

CFO Breakfast Roundtable

A special edition for Life Science and Health Care Sector

Automation in Payables process, Big Data Analytics, and SG&A Benchmarking

Today's agenda

8:00 am Doors Opening

8:00 am – 8:20 am Breakfast Networking

8:20 am Welcome Remark **Christian Boettcher**
Partner, Life Science and Health Care Specialist

8:25 am – 8:45 am Automation in Payables process **Pankaj Arjunwadkar**
Director, CFO Program International Leader

8:45 am – 8:55 am Big Data Analytics:
Data has a better idea **Bronte Tomlin**
Senior Consultant, Data Scientist

8:55 am Q&A

9:00 am – 9:20 am SG&A Benchmarking **Oliver Will**
Consultant, Life Science and Health Care Specialist

9:20 am Wrap-up and Discussion **Pankaj Arjunwadkar**

9:30 am Closing

Welcome Remark

Christian Boettcher

Partner

Life Science and Health Care Specialist

Automation in Payables process

Pankaj Arjunwadkar

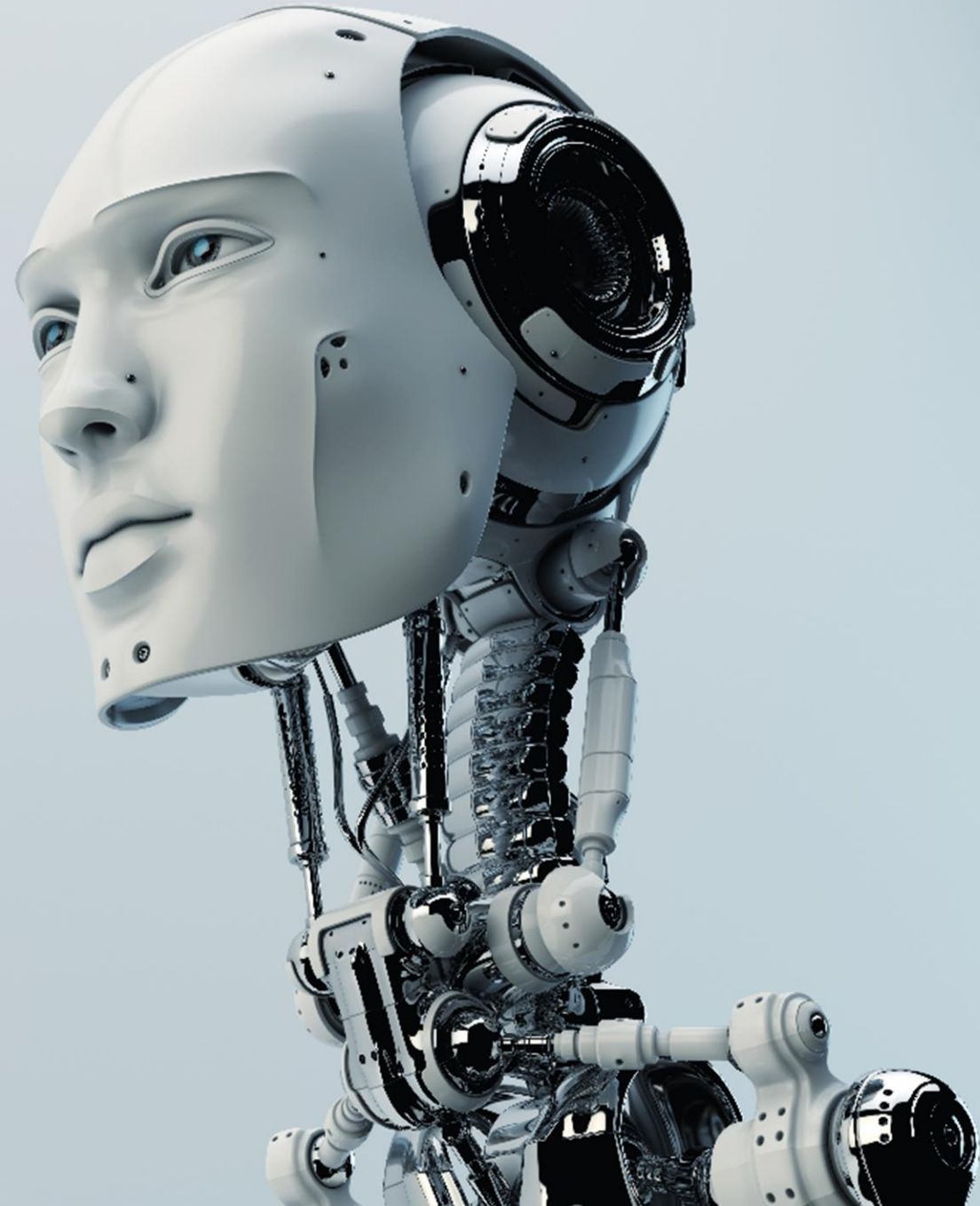
Director

CFO Program International Leader

Deloitte.

**Robotic and
Cognitive
Automation**
**Unlocking
value through
RCA**

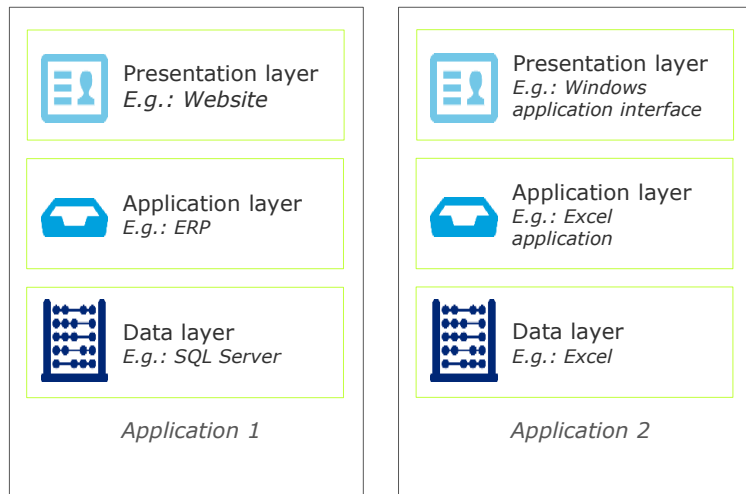
May 2019



What is RPA?

RPA mimics human interactions with software applications to automate many a repetitive, rule-based processes

Many a time, situations arise where two applications based on same /different technologies need to interact to complete a process...



Organizations have usually responded by

- Manual intervention
- Backend automation

RPA presents an alternative approach to solving this problem



Manual intervention

Having people interact with both applications


Direct / Backend Automation

Integration at the application layer and/or data layer




Robotic Process Automation

Interaction at the presentation layer (user interface)

This approach to automation presents a quick means to automate processes with additional benefits to offer when compared to direct automation

.....in simple words

RPA is a technology that:

- **Interacts** with the **presentation layer** of the computer - the GUI - just like any person in this room would do
- **Work with any application**, just like you and me would do
- **Switch from one environment to another**, just anyone working on multiple applications
- **Validate data, make rule based, algorithmic decisions** within pre-defined parameters

And more importantly do this ...

- **24 X 7 X 365** without taking a break a sweat!

RPA is the natural evolution of labor arbitrage, it takes the **Robot Out of the Human** ... And enables computers to do what they were supposed to do

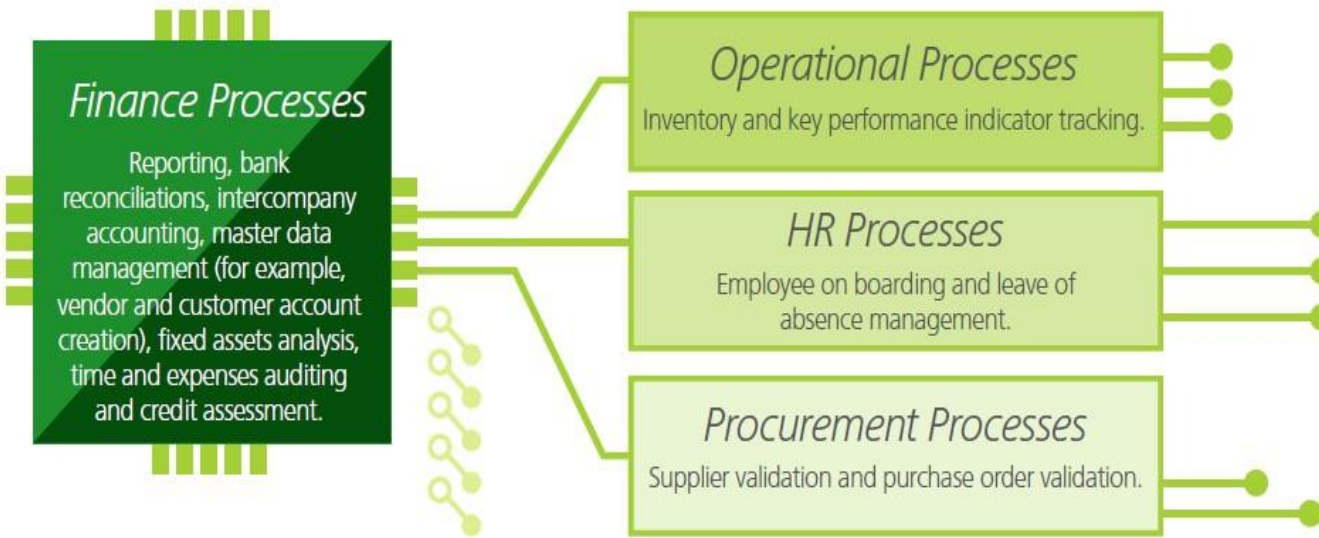
Typical process characteristics for RPA deployment



Typical back office processes suitable for RPA



Key Characteristics for 'Robotizing'



- Rules based with no judgement involved (Note - many activities such as evaluation are not judgement and can be codified with rules)
- No need for voice interaction
- Electronic data rather than paper; though OCR can be used as part of the robotic process to convert to electronic data
- Sufficient part of the process to justify the automation i.e. sufficient volume (process repeats and FTE currently involved)



Typical process characteristics for RPA amenability



Repetitive

Rule based

Transactional

Low level of judgement

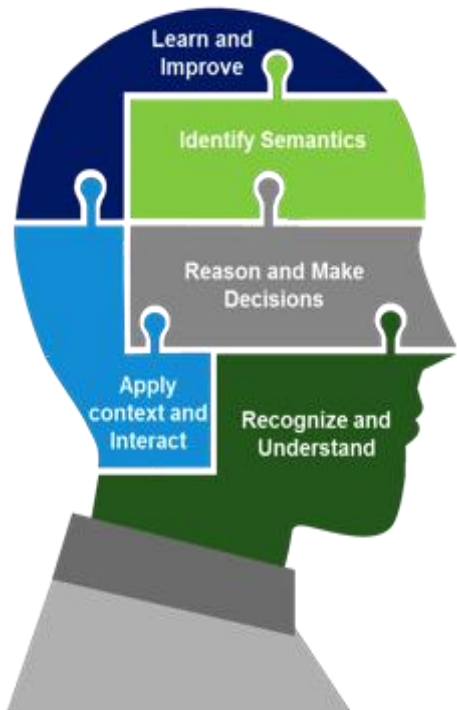
Minimum exceptions

Note: Robotic tools are not invasive, i.e. they use the front end and existing application security, so tend to be quick to implement and have rapid payback periods

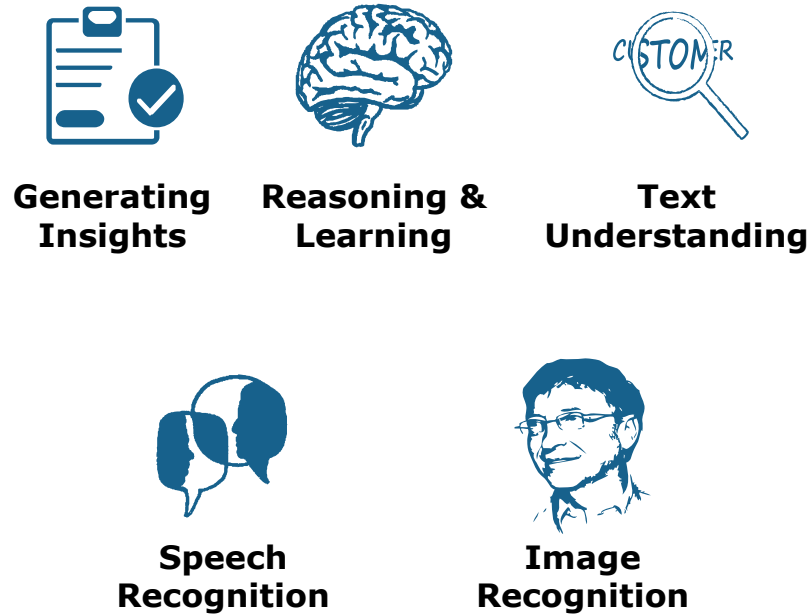
What is Cognitive Computing?

Cognitive systems employ technology and algorithms to automatically extract concepts and relationships from data, “understand” their meaning, and learn independently from data patterns and prior experience

Human intellect...



...mimicked by a computer...



...accomplishing complex tasks.

Cognitive Insights	Cognitive Engagement
<p>Detect key patterns and relationships from billions of data sources in real-time to derive deep and actionable insights</p>	<p>Improve customer understanding and activation through mass personalization, influencing desired actions</p>
Cognitive Automation	Cognitive Sensing & Shaping
<p>Automate repetitive, knowledge and natural language rich, human intensive decision processes</p>	<p>Build a deep understanding and knowledge of company, market dynamics, and disruptive trends to shape strategies</p>

Robotic and Cognitive Automation Case Study

*Accounts Payable - Cognitive Proof of Concept using Abbyy Flexcapture
ICR and Blue prism*

Case Study I – Robotics and Cognitive Automation (RCA) in Vendor invoice processing

Deloitte is supporting a global technology company based in Singapore, develop a state of the art shared service centre using RCA in AP, AR and R2R functions

Business Issue

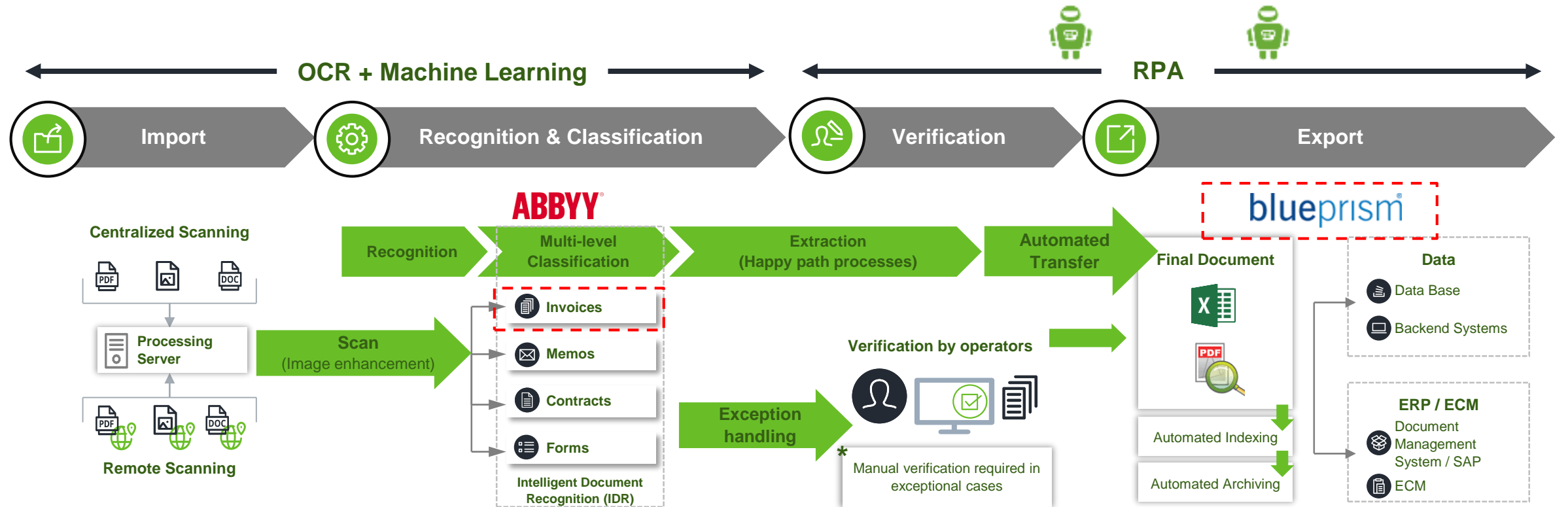
- The client is one of the largest global technology companies with significant market share in APAC
- The client has operations in 13 countries in APAC and currently has disparate accounting systems, non-standardized processes, significantly high headcount and associated costs
- The client has large a number of invoices received from vendors in multiple formats and languages. A significant number of invoices are in pdf format or hardcopies which requires high manual intervention for processing
- The client wanted to set up a state of the art Finance shared service centre using the latest digital solutions

Scope

- The project included developing standardized and centralized process maps which would cater to the requirements of 13 countries
- As a part of the project, the client wanted to test Cognitive solution in Invoice processing and requested Deloitte to carry out a Proof of Concept using Abbyy Flexicapture Intelligent Character Recognition tool and BluePrism RPA
- Post the successful PoC, client invited Deloitte to implement the solution as a part of the set up of the Shared Services centre









Invoice Processing using Cognitive and Robotics capabilities

Hardcopy/ pdf copies of invoices are converted into electronic form using OCR technology, followed by Machine Learning / Template based technology to recognize and classify data. RPA bots use the electronic data extracted into SAP



Scope of Cognitive PoC

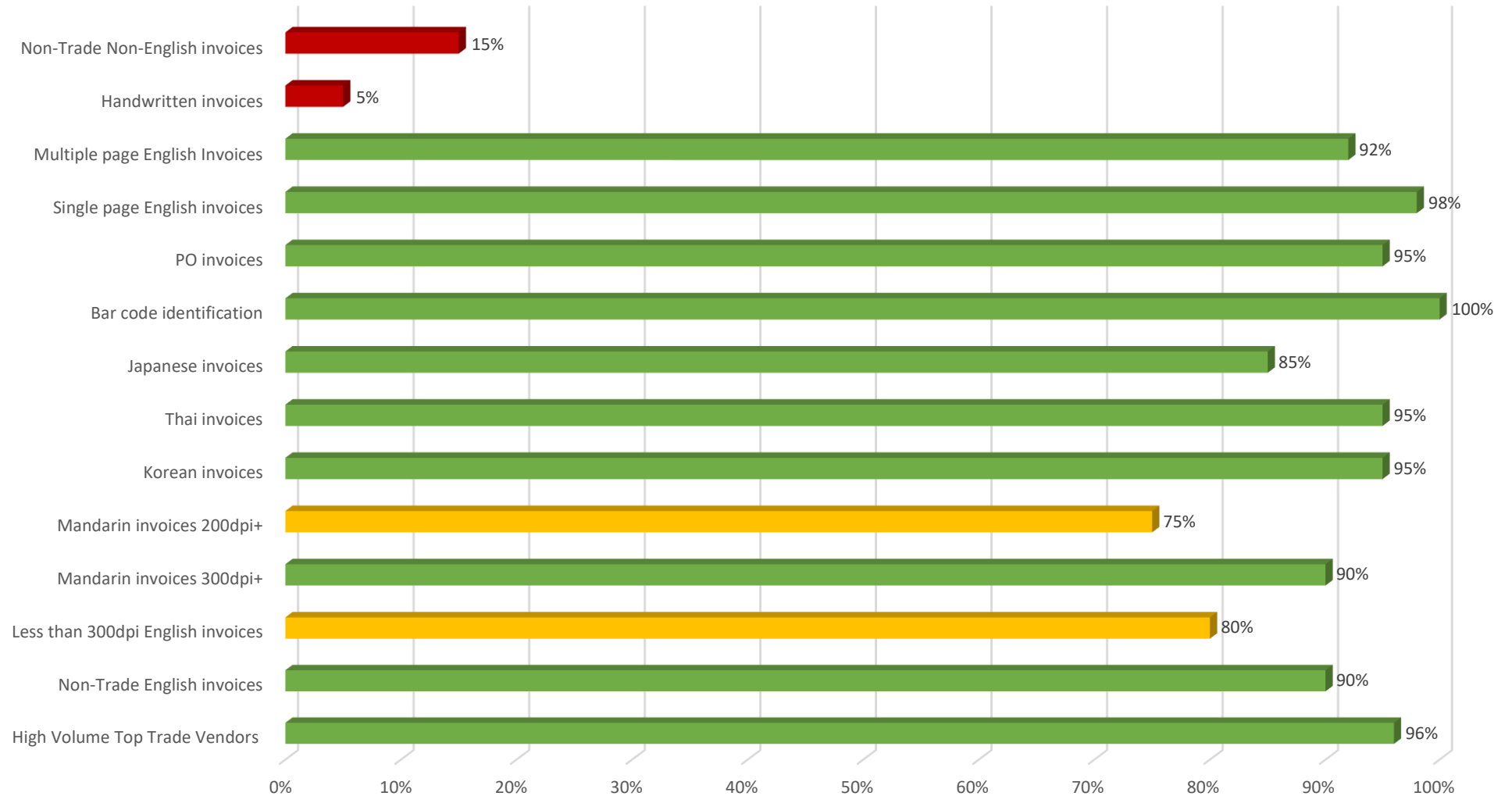
The PoC was tested on 270 invoices on 8 different criteria to determine the capability of ABBYY Flexicapture tool

- **1 Countries (8)**
*Singapore, Philippines,
India, Korea,
China, Japan,
Hong Kong, Thailand*
- **2 Language variations (5)**
*English, Mandarin, Thai,
Korean, Japanese*
- **3 Type of Invoices (4)**
*PO and Non-Po
Trade and Non-Trade*
- **4 Input type**
*JPG, PDF, GIF, Hardcopy,
Handwritten, With Barcodes*
- **5 Number of Pages**
*Single page invoices
Multiple page invoices*
- **6 Document Resolution**
*Above 300 dpi and
Below 200 dpi*
- **7 Number of Vendors**
*Approximately 30 different
formats*
- **8 SAP fields**
All key SAP fields captured



Summary observations

Overall, we envisage significant benefits of implementing ABBYY Flexicapture in Invoice processing activity, given that the high volume top trade vendors have standard invoice formats with high success rates



Benefit analysis

Based on the volumetric analysis, we can expect ~65-70% saving in FTE with the use of ABBY Flexicapture

As-is Invoice processing (Manual)

Total number of invoices
processes annually

151765

Number of invoices
processed per hour

10.01

Number of FTE engaged in
invoice processing

11.85

Time required to
process one invoice

6.00 mts



To-be Invoice Processing (RCA)

Number of invoices
processed per hour

30.00

Total FTE required

3.95



ABBY
FlexiCapture

1.00

blueprism



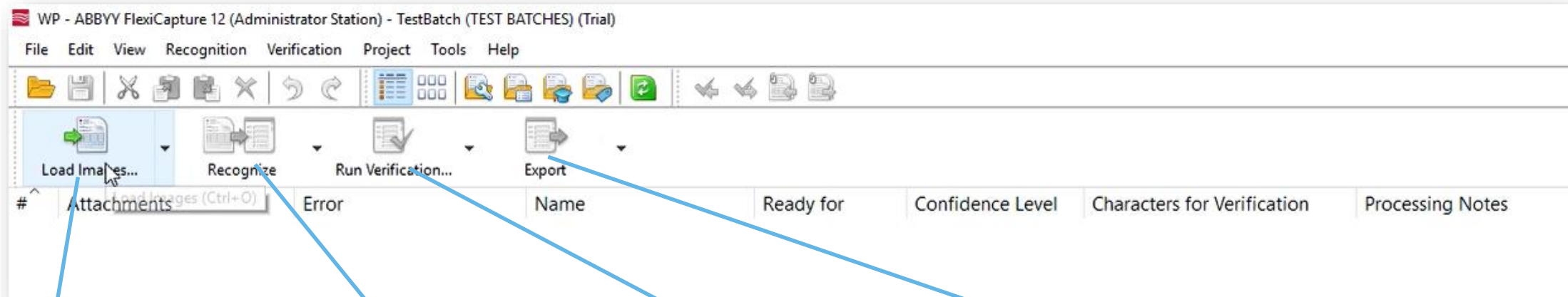
1.00

Net FTE Benefit: 7.90

(67% saving)

Demonstration of the Cognitive solution on Invoice processing

Flexicapture has 4 core processes viz Load Images, Recognize, Run Verification and Export



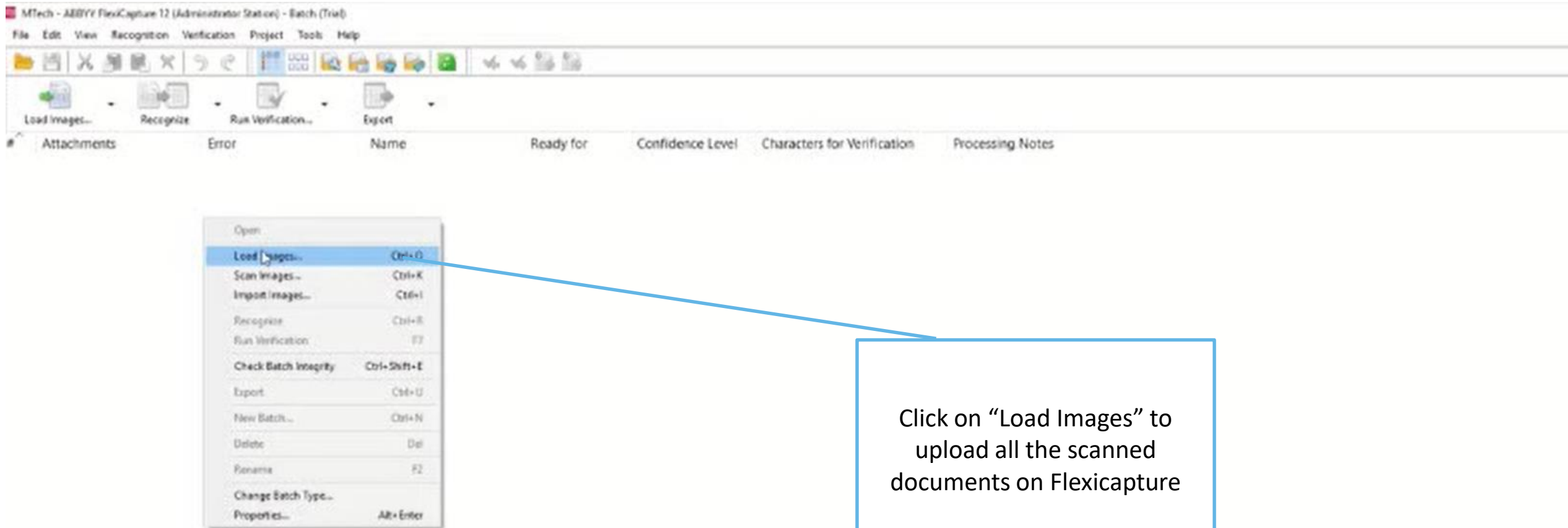
Documents are fed into the software in the module. Bulk loading of invoices is possible for multiple uploading

Where actual OCR/ICR happens. Recognition is based on the "Document definition"

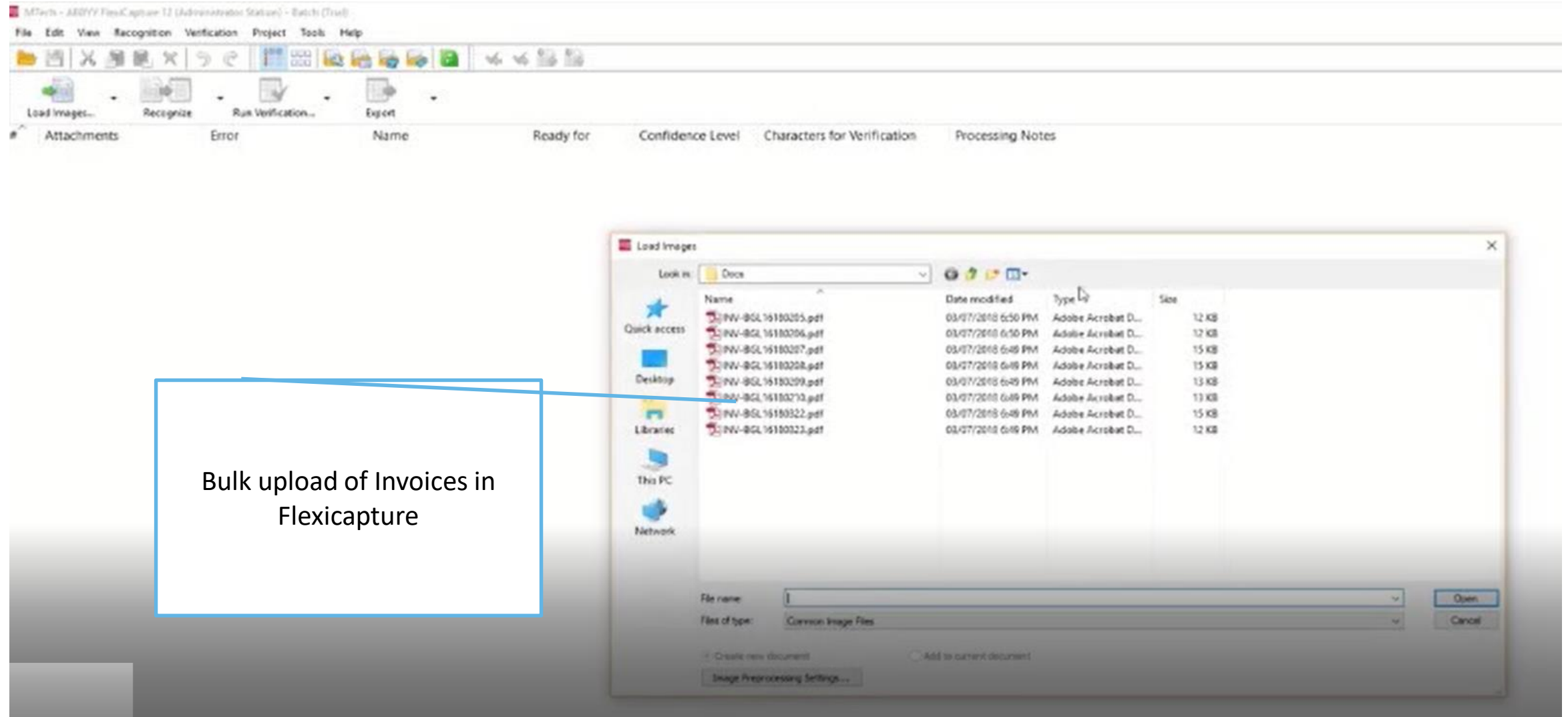
Where the software shows the characters that were not recognized 100% for correction, if necessary. Such characters are displayed in **RED** font

Where extracted information can be saved in various formats- Excel, Word, Pdf etc

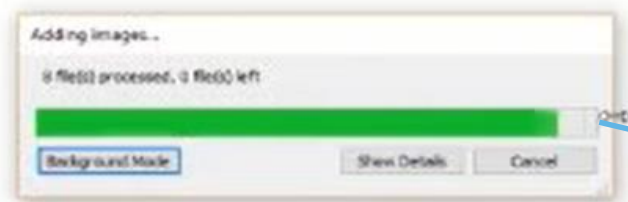
Loading images



Loading images- Bulk upload of documents



Loading images- Bulk upload of documents



Bulk upload of Invoices in Flexicapture

(Time: 15-20 seconds)

Image recognition and Verification

The screenshot shows the ABBYY FlexCapture 12 software interface. At the top, there is a menu bar with 'File', 'Edit', 'View', 'Recognition', 'Verification', 'Project', 'Tools', and 'Help'. Below the menu is a toolbar with various icons. A secondary toolbar contains four buttons: 'Load Images...', 'Recognize', 'Run Verification...', and 'Export'. The main area is a table with the following columns: '#', 'Attachments', 'Error', 'Name', 'Ready for', 'Confidence Level', 'Characters for Verification', and 'Processing Notes'. The table contains 9 rows of data. Row 4 is highlighted in blue. Two blue callout boxes with arrows point to the 'Confidence Level' and 'Characters for Verification' columns.

#	Attachments	Error	Name	Ready for	Confidence Level	Characters for Verification	Processing Notes
1			Ⓜ MTech	Verification	99% (283 of 285)	1% (2 of 285)	
2			Ⓜ MTech	Verification	99% (292 of 293)	1% (1 of 293)	
3			Ⓜ MTech	Verification	99% (1088 of 1090)	1% (2 of 1090)	
4			Ⓜ MTech	Verification	99% (938 of 940)	1% (2 of 940)	
5			Ⓜ MTech	Verification	99% (614 of 618)	1% (4 of 618)	
6			Ⓜ unprocessed document	Recognition			
7			Ⓜ unprocessed document	Recognition			
8			Ⓜ unprocessed document	Recognition			
9			Ⓜ unprocessed document	Recognition			

Once the documents are uploaded, they are recognized using Machine Learning capability to determine the "Confidence level"

(Time: 30-35 seconds)

Character verification determines the success of Flexcapture.

The next step is to edit data (if not 100% recognized)

Invoices 100% recognized

DELL EMC EMC COMPUTER SYSTEMS(SOUTH ASIA) PTE LTD
 1 Changi Business Park Central 1
 #08-101 ONE@Changi City
 Singapore 496336
 Main office 65 6692 3000
 Main Fax 65 6538 1929
 GST Reg No: M2-0127713-2
 RCB No: 199406777D

EMC Sales Order No. 310355798	EMC Sales Contact LIVING YEO	Payment Terms NET 30	Invoice No. 4500019676
Customer P.O. 4300401924	Due Date 02 Dec 2017		Invoice Date 02 Nov 2017

Bill To Buyer name **TAX INVOICE** **Ship To** Buyer address

Attention of DIMENSION DATA (SINGAPORE) PTE LTD

Customer Number	Bill To Customer Vat #	Ship To Customer Vat #	Shipping Terms	Date Shipped	Shipped Via	Waybill NO.	No Of Pieces	Weight	Deal Number
1004137218			CIP	12 Jun 2017	Truck	637230		735.502	6001229482

Item	Description	QTY Shipped	Unit Price	VAT %	VAT Amount	Extended Price
	Connectrix B-Series Solution	1				0.00
		2				0.30
		2				0.94
		2				0.30
		2				0.56
		2				0.68
		2				0.64
BRISFP-N8GSWB	BRCD NEW 8GB SHORT WAVE SFPS 8PACK	12	366.66	7.00%	308.00	4,399.92
PB-DCX4P16GE	DCX 16G PORT BLADE 48P 0 SFPS	2	22,555.74	7.00%	3,157.80	45,111.48

Past Due Amounts will bear interest at rate of 1.5% per month
 All prices are in USD
 These commodities are licensed by the U.S. Diversion contrary to U.S. law is prohibited.

Comments	Before GST(SGD)	1,117,859.68	Remit To
Authorized Signature	GST(SGD)	78,250.18	EMC Computer Systems (South Asia) Pte Ltd Citibank N.A Level 2, 23 Church Street, Singapore 049481 Capital Square Branch Branch No. 001 Bank ID 7214 Bank A/C No. 0-709558-028 Swift Code CITISGSG
	INVOICE(SGD)	1,196,109.86	
	Exchange Rate	1.35910	

Fulfillment Method Legend Only Applicable to Software Products: PF-Physical Fulfillment, EP-Electronic & Physical Fulfillment, EF-Electronic Fulfillment, EM-Electronic & Media

Page 1 of 8

Clear invoices with no ambiguity are 100% recognized and can be directly exported to Excel / SAP/Other output forms

1 - ABBYY FlexiCapture 12 (Administrator Station) - TestBatch (TEST BATCHES) (Trial)

File Edit View Recognition Verification Project Tools Help

Load Images... Recognize Run Verification... Export

#	Attachments	Error	Name	Ready for	Confidence Level	Characters for Verification	Processing Notes
6			DELL-SG	Export	100% (334 of 334)	0% (0 of 334)	
8			DELL-SG	Export	100% (270 of 270)	0% (0 of 270)	
1			DELL-SG	Verification	99% (1051 of 1052)	1% (1 of 1052)	
7			DELL-SG	Verification	99% (1630 of 1633)	1% (3 of 1633)	
15			DELL-SG	Verification	99% (1014 of 1017)	1% (3 of 1017)	
14			DELL-SG	Verification	99% (5027 of 5044)	1% (17 of 5044)	
18			DELL-SG	Verification	99% (462 of 464)	1% (2 of 464)	
17			DELL-SG	Verification	99% (1881 of 1891)	1% (10 of 1891)	
5			DELL-SG	Verification	99% (179 of 180)	1% (1 of 180)	
4			DELL-SG	Verification	99% (178 of 179)	1% (1 of 179)	

6. DELL-SG * x

InvoiceTable

Item	Description	QTY	Unit Price	VAT	VATAm	Extended
PS-PD-TRACKING	ProDeploy Tracking Model	1	0.00	0.00%	0.00	0.00
PS-BAS-INSW	GENERIC SWITCH OR BLADE INSTAL	2	1,061.54	7.00%	218.62	3,123.08
DS-650XPWRSUP	DS-6505R ADD ON PWR SUPPLY	2	1,088.46	0.00%	0.00	2,176.92

Add InvoiceTable Item

InvoiceNo: 4500019513
 InvoiceDate: 19 Oct 2017
 EntityName:
 VendorName:
 SubTotal: 5,300.00
 GST: 218.62
 InvoiceTotal: 5,518.62

DELL EMC EMC COMPUTER SYSTEMS(SOUTH ASIA) PTE LTD
 1 Changi Business Park Central 1
 #08-101 ONE@Changi City
 Singapore 496336
 Main office 65 6692 3000
 Main Fax 65 6538 1929
 GST Reg No: M2-0127713-2
 RCB No: 199406777D

Bill To Buyer address **TAX INVOICE** Buyer address

Attention of DIMENSION DATA (SINGAPORE) PTE LTD

EMC Sales Order No. 310431577	EMC Sales Contact LICHING TAY	Payment Terms NET 45
Customer P.O. 4500388327	Due Date 03 Dec 2017	

Customer Number	Bill To Customer Vat #	Ship To Customer Vat #	Shipping Terms	Date Shipped	Shipped Via	Waybill NO.	No Of Pieces	Weight
1000203851			CIP	19 Oct 2017	Truck	673659		4.540

Item	Description	QTY Shipped	Unit Price	VAT %	VAT Amount
PS-PD-TRACKING	ProDeploy Tracking Model	1	0.00	0.00%	0.00

Selects regions. Use CTRL to modify selection

Page 1 (Invoice) InvoiceTable[2] - Item (Text)

Invoice Verification (in case less than 100% success)

1 - ABBYY FlexiCapture 12 (Administrator Station) - TestBatch (TEST BATCHES) (Trial)

File Edit View Recognition Verification Project Tools Help

Load Images... Recognize Run Verification... Export

#	Attachments	Error	Name	Ready for	Confidence Level	Characters for Verification	Processing Notes
1			Hongkong Invoice	(Exported)	96% (171 of 179)	4% (8 of 179)	
1.1			Document Section 1		96% (171 of 179)	4% (8 of 179)	

1. Hongkong Invoice

InvoiceNo: 4353046902
 InvoiceDate: 02/02/2018
 VendorName: The Hongkong Electric Co., Ltd.
 EntityName: CLIENT name
 TotalAmount: \$16,279.52
 MeterNo: 5018584
 PresentReading: 401718
 PreviousReading: 3884
 Units: 13247
 BasicCharge: \$15,829.12
 FuelCostAdjustment: 3,099.80
 SpecialFuelRebate: -2,119.52
 SpecialRentRatesRebate: -529.88
 CurrentMonthCharge: 16,279.52

1 / 1

香港電燈有限公司
The Hongkong Electric Co., Ltd.

Buyer name
979 KING'S RD

Account Number: 353046902
Date of Bill: 02/02/2018
Non-Residential Tariff

Meter No.	Present Reading	Previous Reading	Units	Scheduled Next Meter Reading Date
5018584	401718	3884	13247	05/03/2018

Item	Amount
Basic Charge	\$15,829.12
Fuel Cost Adjustment	3,099.80
Special Fuel Rebate	-2,119.52
Special Rent & Rates Rebate	-529.88
Current Month Charge	16,279.52
Previous Balance	0.05
Balance Carried Forward	-0.57
Total	\$16,279.00

PPS Merchant Code: 03

21 FEB 2018

Amount: HKD 22961.00

Page 1 (Document Sect)

Characters not recognized by Flexicapture are in **RED** font

Output in Excel

Output in Excel can be used by the RPA bot to enter in SAP/ Other ERPs. Alternatively, Flexicapture can be directly configured to enter data in ERPs

InvoiceTable.xls [Compatibility Mode] - Excel

File Home Insert Page Layout Formulas Data Review View Developer STARWizard Tell me what you want to do...

Paste Clipboard Font Alignment Number Styles Cells Editing

C2

	A	B	C	D	E	F	G	H
1	Redington_ROW_INDEX	ItemCode	Quantity	UnitPrice	SGST	CGST	IGST	Total
2		1 MCSWK566 * IPSNS9300NBD IPSNS9300NBD MFE Net Sec SUPPORT	2	4535642.50 EA 1	816415.65 9.00	816415.65 9.00	H	9071285.00 107041.t,0
3		1 MCSWK567 * RBIAC2P40NETMOD RBIAC2P40NETMOD MFE Net Support	2	69385.00 EA	12489.30 9.00	12489.30 9.00	.00 .00	138770.00 163748.60
4		1 MCSWK568 * RBIAC8P10NETMOD RBIAC8P10NETMOD MFE Net Support	4	69385.00 EA	24978.60 9.00	24978.60 9.00	.00 .00	277540.00 327497.20
5		1 MCSWK569 * RBAF85010KT1 RBAF85010KT1 Active FO 850nm Suppo;	8	64790.00 EA	46648.80 9.00	46648.80 9.00	.00 .00	518320.00 611617.60
6		1 MCSWK570 * RBAFOCHKT2 RBAFOCHKT2 Active FailOpen support	2	9370.00 EA	1686.60 9.00	1686.60 9.00	.00 .00	18740.00 22113.20
7		1 MCSWK571 * RBIACQSFPFOT RBIACQSFPFOT MFE Net Sec Support	4	41630.00 EA	14986.80 9.00	14986.80 9.00	.00 .00	166520.00 196493.60
8		1 MCSWK572 * IPSNS7200ARMA IPSNS7200ARMA MFE Net Sec support	2	2035580.00 EA	366404.40 9.00	366404.40 9.00	.00 .00	4071160.00 4803968.80
9		1 MCSWK573 * RBIAC6P1NETMOD RBIAC6P1NETMOD MFE Net Sec Support	4	69660.00 EA	25077.60 9.00	25077.60 9.00	.00 .00	278640.00 328795.20
10		1 MCSWK574 * IAC650ACARMA IAC650ACARMA 650W AC power support	2	25180.00 EA	4532.40 9.00	4532.40 9.00		.00 50360.00 .00 59424.80
11		1 MCSWK575 # IMGCKE-AD IMGCKE-AD 1-+MFE Network Sec E-lic	1	472785.00 EA	42550.65 9.00	42550.65 9.00		.00 472785.00 .00 557886.30
12		1 MCSWK576 * IMGYCM-AD IMGYCM-AD 1-+MFE Network Support	4	120515.00 EA	43385.40 9.00	43385.40 9.00		.00 482060.00 .00 568830.80
13								
14								

InvoiceTable

Ready

Big Data Analytics: Data has a better idea

Bronte Tomlin
Senior Consultant
Data Scientist

Big Data Analytics

Data has a better idea

Starting from the top

Data in its purest form is not information

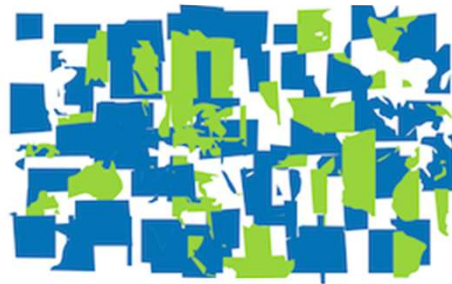
DATA

- Data is a set of characters, numbers and symbols that is stored in, or used by, a computer.
- In other words, data is a collection of unorganized **facts** which standalone are rarely useful.
- Data can be seen as *bits* or information, but not information itself.

INFORMATION

- Information is created when data is processed, interpreted, organized, structured and presented in a meaningful or useful way.
- More simply, information is structured, logically organized data.

For example...



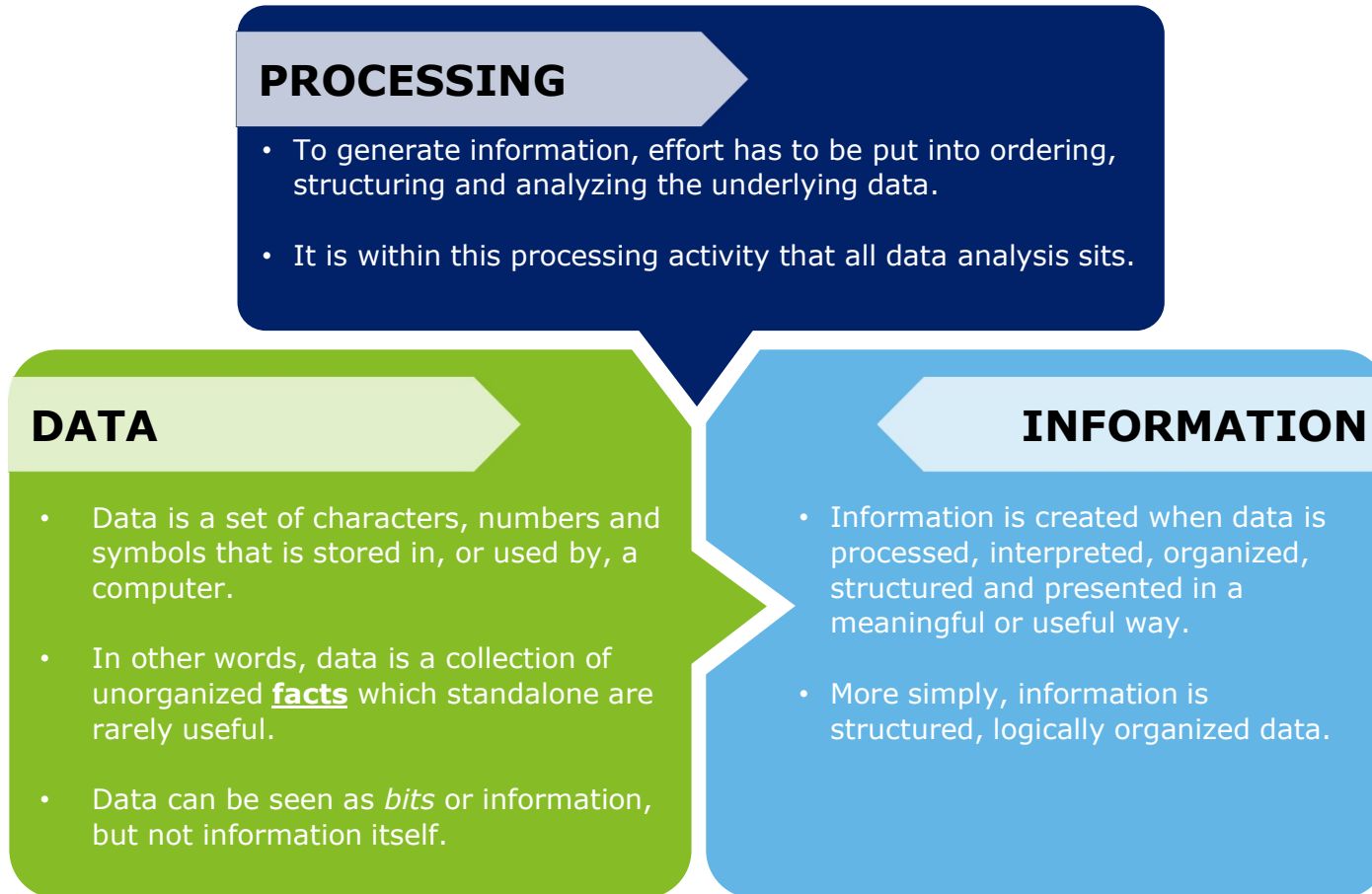
DATA



INFORMATION

The crucial step

By ordering, structuring and analyzing data, meaning can be inferred and information generated

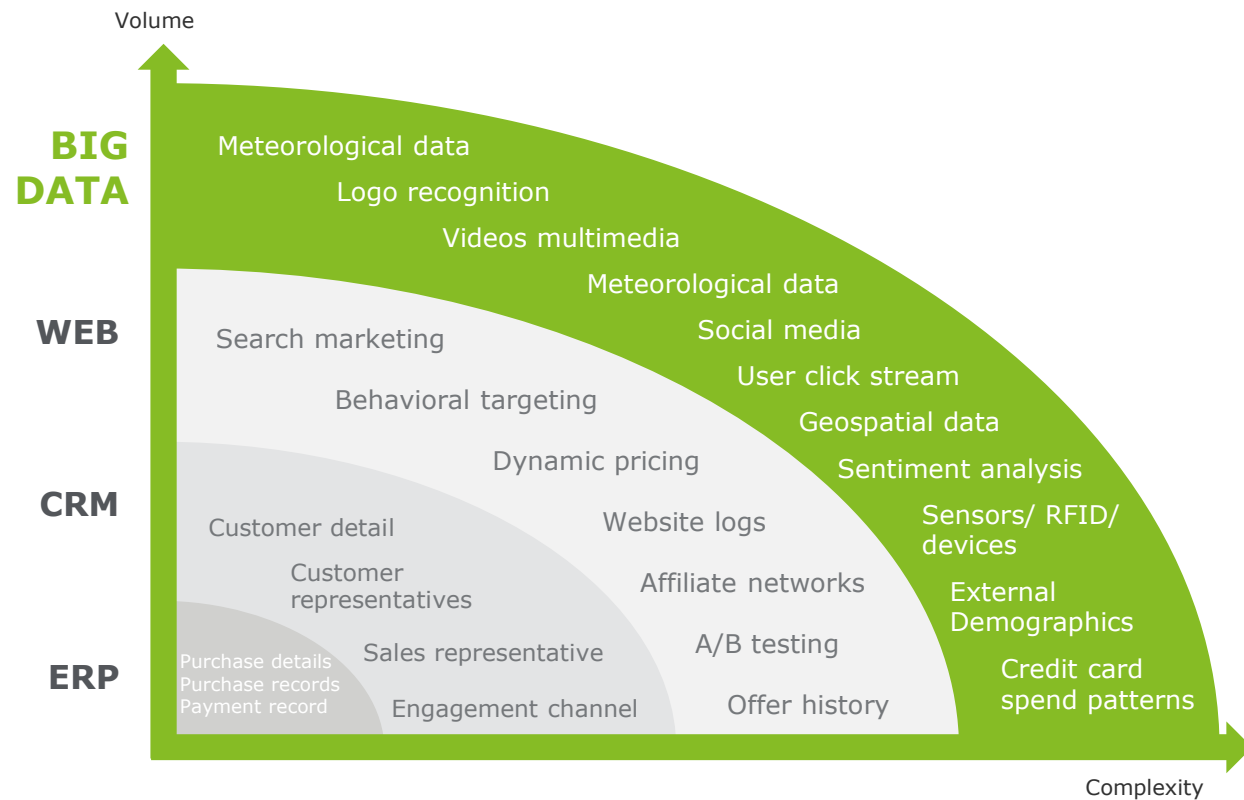


What defines Big Data?

The main characteristic that differentiates data from "big data" is volume

Big Data = *data input into your systems* + *data captured by the systems themselves* + *data available in external systems*

- Big data generally refers to **datasets so large and complex** they create **significant challenges for traditional data management and analysis tools** in practical timeframes.
- In most enterprise scenarios the volume of data generated by the organization is so big that it exceeds their current processing capacity. This is before they start to enrich their data with external data sets.
- To reduce the load on the processing systems, much of the data generated by the systems is classified auto-archived and forgotten.



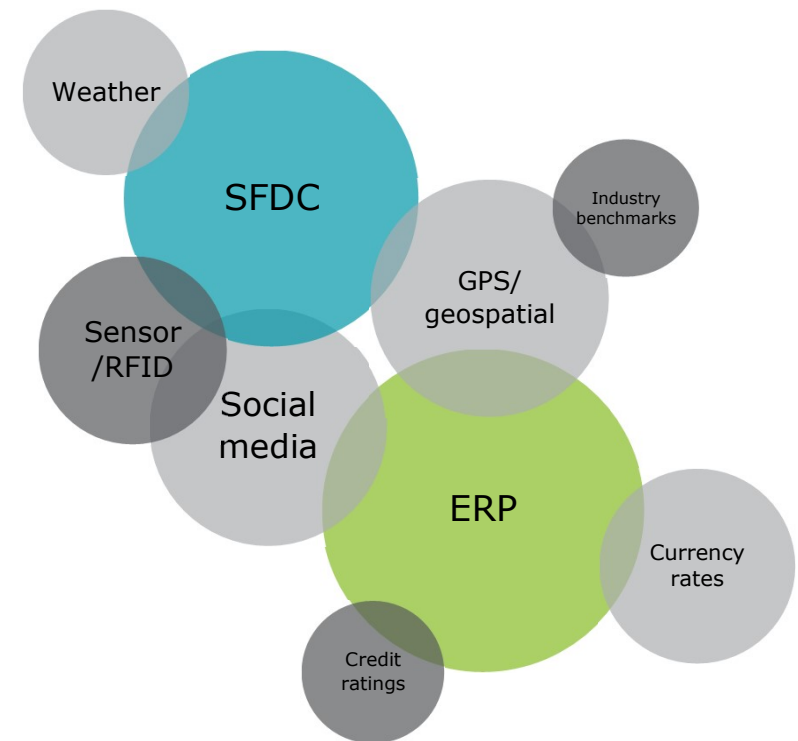
What is Big Data Analytics?

Big Data Analytics is the complex process of examining large and varied data sets to uncover hidden insights

“ Big Data Analytics uses technologies that can efficiently store and process all this data, paired with tools and techniques that have the capability to analyze large and varied datasets to derive. ”

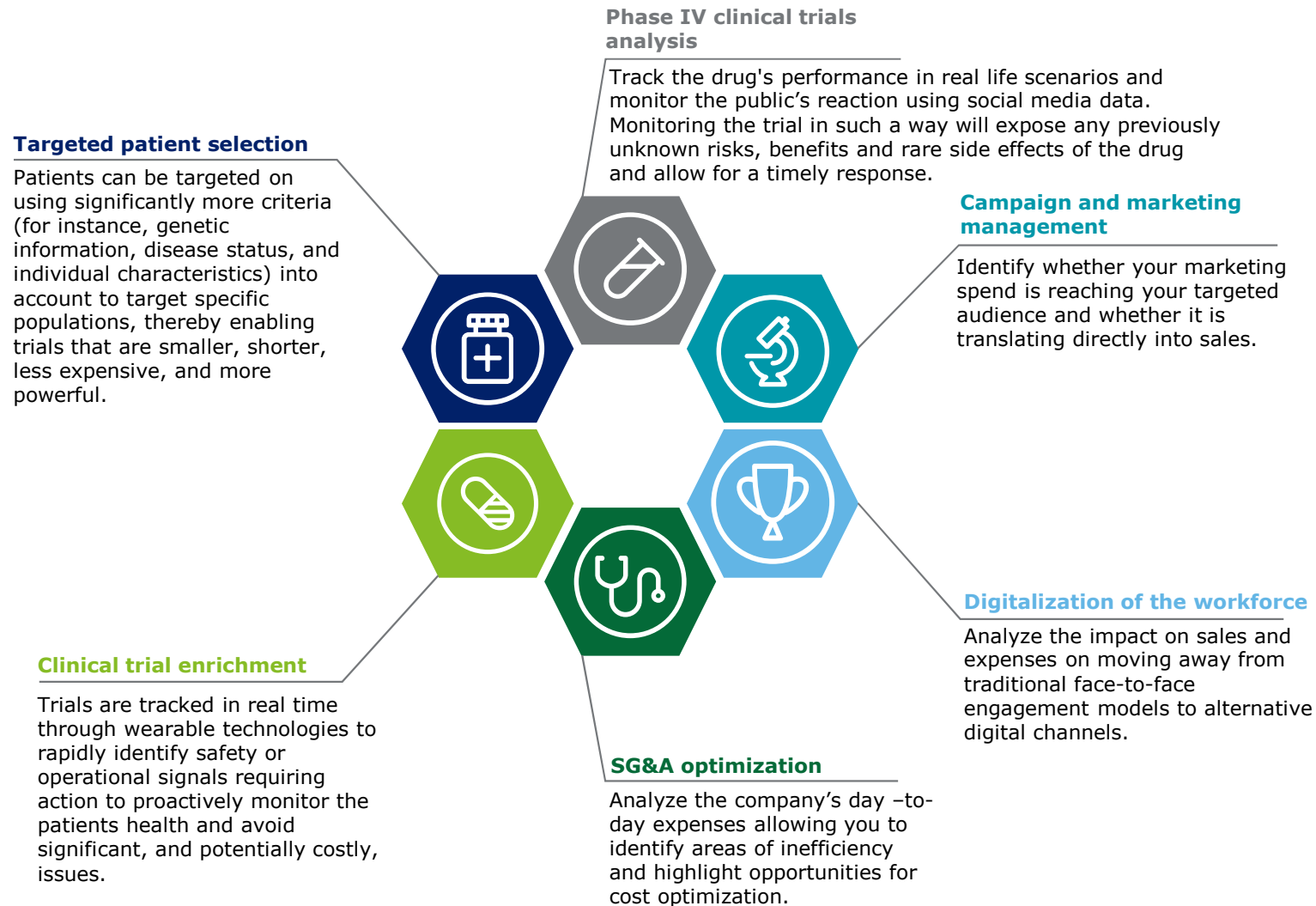
Now that multiple data sets can be combined in such a way, new questions can be asked of the data, which is where the world of big data becomes really interesting, and where organizations develop a competitive advantage.

As you incorporate more data points, you're improving the quality and reliability of your insights. The more complete the context is surrounding the data, the more accurate a picture you will form.



Big Data Analytics in the Life Sciences & Healthcare industry

There are a vast number of use cases for Big Data Analytics in the LS&HC industry



Q&A

SG&A Benchmarking

Oliver Will

Consultant

Life Science and Health Care Specialist



SG&A Benchmarking

CFO round table

Thursday, 16th May 2019

Confidential and not for wider distribution

Background and value being delivered

This benchmarking study enables a comparison of your organisation's SG&A spend to your peers', and will clearly identify improvement opportunities

Situation

- Global pharmaceutical companies operating in Japan constantly face price and profit pressures
- Global pharmaceutical companies operating in Japan often function in a different culture, policy, and economy than from their operations in other countries/markets
- Corporate cost takeout initiatives have been implemented in efforts to improve profit margins

Needs

CFOs typically want to know:

- *How are we spending our SG&A budget compared to our industry peers in Japan?*
- *What are the key metrics needed to understand SG&A spend performance in this market?*
- *For which SG&A categories and metrics could we realign our spending to deliver a better return on investment based on our overall strategy?*

Value delivered by the SG&A benchmarking study

Deloitte leverages **a tested industry and market specific SG&A approach** to provide each participating company with the following insights:

- Comprehensive comparison to peers across 10 different categories of SG&A spend
- Robust set of high and low level key metrics to help you understand spend performance – internally and compared to peers
- Identification of areas relative overspend and potential underspend vis-à-vis your strategic priorities
- High-level suggestions for improvement initiatives and initial view on potential improvement

Japan Participation for SG&A initiatives

The study had 7 companies as part of Wave 1, 2 & 3 with discussions regarding a wave 4 currently in progress

Wave 1, 2, and 3 participants



Potential future participants*



Daiichi-Sankyo

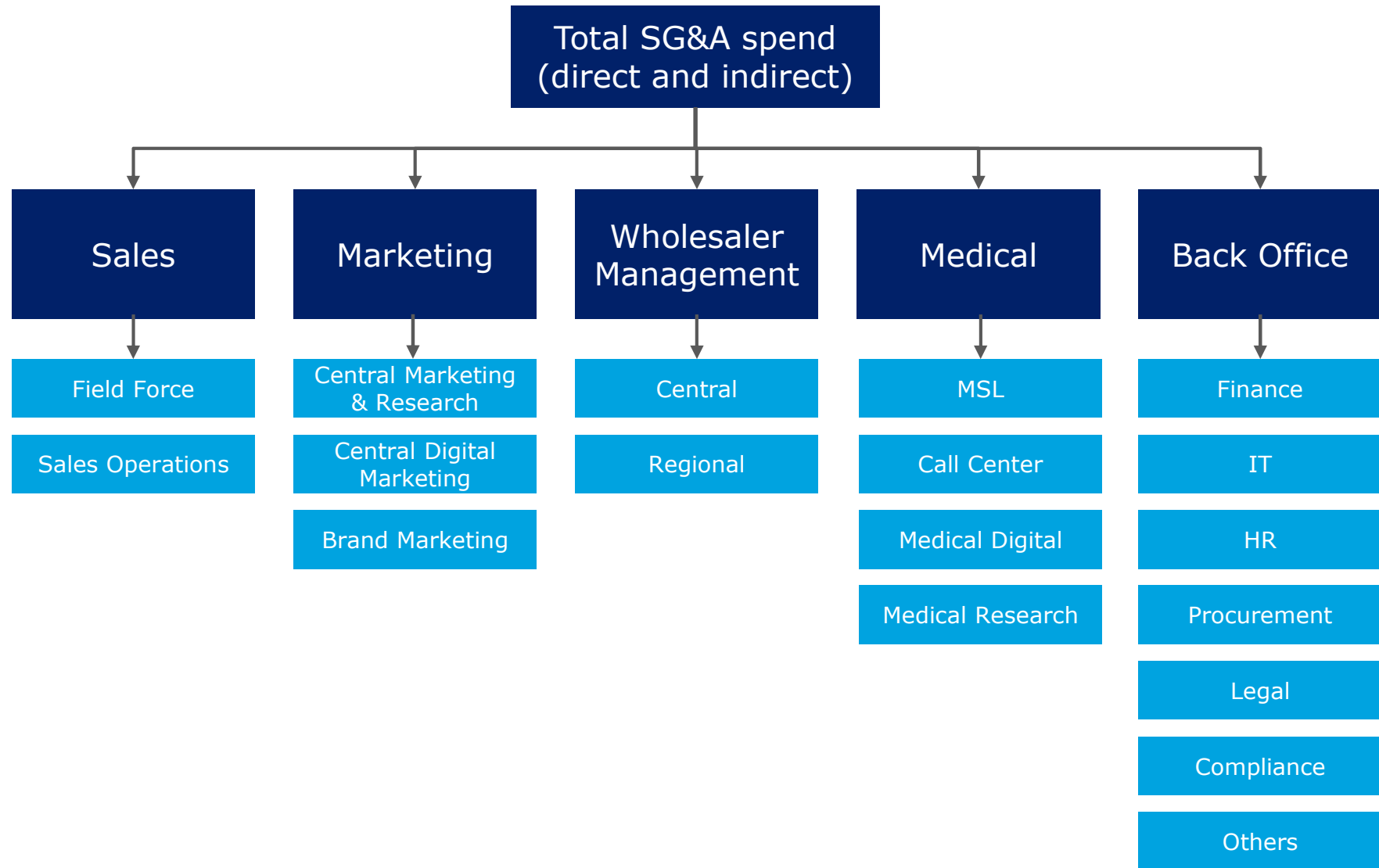


*In discussion

Functional view of total SG&A spend and headcount

In addition to the category view, we have compared headcount and total expenses at a functional level

FTE and Total Functional Cost (including payroll costs)



Category scope (1 of 2)

We have tailored the analysis based on the following categories, allowing for detailed cost and efficiency analysis across more than 300 KPIs

KPIs cover both financial and non-financial metrics

Area	Category	Subcategories
Commercial	Sales	<ul style="list-style-type: none">Field Force productivityField Force comp & ben structureMR explanatory meetingsField Force infrastructureField force support
	Events	<ul style="list-style-type: none">National conferencesRegional symposiaEvent planning and managemente-Events
	Marketing	<ul style="list-style-type: none">Primary market researchSecondary market researchDigitalAdvertising & Print
Medical	Medical & Scientific Support	<ul style="list-style-type: none">MSL productivityPrimary medical researchMedical Digital & ContentMedical eventsPhase 4 trialsGrants and Donations
General	Real Estate	<ul style="list-style-type: none">Field officesFacilities managementHQ office space
	Travel	<ul style="list-style-type: none">Rail travelDomestic airInternational airTravel controlHotels

Category scope (2 of 2)

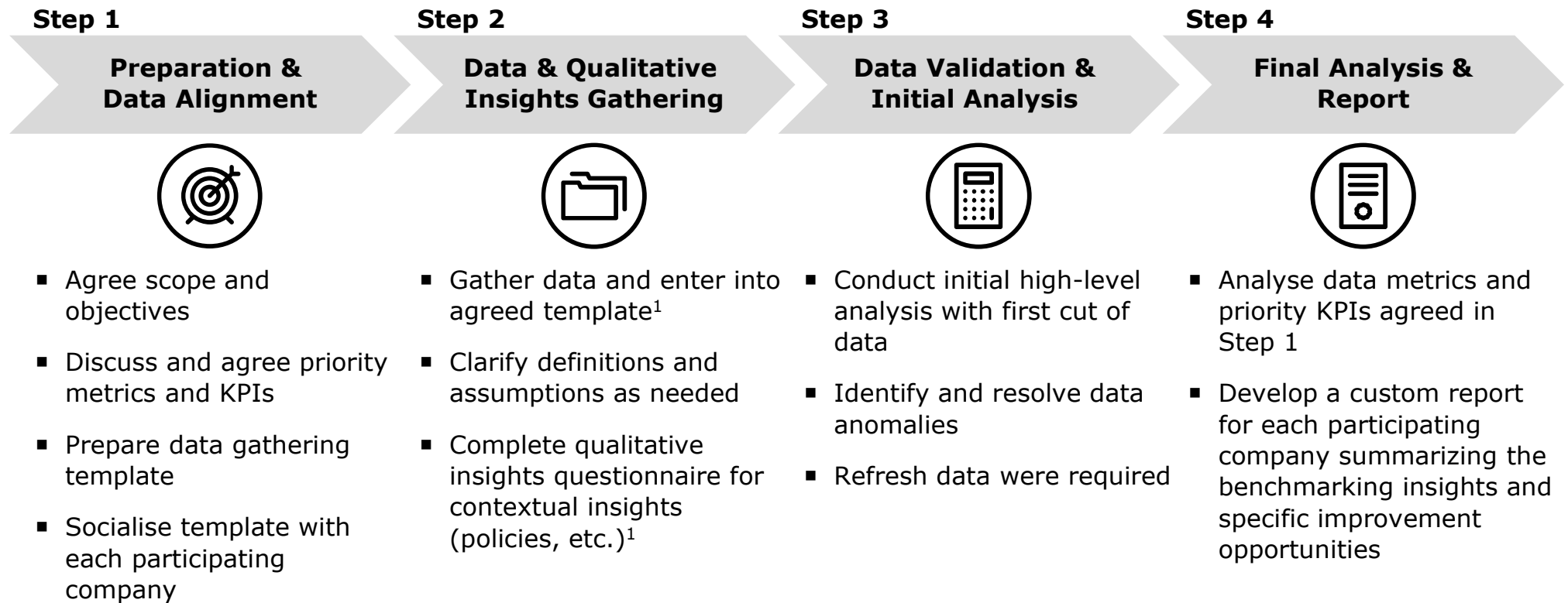
We have tailored the analysis based on the following categories, allowing for detailed cost and efficiency analysis across more than 300 KPIs

KPIs cover both financial and non-financial metrics

Area	Category	Subcategories
General Other	IT	<ul style="list-style-type: none">▪ n/a (Total cost only)
	Office	<ul style="list-style-type: none">▪ n/a (Total cost only)
	People	<ul style="list-style-type: none">▪ Learning & Development▪ Recruiting▪ Contractors & Outsourcing
	Professional Services	<ul style="list-style-type: none">▪ n/a (Total cost only)
	Other	<ul style="list-style-type: none">▪ All remaining cost not captured in sub-categories

SG&A benchmarking overall project approach

Deloitte's tested industry benchmarking approach delivers actionable insights to assist in optimizing SG&A spending

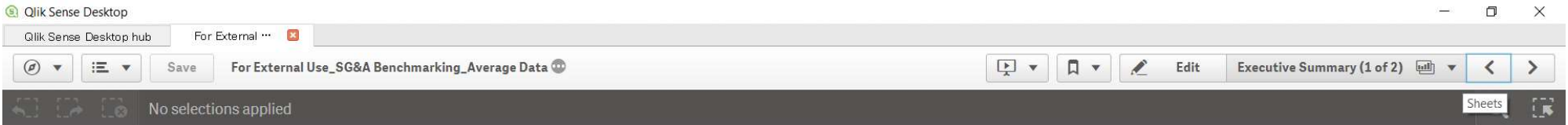


Client data will be anonymized to ensure client confidentiality is maintained

¹ Each participating company to dedicate resources

Example output: Executive summary view

Each company is provided with their output compared to the lowest, average and highest value for each KPI

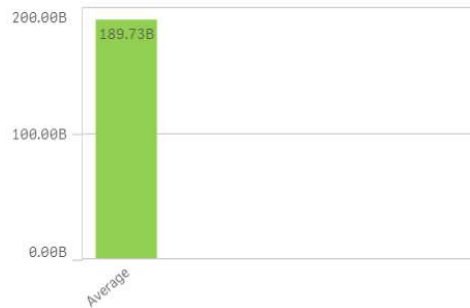


Executive Summary (1 of 2)



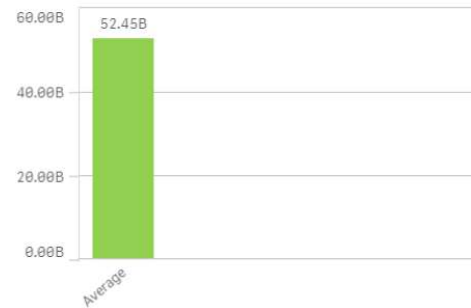
Total Revenue by Company (bn JPY)

Green: Average

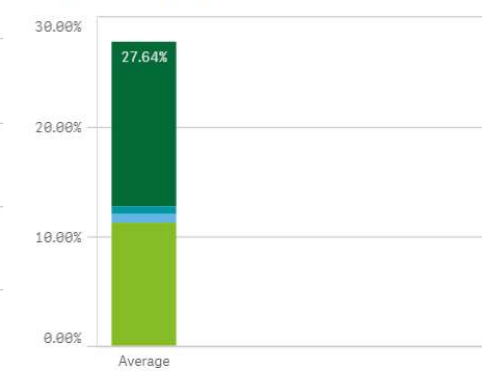


Total SG&A Cost (bn JPY)

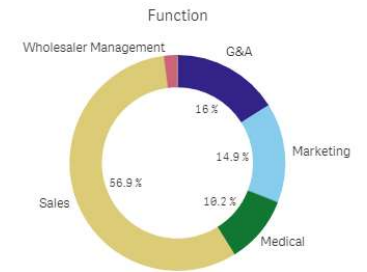
Green: Average



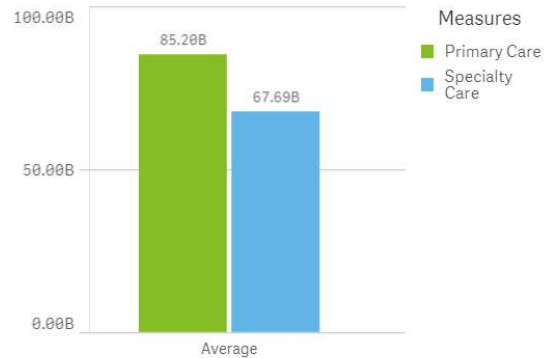
Total SG&A Cost as % of Revenue



Average SG&A Cost Distribution

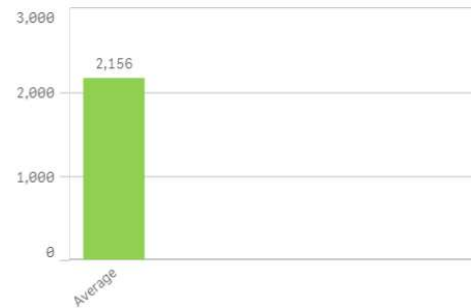


Revenue by Primary Care/Specialty Care (bn JPY) - Direct...

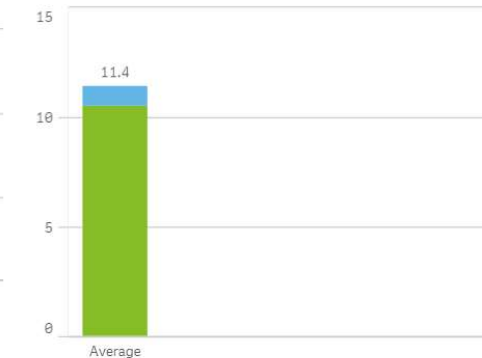


Total In-Scope FTE

Green: Average



Total In-Scope FTE (Normalized per bn JPY Reve...)



Next Steps

We plan to continue and expand our SG&A benchmarking activities going forward

1 Pharma SG&A Benchmarking 2020 Data refresh

- Refresh the benchmark with the current participants using 2019 data to see the impact of activities firms have undertaken based on the original benchmark
- Tweak/Add some KPIs based on learnings from wave 1, 2 & 3

2 MedTech SG&A Benchmarking

- Currently initial discussions for a joint EMEA/Japan MedTech benchmarking
- Using tools from the Japan Pharma benchmarking but adapting KPIs to the Med-Tech needs

3 Other LSHC SG&A benchmarking initiatives

- Currently discussing a further wave with Japanese pharma companies
- Currently in talks with pharma MNCs in Indonesia for benchmarking there

Wrap-up and Discussion

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