

Robotic Process Automation



The Application of RPA to the Commodities Industry

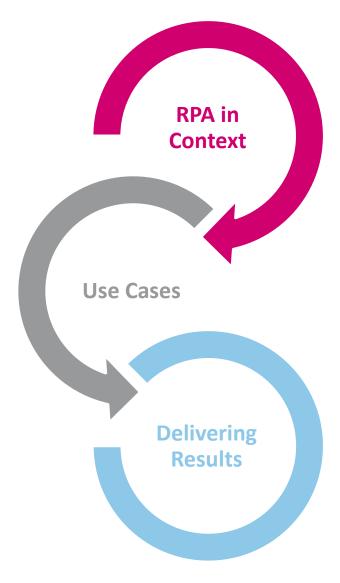
21 May 2019



Key Question:



How can Robotics Process
Automation ("RPA") solutions help
support the Risk & Compliance
agenda across the Commodities
Industry?



Introduction Nick Tallantyre

Baringa

- ▲ Partner in Baringa's Energy & Resources Practice
- ▲ Lead the Global Energy & Commodities Trading business





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About Baringa Partners



Market-leading consulting company with a focus on energy, commodities and financial services

Market turnover of approx. £150m, circa 700 professionals

Strong track record across Trading & Trading IT Strategy, Risk Advisory and Transformation Delivery

Reputationdriven business, with over 80% of our work coming from repeat business Baringa
works across
the commodities
value chain from
Producers,
Traders and
Consumers









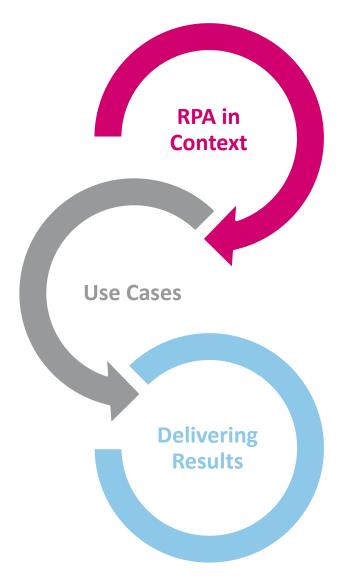








RPA is playing an ever increasing role in our markets but some pre-conceptions still exist







DAILY NEWS

World - Business - Finance - Lifestyle - Travel - Sport - Weather

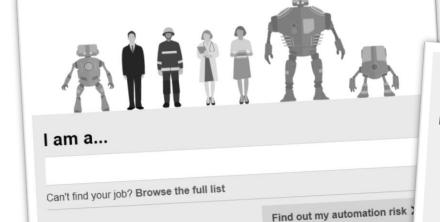
23-Oct-2017

THE FUTURE OF EMPLOYMENT: HOW SUSCEPTIBLE ARE JOBS TO **AUTOMATION?**

According to estimates, about 47% of total US employment is at risk

AUTOMATION STIRS UNREST

Workers see 'robot revolution' depriving them of jobs



NEWS EXTRA

World-Business-Finance-Lifestyle-Travel-Sport-Weather

23-Oct-2017

THE NEW WORKFORCE

Human jobs will be unrecognisable in five years' time

LESSONS FROM OFFSHORING:

The big concern in the UK is about job losses......This is largely based on the media coverage.....job losses from sourcing business services abroad seem to be pretty small for the UK compared to total job creation in business services....."

---- Advanced Institute Of Management Research ----

What is Robotic Process Automation (RPA)?



The application of software that mimics human users to perform repeatable processes and tasks that previously required a human to perform



What?

- RPA is non-invasive software which mimics humans activity (there are no robots!)
- RPA can also sit across multiple systems and platforms
- RPA software interacts with systems from the front-end like a human would do, without interfering with system integration
- It can perform repetitive tasks more quickly, accurately and tirelessly than humans



Where?

- Standardised, repeatable, rules-based, high volume processes (eg. Processes traditionally offshored)
- Processes which lack the business case for inclusion in large system implementation, or require rapid improvement
- Short term regulatory requirements



Why?

- RPA is quick to deploy benefits realisation possible within weeks or months
- Broad range of benefits beyond cost reduction including improved efficiency and customer experience, increased control, reduction in errors and scalability

Demo – MIFID2 reconciliation process



Video demo removed – available from nick.tallantyre@baringa.com

- Shows a BluePrism robot driving a MIFID2 data file reconciliation process automatically between a client file and a web resource

Question for the Audience?





Do you have Robotics Process Automation (RPA) solutions deployed within your organisation today?

- A. Yes, fully operational
- B. We have experimented perhaps a proof of concept
- C. No

What benefits can RPA deliver?



Cost reduction / capacity generation



Can cost as little as 1/3 the price of an offshore FTE & 1/5 the price of an onshore FTE

Improved quality / control



- Robots execute tasks in consistent, standardised manner
- Near zero error or fraudulence with audit and session logs captured to enhance control

Timeliness



- Enables 24/7/365 execution
- Reduces cycle times typically 1 robot can do the work of 2-5 FTEs

Customer and colleague experience



- Frees up skilled individuals to allow them to get closer to their customers
- Enhances colleague experience by improving service provision

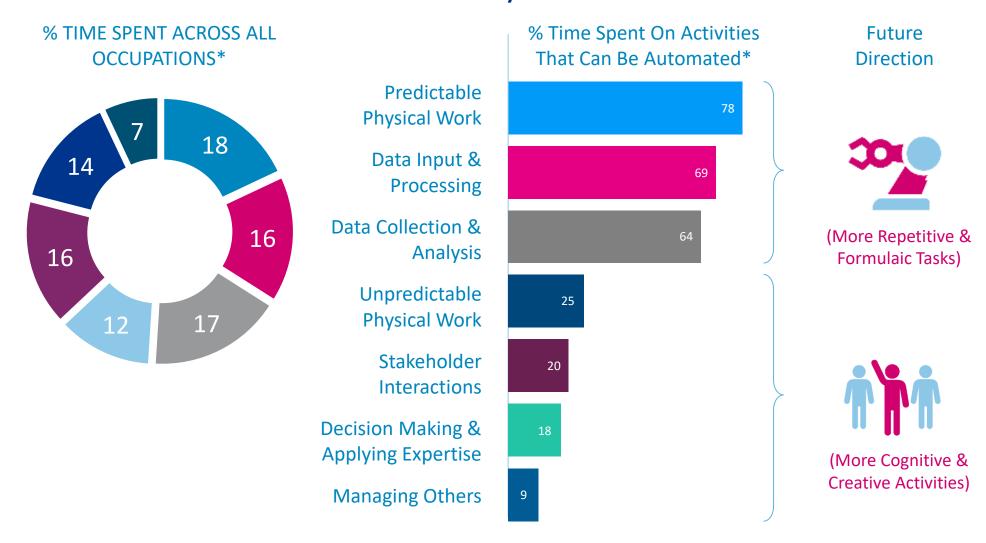
Scalability



- Scale in response to peaks and troughs of demand
- Robots can execute many different tasks in a given day

Analysing activity-type is the most accurate way to examine the technical feasibility of automation

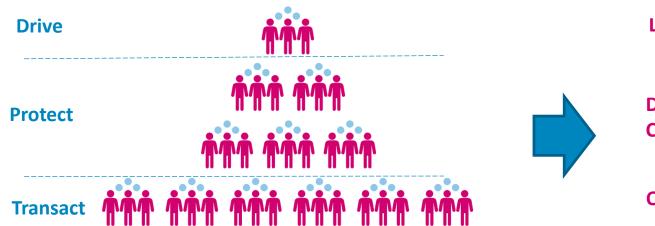


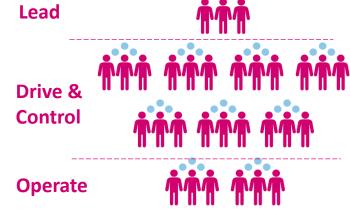


^{*} US based cross industry client research

How can organisations shift their focus?







Characterised by

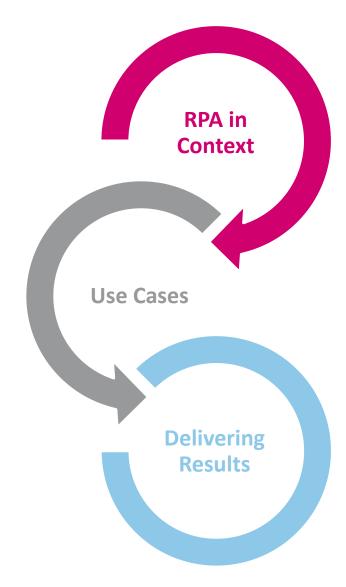
- Cyclical outputs
- Focus on transaction control
- Large data reconciliation effort
- Human Computing

Characterised by

- Effort shifted from cyclical to responsive reporting
- Data driven Business Partnering
- Increased business focus in support teams
- Data stewardship



Within the Risk & Compliance space, what use cases can we see for RPA?



Where do we see most value in Risk & Compliance for RPA?



Partnering & Relationship Management



• Requires inter-personal action and human intelligence

Management of Change



Requires human judgement; "hearts and minds"

Risk Reporting



Certain tasks are repetitive; data processing that can be mechanised

Risk Planning & Analysis



• Certain mechanical aspects exist; analysis requires human interpretation

Compliance and Monitoring



Substantial data processing requirement; human interpretation

Heavy workflow in on-boarding processes

Business Operations



Operational processes around cash, margin and collateral

Use Case: Compliance and Monitoring

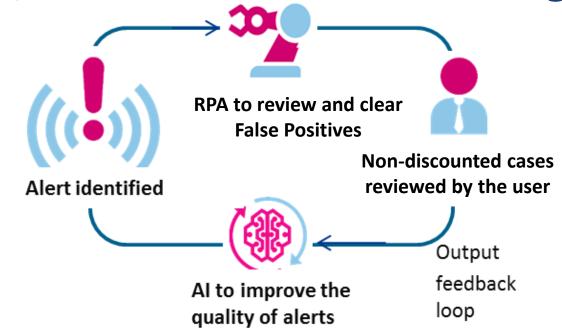
- e.g. Market Abuse surveillance of traders
- e.g. Anti-Money Laundering alerts

Key Challenges

- Accuracy: 95% of alerts are false positives
- Cost: High cost in maintaining due to high volume
- Sustainability: Ability of organisations to sustain the process and deal with the volume

(*) An AML analyst spends:

- 75% of time on data collection
- 15% of time on data organisation and entry
- Only 10% of time on analysis



RPA and "Intelligent Automation"

- Ability to interact and draw from multiple systems
- Perform a first triage of all alerts.
- A significant number of false positives can be discounted by the automation tool.
- User reviews residual cases, a feedback loop is created to learn over time and reduce false positives

🕈 Baringa

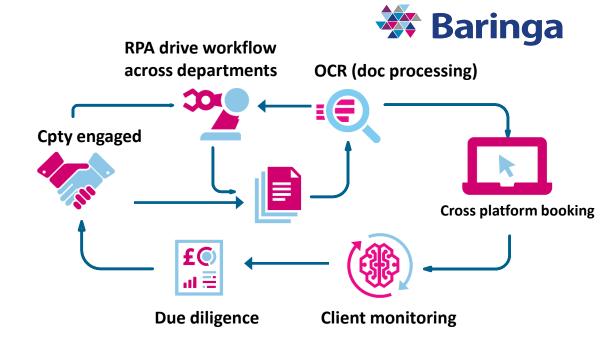
^{*} Booz Allen report (Apr 2016)

Use Case: Know Your Customer (KYC)

Client on-boarding and Due Diligence process

Key Challenges

- Process Complexity: Many departments (legal, credit, operations, tax) are involved in a complex workflow
- Manual Data Entry: Multiple entries of data across systems including paper documentation
- Repeat DD: Hard to sustain a repetitive and mechanised due diligence process on active clients



RPA and "Intelligent Automation"

- Ability to automate and direct a complex workflow across multiple departments, entering data into multiple systems
- Automate paper handling processes through augmented capabilities including Optical Character Recognition
- RPA solutions can automatically scan news feeds or client reports / websites for information around financial status change for repeat <u>Due Diligence</u>

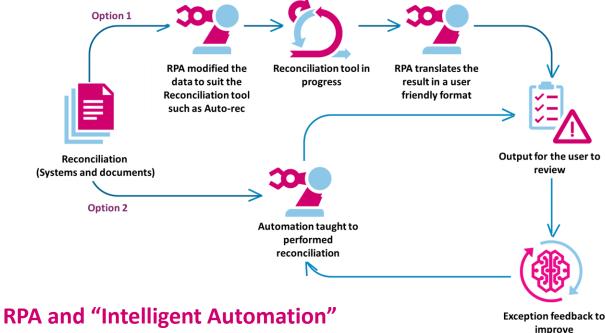
Use Case: Middle Office Reconciliations



- e.g. Margin account reconciliations
- e.g. EMIR Portfolio reconciliations

Key Challenges

- Manual Data Processing: Collation of information from a range of disparate sources and files
- Speed to reconcile: Regulatory requirements (e.g. EMIR) can stipulate daily process depending on portfolio composition
- Margin optimisation: Cash or collateral can be tied up unnecessarily unless process is streamlined



RPA tool runs non-invasively and accurately across multiple systems

- For Organisation who own a reconciliation tool/ engine, RPA can support data standardization and modification of inputs and outputs to the rec tool reducing the manual effort.
- For cases when there is no reconciliation tool available, RPA can act as a **Reconciliation engine**
- A further AI engine can receive feedback from the output received and improve the quality of the reconciliation tool and breaks identified

reconciliation

Question for the Audience?



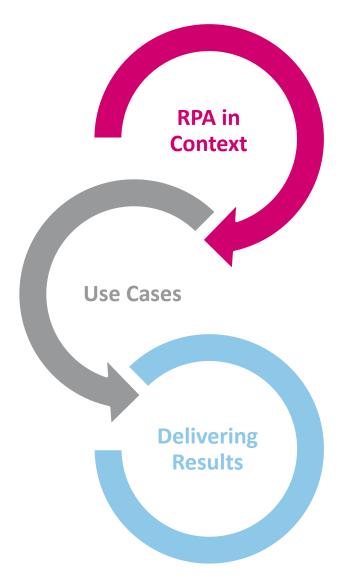


What do you see as the primary motivation to use RPA in your enterprise?

- A. Reducing effort and overhead on manual tasks
- B. Better control and hence lower operational risk
- C. Allowing our business to scale faster



How can we **Deliver Results** and setup our initiatives for success?



The tools alone don't guarantee success





Delivering Results



What are the different viewpoints within the organisation?



Question for the Audience?





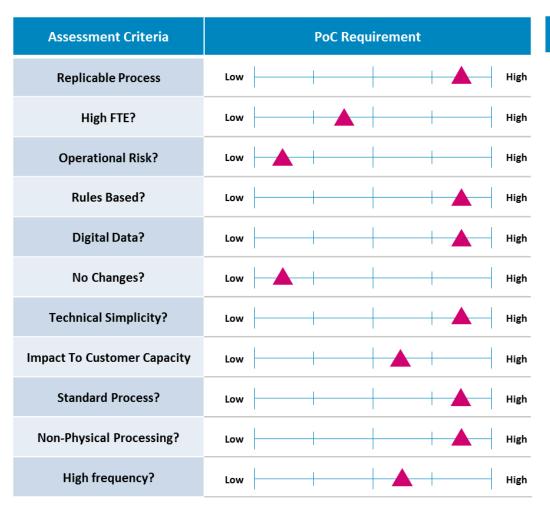
What would hold you back from deploying RPA? What are the biggest limitations or concerns?

- A. Lack of skills and knowledge
- B. Hard to get IT and business aligned on approach
- C. Don't trust the robots to perform risk of error
- D. People are worried about their jobs

Where to start

Baringa

Finding the right use cases for a Proof of Concept



Baringa Process Selection Approach

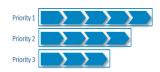
- ▶ Balance benefit levers against costs and technical feasibility
- ▶ Drive business case definition and prioritisation and focus on organisational buy-in



Determine process

Identify processes that have the greatest potential for automation to further assess

suitability with SMEs for automation against key criteria Create business case aligned to Labour Cost Model for deployment and delivery

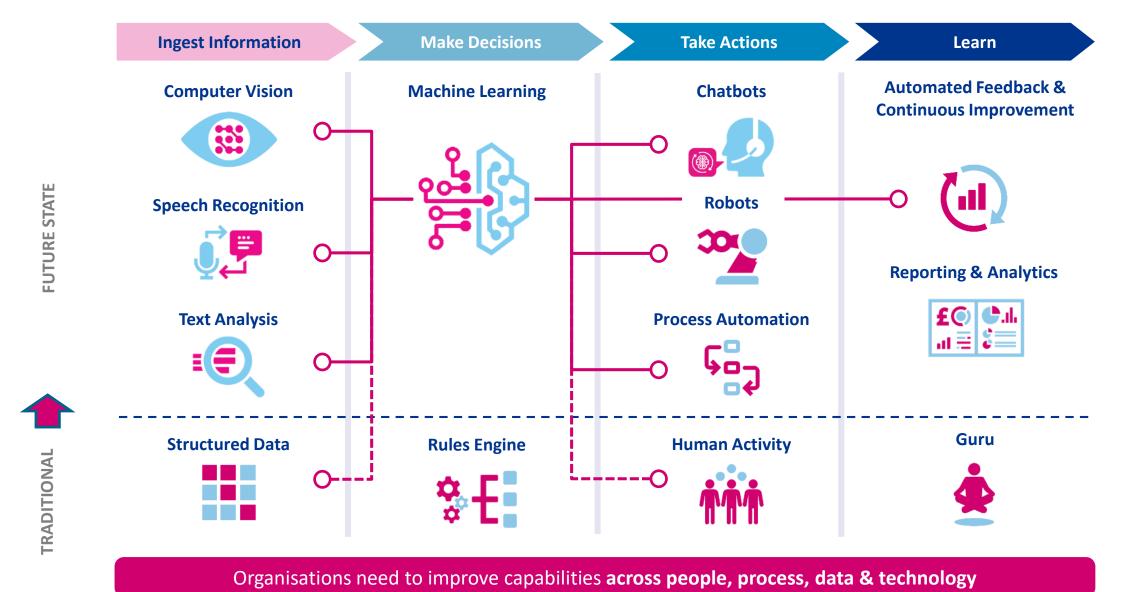






How will the future look?





How will the future look? – Regulatory Text Analysis



Video demo removed – available from nick.tallantyre@baringa.com

- Shows a robot connecting to regulatory news websites, downloading raw text data, condensing and cleaning through a Python script then running a neural (learning) network to analyse key contents to come up with a relevance score and filter for the compliance team of a banking client





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