

High Integrity Identity Programmes

Lawtrust an
information security solutions **ETION** company

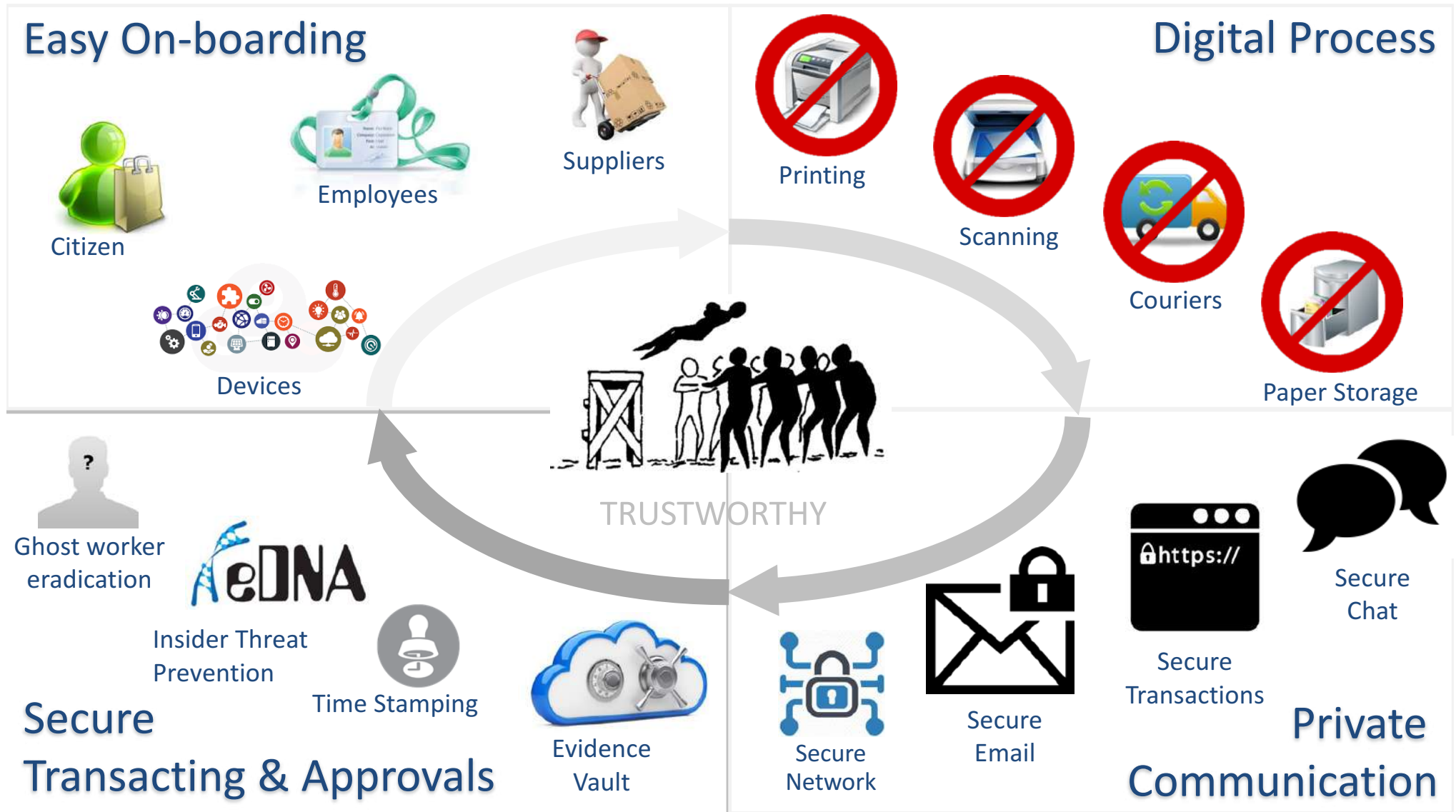
ETION

Create | Digitise | Connect | Secure

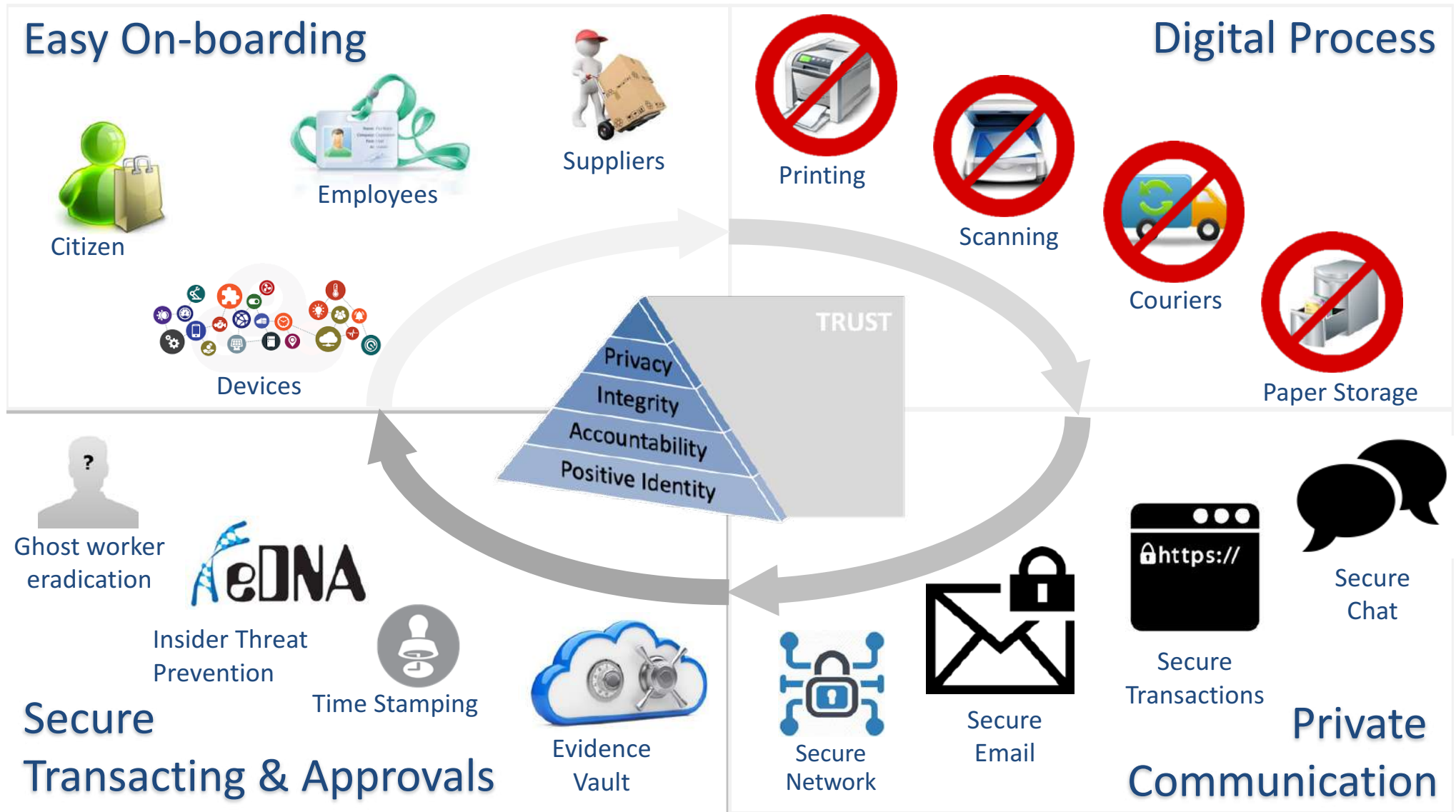
We touch people's lives daily



Agile Identity Programme Requirements



Agile Identity Programme Requirements



Types of threats we talk about



Types of threats we don't discuss

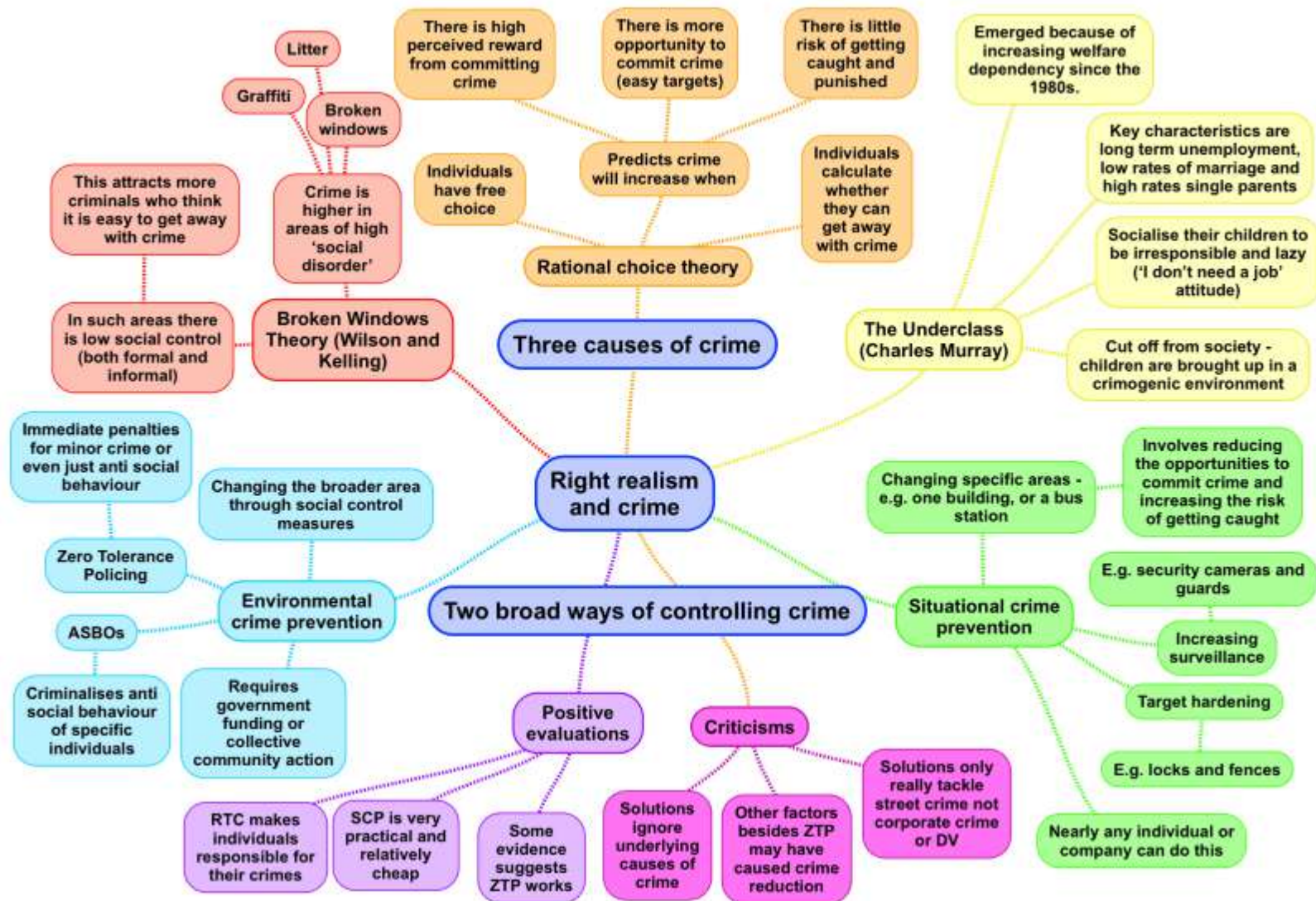


Profile of a business insider

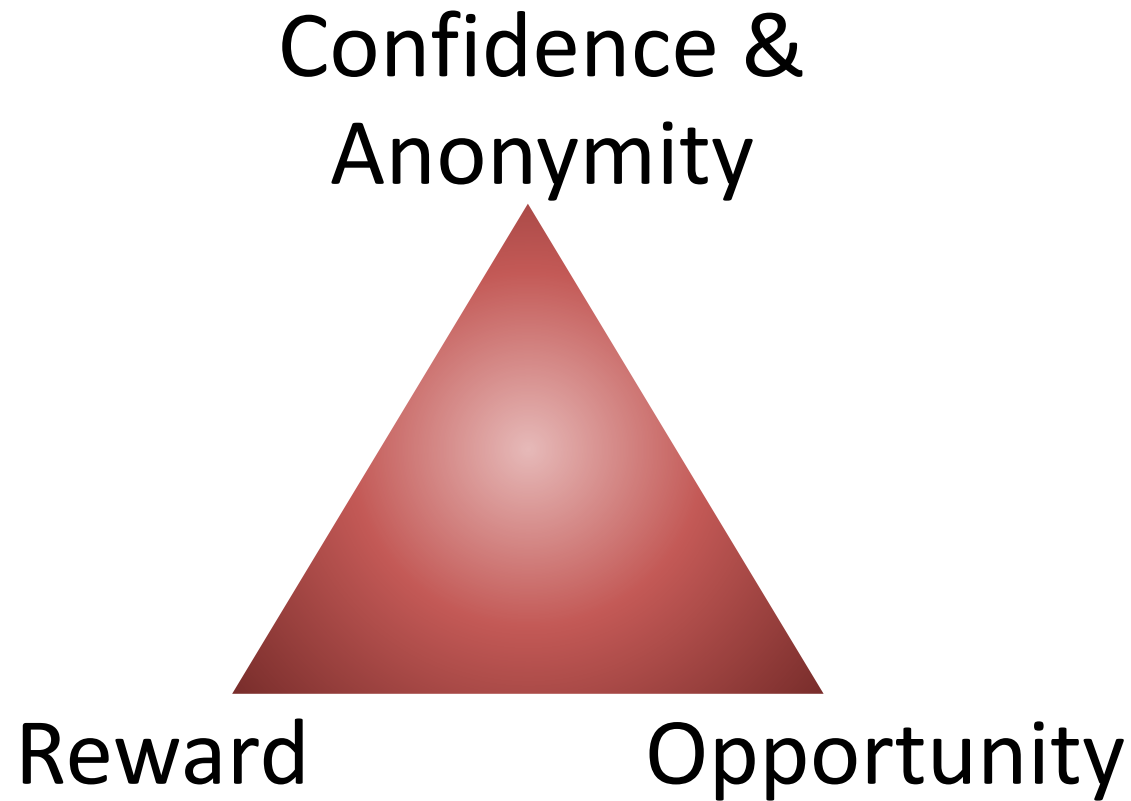
- Normal people
- A business role e.g. immigration official, identity management official, treasury, procurement, payroll
- Exposed to finances or sensitive business actions



A little bit of criminology

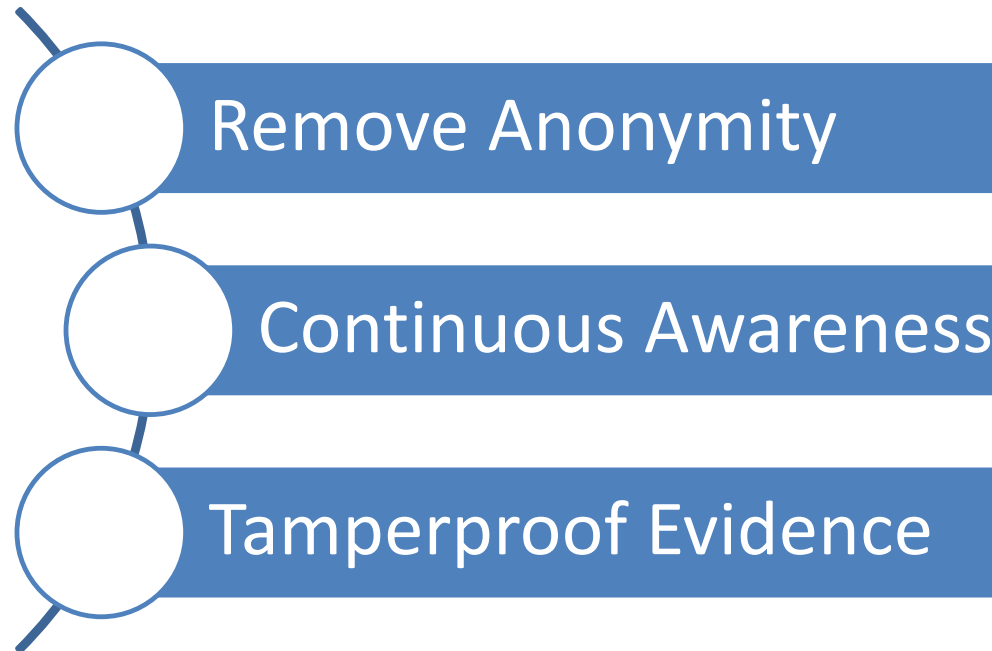


Our summary observation

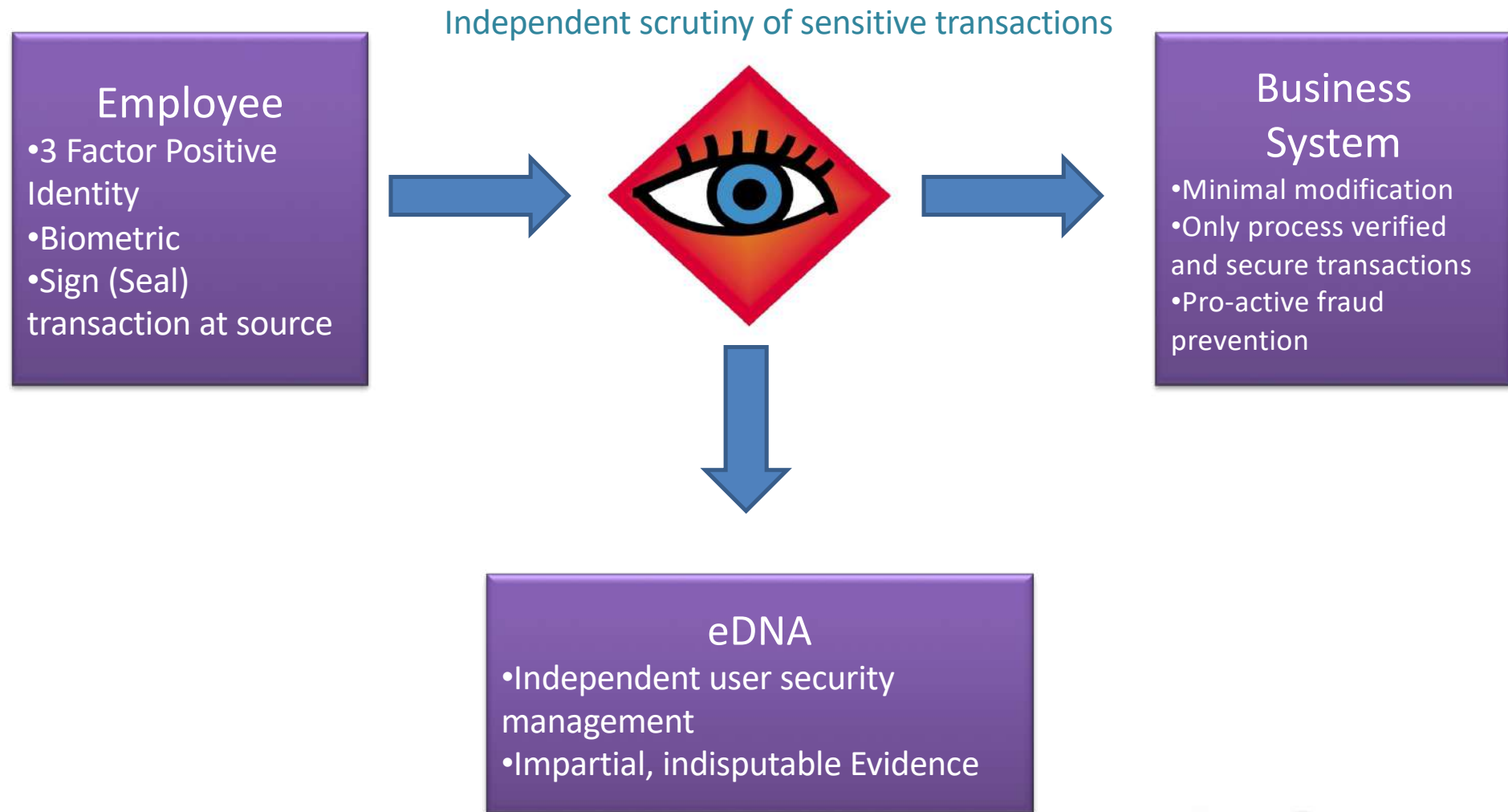


The Insider threat prevention Concept

Behaviour Change



ITP solution concept



Biometrics – the ultimate awareness tool

eDNA Biometric Enrolment Details SABIR 1 NCPT TEST -

Home > User Enrolment Process > You are Enrolling User ID: 1035, Name: Sabir Behera

Left Hand

0	0	73%	0	0
0	0	74%	0	0

Right Hand

0	0	82%	0	0
0	0	86%	0	0

Exceptions

- ☐ Disable Left Hand
- ☐ Disable Right Hand

Functions

- ☒ Verify All Captured Fingers
- ☐ Set Default Finger
- ☐ Reset Enrolled Fingers

Color Legend

- Not Enrolled
- Enrolled Fingers
- Captured Fingers
- Verified Fingers
- Default Finger

SABIR 1 NCPT TEST eDNA Message:- Finger8 second captured successfully.

Wed Dec 06 2017 2:36:26 PM
©2017 - eDNA, Version: 3.0.0.0

eDNA Authentication Service - NCT_Dev

User SmartCard

Name: SABIR 1 NCPT TEST
ID: 1004

Smartcard Present: ●

Enrolment Officer Card: ●

Smartcard Status: Normal Card

Smartcard Serial: 1055026070954859

Domain: NCT_Dev

Applet: 2048 Applet

Certificate Serial: 51143F6E

Certificate Start: 20/01/2016

Certificate End: 20/01/2019

Signature Count: 1878

Signature Timestamp: 06/12/2017 14:30:43

[View Transaction Accounts](#)

[View Smartcard Properties](#)

Smartcard Reader

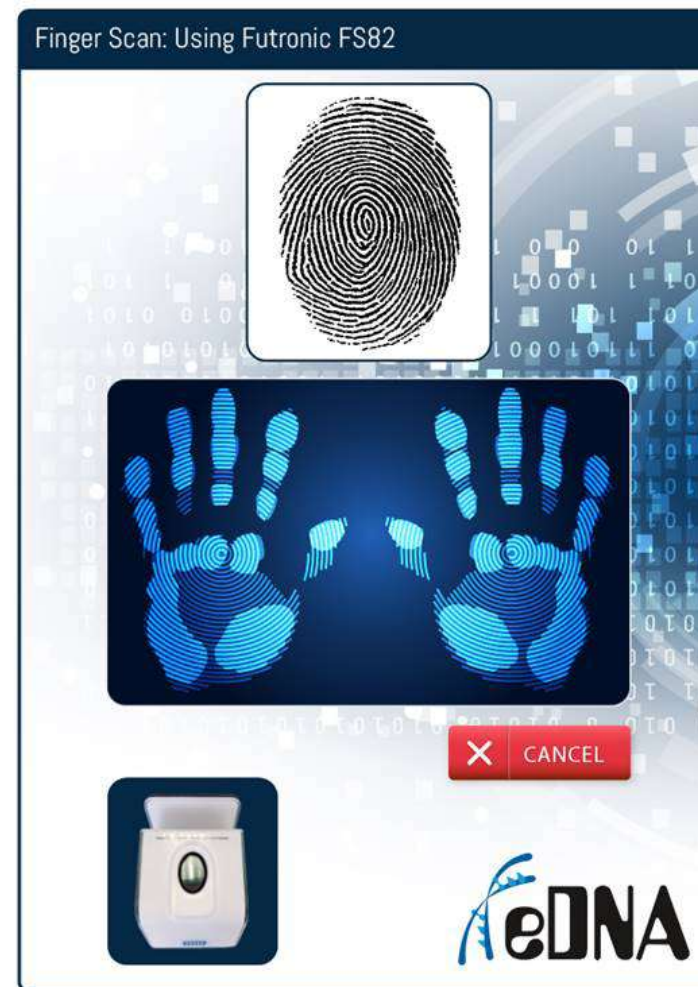
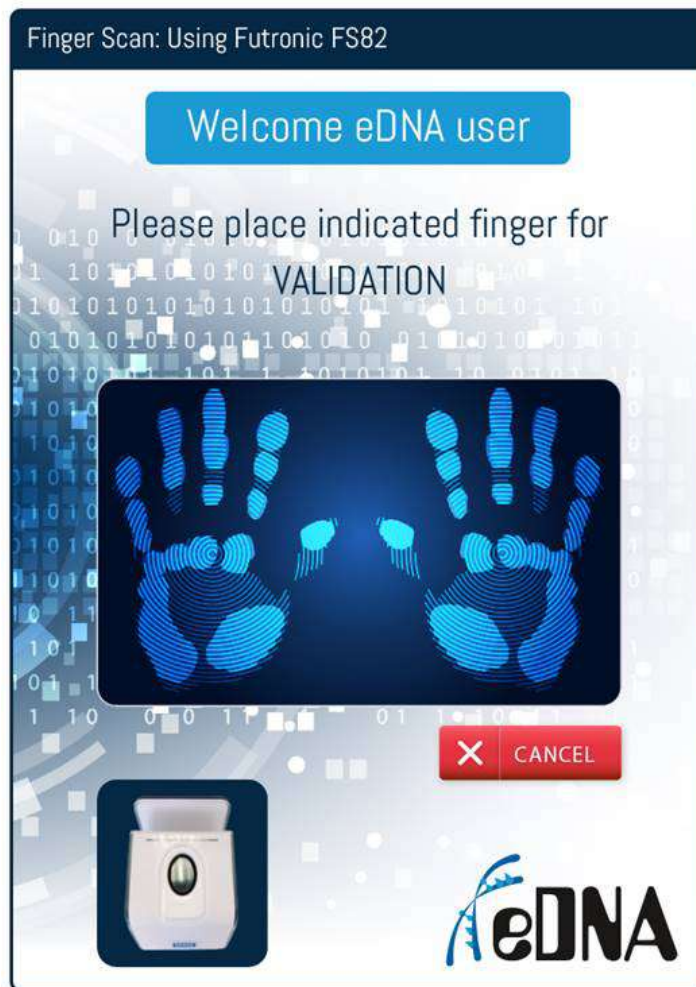
USB Smart Card Reader 0

● No Reader





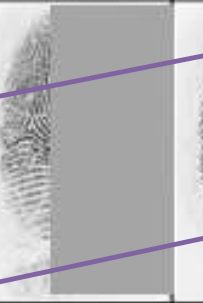
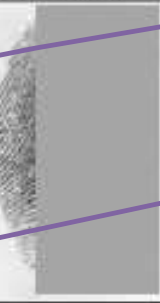
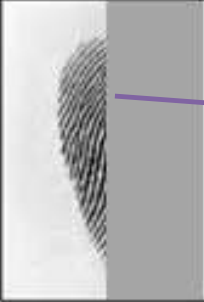
Primary Biometric

Version: 3.1.3.35
2017/12/06 14:40:00

Mandatory fingerprint and signature to approve



Forensics – Proof of Enrolment

Enrolment Data					
Left Hand 4th Finger Image 1	Left Hand 4th Finger Image 2	Right Hand 2nd Finger Image 1	Right Hand 2nd Finger Image 2	Right Hand 3rd Finger Image 1	Right Hand 3rd Finger Image 2
					
User Details	<p>Name C [REDACTED]</p> <p>ID Number 7 [REDACTED]</p> <p>PKI Serial # 0x487f6a26</p> <p>Enrolled Date 2009/02/25 03:46:52 PM</p> <p>Enrolled By M [REDACTED] (004039)</p>				
Validation Image	Enrolment Officer's Certificate Details				
	<p>Name M [REDACTED]</p> <p>PKI Serial # 0x487f67e2</p> <p>Expiry Date 2012/02/17 02:13:13 PM</p> <p>Issue Date 2009/02/17 01:43:13 PM</p> <p>Status OK</p>				

Three fingers enrolled twice each

Face 2 face with ID book capture

Enrolment officer name

Enrolment officer (EO) Digital signature

Enrolment officer Fingerprint capture

Forensics – Complete record of what occurred

Submitted Page

FERSAL 5.8.5(02) PERIODIC REGISTRATION - KINI LOCK GO & TRAD INSTATE 2009-03-17 11:36:55.4

FERSALNO: [REDACTED] INVALID BANK

IDENTITY NUMBER.....

ALLOWANCE CODE..... 0304 PERIODIC PAYMENTS MAIN OFFICE

REFERENCE..... 1

SUPPLEMENTARY..... Y COMPONENT: 00000 PAYPOINT: 002739

RECURRING..... N

PERIOD WORKED-START... 20090128

-END... 20090128

MONTHLY AMOUNT..... 140.00

TARIFF.....

DAYS WORKED.....


OK

HOURS WORKED..... MINUTES.....

RESPONSIBILITY..... 7032

OBJECTIVE..... 407182

PRICE REFERENCE.....

Validation Image	User's Certificate Details	Non Repudiation Data Signature
	<p>Name Charles Doyoon</p> <p>PKI Serial # 0x487f6a26</p> <p>Expiry Date 2012/02/25 01:51:20 PM</p> <p>Issue Date 2009/02/25 01:21:20 PM</p> <p>Status OK</p>	<p>Request # 12372831181913797</p> <p>Server 10.200.200.138:8777</p> <p>PKI Serial # 20345693881562378009</p> <p>Status OK</p>

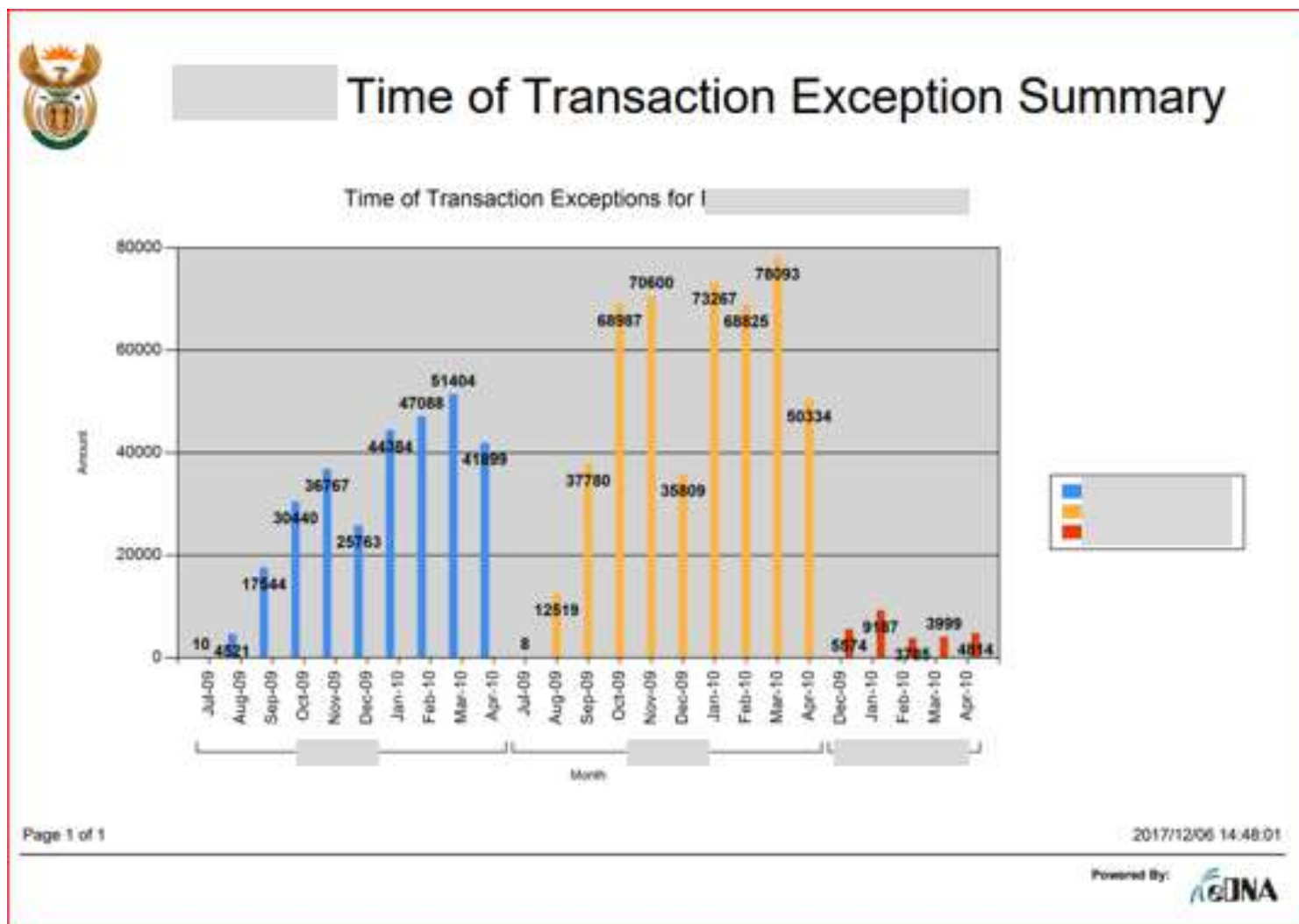
Changes captured

Fingerprint to commit

Card present digital Signature of transaction

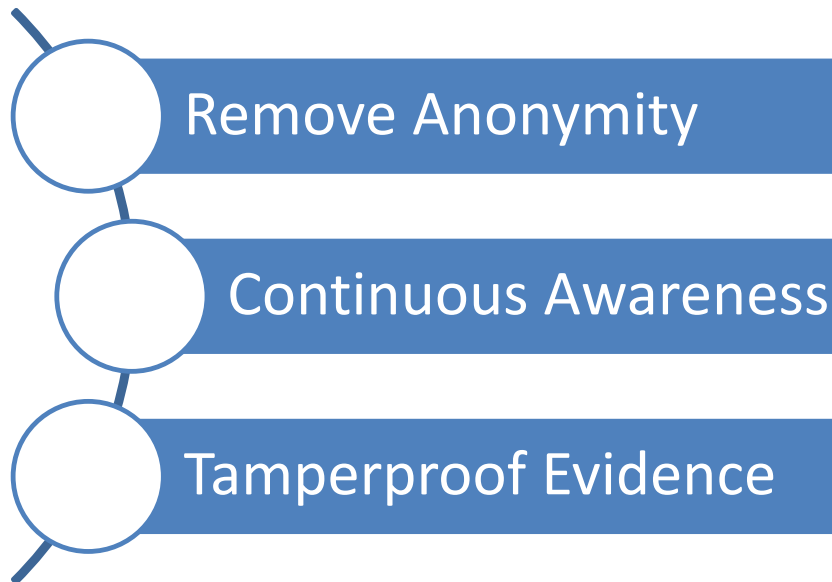
Received and time-stamped by Evidence Vault

Exception reporting



Conclusion

If you want to protect ID infrastructure start with the inside



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 maeson.maherry

If you would like to further discuss how national identity management infrastructure can be assessed and protected, please feel free to contact me.