

Brief Introduction to NTT DATA

Let's start by introducing ourselves...



Yoshiyuki Minegishi

General Manager of Financial Solution Sales in NTT DATA Getronics Corporation

Yoshiyuki has been working in the Payment and Compliance area for more than 15 years.

NTT Data

NTT DATA Getronics Corporation

Catarina Soares





Senior Manager and Head Data & Analytics Banking in everis UK, NTT Data company

Catarina has been working in the Banking Industry for the last 12 years in large transformation programs around Data & Analytics.



NTT Data Group at a glance

NTT DATA (as part of NTT group) is a global consulting firm with a worldwide reach.

We support you with your digital transformation and operations of integrated IT platforms. With a new perspective on banking's digital future, NTT DATA helps create digital value to your business and a smoother banking experience for your customers.



Banking Capabilities Worldwide

NTT Data is composed by professionals with different backgrounds and experiences that can cover the full range of services/technologies:



Big Data & Analytics



Digital Experience



Machine Learning



Biometrics



Robotic Process Automation



Hybrid Cloud & DevOps



Infrastructure & Application Transformation



Artificial Intelligence



Testing Services



Blockchain

AML NTT DATA Getronics Corporation

AML functional landscape

NTT DATA Getronics Corporation has worked on the below components from systems perspective

Customer Information Capture	Document Management	OCR	Identification & Verification	Ultimate Beneficiary
Screening	Hits Investigation	PEP Check	Negative Media Check	Credit Check
Transaction Monitoring	SAR	Workflow	Case Management	TBML
CIF Integration	Interface with companies' databases	Risk Categorization	Reporting	Customer Risk Scoring
	Has experience		No experience	

Fircosoft Overview

Strategic partner with Fircosoft since 2003.

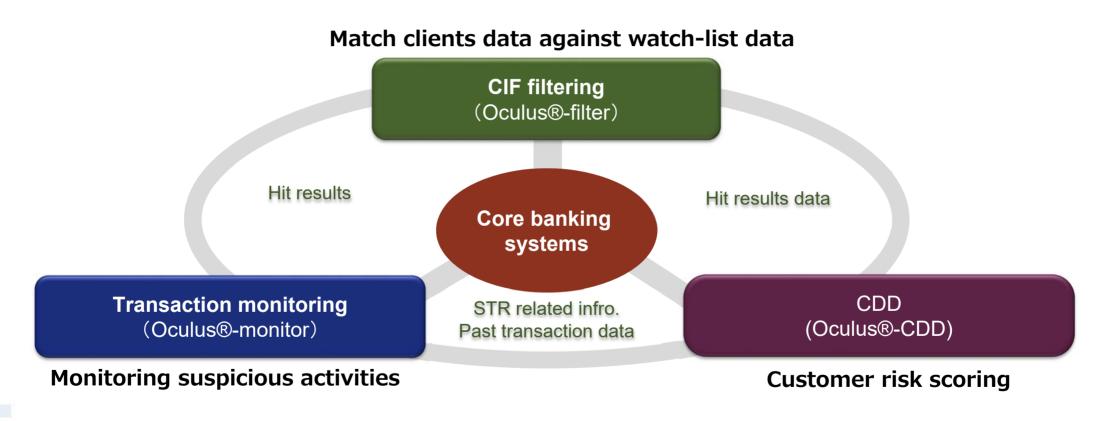
Extensive experience in implementation of Firco Filtering Suite

Only Japanese vendor with a partnership with Fircosoft

Consulting services provided by ACAMS certified experts

#	Solution	Overview	
1	Firco Continuity	Firco Continuity is a real time watchlist filtering solution designed to ensure compliance and detect & block transactions including listed parties. The solution is multi-alphabet ready and can be interfaced to any banking application, operates on all major platforms and filters any message type including SWIFT, FEDWIRE and SEPA. The solution can filter against any sanctions list (such as EU OFAC, HMT and UN), third party lists or internal Watchlists.	
2	Firco Trust	Firco Trust is a customer and entity screening solution that combines filtering intelligence with high performance processing capabilities. With Firco Trust, users can implement KYC programs by filtering existing and new customers, counterparties or beneficiaries against any sanctions, PEPs or Negative newslists. Firco Trust enables a risk based approach to scan customer databases, and offers a web based user interface to streamline and expedite decision making.	

Oculus®: in-house AML package solutions



^{* &}quot;Oculus" are trademarks of NTT DATA Getronics Corporation registered in Japan.

Trademarks of the other products/corporations/organizations are omitted on this paper.

Challenges in current AML/CFT field

- 1. More sophisticated money-laundering methods are getting being used than ever
 - Techniques are getting more sophisticated & complicated
- 2. BIG DATA is getting more and more available as means of AML than ever
 - Expected to be applied to reduction of False Positives & findings of True Positives
- 3. Much stricter sanctions & regulations are getting imposed to Financial Institutions
 - 5th Anti-Money Laundering Directive (AMLD), FinCEN CDD final rule, U.K. Senior
 Managers Certification Regime (SMCR), etc.

Know Your Data (KYD): a substantial means of KYC

1. Define your "Customers" in consistent rules

- Definition of Customers is a first step in KYC/CDD.
- If the definition of Customers is inconsistent over jurisdictions/regions, the data to be aggregated as "Customers" would be inconsistent.

2. Aggregate & collate "Data" of "Customers" in consistent rules

- Under consistent definition and rules, the data of Customers could be aggregated and collated consistently.
- 3. Then, analyze "Customers data" which are aggregated & collated correctly
 - By looking into the data which accurately represents the "Customers" of the organization, the organization can assess the risk of "Customers" correctly.

New concepts of AML as data analytics

1. "Actors based" monitoring

 Usually Monitoring rules and models are set based on transactions. But currently there are new ways available to set them by criminal groups and networks.

2. Behavior-based detection

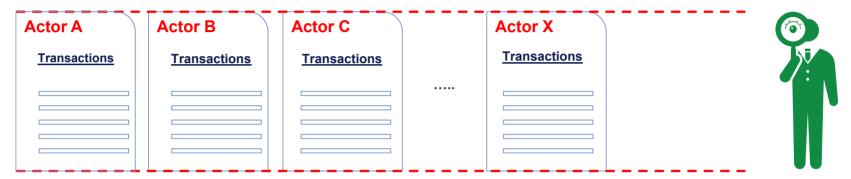
- Segment customers by behaviors
- Analyze which segments were detected for escalation, which activities seem to be involved in money laundering, which activities are close to false positives
- Connecting them together will enable more effective detection

3. Link Analysis

Detecting suspicious or hidden relationships

New concepts of AML as data analytics

1. Monitor in "Actors" base, not only in "Transactions" base.



- 2. Behavior-based detection
- 3. Link Analysis



Technology as a lever for transformation



Social

Data X
2 every
2 years

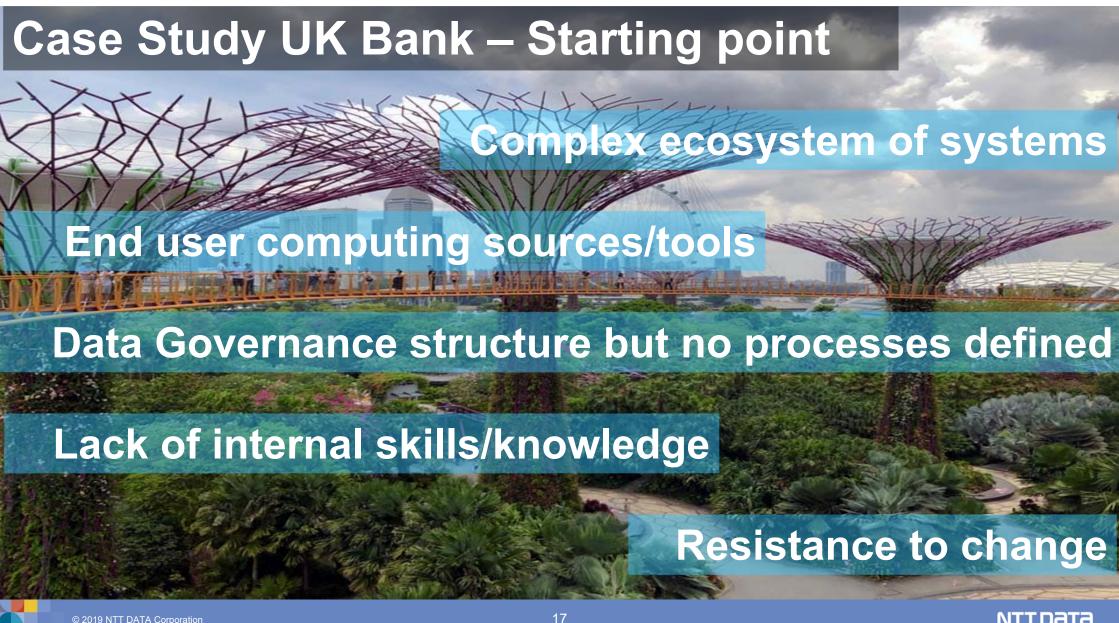
trillion GB 2018

175 trillion GB 2025



Data consistency

Wider investigations







From static rules to a model based on selflearning that identifies patterns

ii = previousElements.length; i < ii; ++i) {
ements[i].remove();</pre>

Lower false positives

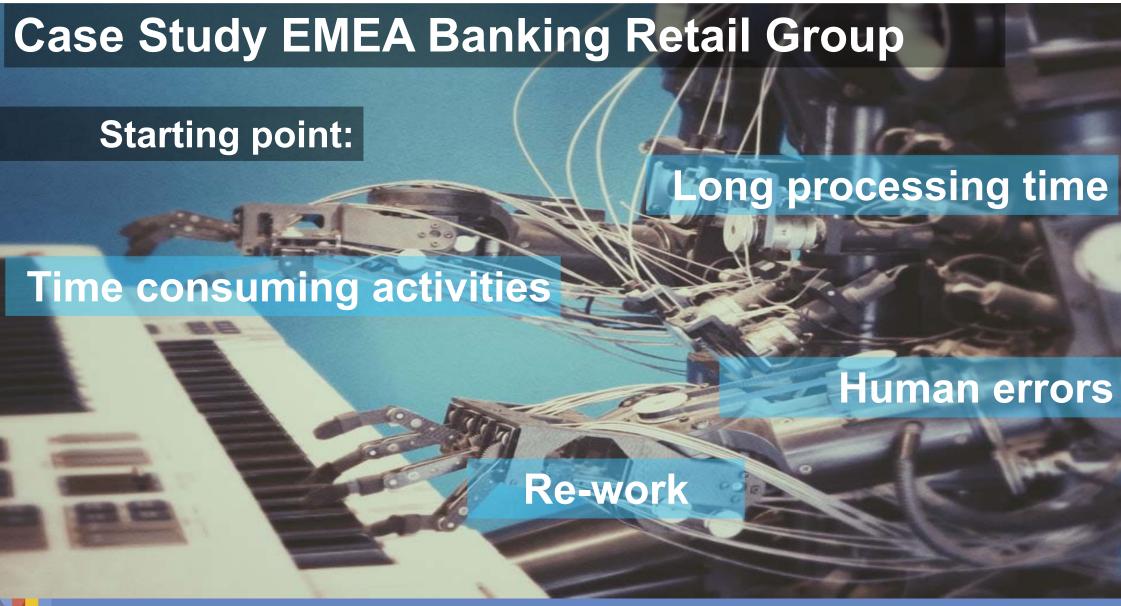
```
ements. length = 0;
                                   selectedScopes.length; i < ii; ++i) {</pre>
                             Increase speed of analysis
                               ements[i] = selected:
                               Eve(selected, function() {
                             selements.splice(i, 1);
                         Automate the analysis of low risk cases
How can Machine
 Learning & Al
                     ectedElements.length = 0;
ectedScopes.length = 0;
 improve AML/
                                            Focus on higher risk cases
KYC processes?
                     (selectedTranscludes = ngSwitchController.cases['!'
                     pe.seval(attr.change);
                     Each(selectedTranscludes, function(selectedTransclude) {
                      selectedScope = scope.$new();
                     ectedScopes.push(selectedScope
```

Adopted by 15% of Business, but 30% plans to use it

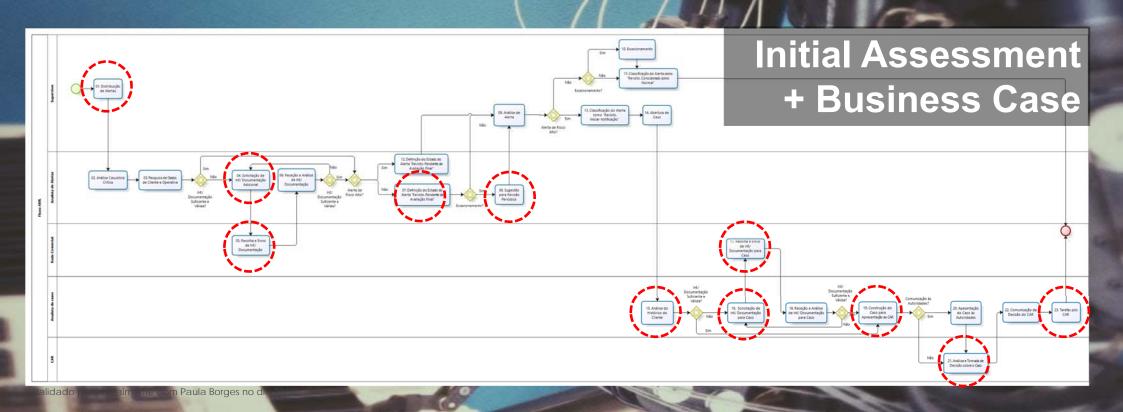


In Europe between 1999 and 2010, the number of employees grew in tandem with automation





Case Study EMEA Banking Retail Group

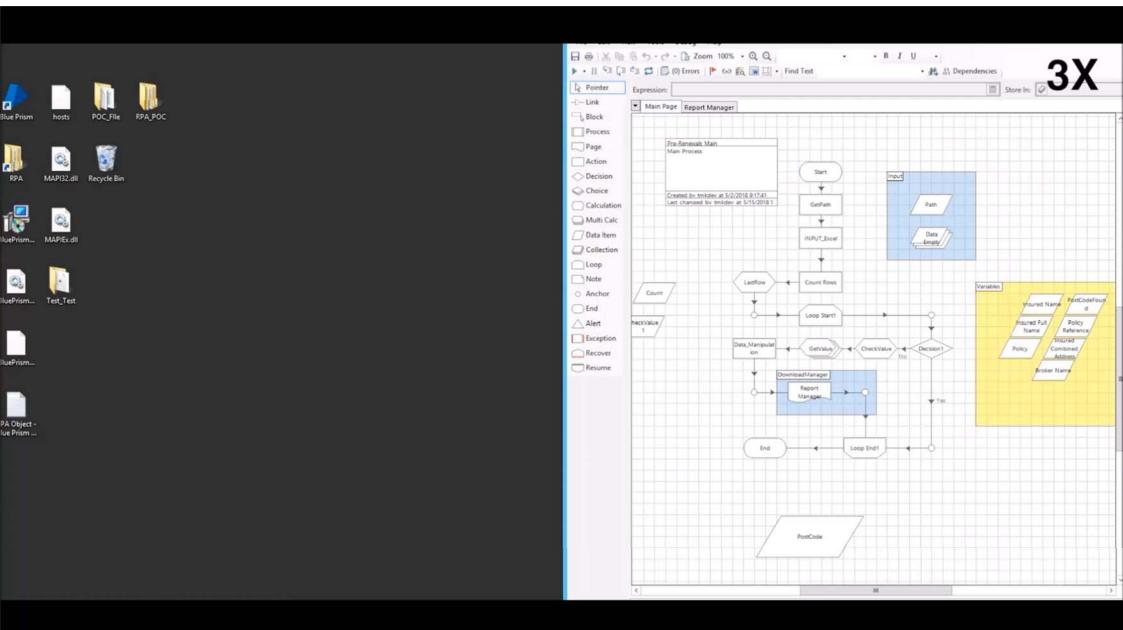


Case Study EMEA Banking Retail Group

Robots activities:

- Filing of documentation.
- Request information / documentation.
- Information Upload on Systems and Portal.
- Search and compile information for analysis.
- Validation of information / documentation.

Savings €1.5 million







Before reaching out to new technology for transformation

First, analyse data from multiple aspect to capture the core issue

It is not as simple as putting the new technology (such as AI) into the operations that will solve the problem.



Second, clarify how to perceive the new technologies

There are two main aspects that need to be considered and aligned...

Position

Question...

How to utilize the new technology in production?

Further Question...

Is it something that supports human operation?
Is it something that replaces the human operation?
Does the both? But at what level?
Or something else?

Explanation

Question...

Does the logic behind the results derived by new technology is needed?

Further Question...

To whom this needs to be disclosed? And why? What is the definition of the clarity? At what level of the explanation is it needed? How much information is needed?

Value Alignment



Trusted Global Innovator