### SIFMA Conference

### **Robotics & intelligent automation**

June 14, 2018

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The better the question. The better the answer. The better the world works.

### Today's agenda

- **1. Need for increased automation**
- 2. RPA spotlight use cases and video
- 3. Panel discussion on automation journey



### The need for increased automation



### Industry FOCUS reporting themes

In April 2018, EY performed an industry scan of five ANC firms. The information was provided by the firms' broker-dealer finance group and/or FINOP. Key themes included:

FOCUS Reporting: 15c3-1 Net Capital Calculation 15c3-3 Customer Protection Reserve Calculation

17a-5 FOCUS Reporting: control focus and staffing

- Level of automation There are no readily available comprehensive vendor packages nor is there a target industry standard for true automation; pervasive use of manual spreadsheets with inputs from emails and/or PDFs
- **Net Capital**: firms are holding an additional capital buffer
- Customer Protection Reserve Calculation: Two firms perform weekly customer protection calculations and have no concerns around static data; Three firms perform daily calculations and do have concerns about static data
- Common Issues: Struggle with manual adjustments on spreadsheets, data quality and availability, and certain interpretative issues such possession or control and customer/non customer classification
- Control focus: Focused on improving, controlling and certifying source data for their customer reserve calculation and IT general controls
- Staffing: Core regulatory reporting team made up of 10–20 employees, including 5 to 10 subject matter experts to assist with broker-dealer reporting

### Typical monthly FOCUS reporting process

Many broker-dealers are heavily reliant upon manually driven processes using spreadsheets and/or internally developed proprietary tools with reliance on data quality and availability from data providers.

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## What is Robotic Process Automation (RPA)?



# Virtual workers (robots) perform business tasks similar to users, handling complexity and volume with ease



## An enterprise-class software automation solution that runs unattended by people:

- Unwinds legacy of people-based quick fixes
- Performs laborious and repetitive tasks reliably
- Scales up and down to match peak loads
- Emulates business user behavior
- Shifts control directly to the business rather than coders
- Delivers ROI in weeks or months through a rapid, agile approach





## SAP Bank reconciliation – for AR process https://vimeo.com/179056270

### What are the benefits of RPA?





### **RPA** applicability in Finance

There are several areas within a typical finance organization that can quickly benefit from RPA, depending upon the level of existing automation, tools employed, and manual activities.

Operational Accounting	Procure to Pay	General Accounting	Financial & External Reporting	Performance & Management Reporting	Budgeting, Planning and Forecasting	Policy, Controls, Governance & Compliance	Internal Audit	Treasury	Capital Management & Investments	Investor Relations
Security pricing / NAV	Strategic Sourcing	Chart of Accounts Maintenance	Financial Reporting	Responsibility Reporting	Strategic Planning	Accounting Policy & Gov.	Risk & Control Framework	Debt/Equity Management	Capital Planning	Stakeholder ID and Analysis
Investment Accounting	Vendor Administration	Allocations & Adjustments	Regulatory Reporting	Org profit reporting	Annual Budget	Regulatory Policy & Gov.	Functional Auditing	FX Management	Capital Structure and Asset level	Stakeholder engagement
Custody	Contract Negotiations	Journal Entry Processing	Reporting	Product Profitability	Quarterly/ Rolling forecast	Statutory Policy & Gov.	Consultation	Liquidity Management	Business Case Support	Stakeholder relations
Distribution	Accounts Payable	Reconciliations	Statutory Reporting	Customer Profitability	Earnings Forecast	Mgmt. Accounting Policy & Gov.		Cash Management	Acquisitions & Divestitures	Corporate Communications
Fund Accounting	Requisitions & PO Processing	Inter-company Transactions	Audit Support	Fund Profitability		Internal Process & Controls		Capital Strategy	Project Accounting	Rating Agency Relations
Accounts Receivable	Payroll	Consolidation		Cost Development		SOX Compliance		Bank Relations		
Performance attribution	Expense Accounting & Reimbursement	Close		Cost Allocations		Tax & Treasury Policy		Treasury Strategy		
TA – shareholder recordkeeping		Fixed Asset Accounting		Funds Transfer Pricing		Finance Master Data Governance		Global Economics		
Loan Accounting		Securities Pricing & Product Control		Ad hoc Reporting						
Billing & Collections		Legal Entity Mgt. / Maintenance		Analytics & Decision Support			┌── Leg	end		
Majority of RPA Opportunity in Finance								High Potential	Situationally	valuable
2018 EY Robotics										

### Finance - Regulatory reporting

The end-to-end regulatory reporting production process timeline takes significant effort and time to complete. The below process demonstrates the automation of data aggregation, preliminary analysis, and reduction of errors.



### Finance - Data extraction

Operationally intensive and time consuming effort is required for data extraction processes for different applications and the ledger. Automating data extraction therefore increases efficiency and better ensures a complete and accurate download.

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Completes activity

### Panel discussion and Q&A



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