

Ravelin's Secure Growth Summit 2019

Gain insight into the fraud strategy and technologies used by leading global online businesses

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Ravelin's Secure Growth Summit 2019

Agenda

13 - 13.30	Refreshments, arrival of guests
13.35	The Bigger Picture: The Growing Cybercrime Economy
14.00 - 14.30	Just Eat - Globalising Fraud Practices to Balance Friction, and Revenue.
14.30 - 15.00	BREAK
15.00 - 15.30	Machine Learning at Scale with Google Cloud.
15.30 - 16.00	eShopWorld - How to Enter Higher Risk Markets with Confidence
16.00 - 16.30	BREAK
16.30 - 17.00	Maximising Acceptance in a PSD2 World
17.00 - 17.45	Technology and the Analyst
17.45 - 18.00	Closing remarks
18.00 +	Drinks and Dinner



Protection

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Into the Web of Profit: Rethinking Cybercrime

Dr Michael McGuire University of Surrey

Backgrounds

- About me
- Dr Michael McGuire
- Criminologist
- University of Surrey
- <u>Critical</u> Cybercrime theorist



Backgrounds

- Fraud & cybercrime its significance
- I aim to explore some key trends here in the context of findings of a 18 month piece of research
- The Web of Profit project
- Associated reports:
- (i) Platform Criminality and the Cybercrime Economy
- (ii) Social Media Platforms and the Clear Net
- (iii) Darknet Markets and Cybercrime Platforms

- Web of Profit Project
- Initial brief: to understand the outputs of cybercrime, not its inputs
- Not <u>what</u> cybercriminals 'do' attack vectors, malware types, perpetrators, computer dependent v computer enabled crime variants, etc etc
- <u>Why</u> cybercriminals 'do' Revenues, laundering, spending investments etc etc.

Changing Perceptions of Cybercrime

Signature finding:

- Previous ways of modelling cybercrime increasingly unsustainable
- They have not offered successful responses
- Offence prevalence continues to grow, offences become more varied and diverse
- Continued disruption and financial loss to enterprise and almost every other sector of society as result
- The capacity of law enforcement and policy makers to respond effectively remains limited

• We need to rethink what we think of as 'cybercrime'

Once upon a time.....

- We thought `cybercrime' happened in a place called 'cyberspace'
- It was about 'technical' things like viruses or network compromises
- It involved clever young computer experts hackers, crackers etc.
- It was about stealing credit card numbers, banking details etc.
- Enhancing cybersecurity (perimeter protection & firefighting) was the optimal response



 But the research identified a far wider range of factors crucial to cybercrime as it is currently constituted

 A dizzying range of methods & mechanisms for generating revenues, often at industrial scales



- Rapidly expanding range of digital currencies and payment systems
- Some of which underpin cybercrime revenue generation



M 🚽 PESA

- Specialised economic agents such as producers, suppliers, service providers and consumers.
- A new form of raw material and trading commodity the extraction and exchange of data.
- Not just data from stolen credit or debit cards
- A range of newer data forms with value :
- hotel/airline loyalty points,
- Netflix logins
- 'likes' on Facebook
- soft drink formulas
- healthcare records



- Specialised markets
- Tool supply, technical support and provision of skills and expertise
- Professionalisation and the
 - development of career structures.
- Training, CVs, personal recommendations and references.

Dream Market Ichudifyeqm4ldjj.onion Established 2013

Drugs, Digital Goods, Hacking, Fraud, Counterfeit, Electronics, Defense, Jewellery, Software, Erotica, Data Leaks and so on!





- Dedicated production zones and centres of income generation,
- EG 'Hackerville' fraud villages in Romania
- Troll factories in Moscow





Râmnicu Vâlcea

Internet Research Agency Savushkina Street, St. Petersburg

Romance fraud offices in Accra, Ghana





 Online counterfeiting centres in China/Vietnam/etc

A Cybercrime Economy



Cybercrime Revenues

Cybercrime Economy now worth:



\$1.5 trillion in revenues annually - at minimum

Cybercrime Revenues v Fortune 500 companies & Nation States

\$1.5 trillion compared to:

Walmart	\$485,873,000 per annum
Berkshire Hathaway	\$223,604,000 per annum
Apple	\$215,639,000 <i>per annum</i>
Saudi Arabia	\$0.75tn
Portugal	\$0.2tn

 Highest earners can make up to \$2m/£1.4m – almost as much as a FTSE250 CEO

•Mid-level operators can make up to **\$372,000/£263,000** – greater than the average for a <u>US CFO</u>

•Entry level hackers can make **\$30,000/£21,000** – on par with the average <u>UK graduate income</u>

The Cybercrime Economy – Revenue Generation

\$1.5 trillion dollars - break down:

Illicit/illegal online markets	\$860bn <i>per annum</i>
Trade Secret/IP theft	\$500bn <i>per annum</i>
Data Trading	\$160bn <i>per annum</i>
Crimeware/CaaS	\$1.6bn per annum
Ransomware	\$1bn per annum



- A conservative estimate because many categories were not included/lacked sufficient data to calculate
- For example: Romance fraud
- In general, fraud at the centre of many of the categories used to calculate revenue generation.
- And many more where no calculation was possible
- Cybercrime has been characterised as 'fraudinogenic'
- For example:

Illicit/illegal online markets	Fraudulent goods & counterfeiting
Trade Secret/IP theft	Spoofing, Impersonation, Sale of product designs
Data Trading	Card fraud, chargeback/friendly fraud
Crimeware/CaaS	Account takeovers, Identity theft

Fraud – some recent indicators

- Organizations lose up to 5% of their annual revenues to fraud
- In 2018 49% of respondents to the Global Economic Crime and Fraud Survey said their companies had been victims of fraud or economic crime, up from 36% in 2016
- But only **54%** said they have conducted a fraud or cybercrime risk assessment in the past 2 years

Global rise in fraud/economic crime



Reported economic crime in 2018

Fraud – some recent indicators

- Projected total global fraud losses amounted to nearly USD \$4 trillion in 2018
- E-commerce & card fraud significant components in this Global Card Fraud alone projected to reach \$50 billion by 2025
- Consumer-perpetrated chargeback fraud, also known as "friendly fraud," is reported to account for the largest share of those losses
- Merchants account for 29% of global gross fraud losses (c\$6.7 billion) Card issuers around 70%

Three misconceptions about cybercrime

One factor fuelling this growth are three misconceptions around cybercrime

Cybercrime perpetrators are opportunistic, young & work in small groups or alone

- Up to 80% of cybercrime activity now organised
- Over 45% of group associates aged 36 or above
- Most cybercrime groups (60%+) not temporary or ephemeral but associate with other for 1 year or longer
- Only 25% of cybercrime groups have a length of association < 6 months
- Cybercrime groups have a variety of different structures

SIX Types of Cybercrime groups



Type 2 Hybrids

Type 3 Aggregates & Hierarchies







Economic Cybercrime/fraud is "victimless"

- Impacts can mitigated for by banks, insurance or 'write-offs'
- No-one is really 'hurt'?..... BUT:
- Whilst around 55% of cybercriminals spent revenues on immediate needs (e,g. paying their bills) or hedonistic purchases – eg. buying drugs, paying prostitutes, expensive jewellery or sports cars etc
- 30% of cybercriminals invested revenues— e.g in property or financial instruments
- 20% of cybercriminals spend at least some of their revenues of reinvestments in further criminal activities - some serious like trafficking or terrorism

Cybercrime like a 'business' ?

- Early views of cybercrime were flawed, centring too exclusively upon its tools its 'technological' character
- Socio-economic aspects of cybercrime have begun to be recognised
- But one such idea that 'cybercrime is like a business' is also fatally flawed
- It causes us to overlook the vast, complex and hyperconnected nature of contemporary cybercrime
- As the Web of Profit research suggested the cybercrime economy is far more appropriate metaphor
- The failure to recognise this permits the cybercrime economy to be become increasingly blurred with the legitimate economy
- In turn, this raises prospect of a variety of long term societal harms

Cybercrime economy, the legitimate economy & harm

(1) Legitimate business & law abiding citizens being sucked into the wake of this economy:

- EG: In 2017, Western Union ordered to pay \$586m by DoJ as a result \$632 million being unwittingly transferred in relation to online lottery scams, romance frauds & 419 scams
- Growth of quasi-legal darknet traders (drugs, crimeware, etc)
- Increasing temptations for young people to act as money mules

(2) Global trading becoming distorted and vulnerable to corruption:

- EG money laundering
- UN estimates 1.7 2% of Global economy (Up to \$2 tn) being laundered
- Cybercrime revenues fundamental to this

Protection as a civic duty

- All this emphasises the value of adequate network protection
- Not just a company need a civic, societal duty
- · Losses which are 'written off' do not disappear into the ether
- They help fuel the vast and growing cybercrime economy
- Which in turn fuels:
- Further cybercrime
- Organised crime
- Serious crime like people trafficking, terrorism, arms trading etc
- Legitimate business and law abiding citizens engaging in quasi-legal behaviours as a result of becoming absorbed by the vast cybercrime economy.

Thank you.

Dr Michael McGuire University of Surrey

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JUST EAT

The Journey to Globalising Fraud Practices to Balance Friction, Protection and Revenue RAVCON, May 2019

Who are we?
Ben Shipway

Lora Walsh

Head of Product & Technology - FinTech - Global Fraud Manager - FinTech -

Just Eat



Our vision

Serving the world's greatest menu. Brilliantly



Hello, we're Just Eat

We operate a leading global hybrid marketplace for online food delivery, providing Customers with an easy and secure way to order and pay for food from our Restaurant Partners.





cuisine types



3,600+ Just Eat team



Tech at Just Eat

600+ people in Tech

26m+ active customers

35+ teams

450+ services

7 orders a second

2,500+ orders/min at peak times

1.6M+ metrics/min

1.5TB+ logs/day

500+ releases/week

43% Revenue Growth (FY18)







Providing an end to end payment acceptance capability, with dynamic payment flows and routing, adding value for our customers and maximising commerciality

Who are FinTech?

Product and operations working together to provide the best payments and finance capability available



"Make paying for a takeaway quick, easy and painless for all our customers" "Protecting our customers and restaurants against fraud through best practice and best in class fraud tools"

"Maximising transaction acceptance rates at the lowest possible cost" "Ensuring the reliability, flexibility and integrity of our finance systems" "Paying our partners the right amount, at the right time, every time"

The Problem

A typical order



The Present

The Fraud Problem

Ecommerce











Gift Cards



The Past

The Approach

Inconsistent global approach to tackling fraud with Segregated tooling, teams and processes:

Focus on chargeback cost reduction



Blanket approach to 3DS



Reactive and regressive



Limited data to understand impact

People

Inconsistent global approach to tackling fraud with Segregated tooling, teams and processes:



Specialised fraud team for UK market



Outsourced manual review team for AU market



Customer care teams managing blacklisting



AdHoc support given to by UK team in 'emergencies'

Tools and Processes

Inconsistent global approach to tackling fraud with Segregated tooling, teams and processes:



Manual resource intensive processes



Four fraud tools; some pre-auth, some post-auth



Questionable chargeback disputing process



Rules based tooling

The Result

Inconsistent global approach to tackling fraud with Segregated tooling, teams and processes:



The Present

Fraud Approach

A new vision

- Understanding and support the different needs of our markets
- Revenue Balance as main driver
- Dynamic risk routing
- Automation/streamlining
- Data informed

Why globalise?

The need for a redesign

- A move to more centralised fraud management
- Increased internal focus on fraud
- Lack of expertise in countries to manage growing risk
- Tooling not sophisticated enough to support business size
- Opportunity to leverage global volumes
- Opportunity to leverage expertise knowledge

Globalisation Approach

• Centralising people, tools and processes

• Separating out fraud and payment optimisation

• Move from finance into tech

• Focus on revenue balance

Globalisation Process

The journey bringing together countries

- Country by country review of practises to find opportunities
- Propose gains / prove value with existing tooling
- Gain confidence of local markets to get buy in
- Restructure

Problems solved

- Apprehension from markets
- Lack of fraud education
- Limited resource
- Varied tooling

Measuring Success

Centralising risk tooling



KPIs measured:

- Expected 3DS rate
- Expected block rate
- Fraud detection rate
- False positives rates

Global Tooling

Risk tooling



About

- Ravelin are subject matter experts in on-demand fraud
- They are a flexible startup
- Machine learning technology very responsive to fraud attacks (compared to rules)

Tailored offering

- Built a restaurant fraud portal for managing restaurant fraud.
- Built a bespoke CC portal for looking up transactions
- Ability to handle cash, voucher and credit transactions



ethoca

- Agreed global contract & expanded use to more markets
- Used to avoid CB fee
- Used for blacklisting
- Gives early visibility on fraud & fraud spikes
- From 2018 > 2019, an increase of x4 cost saving

Global Process

A common way of working

- Blacklisting
- Restaurant Fraud Monitoring
- Proactive investigations
- Reporting

Global Team

Working smarter

• Automation

- Reporting, blacklisting, etc.
- Upskill team
 - SQL, BigQuery, Tableau
- Workload management
 - o Jira
 - Support from local markets
- Globalised tools and processes
 - Centralised tools to manage
 - Standardised processes

Results



Card:

	_	UK	ANZ	ES	ΙE	ΙΤ	DK	NO
3DS impact	→	-67%	0 > 5%	-90%	-79%	-89%	0 > 2%	0 > 2%
Block rate impact	→	-48%	-55%	-42%	-73%	-72%	-46%	-55%
Reduction in fraud chargebacks	→	-74%	-67%	-44%	+15%	+21%	-60%	-58%

Cash:

- Also live on cash orders in the UK
- Reduced cash fraud losses by 15%

The Future

The Approach



Push the problem upstream

Automation, automation, automation

Holistic KPI Management

Capability Measurement

An enabled team

Decisions and changes affect KPIs, operational metrics and costs across the whole payment capability



A single transaction routed three different ways can have very different acceptance rates



Transaction routing based on bandings, learnt over time, to produce the best rates for certain transaction cohorts



Dynamic real-time routing of individual transactions, balancing both learned auth rate bandings and KPI management



Implementation Pipeline



Fraud as a first class global capability



Automation of dispute management



Cash fraud





5

Dynamic MCC routing

Offline payments

The take aways

The take aways


Thank you

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Refreshment Break

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Refreshment Break Welcome back

ravelin.com



Google Al at Scale

RavCon May 2019

Charlotte Pindar, Customer Engineering

Google Cloud

There will be 163 zettabytes of data by 2025

- IDC, 2017

Coogle Cloud

If your company isn't good at analytics, it's not ready for Al.

0

- Harvard Business Review, 2017



of people expect brands to deliver a consistent experience, but only

42% think they do.

Google/Greenberg Survey, 2017

So many **'data silos'**...





of marketers say it's difficult to give stakeholders in different functions access to data & insights

Forrester, July 2015

lt's time for a **new approach**





Why Google Cloud



Instant access to thousands of machines with Google Cloud

Speed

Stay ahead of the competition, and be more agile.

Quality

Customization

Be more data driven and use pre-trained highly accurate Al models to solve business needs

Easy to customize ML models with Google domain expertise and Advanced Solutions Lab



Google's mission

Organize the world's information and make it universally accessible and useful



Google Cloud

Enabling enterprises to collect, organize and use data



Google's Al Journey

"...it's time to get Googley"

If everyone spoke to their phone for 3 minutes, we'd exhaust all available computing resources

-- Jeff Dean, 2014









GPUs

Researchers began to notice that neural network mathematics closely resembled the algorithms to shade pixels in graphics cards (GPUs).









AI and machine learning

Where is Google Cloud helping Retailers?

















INTUITIVE

EFFICIENT

CONVENIENT



AUTOMATION AND ROBOTS MACHINE LEARNING

MOBILE APPS

ROUTING SYSTEMS

DATA SCIENCE

CLOUD

VISION SYSTEMS

SIMULATION

Prioritise urgent customer emails

ocado.com The online supermarket





Sentiment analysis and entity extraction

- Am

Unstructured content understanding



Google Cloud

Customer retention



Google Cloud

Using the cloud to join marketing data



This is what you need for production ML











An open & secure platform





An open & secure platform

Bring in data with a few clicks



Start with a simple but high value use case, expand from there

Prove value first with declared, identifiable customers then work to close the gaps

Value



Complexity

Thank you cpindar@google.com

ZRI



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ENTERING GLOBAL MARKETS AT SCALE

eshopworld

SELL GLOBAL. FEEL LOCAL. ™

HELLO!

David Power

CSO eShopWorld



SELL GLOBAL. FEEL LOCAL. ™



QUIETLY MAKING NOISE

- Ranked #1 in 2015, 2016, 2017
 Deloitte Fast 50 Fastest Growing Tech Firms
- Technology Exporter of the Year 2016, 2017 Export Industry Awards
- Technology Company of the Year 2017 Software Industry Awards





THE GLOBAL OPPORTUNITY

"Crossborder B2C eCommerce sales will account for 20% of all eCommerce revenue by 2022, with 46% of consumers shopping across borders."

Forrester Research

"Shoppers are more global than ever, and not content to settle for products only available in their home countries."

eMarketer
ESHOPWORLD - A SNAPSHOT



SELL GLO.

----pw@rld

ESHOPWORLD CROSSBORDER ECOMMERCE

Elegant solutions are often built on **complex foundations**.

Delivering outstanding customer experiences across **multiple global markets**.

The **best brands in the world** trust eShopWorld to reduce the complexity of selling across borders



PLATFORM

Cloudscale Technology Localised Pricing Optimised Payments & Fraud Multiple webstores & Inventory Global Hubs / Logistics

BENEFITS

Expert tools and guidance

Cost savings

Synergies and Economies of Scale

Speed to market

Efficiency and effectiveness



SELL GLOBAL. FEEL LOCAL. ™

eshopworld

GLOBAL DATA INFRASTRUCTURE



GLOBAL DATA INFRASTRUCTURE



GLOBAL INFRASTRUCTURE



THE PRODUCT....TODAY

Pricing presentation

Frictionless, hosted checkout

Easy-peasy payments

Advanced fraud screening

Global & local acquiring

and news over mail	÷¶ ∎
Delivery Method	
STANDARD Delivery Delivered on or before 4 April	FREE
We care about your privacy. By t	
you agree that you have read an eShopWorld processing your inf	ormation in
accordance with the eShopWorld Statement.	d Privacy
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eshopworld

SELL GLOBAL. FEEL LOCAL. ™

DO WHATEVER IT TAKES

Deloitte.

Technology Fast

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SELL GLOBAL. FEEL LOCAL. ™

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JOURNEY TO SUCCESS IS BETTER SHARED

(line.

THANK YOU



SELL GLOBAL. FEEL LOCAL. ™



Refreshment Break



Refreshment Break Welcome back



Maximising Acceptance in a PSD2 World

Martin Sweeney



Liability vs Usability

Rock: Fraud

Hard place: 3D Secure



Liability + Usability = Opportunity













Verified by Visa - the consumer's best friend. How often I hit that barrier and think to myself "I have no idea what my password is and I could actually live without this purchase". V by V has saved me hundreds of pounds on impulse purchases. Thankyou!!

12:03 AM - 20 Apr 2019

1 Retweet 4 Likes 🚯 🗰 🚳 🥋 😭

2+ Follow

Has @VerifiedByVisa or @mastercard #securecode ever fucking worked for anybody, in the history of the world? Fuck your shitty broken schemes

7:06 PM - 16 Sep 2016

Anna Freeman @.luneDown

+ Follow

Im Bestellvorgang natürlich den Mastercard SecureCode vergessen, welcher nun gesperrt ist

8:29 PM - 15 Sep 2016



3D Secure Research

3DS takes an average of 37 Seconds to complete

Conversion by Issuer ranges from 68 to 92%

9% "frictionless" (less than 5 seconds)

"Improved 3DS" loses 19% of payments



Status Quo

3D Secure is bad for business

Merchants can decide when & if to Authenticate

Authenticate high risk transactions only



PSD2 changes everything





Merchants can decide if and when to Authenticate



PSD2

Merchants can decide if and when to Authenticate

Merchants can only turn off Authentication...



PSD2

Merchants can decide if and when to Authenticate

Merchants can only turn off Authentication... if they're very good at fraud detection...



PSD2

Merchants can decide if and when to Authenticate

Merchants can only turn off Authentication... if they're very good at fraud detection... and if the Issuer agrees.



Strong Customer Authentication

SCA = 3D Secure for Card Payments



Exemptions from SCA

Low Value Transactions Low Risk Transactions Recurring Transactions (of the same value)



Low Value exemptions

Under €30

Low Value can still be High Risk

Issuer keeps count of number and value of Low Value Exempt transactions

Black box - merchants have no idea if it's transaction #1 or #6



Low Risk Exemptions

Transaction Risk Analysis (TRA) is hard TRA is now Regulated





Low Risk Exemptions

Payment service providers shall ensure that the transaction monitoring mechanisms takes into account, at a minimum, and on a real-time basis, each of the following risk-based factors:

- lists of compromised or stolen authentication elements;
- the amount of each payment transaction;
- known fraud scenarios in the provision of payment services;
- signs of malware infection in any sessions of the authentication procedure.
- the previous spending patterns of the individual payment service user;
- the payment transaction history of each of the payment service provider's payment service user;
- the location of the payer and of the payee at the time of the payment transaction providing the access device or the software is provided by the payment service provider;
- the abnormal behavioural payment patterns of the payment service user in relation to the payment transaction history;
- in case the access device or the software is provided by the payment service provider, a log of the use of the access device or the software provided to the payment service user and the abnormal use of the access device or the software.

irrespective of the specific arrangements of the transaction monitoring mechanisms, an electronic payment transaction is identified as posing a low level of risk only where the following conditions, in combination with the risk analysis referred to in point b) of this paragraph, are met:

- I. no abnormal spending or behavioural pattern of the payer has been identified;
- II. no unusual information about the payer's device/software access has been identified;
- III. no malware infection in any session of the authentication procedure has been identified;
- IV. no known fraud scenario in the provision of payment services has been identified;
- V. the **location of the payer** is not abnormal;
- VI. the location of the payee is not identified as high risk.



Low Risk Exemptions

Is your Rules Engine compliant?



Fraud rates really matter

100	€250	€500 €500+
0.06%	0.01%	Compulsory
	0.06%	



Is your Acquirer good enough?

€0 €30	€100	€250	€500 €50	⊸⊳ 90+
0.13%	0.06%	0.01%	Compulsory	



3D Secure

Version 1 failed. Version 2 is.... better

Better User Interface & more data for Issuers

3DS2 is the Least Worst Option



3D Secure 2

Better user interface for card holders to authenticate

Issuers can do their own risk analysis and authenticate "Frictionlessly"

"Improved 3DS" loses 19% of payments



Maximising Acceptance in a PSD2 World

Much more complex than today Each Issuer will be different 3D Secure v1 and v2 will coexist Conversion will be a big differentiator



Advice to merchants

Use an Acquirer with low fraud rates Outsource your TRA for the best acceptance rates Maximise SCA exemptions to keep conversion high Use 3DS2 for the least worse consumer experience



Advice to merchants

Use an Acquirer with low fraud rates Outsource your TRA for the best acceptance rates Maximise SCA exemptions to keep conversion high Use 3DS2 for the least worse consumer experience

Use Ravelin Accept to manage all of this for you!



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Fin.



Technology and the analyst

Our Panel



JUST EAT

Lora Walsh Global Fraud Manager 

Dave Parrott Payments Services Director Daniele Thillman SVP Head of Risk and DPO



Closing Remarks

