

BANKSERVAFRICA





### MUTUAL DATA POOLS & FRAUD DETECTION CLAUDIA FAH FRAUD ANALYTICS



# Are you the lucky Capetonian who won R232 million in the #Powerball draw?

WESTERN CAPE / 20 FEBRUARY 2019, 11:27AM / SIPHELELE DLUDLA



From: Information Desk <info@euroonlinelottery.com> Subject: EU / Commonwealth Lottery Promotions

Your email address was selected to claim the sum of \$ 500,000.00 in the 2011 European lottery.

To claim your prize, please contact our agent in Lagos, Nigeria. Contact person: Mr. Marshall Ellis e-mail: <u>marshallellis11@live.com</u> Phone: +2348036954742 Congratulations!

Vincent Kilkenny (Coordinator)

MY NAME IS MR RICHARDSON WILLIAMS. RICA GENERAL ACCOUNTANT MANAGER.WE ARE APOLOGISE FOR THE INCONVENIENCE THE NATIONAL LOTTERIES BOARD IN CONJUNCTION WITH NELSON MANDELA CHARITY FOUNDATION . SAID THAT, YOU HAVE TO DONATE R7050, FOR S.A CHARITY FOUNDATION BOARD, TO IMPROVE THE STANDARD OF NELSON MANDELA CHARITY FOUNDATION, BEFORE YOUR WINNING CHEQUE OF R450,000:00,WILL BE DELIVERED INTO HOME ADDRESS [XXXXX]. CONTACT MR JOHN OWEN ON (021) 827 0804 PAYMENT INSTRUCTION .THANKS MR RICHARDSONS WILLIAMS. NOTE THAT THIS IS THE LAST PAYMENT.

(SA MOTORS CLAIM DEPT) YOUR BRAND NEW VW POLO CAR IS READY TO BE DISPATCH TO YOUR ADDRESS BUT YOU HAVE TO MAKE A DEPOSIT OF R2,988 FOR INSURANCE AND DELIVERY CHARGES. FOR PAYMENT CONTACT OUR OFFICE ON (021-828-1850). THANKS.



#### Thu, 30/07/2015

Omo Washing Powder Has Awarded You With.R200.000(Ref No 01SA).For Claim Contact Mr.David On 0765655052. 20:36

TOYOTA COMPANY HAVE REWARDED YOU WITH A BRAND NEW TOYOTA YARIS CAR 2015,REF NO;SA25LK.FOR CLIAM CONTACT US VIA 0723389163.

Enter message

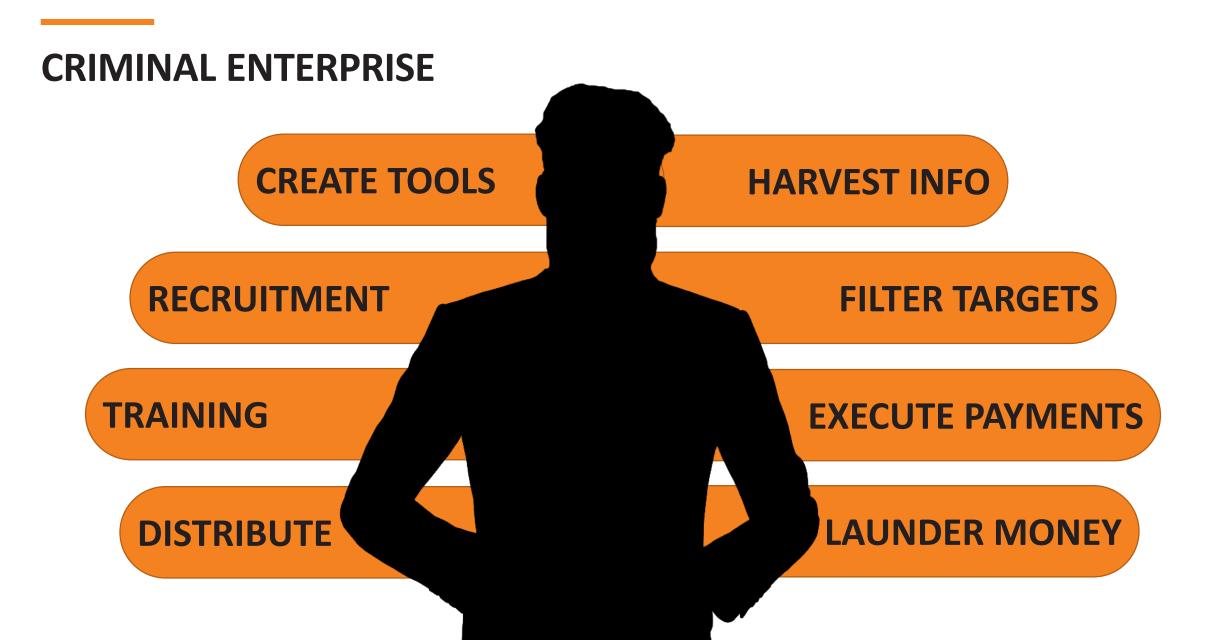
21.00

ECONOMIC CRIME **77%** of SA Organisations have

experienced some form of economic crime

**Economic crime continues** to be the most pervasive crime impacting SA's organisations

Trevor Hills, Forensic Services Leader for PwC Southern Africa



### WHAT CRIMINALS COUNT ON

AUTHORISED PUSH PAYMENT BENEFICIARIES ARE GENERALLY UNVERIFIED

AFTER THE MONEY HAS LEFT YOUR BANK, YOU HAVE NO WAY OF DEFENDING YOUR CUSTOMER

INSIDERS THREATS BYPASS CONTROLS AND EMPLOYEES ARE JUST AS VULNERABLE AS CUSTOMERS

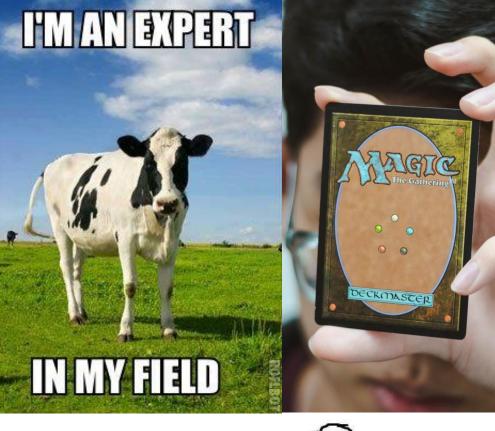
## 30 THOUSAND AT RISK

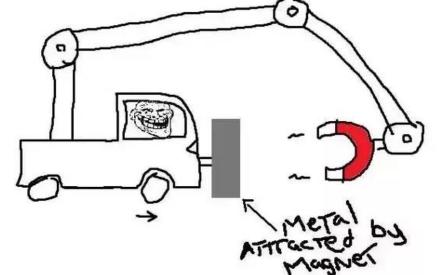
### 1.5 BILLION APP PAYMENTS

in min

50 000 : 1

FINDING THE NEEDLE IN THE HAYSTACK

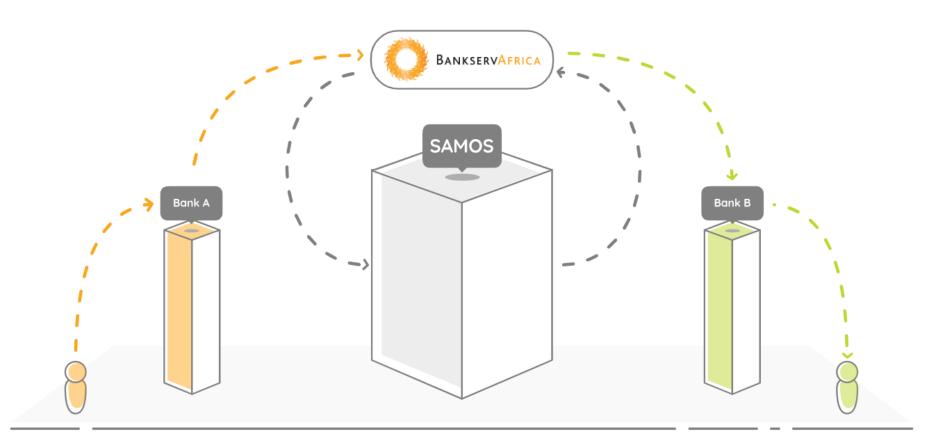






### OVER 3 BILLION PAYMENTS

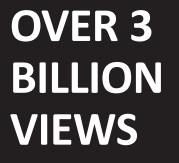
R11 TRILLION



key payment systems at maximum cost-efficiency and minimum complexity

seamless interbank switching, clearing and settlement

ensuring increased interoperability between banks





Search



#PSY #싸이 #GANGNAMSTYLE PSY - GANGNAM STYLE(강남스타일) M/V

3,308,059,740 views

15M 🕊 2.1M → SHARE =+ SAVE +

## MUTUAL SUCCESS





**Canadian National Insurance Crime Services** 

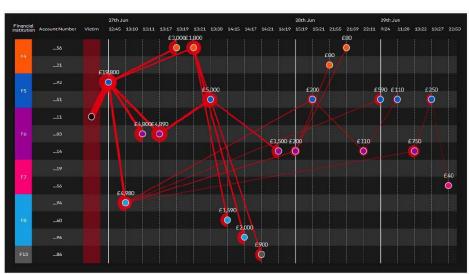
## **ActionFraud**

National Fraud & Cyber Crime Reporting Centre

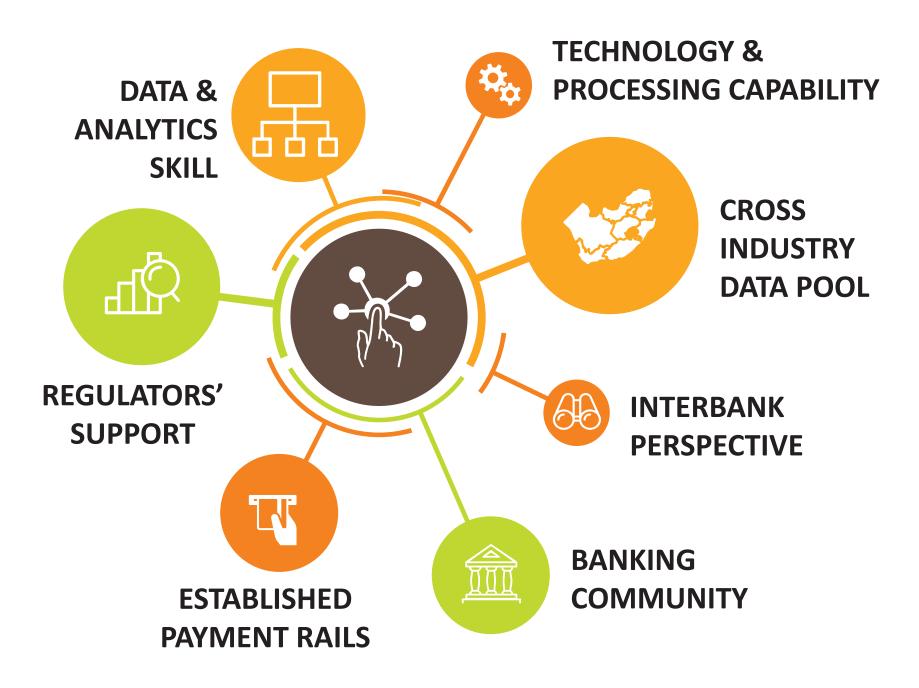
actionfraud.police.uk



Spay.uk



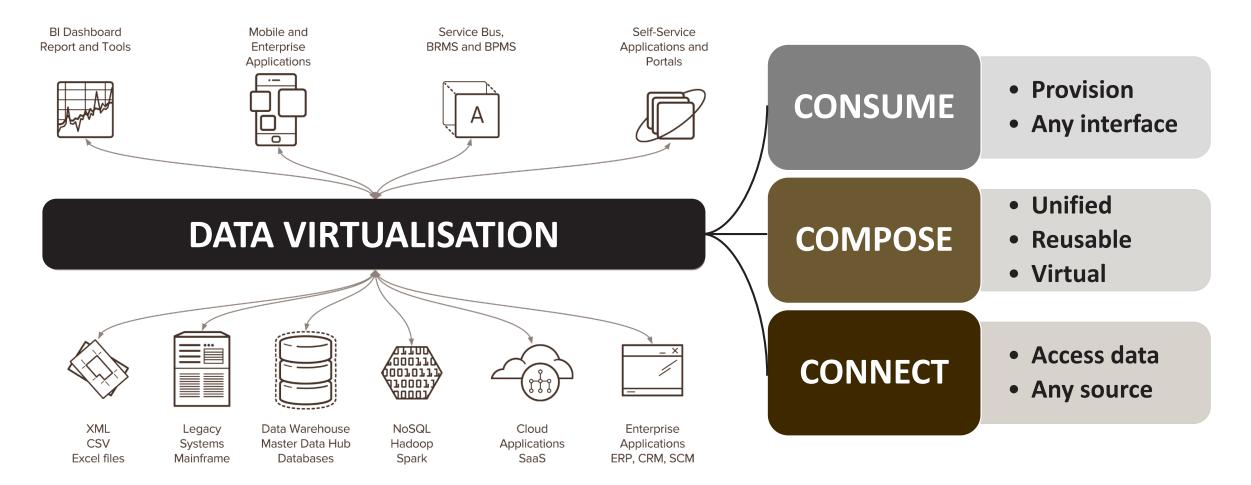
### KEY STRENGTHS





## Critical Enablers for Analytics

### **DATA INTEGRATION**



#### **DATA PREP – THIS TAKES TIME!**

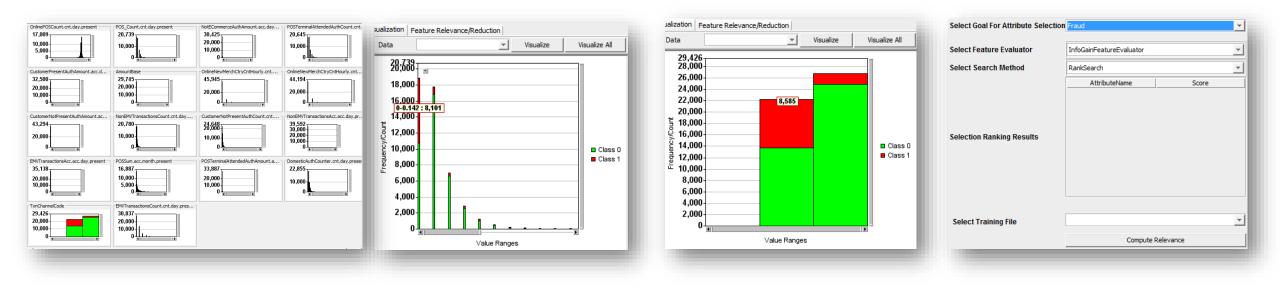
### **Vertical Sampling** Marked Fraud Training **Profile Maturation** Testing Timeline Training **Profile Maturation** Testing Marked Fraud **Horizontal Sampling**

### **FEATURE RELEVANCE**

Determine whether data fields and behavioural profiles are useful in predicting fraud. Gain insight into how fraud is distributed across individual fields.

### INFORMATION GAIN SCORING CHI-SQUARED SCORING

## – ENTROPY REDUCTION– INDEPENDENCE



#### **PARAMETER OPTIMIZATION**

Discover better parameter values for existing detection scenarios.

Find alternative parameter values to reduce false positives and/or increase true positive alerts.

### **COST OF COMPUTATION – NUMBER OF FOLDS**







## **CONTACT US**

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