



...BUT IT'S NOT DISTRIBUTED EVENLY

DIGITAL COMPANIES ENJOY

10x DIFFERENCE IN PERFORMANCE

Sales per employee

Netflix = \$4,500,000

Average bank = \$350,000

\$1 BILLION

Meson, Netflix's Al-based recommendation agent reduces customer churn by several % saving \$1b+



Automotive giant to pay \$1b for startup in race against Ford, Toyota to be first to self-driving cars



WHAT DO THESE DIGITAL COMPANIES HAVE IN COMMON?



DIGITAL CUSTOMER EXPERIENCE RUNS ON DIGITAL OPERATIONS



Access



Context



Immediacy



Precision



Agility













Access

Context

Immediacy

Precision

Agility









Unstructured Data



Limited Capacity



Conversations





ROBOTIC BOTS

Use apps UI like people do Operate at scale Always available



Before

People + IT

Big and long IT projects
Fragile disparate systems
Solving problems with people

After

Configuring, not developing

Non-disruptive UI-based automation Agile deployment
On-demand use of resources

Machine Learning power

Exception discovery Exception routing





70%+ of all data is unstructured 200,000 data entry jobs on Indeed.com alone 8% human entry error rate

#copypaste

COGNITIVE BOTS

Process unstructured data
Learn from and teach people
Always available



Before

Rules and scripts

Mapping processes
Documenting rules
Programming & scripting

After

Learning from doing

Harnessing existing data
Adaptive controls for compliance
Continuous improvement

Machine Learning power

Best algorithms
Best task-algorithm matching
Non-disruptive training

Anatomy of cognitive automation

1. Input data arrives

8. Bot and People do Statistical QC to ensure quality

7. WorkFusion packages the model into a cognitive bot and routes work to it

6. WorkFusion trains algorithm on data to create Machine Learning models



Virtual Data Scientist

4. Clean data gets captured

f(x)

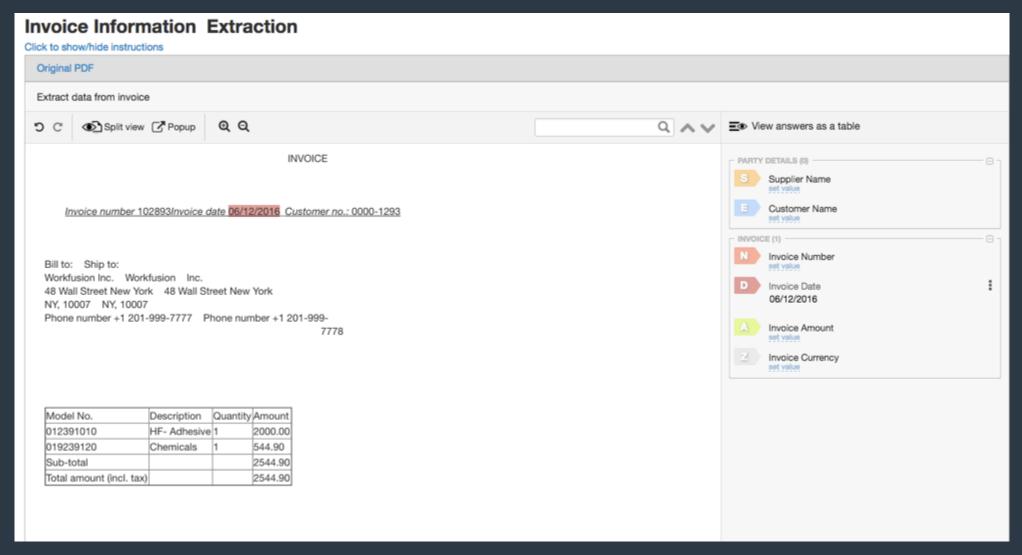
5. WorkFusion selects best algorithms for the task

2. Data processed by people in WorkSpace

3. Output delivered

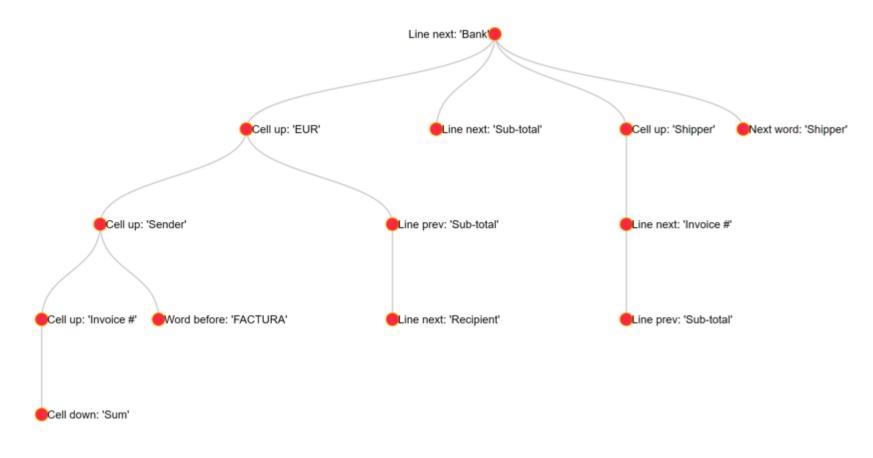


"How does cognitive / ML learn?"



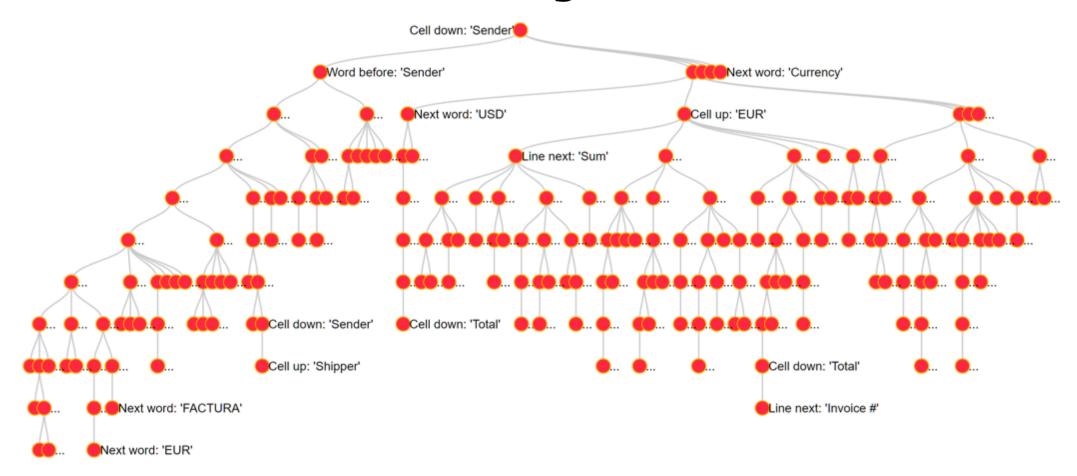


Machine Learning is about programming by giving examples





... and doing it at scale that cannot be done by SME





CONVERSATIONS

10x transaction cost when agent gets involved 25% of agent interactions can be automated Access to all information is key to customer satisfaction

#press1for

CHATBOTS

Naturally conversant
Complete tasks
Always available

#turingtest

Before

Phone call and maybe chat

Call centers
Web chat with an agent
Interactive Voice Response (IVR)

After

1:1 omni-channel conversations

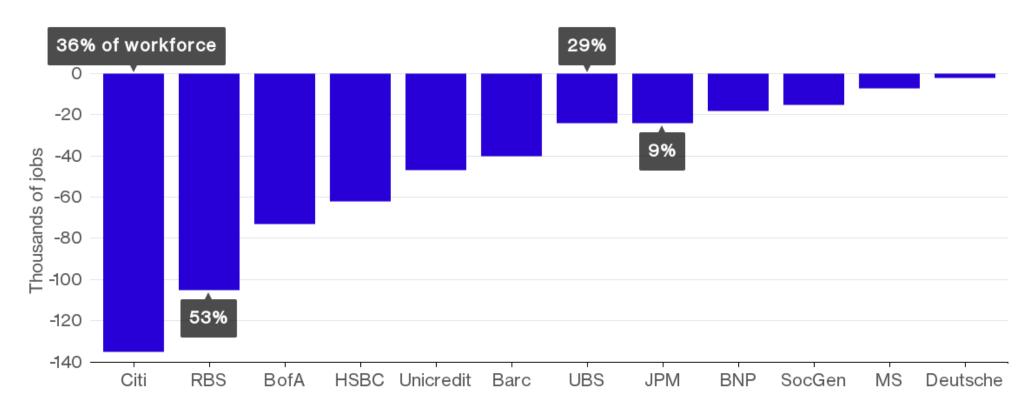
Every channel
Seamless integration with automation
Full corporate and personal knowledge

Machine Learning power

Conversation understanding Situational responses Knowledge management



Shrinking banks



Source: Company filings.

Figures, as of Sept. 30, 2015, show declines from peak employment following the crisis. 2015 data for Barclays and BNP Paribas based on company announcements.





CROWD

Do any manual work
Available on-demand
Fill specialty gaps

#workfitness

Before

Employees or contractors

Signing contracts
On-/off-boarding
Managing overhead

After

Crowdsourcing

Global employee + freelance workforce Full range of data protection \$0 overhead

Machine Learning power

Intelligent training and work routing Algorithmic quality management Algorithmic cost optimization

WorkFusion

Intelligent Automation



Smart Process Automation



Smart Crowd



Chatbots









Core Apps

Unstructured Data

Limited Capacity

Conversations



WorkFusion

Intelligent Automation



Smart Process Automation



Smart Crowd



Chatbots



Cognitive Bots



Robotic Bots



People



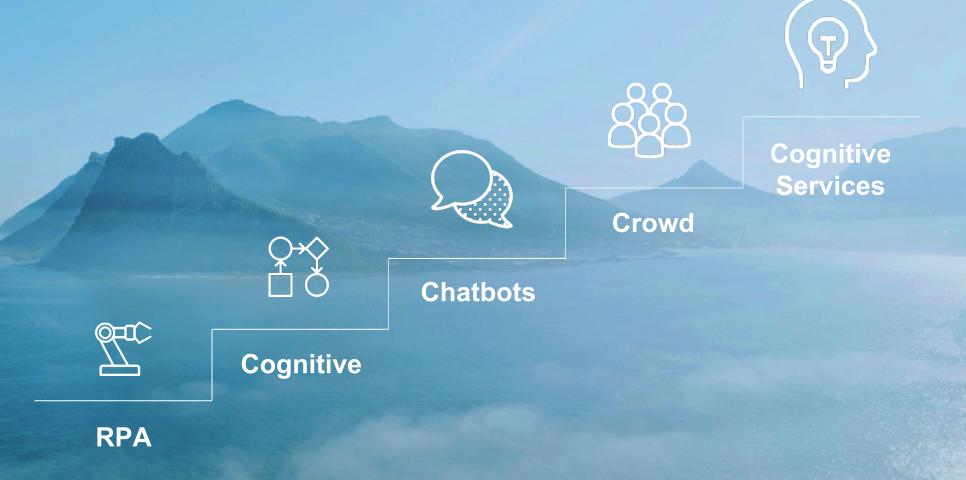
Crowd



Chatbots



Stairway to Digital Operations







Accounts Payable: Invoice compliance

Low coverage: 10% checked only

Highly unstructured: invoices

High-volume: 1000s of transactions/day

Time-sensitive: same day processing

Global: 80 countries





80% Straight-Through Processing rate invoice compliance

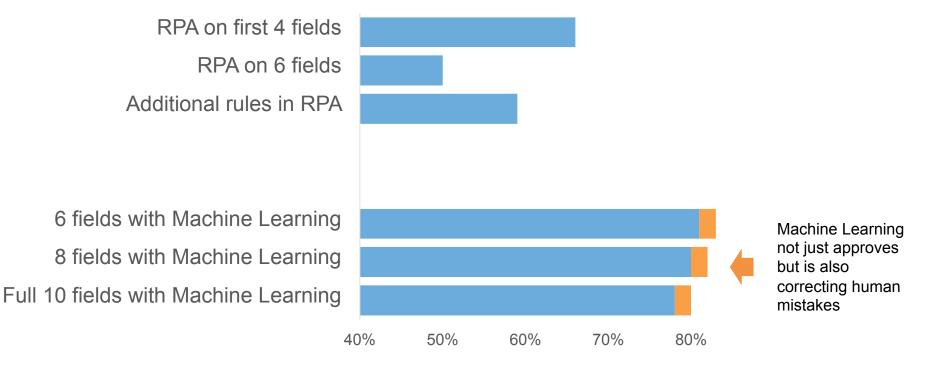
Phase 1: RPA

Testing how much can be accomplished with RPA

Phase 2: SPA

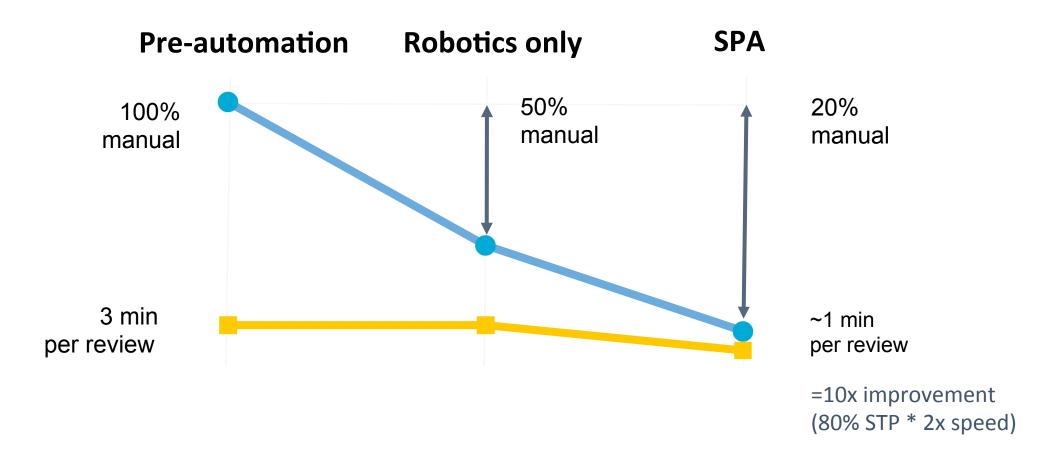
Machine Learningbased compliance based on 3000 transactions

Straight-through Processing %





10x improvement resulting from automation and speed gain

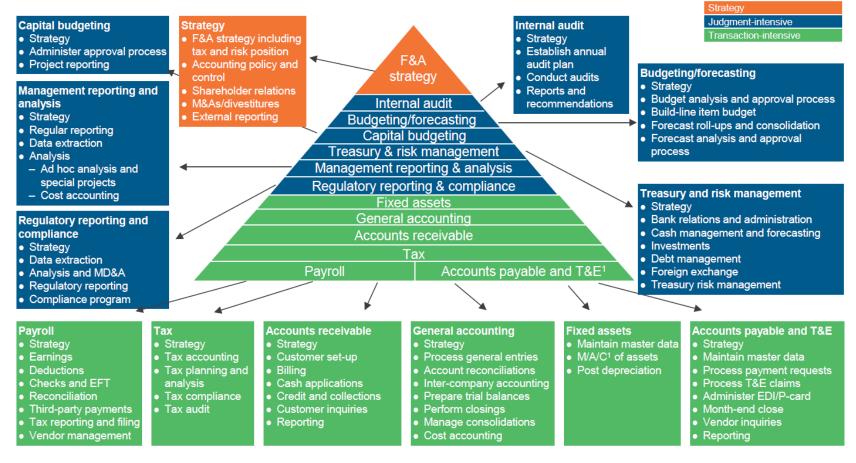




31

FnA map

Functional definition of FAO





WorkFusion

Copyright © 2015, Everest Global, Inc. EGR-2015-1-R-1402

13



FnA Automation Heatmap

Treasury / Billings & **Financial** Accounts **Payable** Collections Reporting **Accounting** FP&A Common Strategy, Policies, and Level 2 Capital Planning & Management Journal Entry Processing Accounting Policy Reporting Budgeting Procedures Major Cash Management Consolidation Accounting **Process** Billing Management **Audit Support** Forecasting Group Master Data Maintenance Equity / Debt Cash Management **Deferred Acquisition** Purchase Accounting Planning Ratings Agency Relations Cash / Billing Receipts Ledger Maintenance SEC / GAAP Reporting Financial Analysis and Review **Banking Relations** Ledger Close Accounting **Cash Application** Statutory Reporting **Bank Reconciliations Collections Management** Reconciliation Regulatory Filings **Payment Processing Expense Accounting** Dunning Invoice Processing Reconciliations More Less T&E Processing Payments & Refund Processing **Automation** benefits



CONFIDENTIAL 33



50% of \$18 trillion of trade is financed by banks

Open account

Documentary collection

Letter of credit

Cash-in-advance

More secure for Exporter





...at the same time

Regulated: Foreign Trade Policy / DGFT, FEMA, banking (KYC), taxation

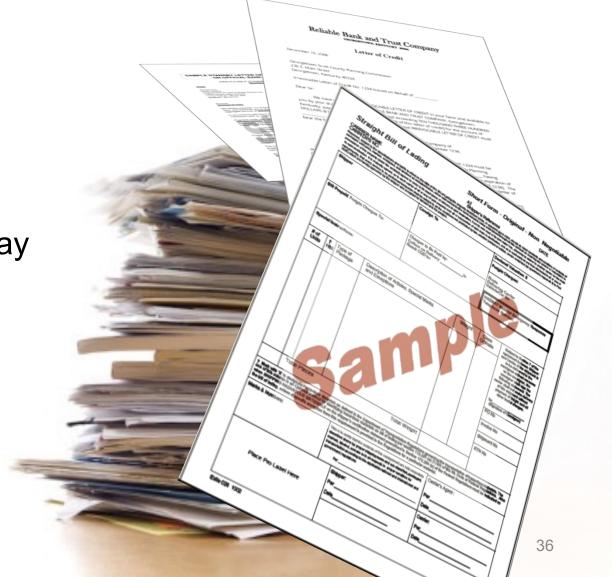
Highly unstructured: invoices, bills, declarations, certificates, letters

High-volume: 1000s of transactions/day

Time-sensitive: same day processing

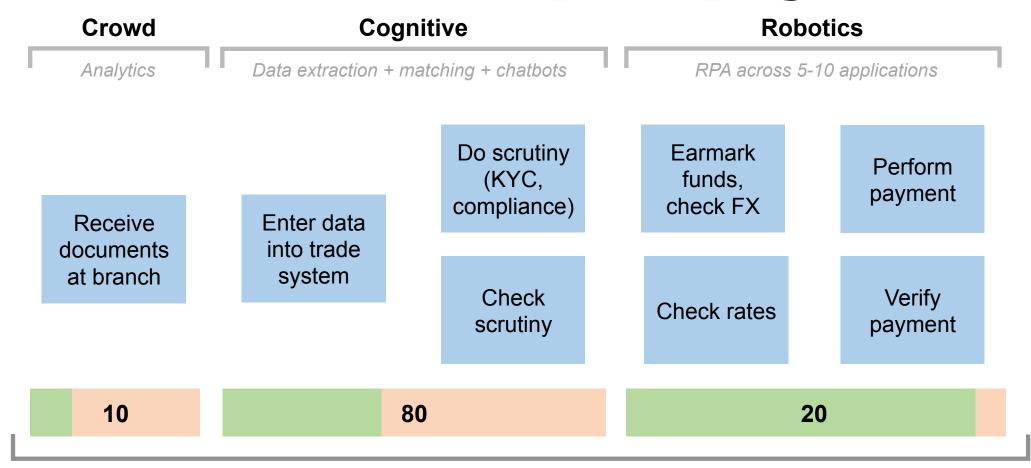
Complex: FX, delayed collections, loans, inter-bank, cross-border

Cross-system: multiple core systems





Trade finance: import payments



Headcount: 110 > 47 FTE

Automation rate: 57%



Business Case

\$7m savings over 3 years 6 months payback

Current State

Process	FTE	FTE Cost	Total FTE Cost
Trade Finance	77	\$37,000	\$2,849,000
Know Your Customer	170	\$35,000	\$5,950,000
Reconciliation	188	\$22,000	\$4,136,000
Total	435		\$12,935,000

Target State

Automation	Workforce Reduction	Total Annual FTE Savings		
54% 41%		\$1,153,845		
45%	34%	\$2,008,125		
35%	26%	\$1,085,700		
42%	32%	\$4,247,670		

Investment Return

Year 1		\$.75M	\$.8M	(50% Benefit Year 1) \$ 2.1M	l		
Year 2		\$.3M	\$.8M		(100% Benefi	t Year 2) \$ 4.	.2M
Year 3		\$.2M	\$.8M		(100% Benefit Year 3) \$ 4.2M		
	-2M		-1M	0 1M	2M	3M	4M

Key Assumptions

- Reducing time and effort will create FTE capacity that can be realized as hard savings to the P&L
 Workforce Reduction = 75% * Automation Percentage (based on partial FTE utilization and other factors)
- FTE compensation figures are annual cost estimate averages (USD) and include direct and indirect compensation, operational costs including hard and soft provisioning, hiring and training





