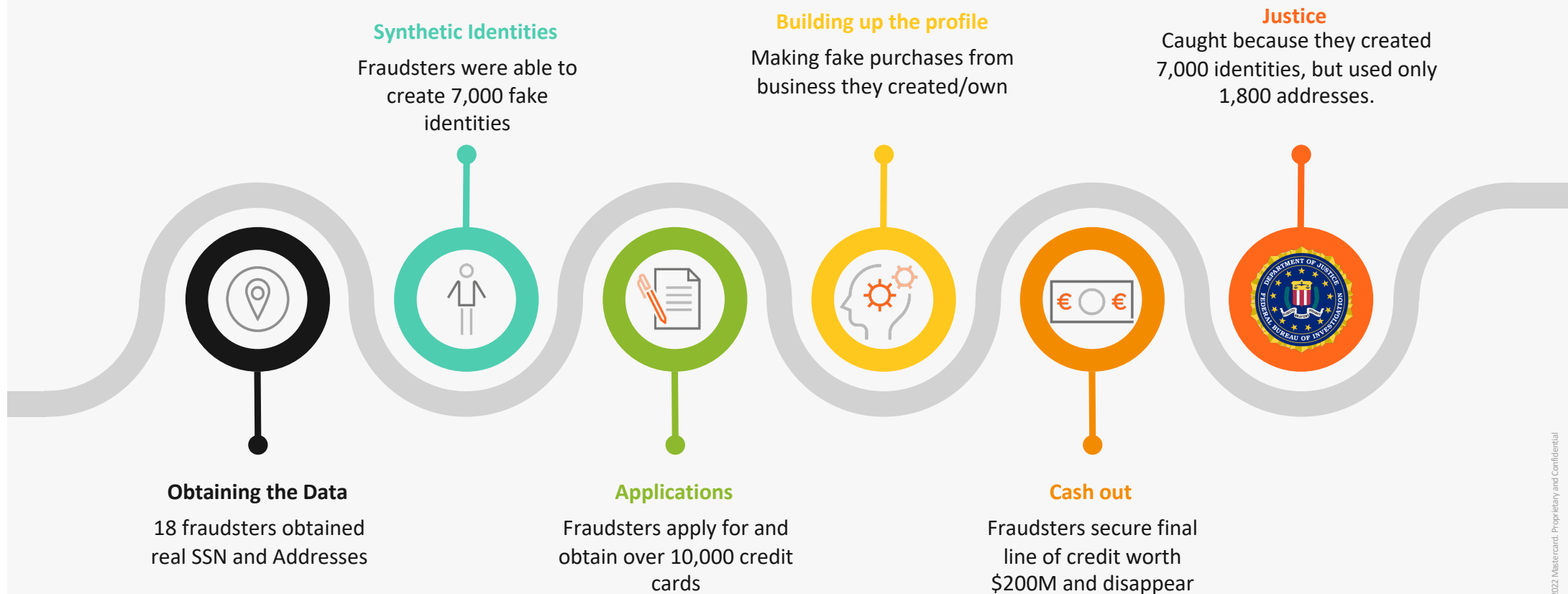
Fake Data



Real Data

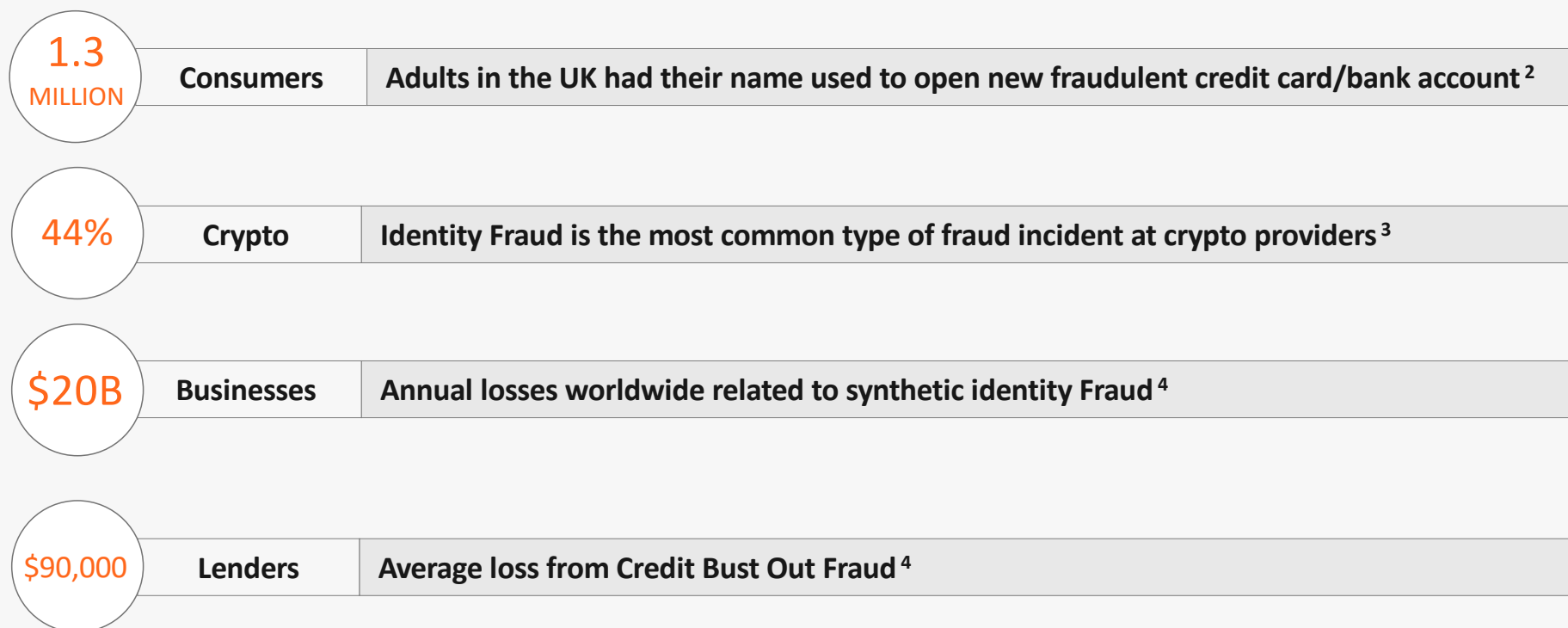


“Eighteen People Charged in International \$200 Million Credit Card Fraud Scam”



IMPACT ON INDUSTRY

As of 2020, identity theft is the second most-common type of fraud in Europe¹.



1. GRC WORLD
2. GBG THE STATE OF DIGITAL IDENTITY 2022
3. PYMNTS INTELLIGENCE: KEEPING CRYPTOCURRENCY PAYMENTS SAFE FROM IDENTITY FRAUD
4. FIVERTY 2021 SYNTHETIC IDENTITY FRAUD REPORT



IS KYC ENOUGH AND HOW CAN A SYNTHETIC ID PASS THROUGH THE CRACKS?



KYC processes rely solely on validating traditional, primary data elements that can be easily procured on the dark web and are only tangentially related to digital identity.



Phone no, email id and postal address are the most used identity elements to create synthetic identities. KYC doesn't look at the relationship between these elements¹

SSN Number \$1	Drivers Licence \$20	Utility bill \$25	Credit Card Info \$30
10 Million Email Addresses \$120	Online Payment Services Log-in Info \$20-200	Verified Crypto Account \$250	European Passport ² \$750

KYC is not fraud prevention. More than KYC is needed.



CUSTOMERS EXPECT A SAFE & SEAMLESS ONBOARDING EXPERIENCE



Expectation



92%

Expect a fast, frictionless, trustworthy, and secure online experience¹

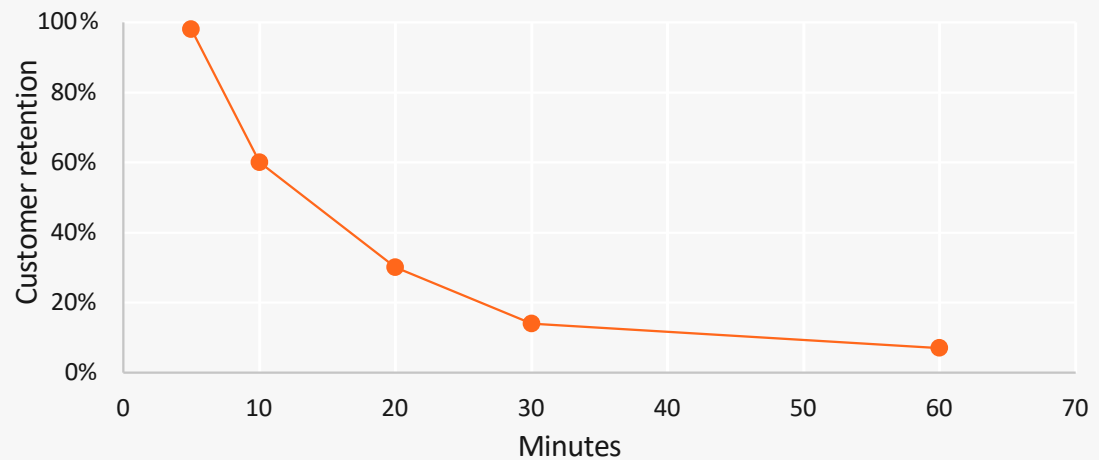
Reality

50%

Would switch to a competitor after one bad experience online²

31%

Of users express frustration at the amount of personal information required²





HOW Mastercard CAN HELP:

Strike a balance between
security, compliance and
convenience using
"EKATA"



Ekata Identity Engine

Gain data and risk indicators to help you know who your consumer is and how their information is being used online —not just in their e-commerce ecosystem



Email



Name



Phone



Address

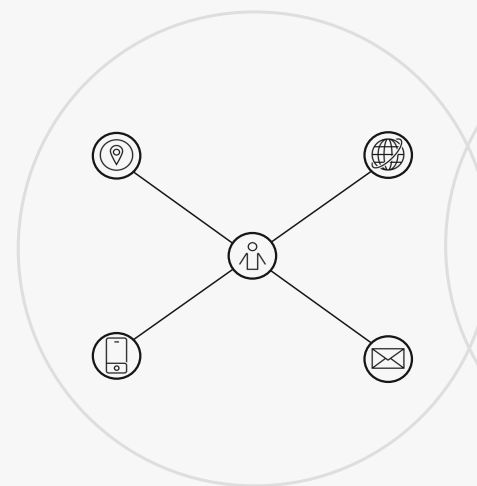


IP

Questioning identity elements

- Does this email belong to the person?
- Is this address valid?
- What type of phone carrier is this?
- When was this email first/last used?
- How many times has this address been used?

Identity Graph



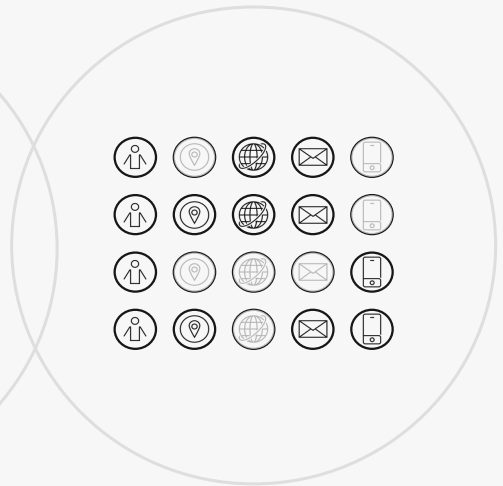
7B+

Identity
Elements

2B+

Identities

Identity Network



5B+

Digital
Interactions

50M+

Identity
Elements
added per day



EKATA API RESPONSES

Relays real-time validity checks, risk scores and linkages to help you confidently make risk decisions



Identity Risk Score

Output between 0 to 500



Identity Network Score

Output between 0 to 1



Phone

- Match to name
- Match to address
- Is valid
- Line type
- Carrier
- Last seen days
- Linked to email days



Address

- Match to name
- Is valid



Email

- Match to name
- Is valid
- First seen days
- Domain creation date
- Linked to phone days



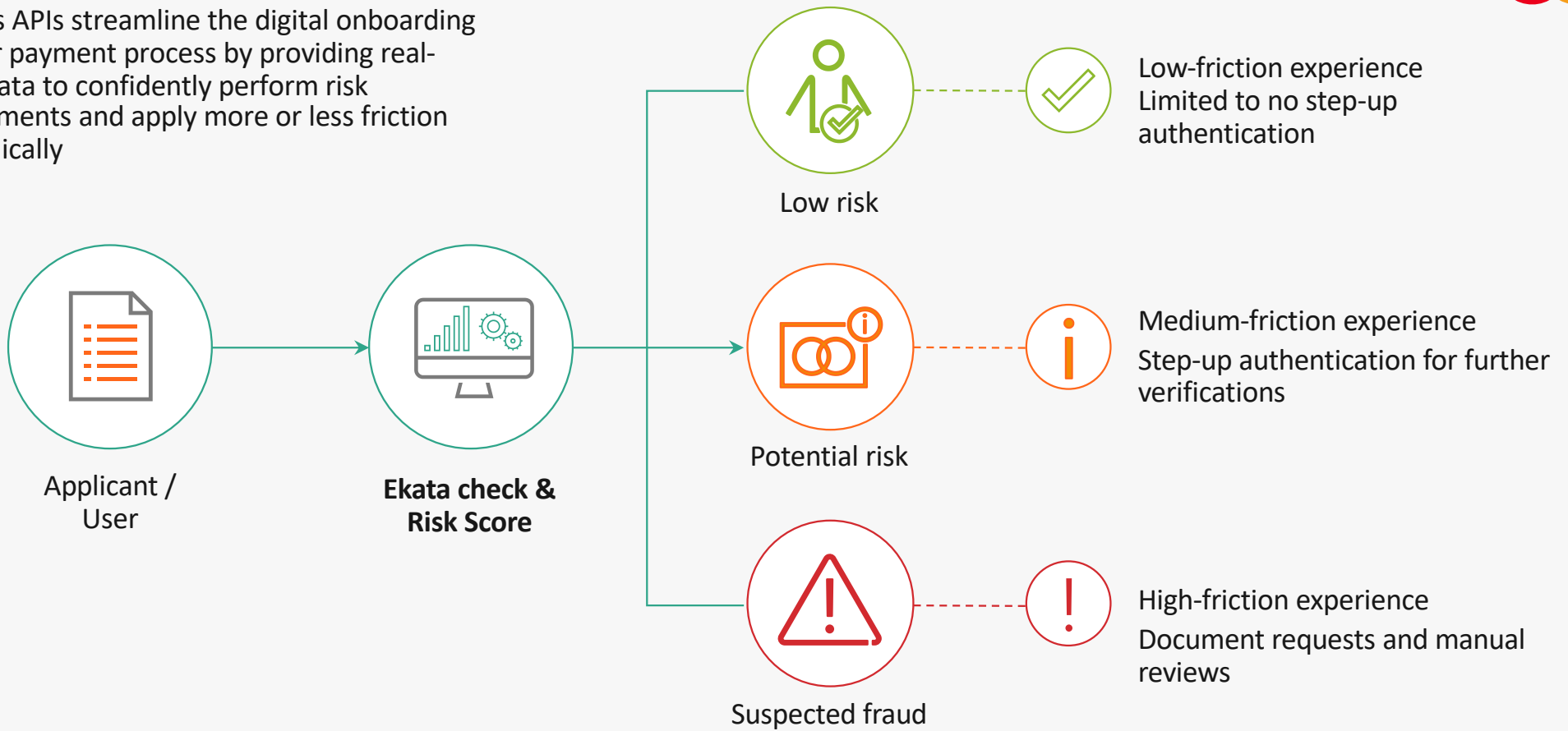
IP Address

- IP risk flag & score
- Last seen days
- Distance from address
- Distance from phone
- Country code
- Subdivision



A CUSTOMIZED ONBOARDING JOURNEY

Ekata's APIs streamline the digital onboarding and/or payment process by providing real-time data to confidently perform risk assessments and apply more or less friction dynamically



SUCCESS STORY

Decrease friction and increase conversion



Customer

- Challenger Bank



Problem

- High amount of fraud observed at sign-up
- Too many good customers going through high-friction processes or abandoning
- Aggressive growth plans needed a change in new account flows online



Result

- Empowered the FI to redefine their onboarding KYC processes – by balancing risk management and security considerations, based on their risk profile.

29%

Decrease in
Fraudulent
Accounts

42%

Increase in sign-
ups by good
customers



Thank you!

To find out more about the product presented today or to share your experiences with synthetic identity fraud – please reach out to your Account Manager or directly to Carsten Mürl

Carsten.muerl@mastercard.com

