



FOURTH QUARTER 2019

Managed Services and As-a-Service Market Insights

HOSTED BY: JOSEPH FORESI OF CANTOR FITZGERALD

January 14, 2020

imagine your future®

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Welcome to the 69th Quarterly

***ISG** Index™



Steve Hall
Partner &
President ISG



Clay Calhoun
Partner,
Sourcing Solutions



Owen Wheatley
Lead Partner –
Banking & Financial
Services



Chip Wagner
Chief Executive
Officer, ISG
Automation

Covering the State of the Combined Managed Services
& As-a-Service Industry for the Global Commercial Market

At a Glance

Global Combined Market

In 4Q19, Combined Market ACV was up 7% Y/Y; Managed Services was flat; SaaS boosted As-a-Service by 14%.

Americas

Combined Market dipped on mixed results; Managed Services' dropped 18% due to weak BPO and fewer large transactions; strong SaaS pushed As-a-Service up 14%.

EMEA

Combined Market ACV rose 25% Y/Y; several large deals in the U.K. and DACH strengthened Managed Services; As-a-Service ACV stayed in tight range.

Asia Pacific

Combined Market ACV edged up slightly Y/Y; Managed Services plummeted, but tempered by As-a-Service, which makes up nearly 80% of ACV.

* Managed Services, formerly called Traditional Sourcing, is defined as ITO/BPO, Infrastructure, ADM and Network markets, which we've always reported on.

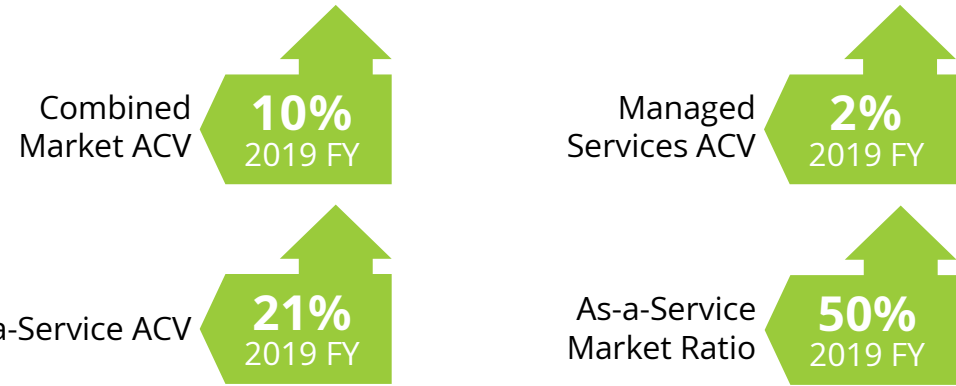
Scorecard

	4Q19 ACV (\$B)	4Q Y/Y Change	2019 Full Year ACV (\$B)	2019 Full Year Change
Global Commercial Combined Market	13.9	6.7%	55.7	10.3%
By Type				
Managed Services *	6.9	0.1%	27.7	1.6%
As-a-Service	7.0	14.2%	28.0	20.6%
By Region				
Americas Combined	6.7	-3.1%	27.9	8.0%
EMEA Combined	5.2	25.4%	19.0	9.9%
Asia Pacific Combined	2.0	2.3%	8.8	19.7%

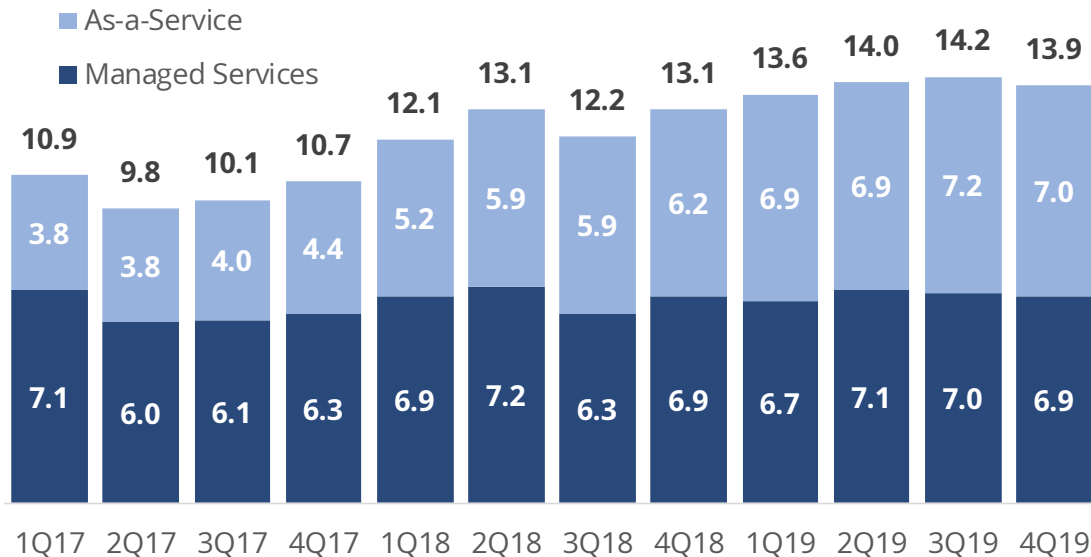
Global Commercial Sector

Contracting Trends

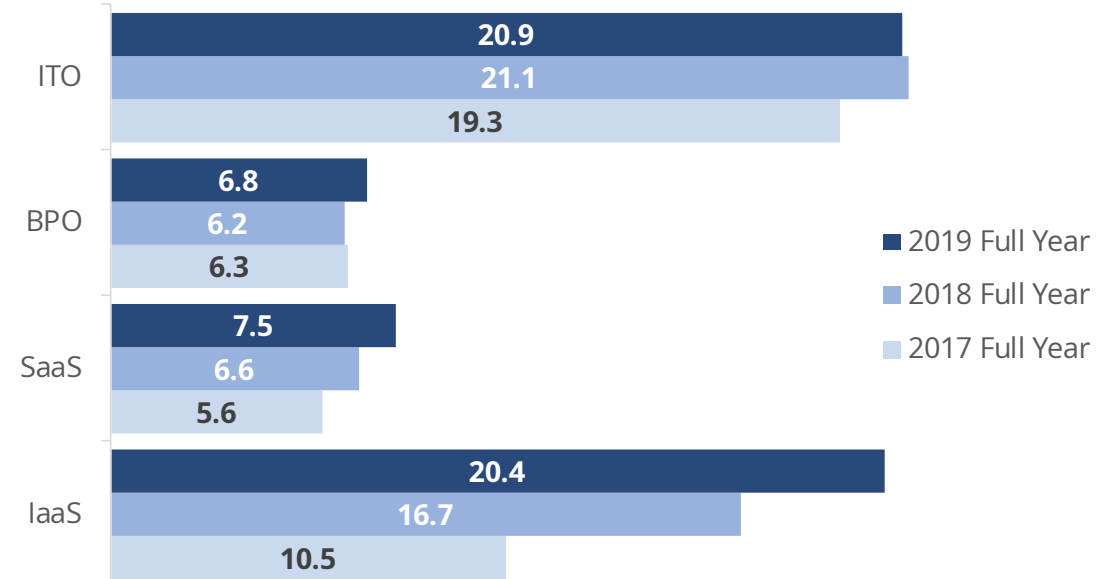
- 4Q19 Combined Market up 7% Y/Y; fifth straight quarter over \$13B.
- Best year ever in 2019 for Managed Services.
- In 2019, both As-a-Service market segments continue with double-digit growth rates.



Combined Market Quarterly ACV (\$B)



Global Commercial Sector ACV by Function (\$B)

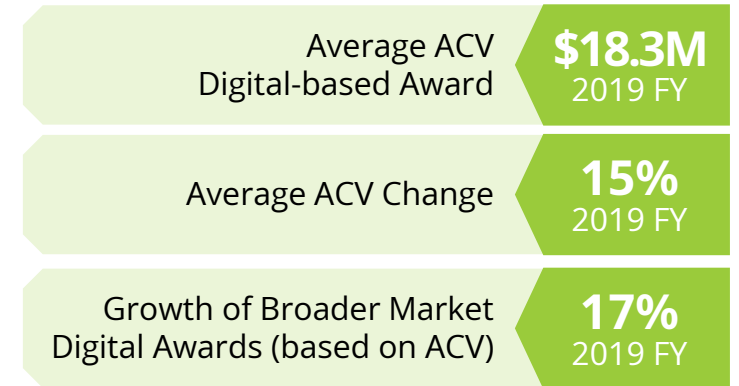


Digital Trends in Managed Services

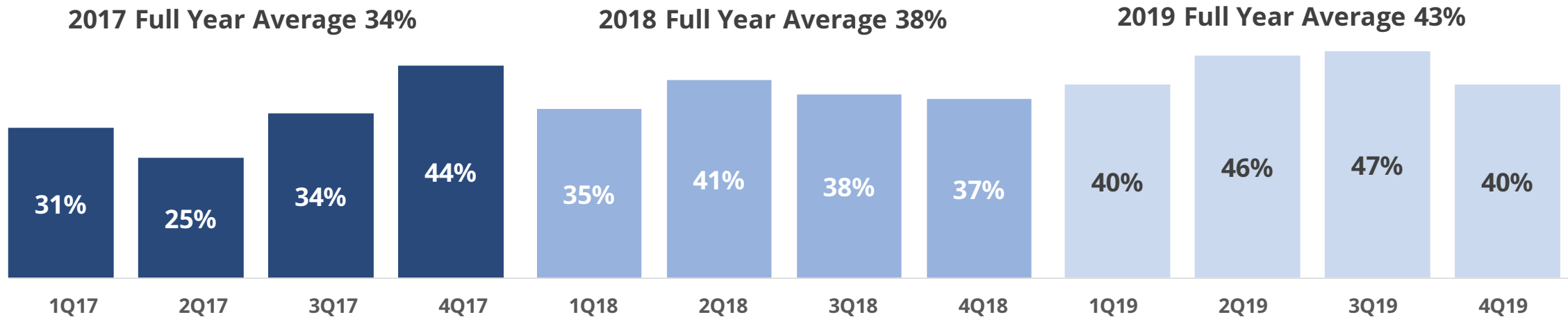
Contracting Trends

- During 2019, 43% of transactions awarded in the Broader Market have digital-based scope, and there is sizable growth potential going forward.
- Total ACV of deals with digital scope increased by 17% for the year; compares to overall decline of 8% for non-digital deals.

Key Performance Metrics



Managed Services: Percent of Broader Market Awards With Digital Scope (Based on ACV)





Service & Technology Provider Standouts – GLOBAL

Our Contracts Knowledgebase™ is used to determine placements based on the annual value of commercial contracts awarded in the past 12 months.

The Big 15		The Building 15		The Breakthrough 15		The Booming 15	
Revenues > \$10B		Revenues \$3B-\$10B		Revenues \$1B-\$3B		Revenues <\$1B	
Managed Services Market							
Accenture	DXC Technology	Alight Solutions	HCL	Atento *	Mphasis	Birlasoft	Persistent Systems*
Atos *	IBM Global Services	Amdocs	Tech Mahindra	Axians	NS Solutions	CSG Systems *	Posco ICT
BT *	Infosys	Bechtle	Teleperformance	JLL	Sutherland	Ensono	Startek
Capgemini	NTT Data	Computacenter	T-Systems	LTI	Tieto	EXL *	WNS
Cognizant	TCS	*Genpact	Wipro	Mindtree	Unisys	NNIT A/S *	Zensar Technologies
MITIE *				Virtusa			
As-a-Service Market							
Alibaba	Microsoft	Adobe Systems	United Internet	Athenahealth *	Atlassian	Flexential	
Amazon Web Services	Salesforce	Equinix	Workday	Autodesk	CyrusOne	Hubspot *	
Google		ServiceNow		Digital Realty	DocuSign	OVH	

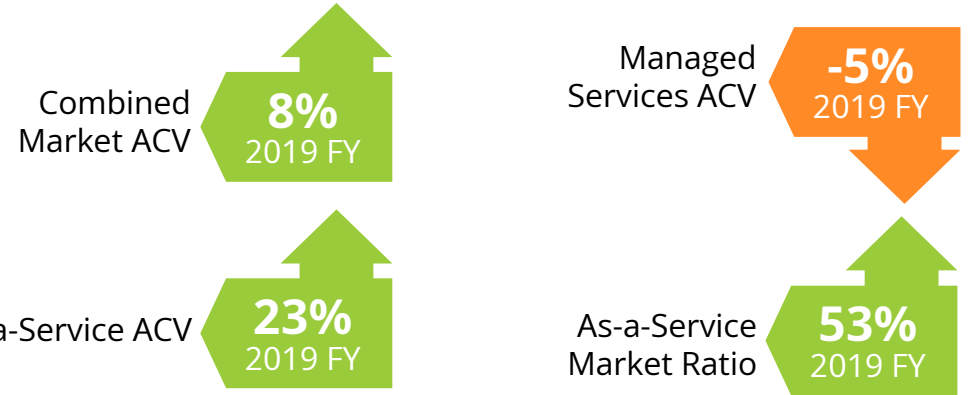
* New to leaderboard in 4Q19

Providers in alphabetical order; no rankings implied. Revenues sourced from D&B and individual company financial fillings.

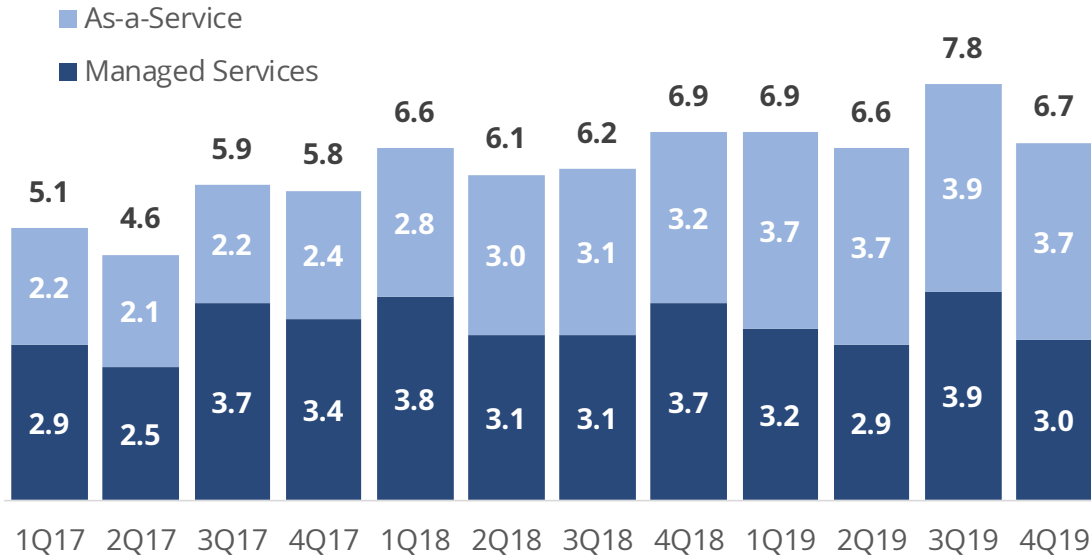
Americas Commercial Sector

Contracting Trends

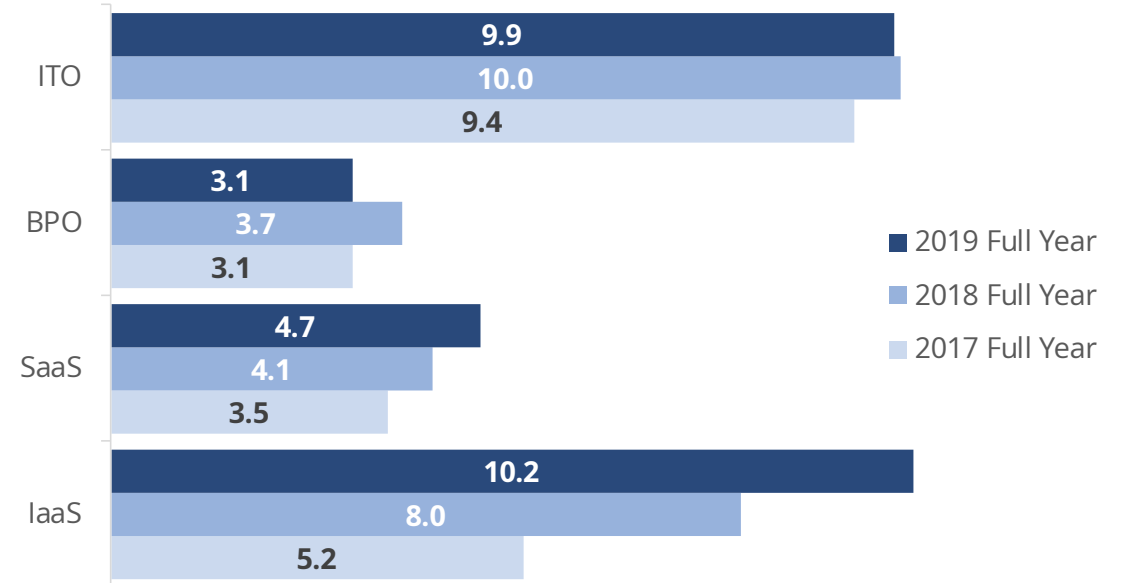
- 4Q19 Combined Market fell 3% Y/Y on softer Managed Services results.
- During 2019, ITO fell 1%; Applications fell slightly but infrastructure awards were up 6.5% on strong network activity.
- As-a-Service accounted for over 50% of Combined Market ACV for the first time ever.



Combined Market Quarterly ACV (\$B)



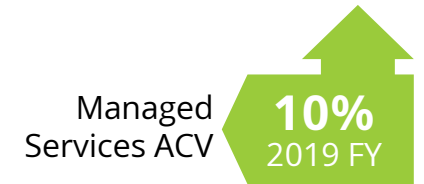
Americas Commercial Sector ACV by Service Type (\$B)



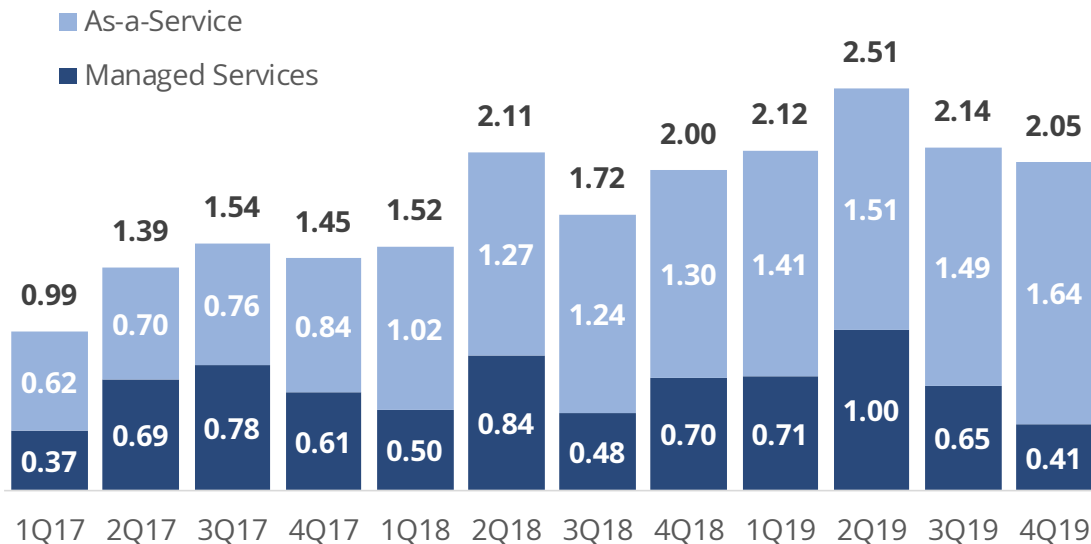
Asia Pacific Commercial Sector

Contracting Trends

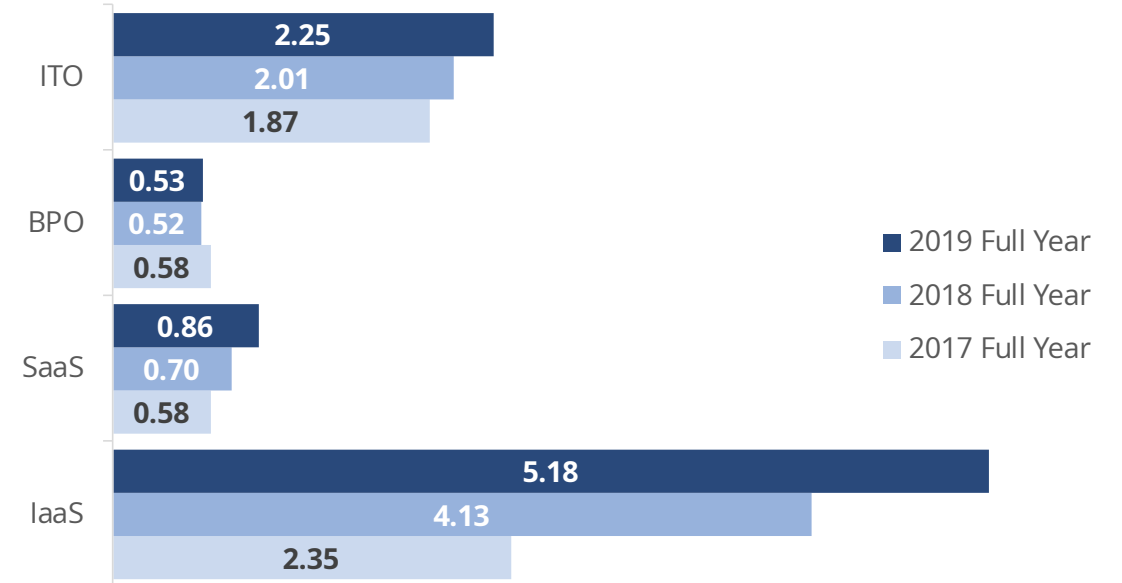
- 4Q19 Combined Market up 2% on strong as-a-service activity in China was offset by softer Managed Services activity.
- For the year, ITO had its best performance since 2014.
- Both SaaS and IaaS grew by over 20% in 2019.



Combined Market Quarterly ACV (\$B)



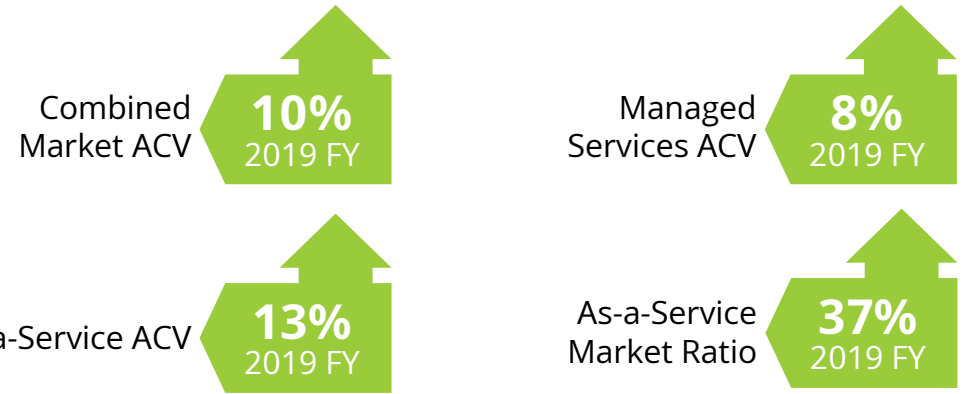
Asia Pacific Commercial Sector ACV by Service Type (\$B)



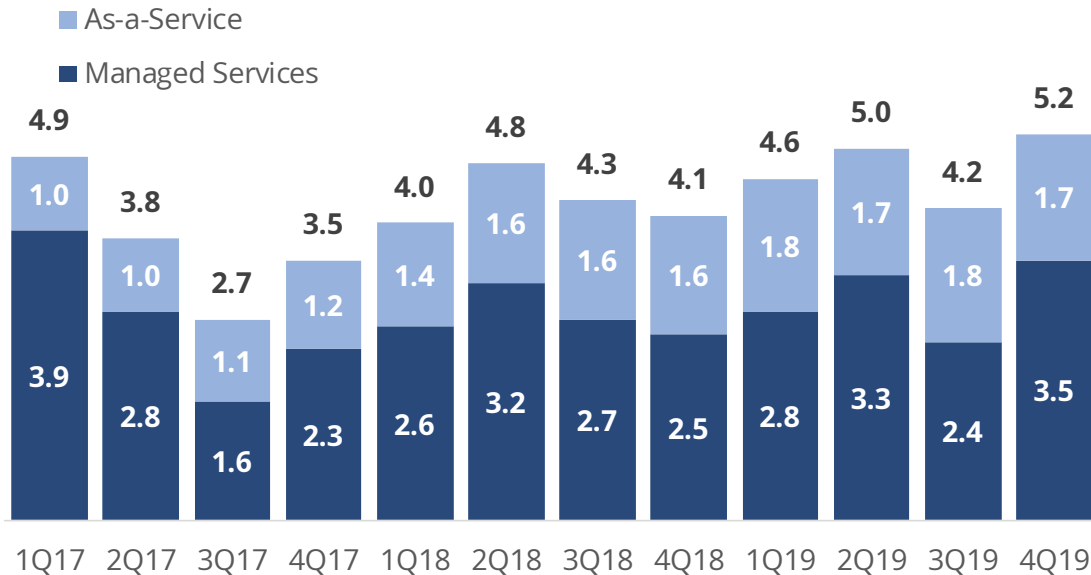
EMEA Commercial Sector

Contracting Trends

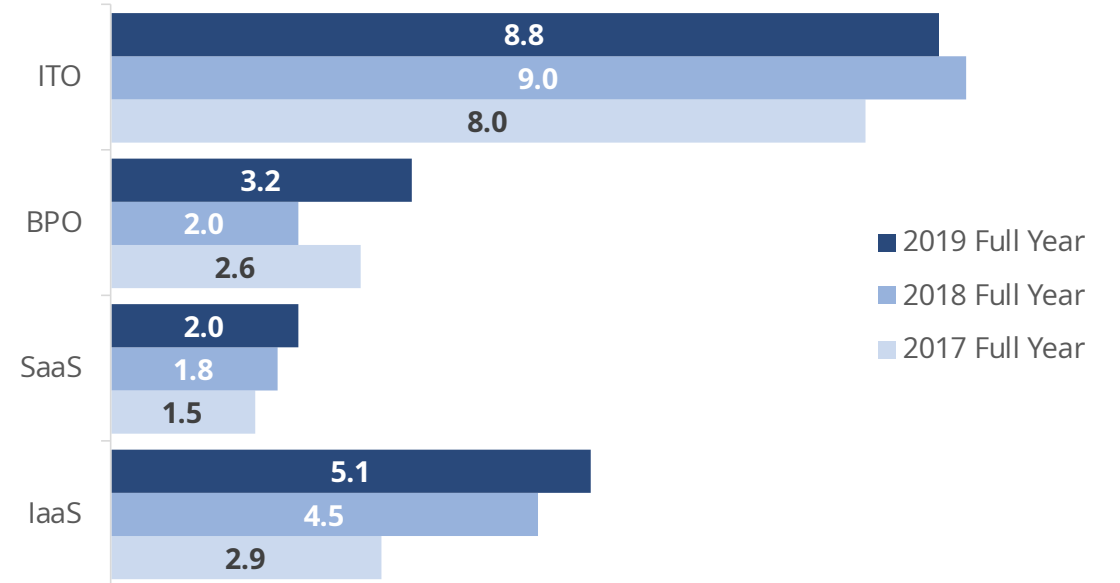
- 4Q19 was a record-setting quarter for Combined Market; only second time ever to surpass \$5B in ACV.
- Strongest Managed Services result since 1Q17; UK and DACH both produced \$1B fourth quarters.
- Close battle for market share developing between Microsoft Azure and AWS in public cloud infrastructure.












Combined Market Quarterly ACV (\$B)



EMEA Commercial Sector ACV by Service Type (\$B)



Global Commercial Sector Industry Award Trends

2019 Full Year Growth	Global Market 2019 Full Year 	Business Services 	Retail & Consumer Packaged Goods 	Energy 	Financial Services 	Healthcare & Pharma 	Manufacturing 	Telecom & Media 	Travel, Transport Leisure 
	\$55.7B ACV	\$9.6B ACV	\$6.6B ACV	\$3.4B ACV	\$11.4B ACV	\$5.7B ACV	\$8.1B ACV	\$5.9B ACV	\$4.9B ACV
Combined Market	10%	14%	4%	-13%	7%	16%	8%	39%	14%
Managed Services	2%	-4%	-18%	-24%	0%	15%	-1%	64%	1%
As-a-Service	21%	19%	24%	20%	22%	17%	20%	12%	29%
Americas	8%	20%	-2%	-4%	3%	8%	-5%	31%	18%
EMEA	10%	0%	4%	-18%	14%	43%	1%	59%	13%
Asia Pacific	20%	14%	25%	-12%	-2%	18%	80%	26%	7%

*ISG Index™

FOURTH QUARTER 2019

Emerging Trends in Banking & Financial Services

“There is an incredible amount
of transformation going on
in the banking business.”



Owen Wheatley
Lead Partner –
Banking & Financial
Services

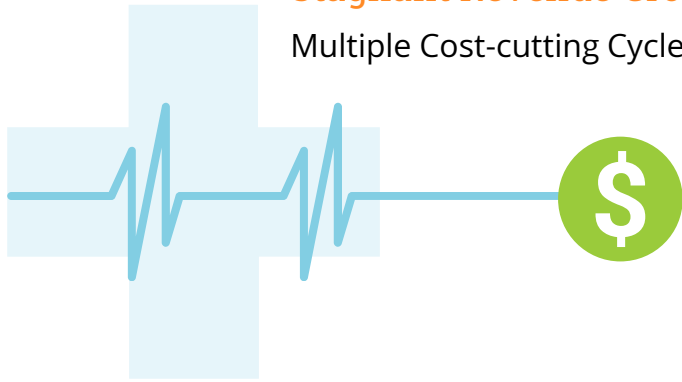
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Banking and Financial Services – Macro Factors

Flatlining Revenues

Stagnant Revenue Growth
Multiple Cost-cutting Cycles



Regulatory Pressures

High Levels of Geographically Diverging Regulation

Focus on Supervision vs. New Rules



Customer Experience Is Key



Competition

Unprecedented Competition
Low Switching Costs



The Battle for Talent

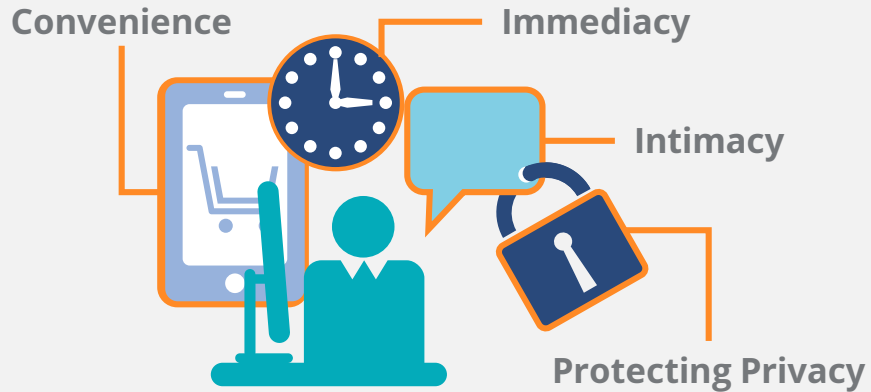
Identifying, Acquiring, & Retaining Talent Is CRUCIAL

Data Science, Innovation & Product Development Are Key Differentiators

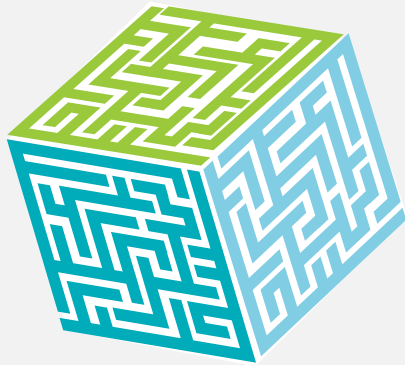


Banking and Financial Services – Technology Trends

Customer Demands



Leveraging Existing Technology Effectively

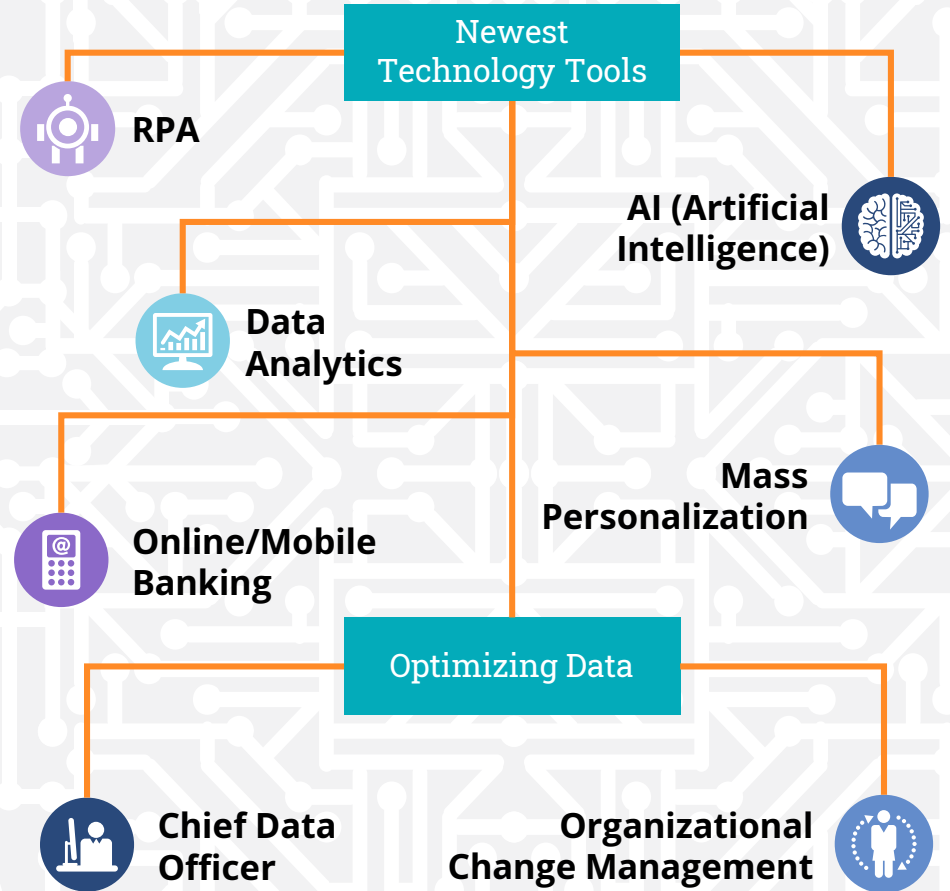


Customer Centricity



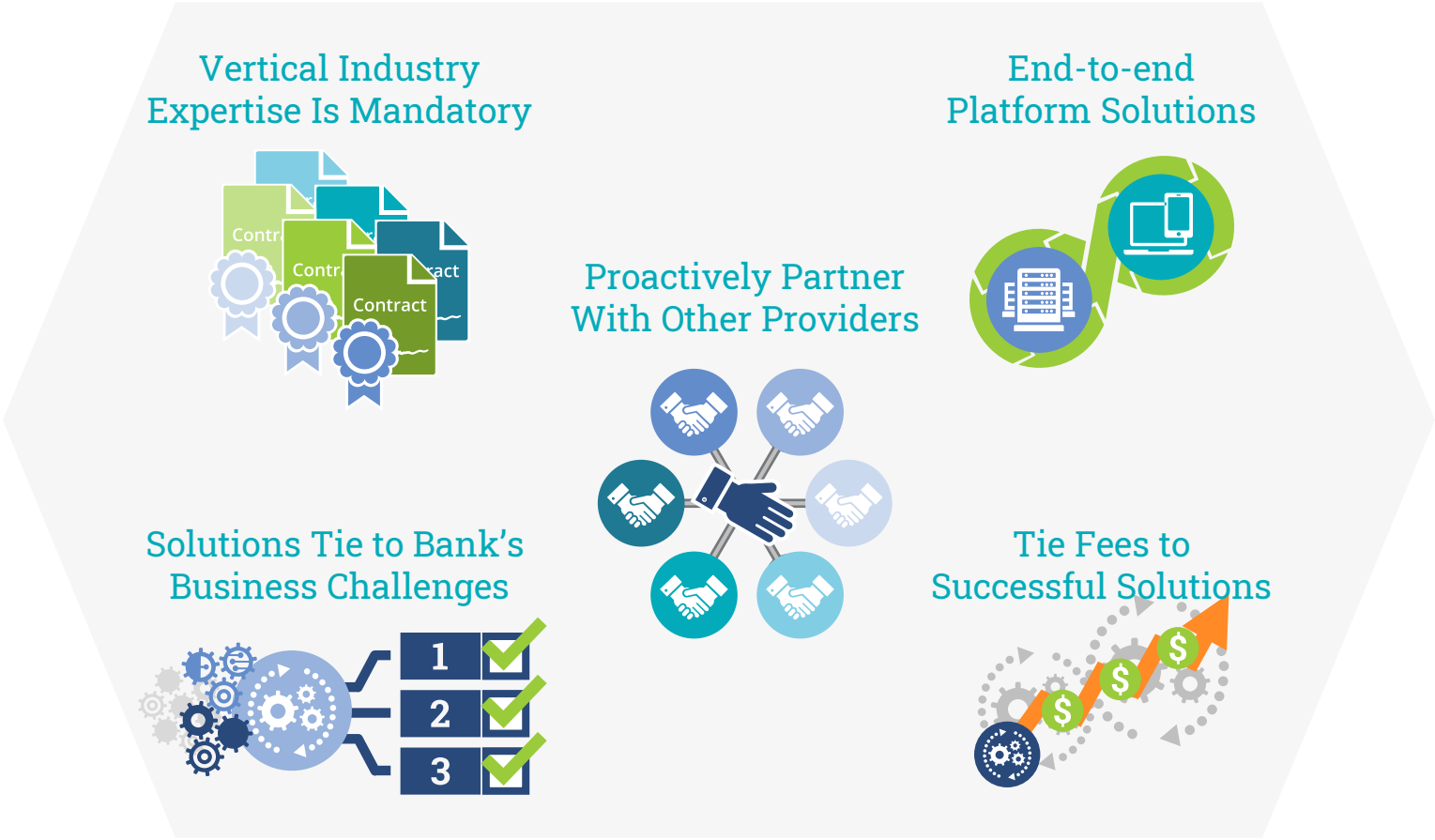
Challenge of integrating systems, monetizing data & maintaining security, To ensure customer centricity

Develop Technology Roadmap to Create “Digital Mesh”



Banking and Financial Services – Provider Implications

Resource, Talent &
R&D Capabilities



Be Creative!

Banks want to hear your ideas and thoughts on innovation

*ISG Index™ Insider

“
*Automation of knowledge work
is going to have a large impact
on the overall economy during
the next couple of decades*
”

4Q19 ISG Index™ Inside Track from

*ISG Insights™



Chip Wagner
Chief Executive
Officer, ISG
Automation

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Explosive Growth in RPA Software Market

UI Path

Raised \$1B
Total Valuation \$8B

Automation Anywhere

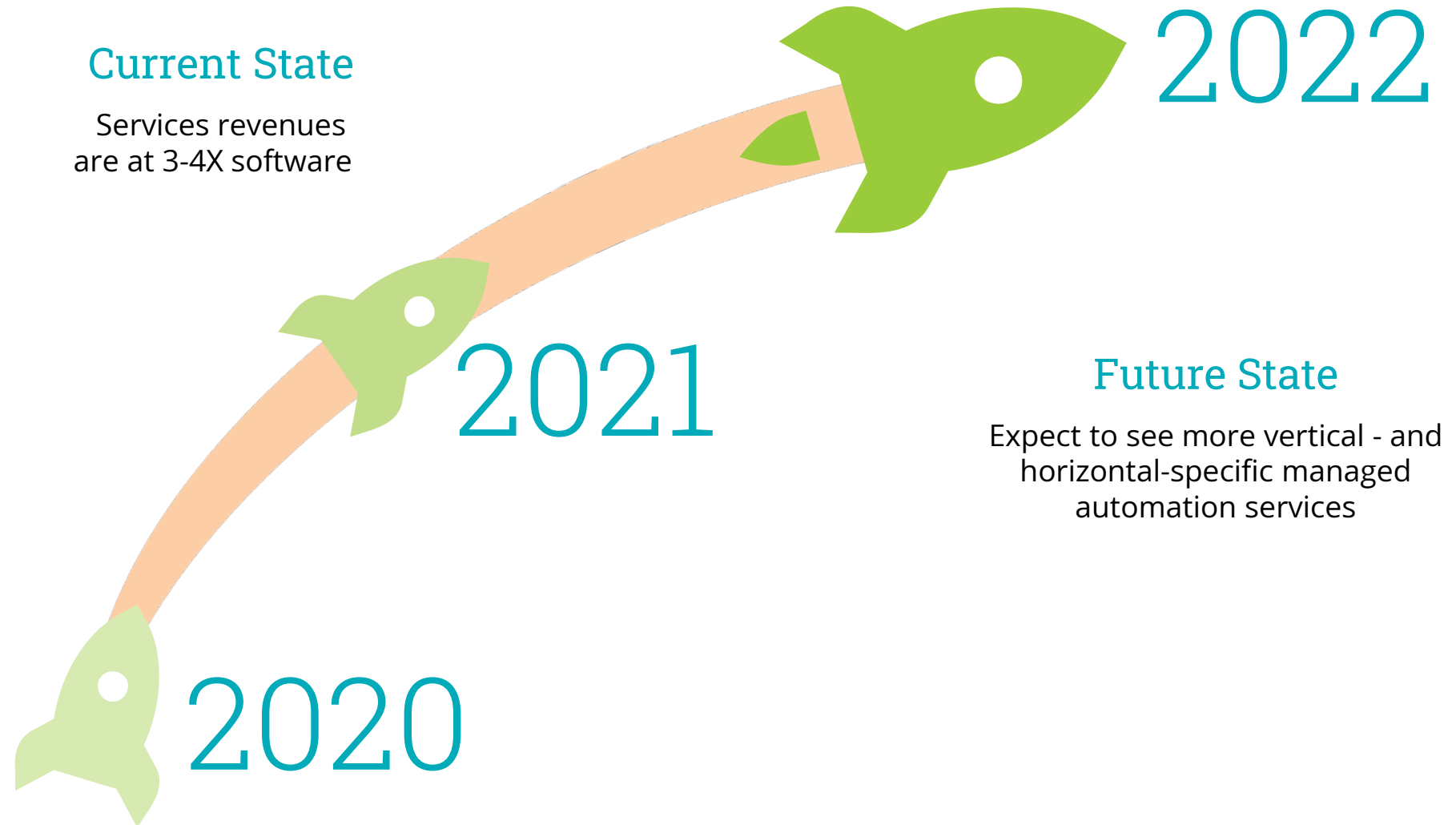
Raised over \$840M
Nearly \$7B valuation

Blue Prism

Went public 2016
Market Cap of \$1.1B US

Current State

Services revenues
are at 3-4X software



Breaking Through the RPA Wall

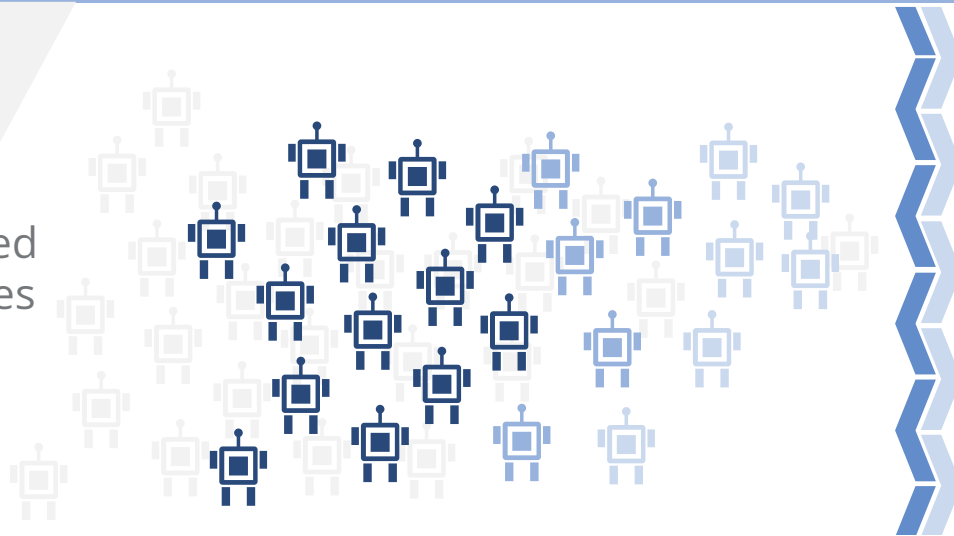
70% Companies have implemented RPA

59% Companies automated less than 20 processes

12% Automated 50 or more processes

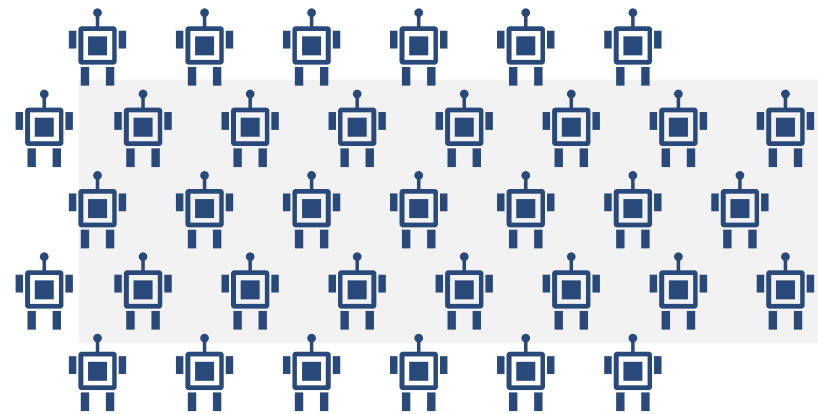
Average Utilization of BOTS Is Only

44%

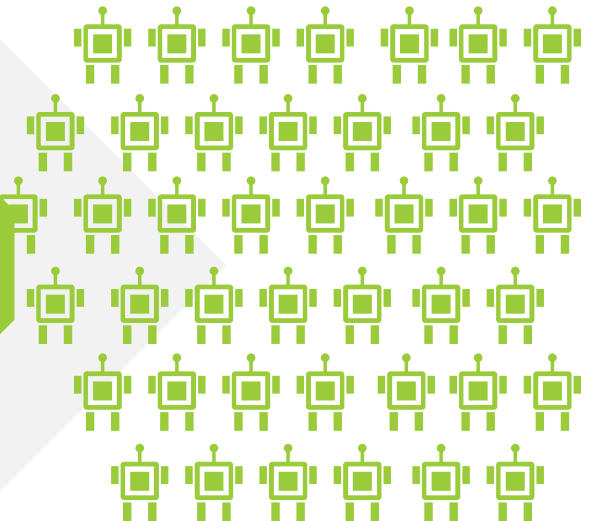


An Effective Automation Center of Excellence

Defines strategy and operating model, lays the foundation for building and supporting bots and establishes metrics and reporting standards

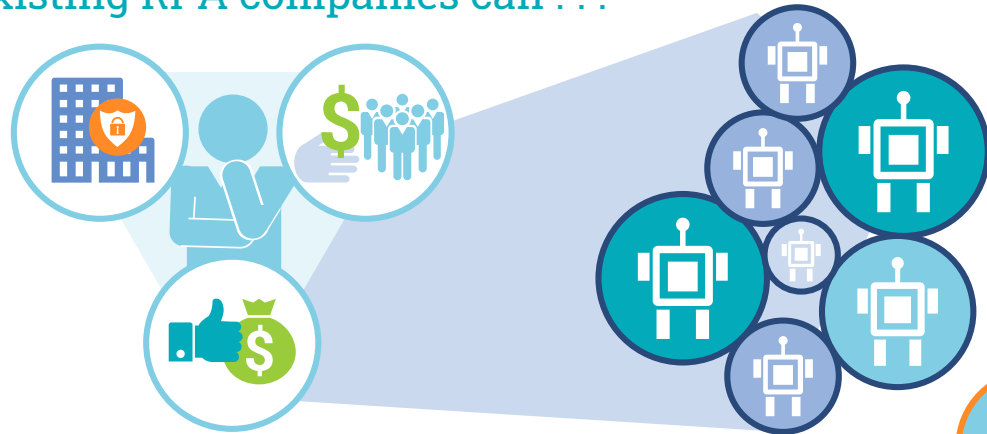


AUTOMATION CENTER OF EXCELLENCE



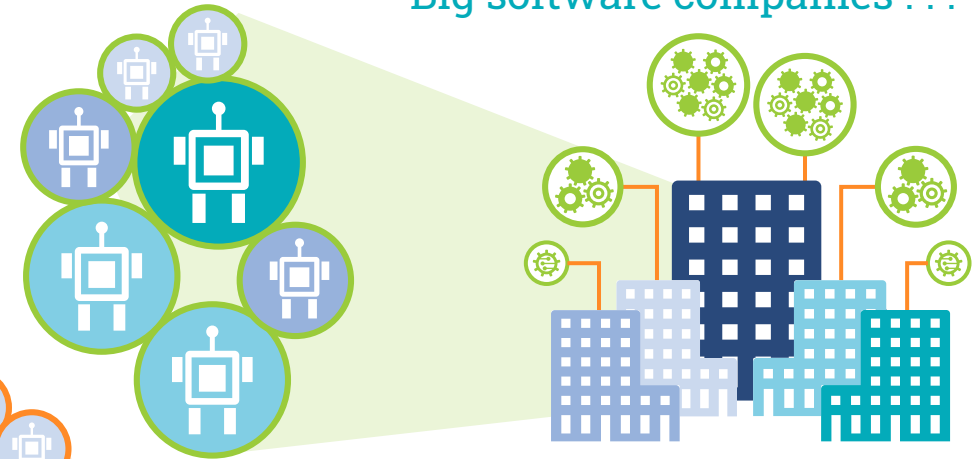
Implications: RPA Software and Managed Services Providers

Existing RPA companies can ...



- Be bought by a big software company
- Stay private
- Do an IPO

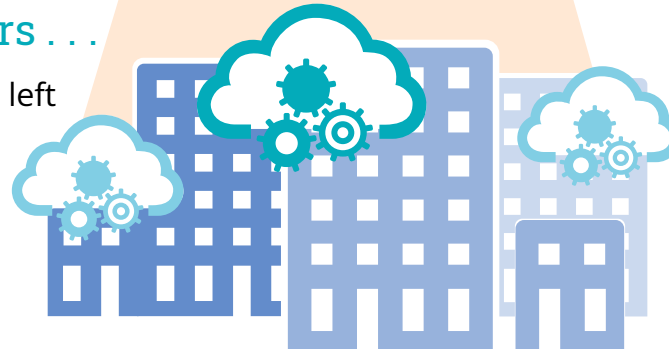
Big software companies ...



- New to the market, they have resources, customer base and expertise in product introduction
- Can they produce new product and catch up? Yes

BPO/ITO Providers ...

- Will take whatever is left



4Q 2019 ISG Index – Summary and Outlook

2019 Summary

Combined Market

Combined Market had healthy growth; 2% gain in Managed Services; 21% increase in As-a-Service.

Managed Services

Managed Services achieved highest ever annual results at \$27.7B globally, however, we continue to observe variability in contract award activity each quarter.

Digital-based ACV grew at 17%, outperforming the overall Broader Market.

As-a-Service

All three regions reached new highs; IaaS showed inconsistent growth rates.

2020 Outlook

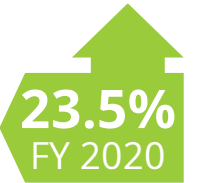
Services Market Forecast

Largest service providers are rebalancing strategies; watch to see who will choose digital-led transactions, and who will pursue legacy deal flow.



As-a-Service Market Forecast

AWS and Microsoft battle for market share supremacy in Europe; watch what will happen as China-based providers and Google Cloud expand beyond their comfort zones.

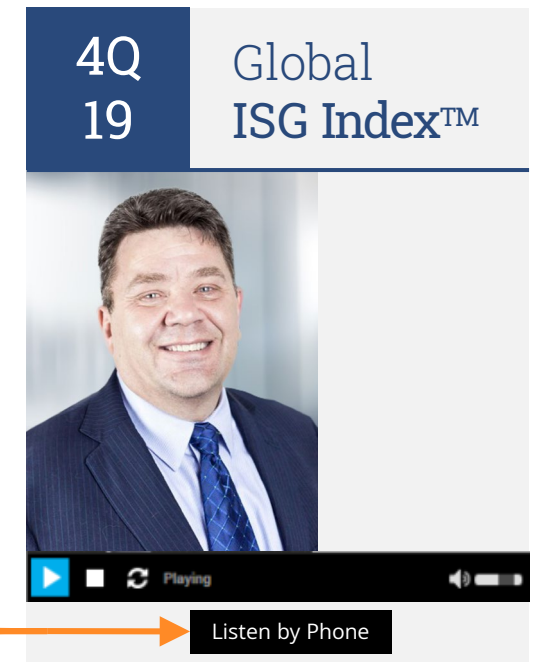


Want to Ask a Question?



1. Click the "Listen by Phone" button.
2. The phone number and passcode will appear, and the web streaming to your computer will be automatically muted.
3. After you dial in, the operator will ask you for your name and company.
4. Now press *1 to be added to the queue.

Your Webcast Screen





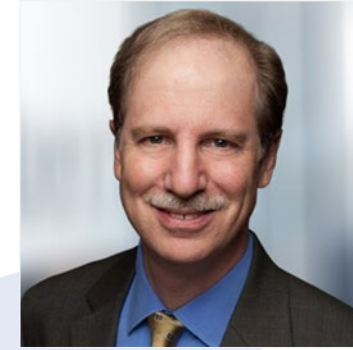
Steven Hall

President, ISG EMEA and
Partner, ISG Digital Services

+44 7384 259676

steven.hall@isg-one.com

Like to Learn More?



Will Thoretz

Global Leader, Corporate
Communications and Brand

+1 203 517 3119

will.thoretz@isg-one.com



Chip Wagner

Chief Executive Officer,
ISG Automation

+1 214 923 5400

chip.Wagner@isg-one.com

Thank You



Stanton Jones

Director, Principal Analyst
ISG Research

+1 281 795 2636

stanton.jones@isg-one.com



Clay Calhoun

Partner, ISG Sourcing Solutions
& FutureSource™ Leader

+1 512 810 3817

clay.calhoun@isg-one.com



Owen Wheatley

Lead Partner – Banking &
Financial Services

+44 7879 414490

owen.wheatley@isg-one.com



FOURTH QUARTER 2019

Appendix

TECHNOLOGY PROVIDER STANDOUTS

4Q/Full Year 2019 TCV Scorecard

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Service & Technology Provider Standouts – AMERICAS

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The Big 15		The Building 15		The Breakthrough 15		The Booming 15	
Revenues > \$10B		Revenues \$3B-\$10B		Revenues \$1B-\$3B		Revenues <\$1B	
Managed Services Market							
Accenture	DXC Technology	Alight Solutions*	HCL	Atento	Sutherland *	Birlasoft	Persistent Systems*
AT&T *	IBM Global Services	Amadeus *	OptumInsight	Athenahealth*	Sykes	CSG Systems	Startek
Capgemini	Infosys	Amdocs *	Tech Mahindra	EPAM Systems	TTEC	Ensono	WNS Global Services
CBRE	NTT DATA	Concentrix	Teleperformance *	JLL	Unisys	EXL	Zensar Technologies
Cognizant	TCS		Wipro	LTI	Virtusa		
				Mindtree *	WEX *		
				Mphasis			
As-a-Service Market							
Amazon	Microsoft	Adobe Systems	ServiceNow			CeridianHCM *	Paycom
Web Services	Salesforce	Equinix	SS&C Technologies	Autodesk	Digital Realty	CyrusOne	Proofpoint
Google	SAP	Paychex *	Workday			DocuSign *	RingCentral
						Flexential	

* New to leaderboard in 4Q19

Providers in alphabetical order; no rankings implied. Revenues sourced from D&B and individual company financial fillings.



Service & Technology Provider Standouts – EMEA

Our Contracts Knowledgebase™ is used to determine placements based on the annual value of commercial contracts awarded in the past 12 months.

The Big 15		The Building 15		The Breakthrough 15		The Booming 15	
Revenues > \$10B		Revenues \$3B-\$10B		Revenues \$1B-\$3B		Revenues <\$1B	
Managed Services Market							
Accenture	DXC Technology	Alight Solutions *	Orange Business Services	Alten	GFI Informatique	Allgeier SE	NNIT A/S
Atos	IBM Global Services	Amdocs	SopraSteria	Altran	JLL	Comarch	QIWI
BT	Infosys	Bechtle	Tech Mahindra	Asseco *	LTI	Datagroup AG	QuEST Global
Capgemini	ISS Global A/S	Computacenter	Teleperformance	Axians	MITIE	Devoteam	Reply SpA
CBRE	TCS	HCL	T-Systems	Cancom	Tieto	EXL *	SVA System Vertrieb Alexander GmbH
Cognizant			Wipro	Fiducia IT AG	Unisys	Fastweb *	WNS
				Finanz Informatik	Webhelp	HGS *	
As-a-Service Market							
Amazon Web Services	Microsoft	Adobe Systems	United Internet	Autodesk		OVH	
Google	SAP	Equinix	VMWare *				

* New to leaderboard in 4Q19

Providers in alphabetical order; no rankings implied. Revenues sourced from D&B and individual company financial fillings.



Service & Technology Provider Standouts – Asia Pacific

Our Contracts Knowledgebase™ is used to determine placements based on the annual value of commercial contracts awarded in the past 12 months.

The Big 15		The Building 15		The Breakthrough 15		The Booming 15	
Revenues > \$10B		Revenues \$3B-\$10B		Revenues \$1B-\$3B		Revenues <\$1B	
Managed Services Market							
Accenture	Hitachi	Amadeus *	Sabre	Digital China	NS Solutions	21Vianet Group *	Posco ICT
Cognizant	IBM Global Services	Amdocs	Samsung SDS	JLL	SCSK	Beyondsoft	Relia
DXC Technology	Infosys	Genpact	Sodexo	Mphasis	Sutherland	ChinaSoft	Shinsegae I&C
Fujitsu	NTT Data	HCL	Tech Mahindra	Neusoft *	transcosmos	Fuji Soft	Taiji Computer
	TCS	ITOCHU	Telstra	Nihon Unisys	Unisys	PLDT	WNS
		Techno-Solutions	TIS Intec				
		Nomura Research Institute	Wipro Limited				
As-a-Service Market							
Alibaba	Google			Autodesk		Atlassian	
Amazon	Microsoft	Adobe Systems		Digital Realty *		Automation Anywhere *	Veeva Systems
Web Services	Tencent	Equinix		PTC		Kingdee	Xero
China Telecom *				Sage			
				Teradata *			

* New to leaderboard in 4Q19

Providers in alphabetical order; no rankings implied. Revenues sourced from D&B and individual company financial fillings.

4Q/2019 TCV Scorecard

The ISG Index has moved to TCV as the primary measure of the broader market. We will continue to provide a high-level TCV view of the market via a scorecard analysis.

Scorecard	4Q19 TCV (\$B)*	4Q Year-to-Year Change	2019 Full Year TCV (\$B)*	Year-to-Year Change
Global Commercial Combined Market	33.8	8%	135.5	9%
By Type				
Managed Services	22.4	3%	92.5	6%
As-a-Service	11.3	20%	43.1	19%
ITO	14.5	9%	66.5	5%
BPO	8.0	-6%	26.0	6%
IaaS	4.8	8%	20.4	23%
SaaS	6.5	31%	22.6	15%
By Region				
Americas Combined	14.8	-13%	62.0	-2%
EMEA Combined	15.7	52%	56.0	20%
Asia Pacific Combined	3.4	-15%	17.5	24%

*Contracts with TCV ≥ \$25M from the ISG Contracts Knowledgebase™



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