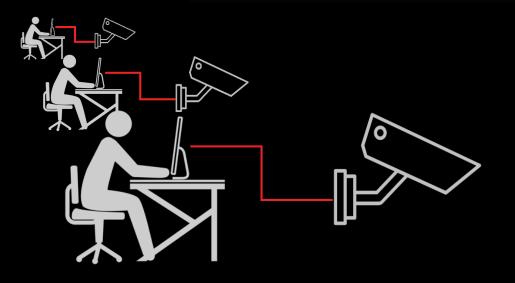


Edge AI specialists

Human-AI teaming in the Real World





Imagine if every one of your remote systems had a dedicated operative in the real World.

Constantly vigilant, always contactable, and flexible enough to be retrained at a moments notice.

Using Distributed Artificial Intelligence



can deliver this capacity

ARCHANGEL IMAGING [AI]



"AI eyes for land, sea and sky"

- Imaging hardware/software specialists focusing on "Edge" Artificial Intelligence (AI) applied to computer vision
- Archangel Imaging spun out from Archangel Aerospace >> ultra-long endurance unnamed aircraft specialist.
- Advanced tech in the Oxford ecosystem
- Government and private sector supported
- BT Infinity Award Winner 2018 (Augmented Intelligence)







Credit: Airbus D&S

PROBLEMS AT THE EDGE

- Machine Learning applied to computer vision brings tremendous value to many industries

 but most solutions are cloud based, i.e. centralised.
- This leads to unsolved problems on "the edge" i.e. in remote or field locations



Offshore Platforms



Worker Safety



Unmanned Systems



Crisis Areas



Space Applications



Pipeline Security



Border Security



Camouflage Detection COMMERCIAL IN CONFIDENCE



Ad-hoc deployment

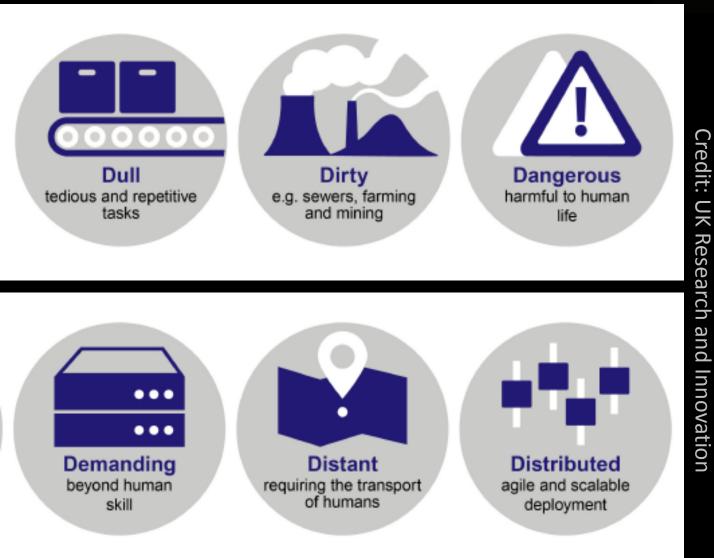


Complex Logistics



WHY "EDGE AI"





COMMERCIAL IN CONFIDENCE



Case Studies

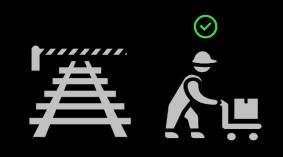
USE CASE | HEALTH AND SAFETY COMPLIANCE

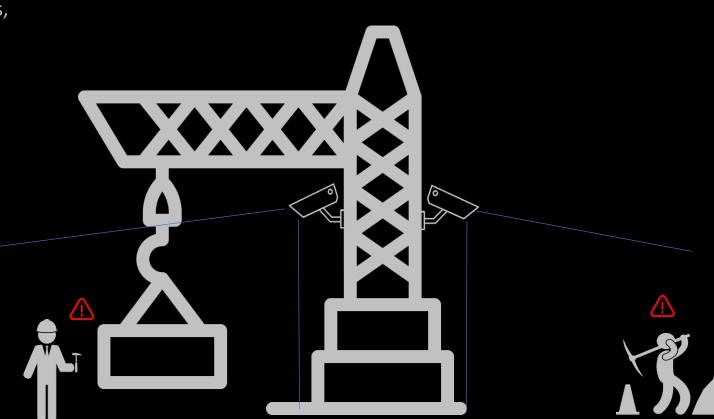


WHERE: Factories, Construction Sites, Depots, Train Tracks, Mining Sites, etc

WHY: Health and Safety is **critical** for both an employee wellbeing and **insurance & regulation**.







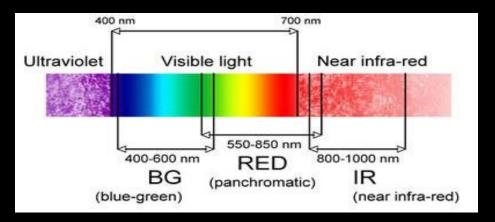
Identify breaches in H&S regulation and policy, and specify areas where PPE is required. Create **proximity alerts** to prevent workplace accidents and **stop machinery**.

COMMERCIAL IN CONFIDENCE

Create daily reports with associated images, or stream live video throughout the day.

APPLICATIONS - BLOS Hyperspectral

- Small RPAS limited by data link and manual FMV analysis
- Enable BLOS (low rate) real time detection by fitting Al payload









COMMERCIAL IN CONFIDENCE

WAMCam – Wildlife Protection / anti-poaching



Jungle deployment with Oxford University team 2018

Prototype edge AI camera-trap and LoRaWAN comms to Satellite gateway

Common interface for AI and human staff

Satellite gateway under rainforest canopy

Progression to anti-poaching patrol 2019/2020

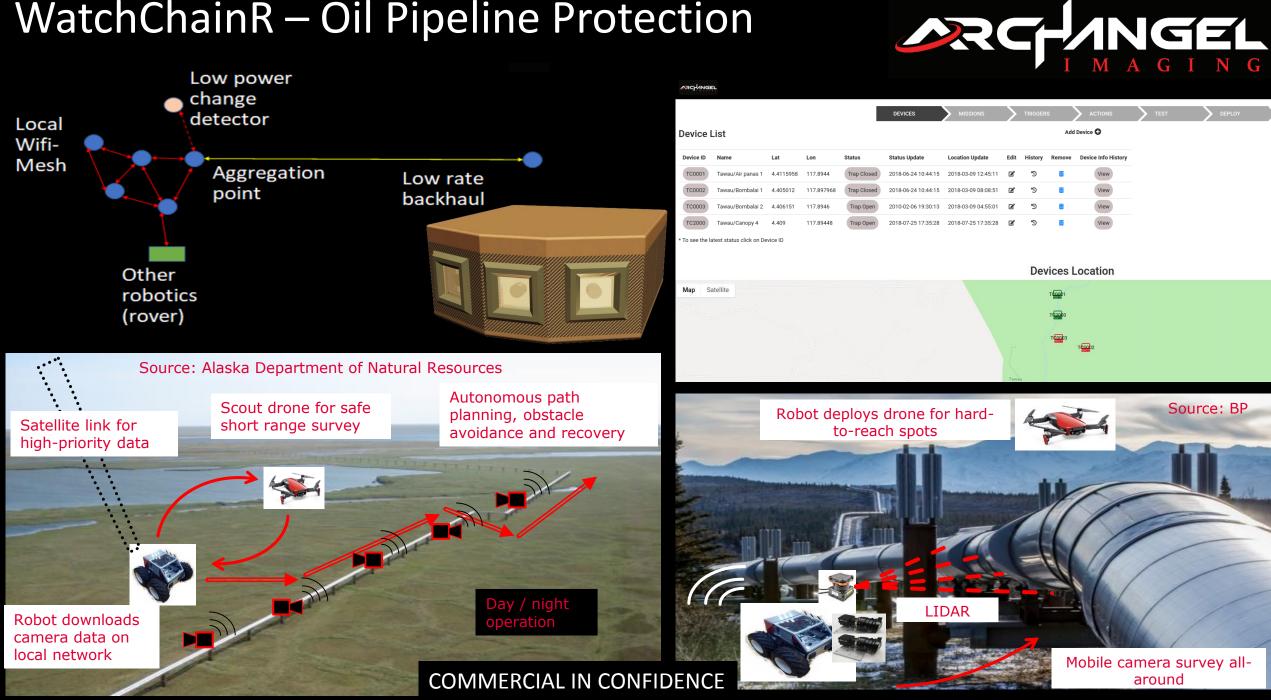
COMMERCIAL IN CONFIDENCE







WatchChainR – Oil Pipeline Protection



Come by for a chat



Problems we can help solve for you:

- Warehouse safety
- Human-machine cooperation
- Remote infrastructure
- Robotic logistics
- Automated inspection
- The other thing.....

Problems you can help solve for others:

- Wildlife protection
- Anti-slavery / people smuggling
- Overseas development
- Pollution
- Illegal forestry and mining

Hello

Hindsight is a wonderful thing

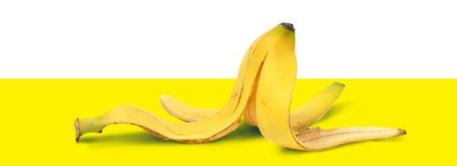




InformedActions is a **PropTech solution**, with machine learning at its core, that uses systems data to enable our clients to manage their assets better and provide enhanced services to their customers.

This data is further enriched when augmented with additional data sets such as Internet of Things (IoT), weather, traffic and socioeconomic data.

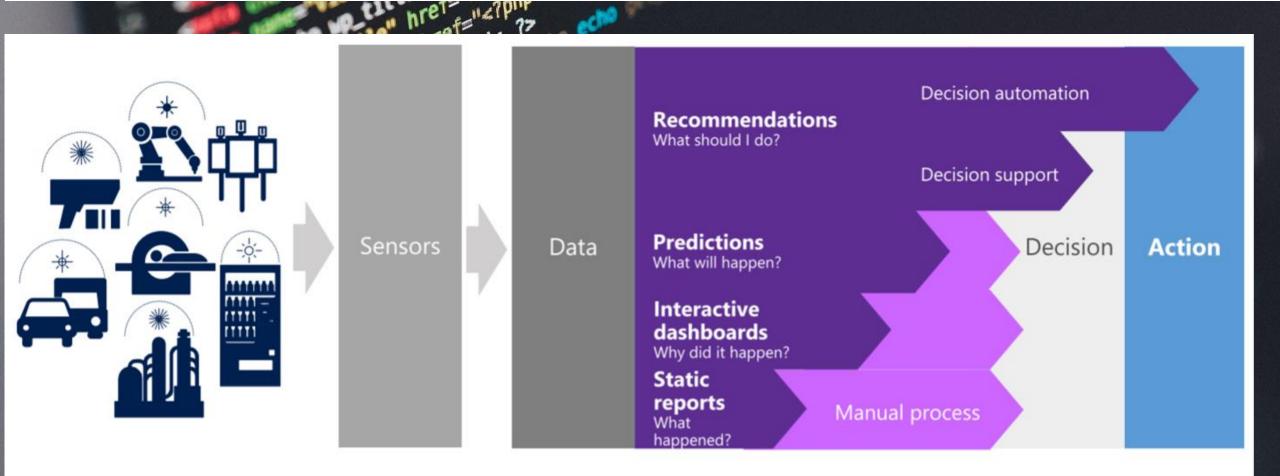
This enables us to predict and pre-empt when problems are likely to occur inc: Boiler failure, fridge failure, fuel poverty, damp and mould, security concerns, lack of rent payment, tenancy churn & potentially many other issues.





Assets to Decisions and Actions

fol idth=0





Ambulance Optimisation Predictive Analytics

Problem:

- Client under efficiency and service level pressures.
- The private ambulance company operate from 45 bases throughout South Africa with 8 branches and 17 sub-branches in the coastal belt
- They suspected their operation was sub-optimal especially considering their HR cost represented about 70% of their total expenditure

Solution:

- Our data analytics solution provides high accuracy predictions of where, when and what type of emergency calls will take place.
- Predictions are translated into a optimised rosters that prescribe where, when and what number of paramedics and ambulances are required.

Result:

informed

• 7% decrease in salaries, 11% decrease in overtime costs and 16% reduction of contractors expenses while increasing revenues by approximately 7%.





Assisted Living Remote Monitoring

A smart social housing solution to cut cost of maintaining housing, improve living conditions and health and social care provision.



actions

The service integrates remote monitoring, data management, data analytics and improvement identification.

- It will help make it easier for people to live independently for longer and make it possible to discharge people earlier from hospital. It will reduce the cost of providing housing and increase the life of the housing stock.
- Includes a LoRa network across Liverpool
- 2,000 homes with 'Safehouse' devices which incorporates four sensors; temperature, sound, humidity and motion.
- Built for scale on the Microsoft Azure Cloud
- Key Benefits Include:
 - Movement Identify a lack of movement, or movement within a 'expected to be empty property'
 - Early detection of damp and mould problems
 - Fuel Poverty issues External vs Internal Temp
 - Detect Alarms early (Sound)
 - Power outages

Predictive Analytics Preemptive Maintenance

A smart social housing solution to predict when and where events are likely to occur to preemptively allocate resources.

- Who: Housing organisation in North West of England across 7,000 properties
- Challenges:
 - Predicting void properties based on tenant data and customer demographics
 - Predicting boiler repairs based on historical repair data and boiler make, model, age
- Solution:

• Demographic void predictions- predicting tenancy churn per

Marital Status	Universal Credit	demogra Tenure Type	aphics. E Housing Benefit	.g Age	Postcode	Estimated Tenancy Length (Months)	Number Of Expected Terminations	Number Of Tenants
Single	False	Affordable Rent	False	40-60	WA8	17.23	22.21	64

- Providing weekly/monthly boiler predictions
- Benefits:
 - Ability to predict number of boiler problems each month
 - Ability to predict number of tenancies ending each month

Predictive Analytics Preemptive Maintenance

Providing predictive analytics and anomaly detection for a large retail chain.

- Predicting Calculated Product Temperature (CPT) alarms for in store fridges.
- Predicting work orders and resource requirement based on Alarm predictions.
- Using Anomaly detection to preempt when alarms are likely to occur based on significant fluctuation in temperature
- Results:
 - The anomaly detection algorithm successfully recognises behaviour indicative of alarms before they were raised in many cases. The algorithm recognises abnormal behaviour two to three days before the alarm was raised, demonstrating significant early warning benefit.

Thank You

Hindsight is a wonderful thing





EXabler

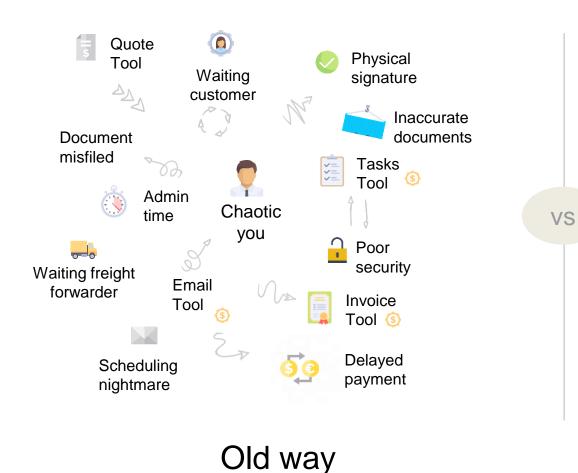
Digital trade and financing

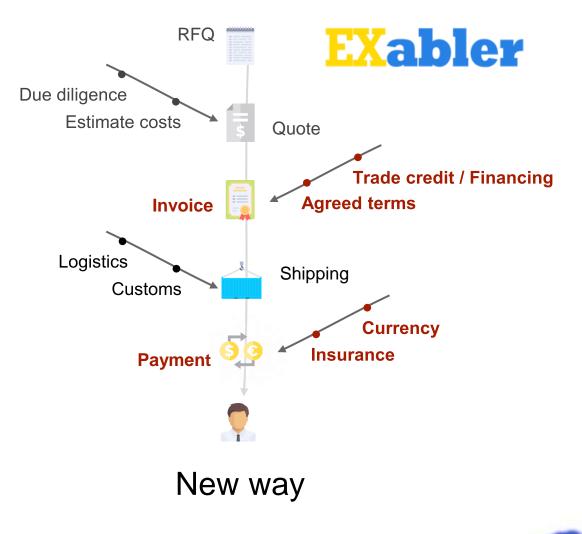
© Parkway Logic Ltd 2019. All rights reserved.

Who we are and what we do

- Exabler is a global trade solution for businesses to plan and execute trade, get financed and paid
- Financial service providers struggle to serve many customers due to the costs of capital and cost of gathering information to comply with regulations
- Exabler's unique trade intelligence tooling can help service providers serve a larger number of clients more profitably
- Co-founders are highly technical with combined experience of over 30 years in finance, risk management and cross border trade

Exabler improves visibility of company trade activities





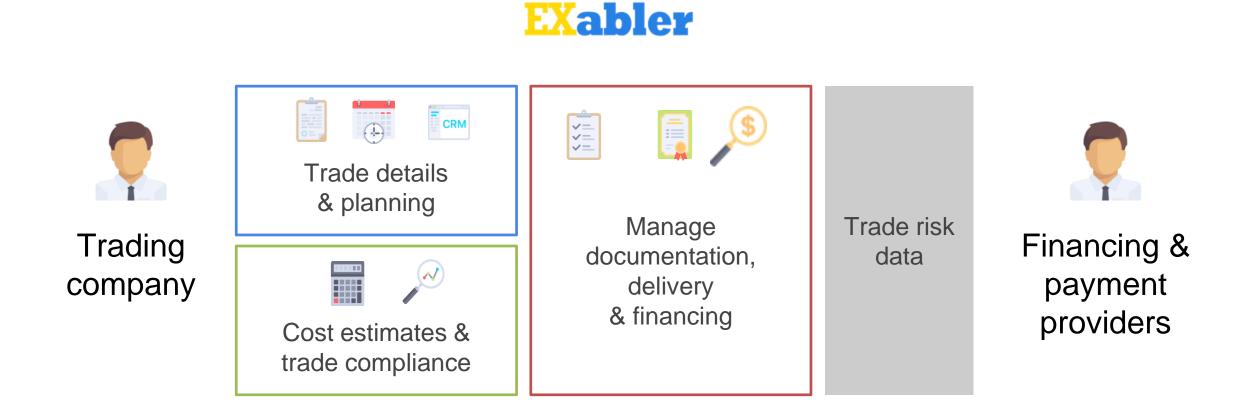
Improved and tailored financial products

Share of global trade by payment type

	Cash in Advance		nal Trade ance	Open Account				
	\$3.5 T- \$4.0T	\$6.0	- \$7.0T	\$6.5T - \$8.0T				
	Improved abi	ility to fina	ance, super	ior digital offering				
Banks	Payment se	rvices		Financing				
Exabler	e.g. transa	Value added services Ansaction information, risk signals, planning tools						

Source: Opus, Observations of Trade Finance 2013-18, CEB analysis, IMF estimates

Better trade risk data supports origination and compliance



Sovereign Intelligence

Actionable | Predictive | Efficient



Sovereign Intelligence

- How companies mitigate risk has changed forever
- Rapidly evolving networks of non traditional communication
- Vast quantities of data, hard to glean intelligence
- Exponential rise in risk and complexity
- Similar patterns in commerce and law enforcement

We've redefined the intelligence workflow. By applying AI to unstructured external *and* enterprise data our customers can quickly make accurate decisions.

High-fidelity data meets artificial intelligence

The Answer?



Frame the Right Questions



Interrogate the Right Sources





Leverage the Latest Artificial Intelligence

Demand Actionable Insight

Actionable, predictive intelligence extracted from all digital sources



Experienced collectors & analysts forged within elite US/UK agencies

GLOBAL COLLECTION NETWORK

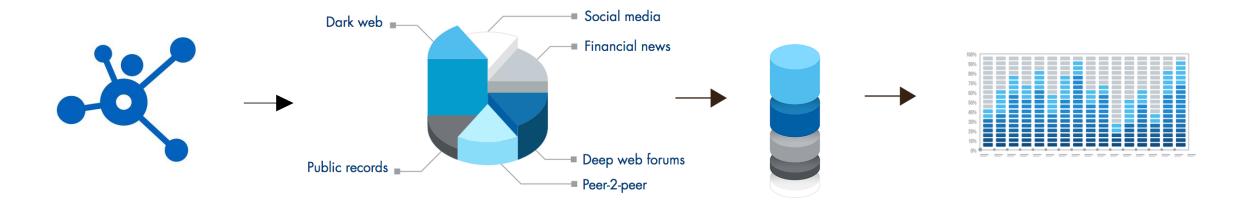
Proprietary search engine delivers intelligent, automated full internet spectrum data collection *without attribution*

MACHINE LEARNING TECHNIQUES

Algorithms give smarter searches and faster results for seemingly impossible collection requirements

ACTIONABLE OUTPUTS

Finished intelligence providing profitability increase/cost reduction and potential for action



Problems we solve

Who is a threat?

We identify Bad Actors initiating threats against institutions, their motivations, techniques, and ultimate goals.

² Harder Questions?

We answer questions that others raise through deeper-dive investigations, i.e. who created the malware, what's the real ID of the Bad Actor, etc.

The So-What Questions?

3

We provide insight for shaping network security posture, while addressing policy, compliance, privacy, and legal matters.

4 Long term strategy?

We address the strategic questions based on deeper analysis of threats to help you plan for the long term.







Intrusions & Leaks



Due Diligence





Brand/Reputation Monitoring

Counter Terrorism & Crime Prevention

Credit Card & PII Compromise

Compromised credit card information associated with a xxx Banking customer was discovered and identified. The stolen credit card information was extracted from an infamous deep web English-speaking financial fraud marketplace known as *Buy Best Biz* for \$70.00 (USD) / 0.0087 (BTC).

Client Implications:

The compromised credit card information in plain text (.txt) revealed PII: Bank Identification Number (BIN) - 402396; Track 2 Data -4023962143000780=19052011316436100132 ; Carr - 201; Payment Card - Visa; Level -Premier; Bank - xxx Bank, Ltd. From data breach referenced amidst the digital

BUYBEST.BIZ

102396 2 track 2 402396214304 \$70	Carr. 201 00780=:	Type VISA PREMIER	Refund Yes	CD	Bank		Country	State	Base			Price	
radk 2 40239621430(\$70		PREMIER	Yes	CREDIT									
402396214300 \$70	00780=:	1005201121042			VANQUIS BANK	K, LTD.	GBR	FL	BRING SPRING - 8 - WIS	TERIA		\$ 70	
		1905201131643	6100132*	VISA*PREMIER*VA	NQUIS BANK,	LTD.*CREDIT*GB	R∗USA,	FL*BRING SPF	ING - 8 - WISTERIA	ĸ			
Bin Car	rr. Тур	e Refund	CD	Bank	Country	Dumped in	1	Base		Qty	Price		
102396 201	VIS. GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, TX, Houston, 770	098 .	ADOLESCENT 135	- WITH ZIP	1	\$ 91	1	To cart
track 1+2													
102396 200	GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, HI		OBSIDIAN - 4 BLAG	K FRIDAY	1	\$ 65	1	To cart
traok 2													
102396 201	GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, WA		OBSIDIAN - 4 BLAG	X FRIDAY	1	\$ 65	1	To cart
track 2													
102396 201	GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, MD		OBSIDIAN - 3 BLAG	K FRIDAY	1	\$48	1	To cart
track 2													
102396 201	GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, TX		TYRELL		1	\$ 65	1	To cart
track 2													
102396 201	GOL		CREDIT	VANQUIS BANK, LTD.	GBR	USA, FL	1	UNBROKEN		1	\$ 65	1	To cart
track 2	I VIS	A Yes	CREDIT	VANQUIS BANK, LTD.	GBR	USA, NY			ILLION BREACH - PART 3.1	1	\$ 65		
102396 201	GOL		CREDIT	VARQUIS BANK, LTD.	GOR	00A, NT		SILVER INFINITEN	ILLION DREACH - PART 3.1	'	\$ 00	1	To cart

31

Compromised Credit Card Data

A Russian-speaking underground vendor - *xpoint*, was identified and discovered advertising compromised credit card information associated with xxx Banking customers.

Client Implications:

The vendor was discerned amidst an infamous deep web Russian-speaking carding community known as *SKY-FRAUD*. Across a community discussion forum thread titled, UK CVV NON VERIFY, *xpoint* states, "402396 xxx BANK, LTD. CREDIT PREMIER UNITED KINGDOM."



■ 12-07-2015, 04:00 AM	#20
xpoint	
Junior Member	402396 VANQUIS BANK, LTD. CREDIT PREMIER UNITED KINGDOM
xpoint is offline	
Join Date: Dec 2013	
Posts: 2	

Carding Guide

An English-speaking Telegram Channel -*Hack Everything*, was identified and discovered posting a Carding Guide stating to focus on "providers that aren't large banks, so companies like xxx"

Client Implications:

The Telegram channel - *Hack Everything* - was identified holding over 26,000 members. Specific xxx targeting across this channel can produce a large increase in demand for xxx card information and carding attempts.

HACK EVERYTHING

-Fullz Most important thing is fullz.

All cards have a BIN (Bank Identification Number), this is basically the first 6 digits of the card. What this info will tell you is the bank the card corresponds too and also what type of card it is e.g. visa platinum etc. Now there isn't really a list of good BINs in my view. That's always evolving and you'll build a list yourself of good BINs over time that have worked for you.

I personally always look for credit BINs first, and also providers that aren't large banks, so companies like Vanquis, MBNA, Capital One, Luma, etc.

The good thing with the smaller credit card providers is you usually can check the balance of the card via simple call to their automated line that usually asks for simple info like card number and DOB. This is also a good way to confirm the info you have is valid and the DOB is correct. Also If I remember correctly you can do this with Santander as well – they also just require the card number and DOB if memory serves me correct.

Leaked Credentials

On December 16, 2017, a Russian-speaking underground user - *FSeller*, was identified and discovered posting leaked emails and passwords including one for current/past xxx Banks employee Megan Clare.

Client Implications:

Leaked employee email credentials increase the risk for unauthorized users to gain access to xxx Bank networks; breaking security for xxx databases and confidential documents.

Human Trafficking

Intelligence provided by Sovereign aggregated from online escort listings, registries, networks, and auction based websites.

Police provided (11) data sources of interest. Sovereign Intelligence identified **(169)** additional data sources otherwise unknown and notorious for advertising victims of human trafficking for sexual services.

Spot Alerts highlight sources and behavioral signals/indicators of interest around suspected victims of human trafficking. Behavioral signals/indicators include phone numbers, addresses, victim names/aliases, race, sex, age, build, hair/eye color, scars, tattoos, body marks, body poses and other environmental

Some of the indicators we would look for in the profiles would be:
1) Multiple use of same advertised mobile number.
2) Nationality – Romanian / Chinese / Eastern European
3) Age – 18 – 24 or visually young.
4) Picture – bruising / redness / uncomfortable pose of female.
5) Use of grammar / spelling mistakes
6) Emojis are used a great deal in ads in UK. Not necessarily an indicator
7) Same ad construction.
8) Picture content / bed / lined / curtains/ furniture
9) The use of numbers can be misread. Used as say dress size in ads
10) Location- Crime reports/relevant Anti-social behaviour indicate shifts towards new areas.

1) Adult Work – <u>www.adultwork.com</u> (our main site)
2) Viva Street – <u>www.vivastreet.co.uk</u>
3) Back Page – <u>www.backpage.com</u>
4) Hotreddot – <u>www.hotreddot.com</u> – Twitter based
5) Babylon Girls – <u>www.babylongirls.co.uk</u>
6) Peachy Escort – <u>www.peachyescorts.co.uk</u>
7) Skokka – <u>www.skokka.com</u>
8) Crazy OZ – <u>www.crazyOz.com</u>
9) Cracker Ads – <u>www.london.cracker.com</u>
10) Max 80 – <u>www.max80.com</u>
11) Hallo – <u>www.hallo.co.uk</u>

Propaganda:Russia

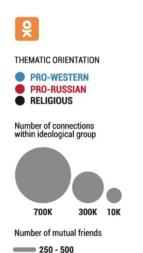
Sovereign investigated possible attempts at propaganda or disinformation from Russian and pro-Russian sources around British presence in Latvia by investigating traditional news sources, as well as (4) popular social media platforms. "NATO soldiers abase the Baltic population," "NATO soldiers will subdue the Russians of Latvia," "Women of Latvia are warned - American soldiers might rape them" The stories carry a generally anti-NATO sentiment, but include references to British forces and actions. Of all Twitter activity that mentioned NATO and one of the Baltic states, an extremely high percentage was generated by bots: 84% for Russian content and 46% for English content.



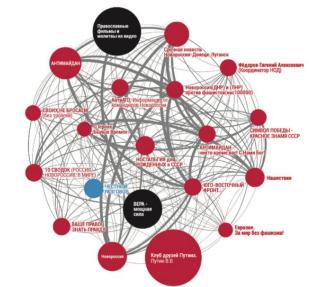
Армейский бум @yddgje510 - Арг 27 Пъяные солдаты НАТО устроили дебош в Латвии. Военнослужащие (предположительно, лейтенанты или капитаны) устроили драку с правоохранителями, будучи в нетрезвом состоянии. Для усмирения дебоширов полицейским пришлось применить перцовый газ. © Translate Tweet



Q 2 1] 7 () 6 🖂



5 - 100

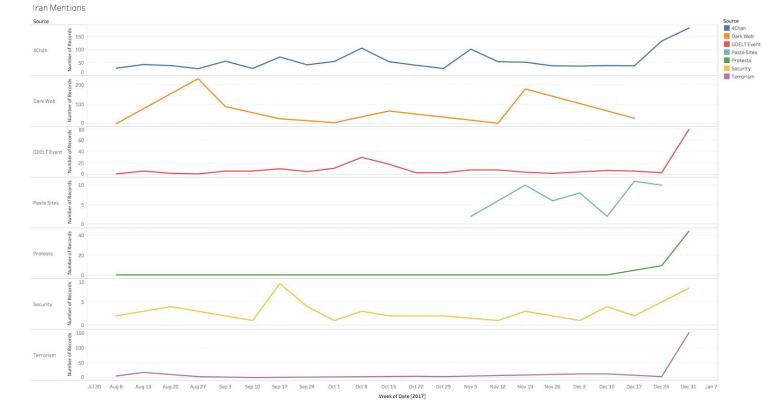


Use Cases

Chatter Analysis:Iran

Iran Protests Erupted December 28, 2017. However, observance of mentions of Iran among 4Chan, Dark Web, and Sovereign's Global Collection Network of Security, Protest, and Terrorism sites, indicated increased activity as early as December 17th. Note the expected decrease among Dark Web chatter as sources become quiet before an event.

SI's service also found meaningful intelligence surrounding Iranian cyber threat actors and exploitation activity. SI found eight Persianspeaking underground hacking forums, and over 40+ profiles associated with Iranian hacking groups and independent threat actors for entity extraction, enrichment and monitoring purposes.



The trend of sum of Number of Records for Date Week broken down by Source. Color shows details about Source. The data is filtered on Date Week, which keeps 54 of 54 members. The view is filtered on Date Week, sum of Number of Records and Source. The Date Week filter ranges from August 1, 2017 to January 5, 2018. The sum of Number of Records filter ranges from 1 to 233. The Source filter excludes Twitter Search.

Use Cases

Political Trends

Sovereign provided Facebook with the identities

and evidentiary support to take swift action in

their recent efforts to stop misinformation

campaigns. Facebook deactivated 196 pages

and 87 accounts in Brazil for their part in "a

coordinated network that hid behind fake

Facebook accounts and misled people about the

Facebook removes pages of Brazil activist network before elections

Brad Haynes

4 MIN READ Y f

SAO PAULO (Reuters) - Facebook Inc (FB.O) on Wednesday took down a network of pages and accounts used by a right-wing Brazilian activist group, cracking down on what it called a misinformation network ahead of elections in October.



nature and origin of its content, all for the

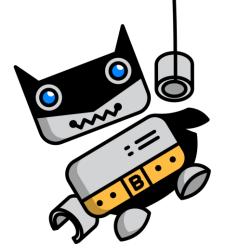


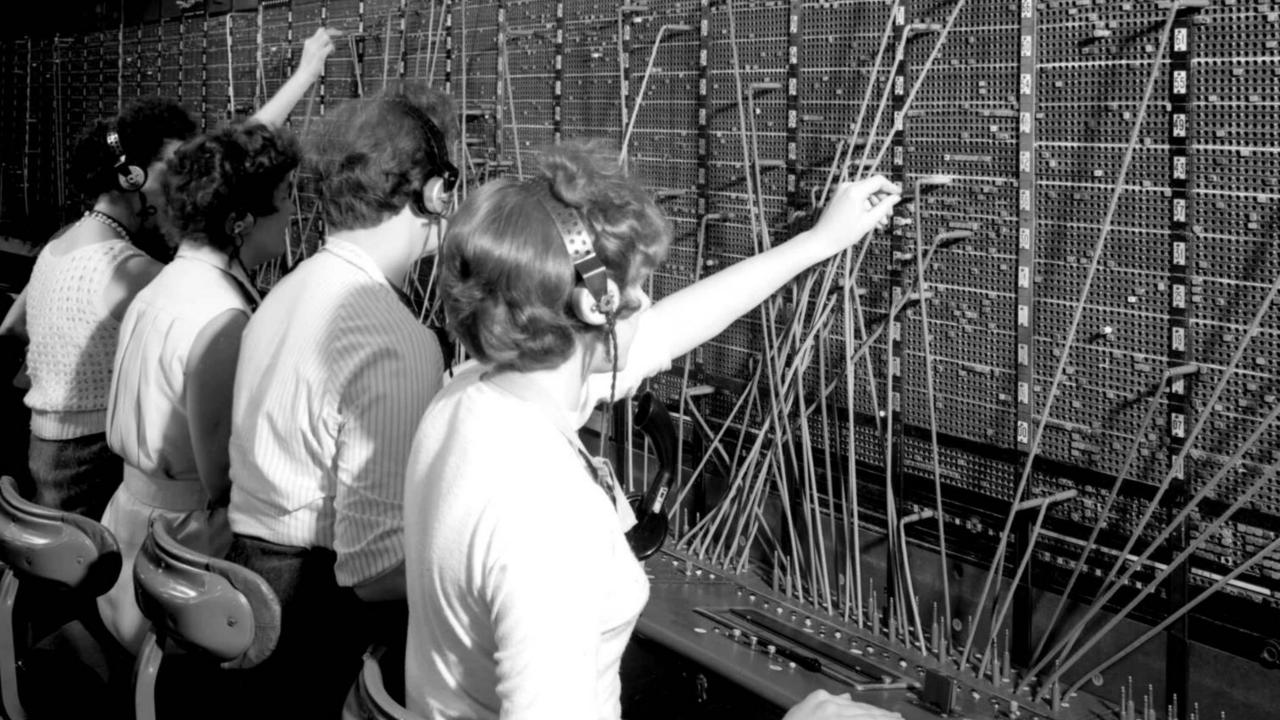
SOVEREIGN

INTELLIGENCE

Ultimate.ai

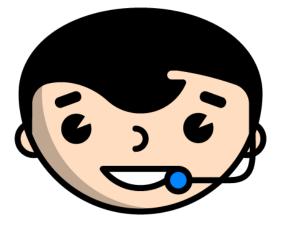
Al power your customer service





\$1.6 trillion

cost of customers switching due to poor customer service in the US (Accenture, 2017)





Augment

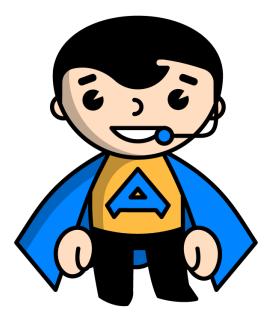
Automate





CASE STUDIES

FINNAIR

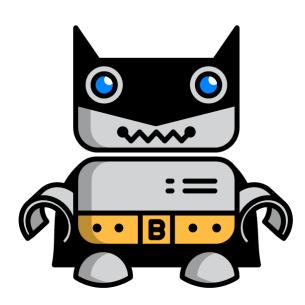


- Response times **31%** faster

- **25%** increase in number of conversations per hour for highest usage agents







- Conversational process automation is automating **20%** of total volumes, and rising



ultimate.ai

Al for Text with Human-in-the-Loop

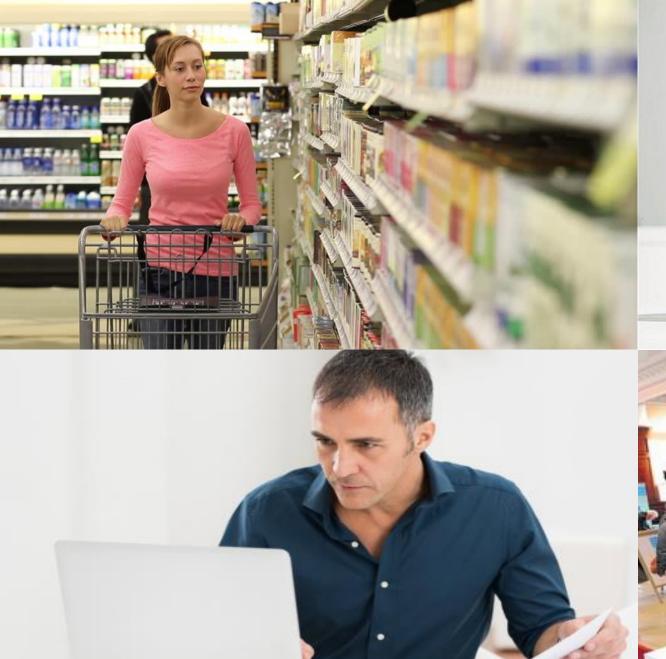
BT



www.warwickanalytics.com 23 January 2019

The Problem





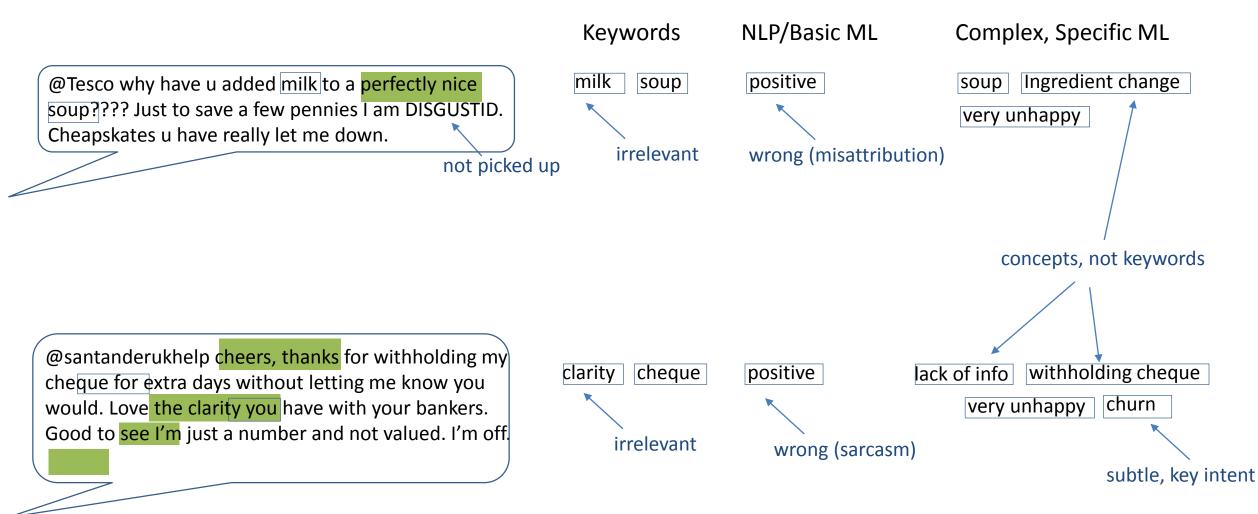








...and all ML Models are not created equally!



The Solution:



The solution is PrediCX



Manual Coding



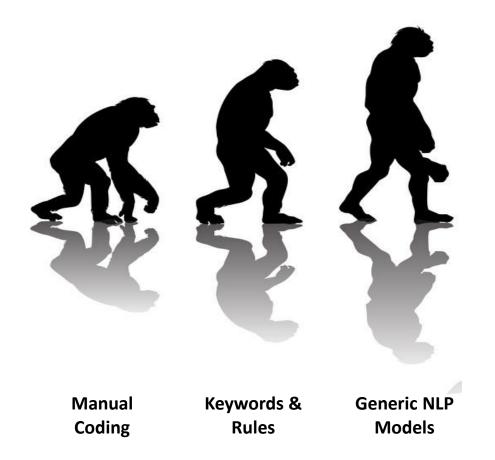
The solution is PrediCX



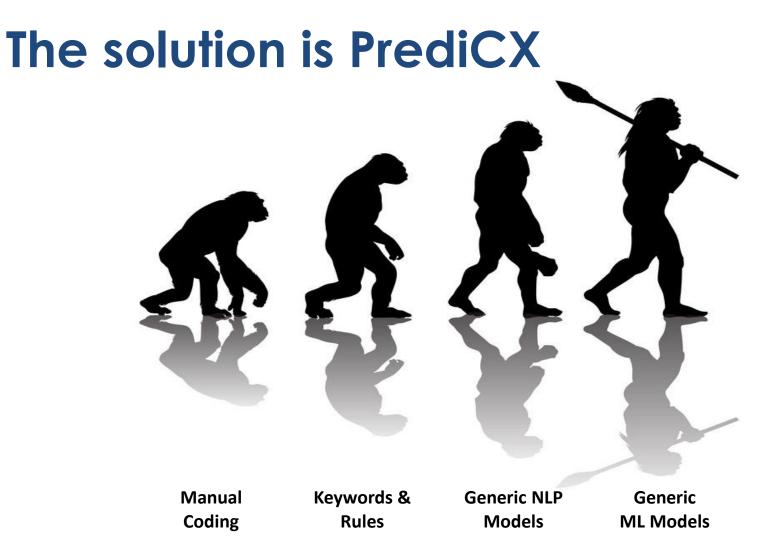
Manual Keywords & Coding Rules



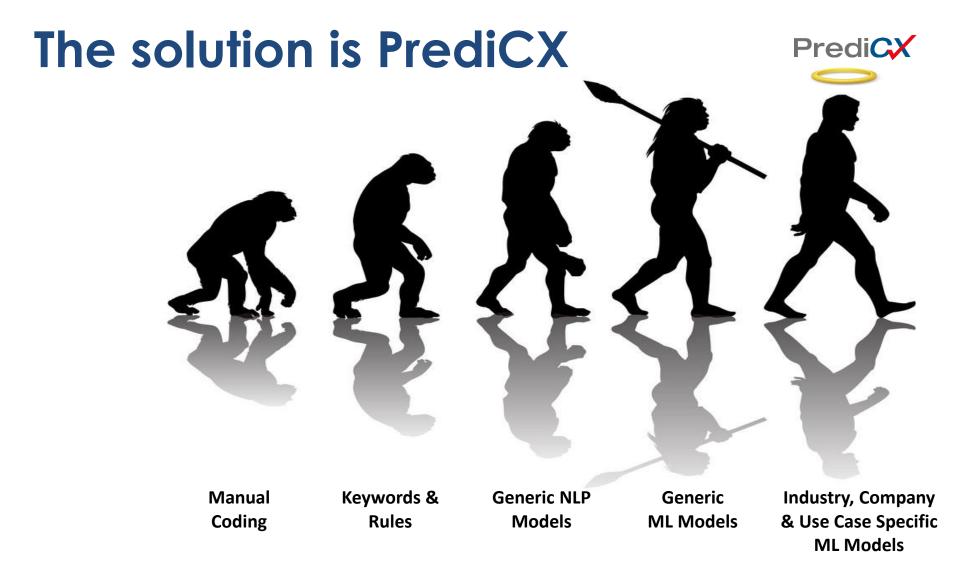
The solution is PrediCX





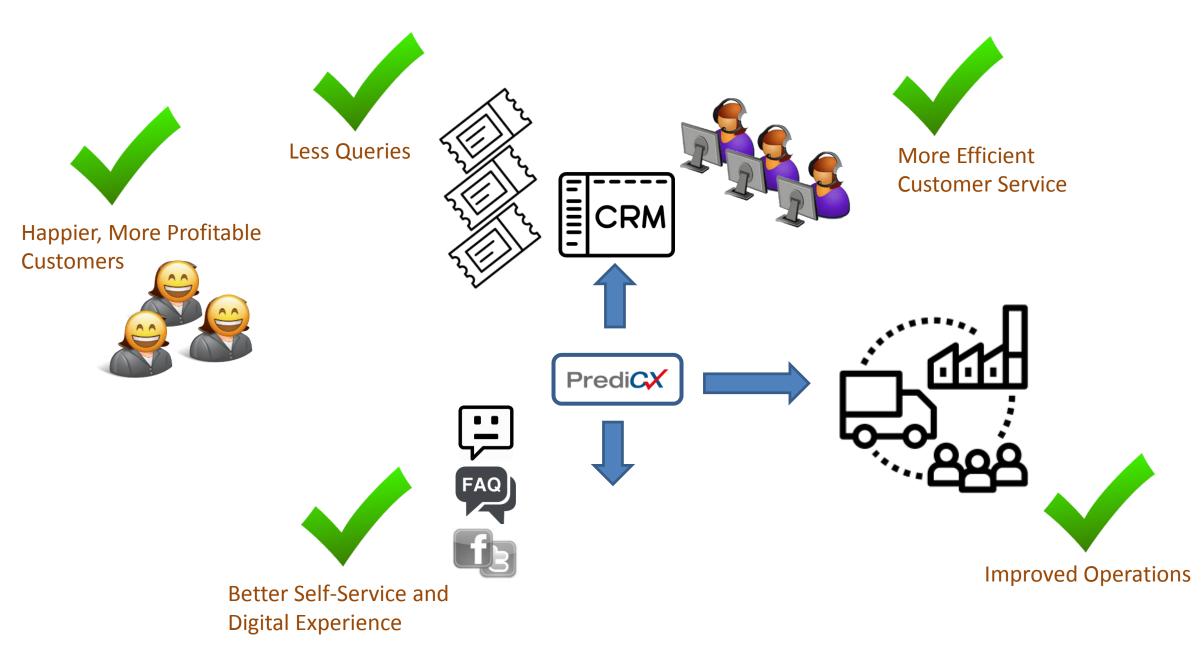




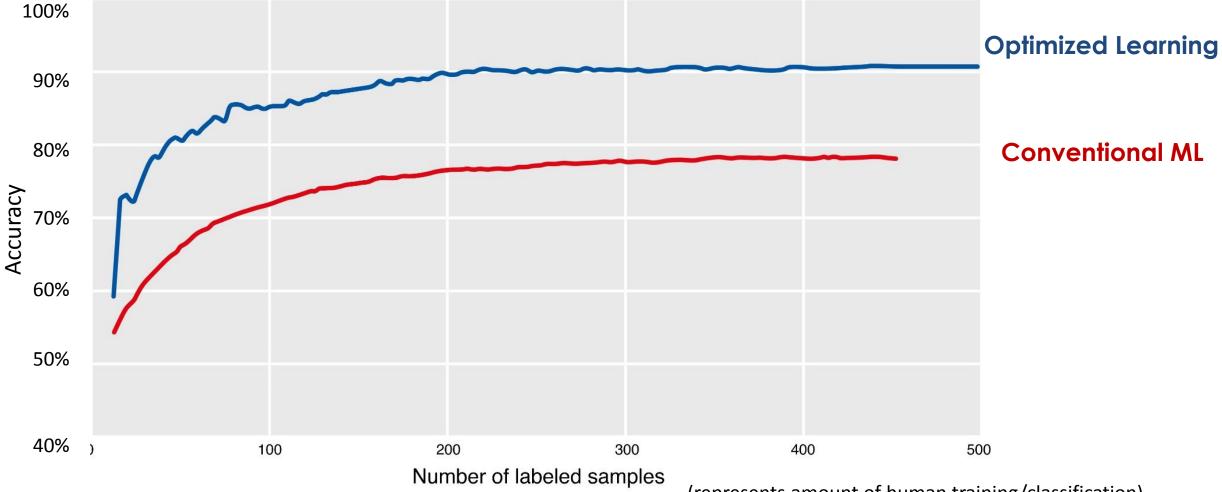




PrediCX optimises customer operations and other processes

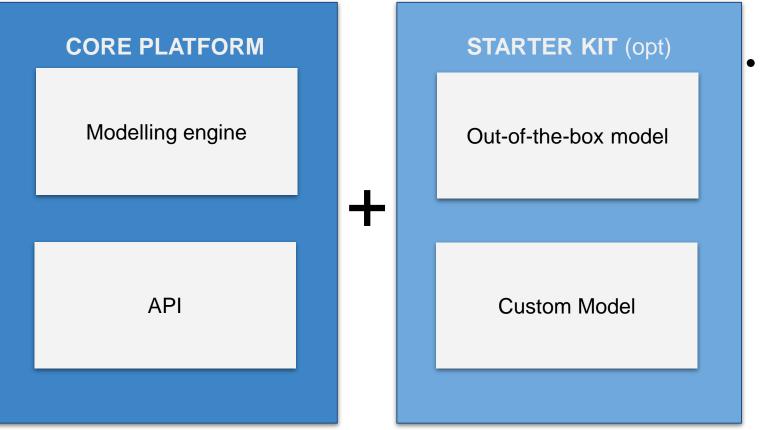


Optimized Learning: minimal effort, maximum performance



(represents amount of human training/classification)

PrediCX



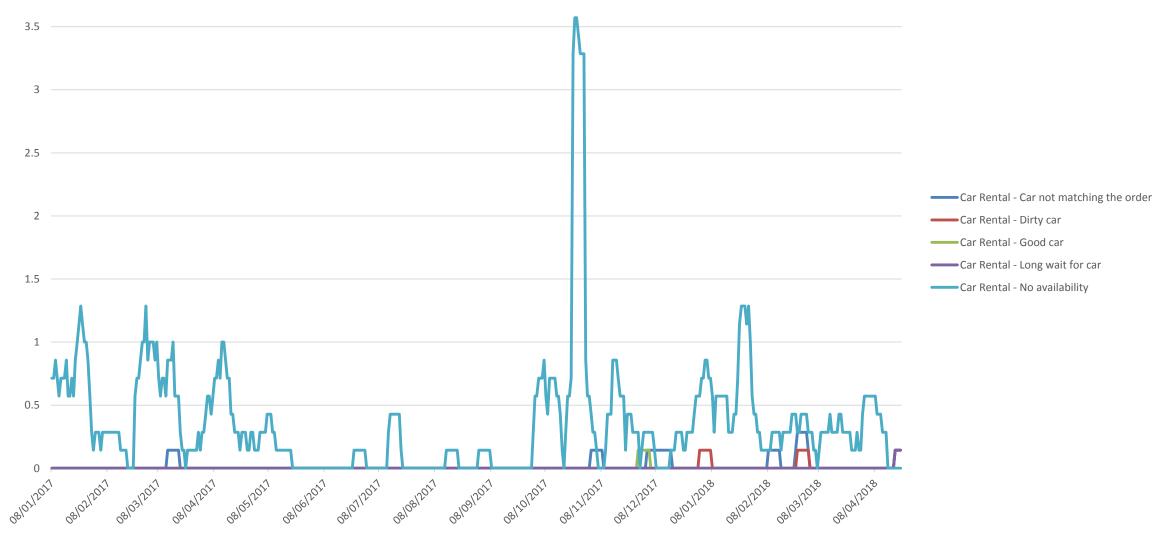
- Simple pricing
 - Per record labelled
 - Volume discounts

Case Studies



Car Hire – Concepts not Keywords



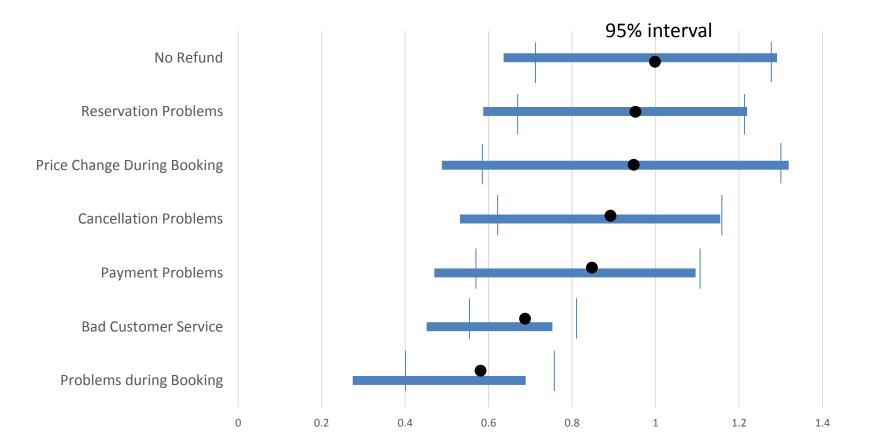


Scale is counts per day, 7-day moving average

Recommendation Engine



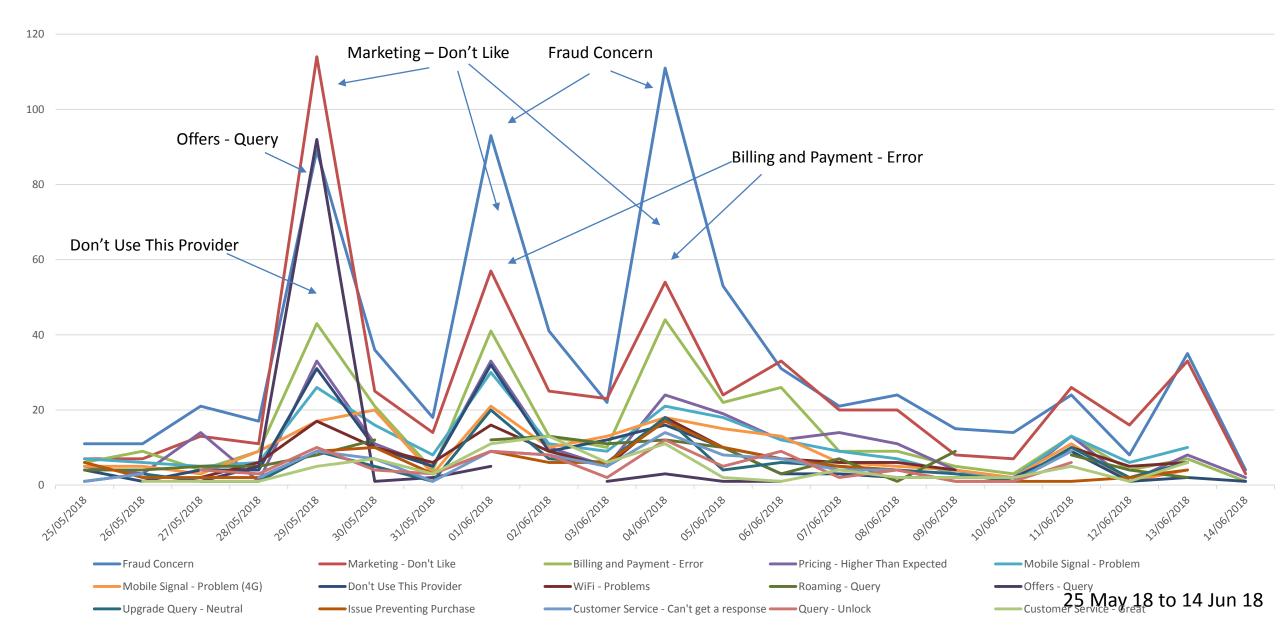
Financial Effect of Improving Top Root Causes of Churn Each by 1%



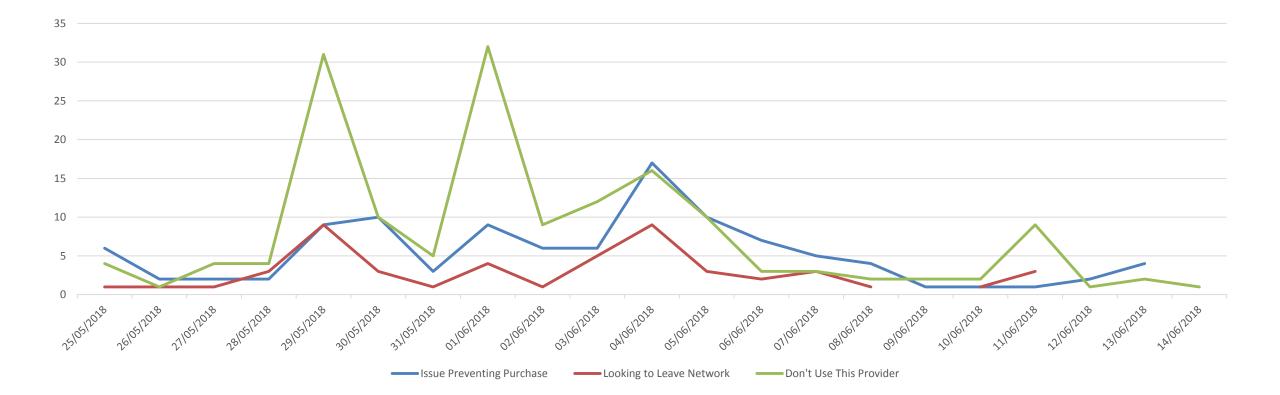
WA Analysis, Expedia Annual Report

Additional profit per annum (\$millions)

Twitter – O2's Queries Over Time (Top 15)

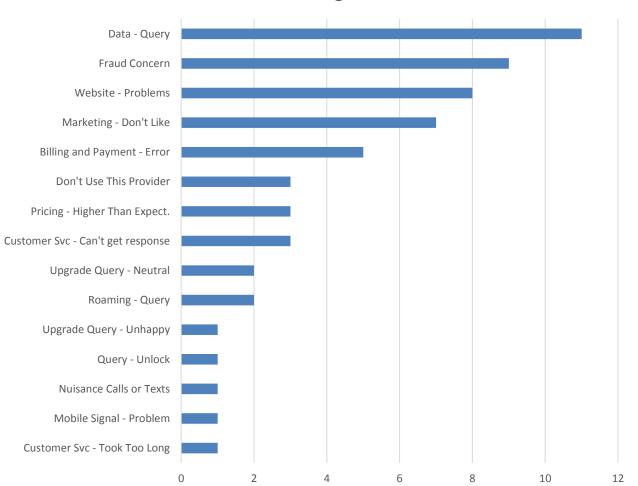


Twitter – O2 Churn Sub-Categories



25 May 18 to 14 Jun 18, queries only.

O2 Reasons for Churn (where given) [cont]



Issue Preventing Purchase

25 May 18 to 14 Jun 18, queries only.

Benefits for Customers

- Rail Co
 - Improved satisfaction 20%
 - Saving 35% costs
- Telco
 - Churn reduction 5%
 - Saving 30% costs
- Bank
 - Identified 10% churn reduction from early warning



Thank You!

How did we do?





www.warwickanalytics.com

ZOA Robotics Making industrial plants more efficient

TEAM



Thiago Azevedo

Founder & CEO

Commercial Director MGT Biomass Plant

£950m project finance, under construction.

Commercial Director Shadow Robot

Turned losses into profit.



Enrique del Sol

Lead Robotics Eng.

PhD Robotics Control

Seven years experience designing and controlling robots in nuclear industry, solar plants and for teleoperation.

Member of The Institution of Engineering and Technology (MIET).



Daniel Zheng

Lead Machine Learning

Machine Learning Engineer with 2 years experience applying ML to robotics at **Dyson**.

BA + MMaths, Distinction

PROBLEM

Industrial plants spend vast sums on routine inspections

- High labour costs
- Expensive un/scheduled outages
- Not automated



PROBLEM



Single Task



Limited Mobility



High Labour Cost Health & Safety issues!

Existing robots are not effective – no <u>autonomous</u> solutions for industrial sites

SOLUTION



10x cheaper total mobility



Autonomous data gathering

Telepresence



Subscription service reports

VALUE







More and better data from automation

- More productive staff (good)
- Lower scheduled maintenance costs (great)
- Less plant downtime (excellent)

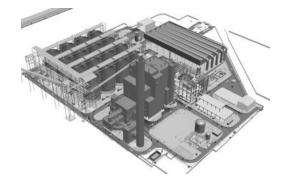
TRACTION

Three trials with keen early adopters













Keep **unsafe plant** online during routine inspections. Inspections in **unsafe** areas **when faults suspected**.

Letter of Intent signed

Permanently based robot in unmanned, remote sites.



innovation martlesham

Making industrial plants more efficient

Thank you

thiago@zoarobotics.com

NEIL MILES CEO, INAWISDOM



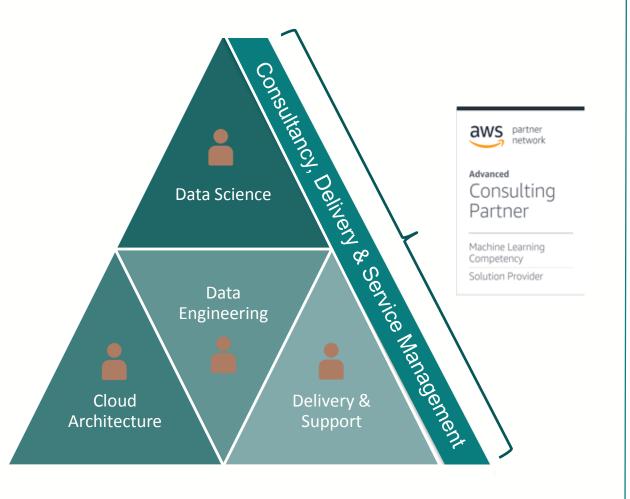


"Inawisdom was founded with a simple goal to give our customers the ability to exploit every aspect of their data using Artificial Intelligence"

Neil Miles - CEO and co-founder of Inawisdom

WHAT WE ARE

Advanced Analytics and Data Science specialists Delivering the full stack of data services



WHAT WE DO INAWISDOM >>

Use our accelerator proven Tools, Methods and Rapid approach to realise the opportunity in your data.



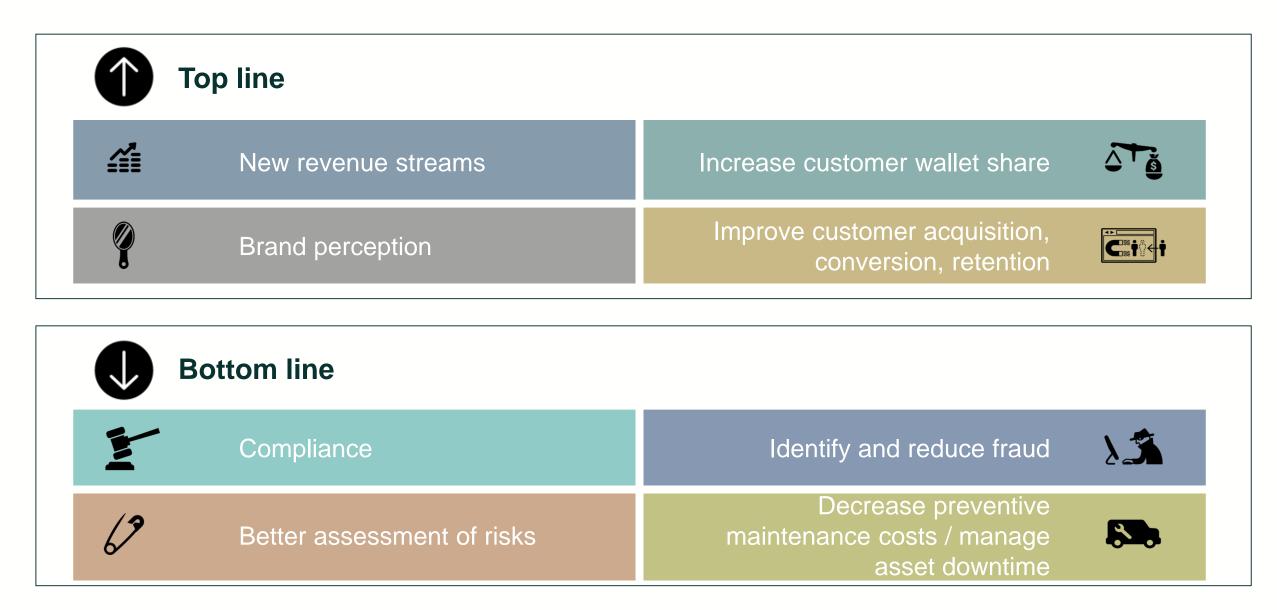
RAMP (Rapid Analytics & Machine Learning Platform

Standard Engagement Template



Follow our proven method. Benefit from our experience

AI/MACHINE LEARNING BUSINESS OPPORTUNITY





Ultimately the value of AI is not in the models themselves but in the organisations ability to harness them....."



THANK YOU

Contact Us: Neil@inawisdom.com

07778 1/35984

@Inawisdom



Al enabled Cloud Contact

Astute Solutions

BT Augmented Intelligence Event, January 2019

Reduce Customer Issues Resolution Time



Increased efficiency Cost Reduction Reduce Transaction Volumes through Smarter Self Service



Contact avoidance Cost Reduction Increase Customer Satisfaction



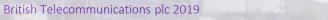
Happy customers Advocacy Enhance Brand Loyalty



Sustain/increase revenue Repeat business Improve Booking Conversion



Better success rate Increase Revenue





Digital Self Service



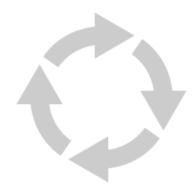
Relevant, up to date content paired with NLP and Machine Learning allows customers to get the information they want when they need it across any digital channel.

Smart Escalation



Escalate customers in the most efficient way possible when self service isn't quite enough. Use conversational context and personalization to get right agent.

Intelligent Agent Engagement



Using an integrated knowledgebase, at-a-glance customer context, and recommended next best actions, empower the agent to answer questions correctly the first time, improving AHT and first contact resolution.



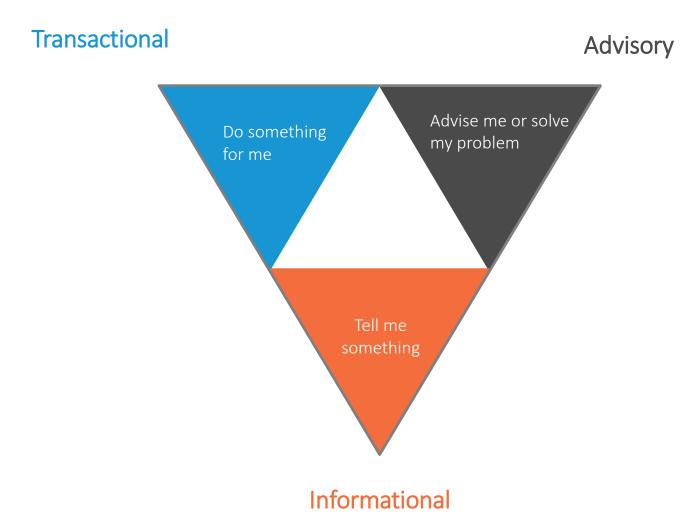


Astute works with some of the world's biggest brands

We help nearly 250 customers with 2,000+ brands, across 100 countries, in 30 languages...

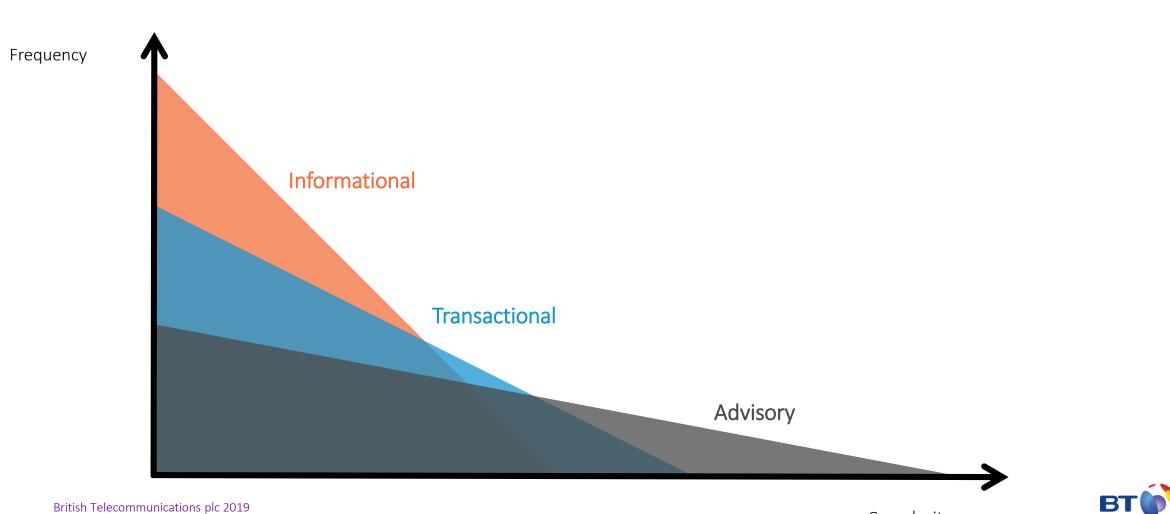
provide exceptional customer experiences that transcend platforms, channels and devices.





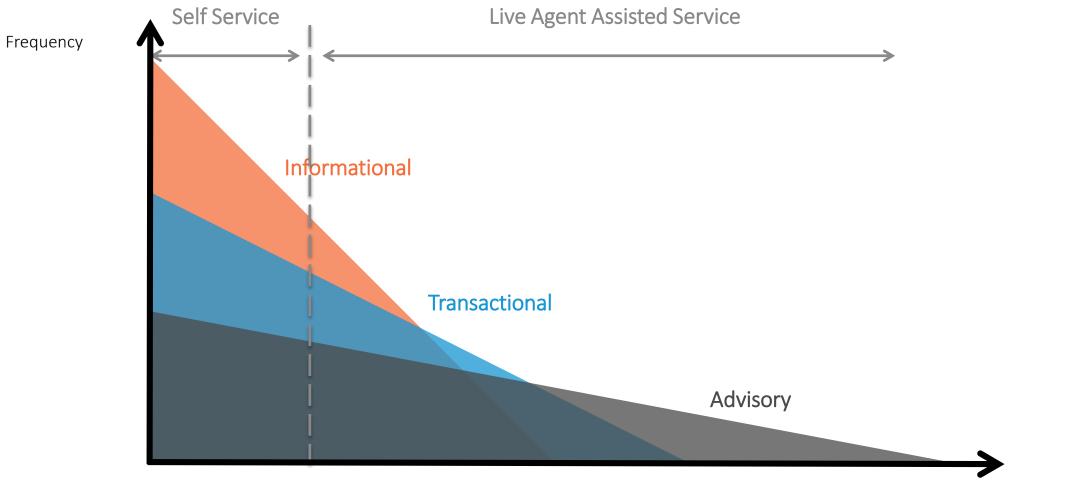


Typical Frequency Distribution of Contact Types



Complexity

Typical Frequency Distribution of Contact Types



British Telecommunications plc 2019

Complexity



Unique capabilities



Knowledgebase Foundation

Built on single right response Knowledgebase with NLP and machine learning capabilities to support users in their own language



BOT Platform – Plug & Play Architecture

Flexibility to also connect 3rd party intent engines to increase flexibility, accuracy and future proof the solution

Seamless Escalation to CSRs

seamless that provides the full context to the agent ensuring an optimized consumer and agent experience



Multiple Sources & Channels

Uses pre-approved information from existing content, business systems, and trusted external sources and offer consistency across channels



Flexible Decisioning

Flexible decision engine to trigger escalation, ensuring right intent and source is used in order to provide best response



Machine Learning to Optimize Content

Optimizes manually and auto-generated content via supervised and unsupervised learning mechanisms



ASTUTE

Thank you!

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