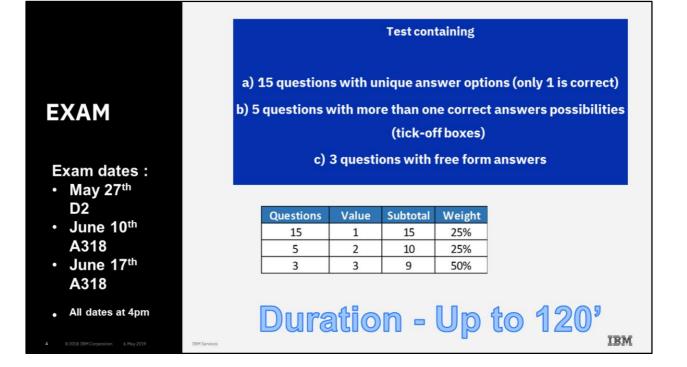


ITSM future directions



<u>Agenda</u>

- Exam info
- ITSM trends
- Cognitive and ITSM
- SIAM
- New horizon



How the exam will be evaluated?

F	< 50.9 %	not passed
Е	51% - 63%	σ
D	63.1 - 70%	Ū.
С	70.1 - 80%	SS
В	80.1 - 90%	a a
А	90.1 - 100%	–

Don't forget :

When I started my IT Service Management career, ITIL version 2 was king and we didn't really question 'how' we did service management. The companies I was working with were busy trying to get change management in place, improve their Service Desk functionality and decide how much Configuration management they really needed.

The arrival of ITIL version 3 felt at the time like a huge disruption. Service management people started to look outside of operations, and to understand how true service management operates across the entire service lifecycle.

Fast-forward a few years, and ITIL version 3 looks like a minor event compared to the current state of IT service management (ITSM). DevOps, Agile, Lean, SIAM, IT4IT – there's so many new things bursting onto the scene.

<text><list-item><list-item><list-item><list-item><list-item>

LOB – Line of Business

ITSM future perspectives

PROCESS PERSPECTIVE

ITIL as only ITSM framework is no longer sufficient to design a future process map

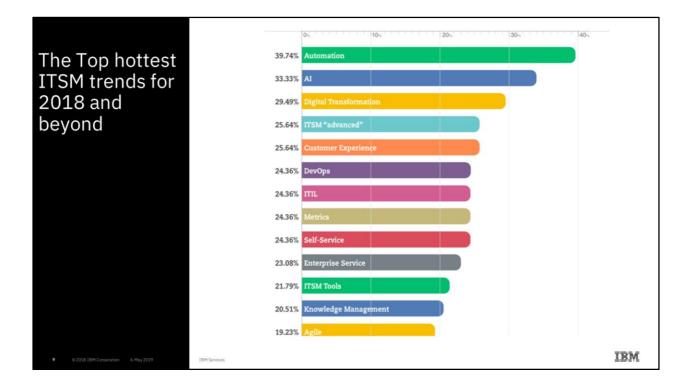
COLLABORATIVE PERSPECTIVE

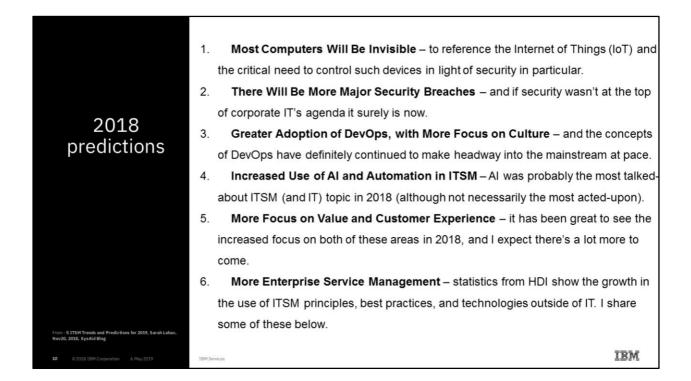
ITIL in combination with DevOps leads to better results in digital operating models

INTEGRATION PERSPECTIVE

Agile frameworks are helpful to facilitate an enterprise adoption

IBM





	1	ITIL 4	34.86	
	23.	People (including attitude, behavior, and culture (ABC))	24.77	1
	23.	Automation	24.77]
TTCM Thomas	4	Enterprise service management	21.1]
ITSM Trends	5	Digital transformation	20.18	
and Topics for	6	Customer experience (CX)	19.27	
2019	7	Artificial intelligence (AI)	18.35	
	8	Value demonstration	18.35	
	9	DevOps	18.35	
	10	Service integration and management (SIAM)	17.43	
	11	Agile	16.51	
ITCM Table coll according to a ITCM	12	ITSM "advanced"	16.51	
ITSM Tools poll among the ITSM professionals cross the world				-
From: Sophie Danby, ITSM Tools, Jan 2019 11 © 2018 IBM Corporation 6 May 2019	IBM Services			IBM

HOT TOPIC #1 – ITIL 4

ITIL 4 placing at number one across the 30 topic areas is a surprise and yet unsurprising. There has been so little information made available about what it will entail that there's probably pent-up demand from those people who have spent potentially their whole careers studying and then working with ITIL best practice. For many people, and organizations, AXELOS can't afford to underdeliver with ITIL 4. Thankfully the wait will soon be over – with the first ITIL update publication launch happening mid-February. We'll be creating content on what ITIL 4 means for the ITSM industry, and the people and organizations within it, once the first publication is released.

HOT TOPIC #2 (JOINT) - AUTOMATION

As I wrote when automation topped last year's poll:

"Automation is nothing new. IT management and ITSM solutions have been sold for decades based on the ability to automate previously manual activities for speedier and better outcomes, plus lower costs.

And now, in addition to traditional IT automation capabilities – such as scripts, process-workflow automation, and third-party system orchestration – AI, and in particular machine learning, is capable of extending and enhancing automation capabilities."

There's no doubt of its importance to ITSM and other business functions, with it playing a vital part in transforming business operations to meet the needs of digital transformation and the opportunities and challenges this transformation addresses.

HOT TOPIC #2 (JOINT) – PEOPLE

Well isn't this a pleasant surprise. I think few people would have predicted that people would be a top-3 topic area for ITSM pros. <u>Paul Wilkinson</u> and his pointy finger will likely be doing a little jig of joy right now.

Its importance makes so much sense though – there's little in ITSM that goes right (or wrong) without the influence of people. And the possible coverage areas are wide – from the required skills and capabilities for particular ITSM jobs, through effective leadership and management, to the need for organizational change management when driving change. And let's not forget wellbeing! Hopefully, 2019 will be the year when the ITSM community finally wakes up to realize the importance of people – and everything that makes them the best they can possibly be – to the success of IT service delivery and support.

HOT TOPIC #4 – ENTERPRISE SERVICE MANAGEMENT

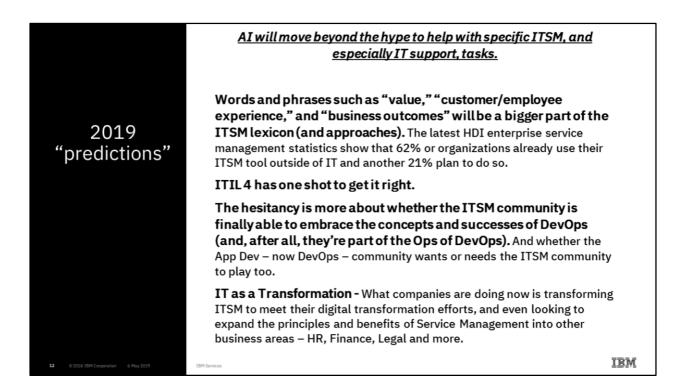
Again, as with automation, enterprise service management is nothing new. In fact, much of ITSM.tools' enterprise service management content was written 2-3 years ago when its profile was rising rapidly within the ITSM community. Recent ITSM industry surveys, such as HDI's 2018 "<u>The State of Enterprise Service</u> <u>Management</u>" report (registration required), show just how far enterprise service management has come in terms of adoption and the proof of benefits. Plus, <u>the connection of enterprise service management to the third element of digital transformation</u> – back-office transformation – is another driver for interest and adoption.

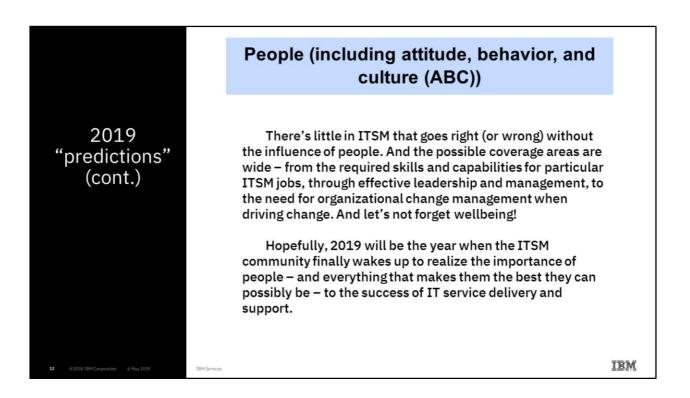
HOT TOPIC #5 – DIGITAL TRANSFORMATION

Digital transformation is another top-5 holdover from 2018, albeit with a minor drop. And the words from my 2018 article still hold true:

"There's no doubt that a key ITSM challenge for <<this year>> will be delivering against the business need for "digital transformation" – from generating new revenues (driven by technology and data), providing better customer engagement capabilities, and the need to bring corporate back-office operations into the 21st century."

And I've still not seen anything that contradicts the point of view that enterprise service management (and thus ITSM) can be a great platform for digital transformation – from better designing, delivering, managing, supporting, and improving IT/business services to helping to improve business back-office capabilities using ITSM principles, thinking, capabilities, and technologies.







Four critical capabilities for today's successful service management:

- The Service Management should be right-sized for the organization
- Organizational change is critical
- Use the right tools to automate ITSM
- Don't treat ITSM as having a beginning and end, but a rolling roadmap

However thanks to a rapid evolution of those drivers in IT it resulted in a brand new set of challenges and drivers.

Disruptive New Technologies	Higher business dependency on IT	Focus on Business Outcomes	Speed of Delivery
Responding to new, on- demand, SaaS and IaaS offerings, cybersecurity requirements, leveraging the InternetofThings as well as integrating social and mobile Technologies	Digitisation of business processes, Big Data and Business Intelligence driving predictive analytics and blurring and distinction between IT and Business	Delivery of end-to-end, outcome based service driven and enabled by IT focusing on creating, building and maintaining business value	Delivering better, more innovative and intuitive technology and services faster and cheaper than ever before





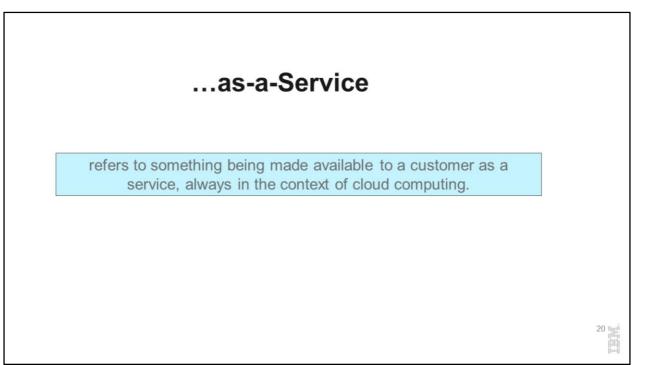
What's driving the move to Cloud computing?

- Greater than 70% of businesses are considering or using private clouds ⁽¹⁾
- Business drivers speed, flexibility and economics
 - Business is adopting cloud 5x faster than IT operations ⁽²⁾
- IT challenges sprawl, control and integration
 - 70% of IT resources is captive in maintenance and operations ⁽³⁾

IDC, datacenter ad]nd Cloud Computing Survey
 "You are not ready for Internal Cloud", Forrester
 Information Week Analytics survey

18



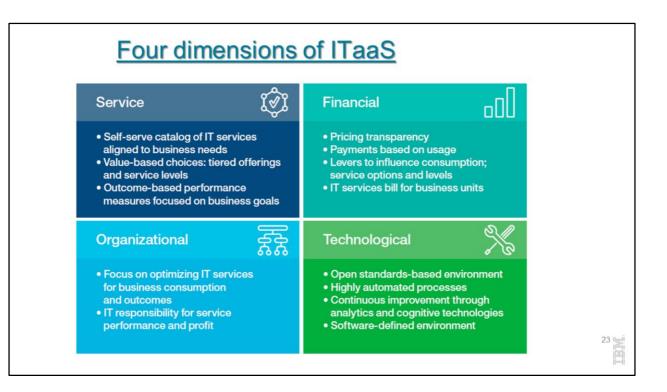


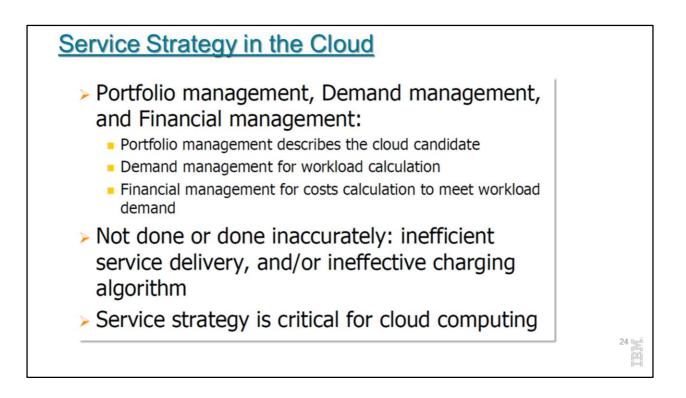
Software-as a Service (SaaS)		
is a model of software deployment whereb	y an application is licensed for use as a	
service provided to customers on demand.		
Platform as a Service (PaaS)		
is the set of well defined APIs that a cloud p	provider offers developers to implement	
applications in the cloud provider's environ	ment. PaaS also refers to the	
provisioning of a development and testing e	environment via cloud for a group of	
developers.		
Infrastructure as a Service (laaS)		
is the delivery of computer infrastructure (C	PU, storage, backup and network) as a	
service.		
Monitoring as a Service (MaaS)		
Business Process as a Service (BPaaS)		
Analytics as a Service (AaaS)		21
Backup as a Service (BaaS)	API – Application Programming Interface	

ITaaS = IT-as-a-Service

IT as a Service (ITaaS) is a technology-delivery method that treats IT (information technology) as a commodity, providing an enterprise with exactly the amount of <u>hardware</u>, <u>software</u>, and <u>support</u> that it needs for an agreed-on monthly fee. In this context, IT encompasses all of the technologies for creating, storing, exchanging, and using business data.

IT as a service (ITaaS) is an operational model where the information technology (IT) service provider delivers an information technology service to a business. (*Wikipedia*)



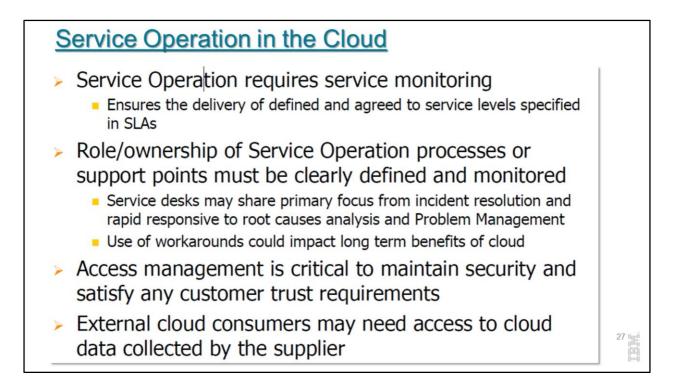


7	Services are designed based on what will best deliver on Service Strategy	
	 Services in the Cloud are: Delivered remotely It is critical to be specified and designing accurately Errors can negatively impact cost and difficult to correct Focus is typically on service level contracts 	
X	 SLAs are required: Service deliverables are understood by all parties Expectations are set 	
×	Suppliers have to be identified and selected	
*	In practice, external cloud supplier may be directed to meet the SLA targets but IT is accountable for failed or poor SLAs	
A	Availability and capacity to ensure services described in the portfolio and specified in the SLAs can be delivered by cloud computing suppliers	
A	IT service continuity management and information security management must be in place before the service goes "live"	

Service Transition in the Cloud

- > Service transition encompasses more than just change management
- Cloud computing needs to find synergy between existing in-house technologies and cloud technologies fuse through change management within Service Transition
- > Governance issues may need to be dealt with concerning who owns change mgt:
 - Internal IT or the cloud suppliers
 - who will own and manage changes in the future
 - Change ownership and relationships are vital to establish before transition into production status
- Release and deployment management is required as Service is rolled out to ensure it is successful and well managed
 - Managing in-house and cloud technologies release versions of software and the updating of remote technologies
- Underpinning service transition are service asset and configuration management, which will detail exactly who owns the responsibility for the devices and software required to provide the new service, as well as the configuration management system where those assets reside.
- Service transition is the last-chance saloon because errors here can be extremely difficult and expensive to resolve once in production

26

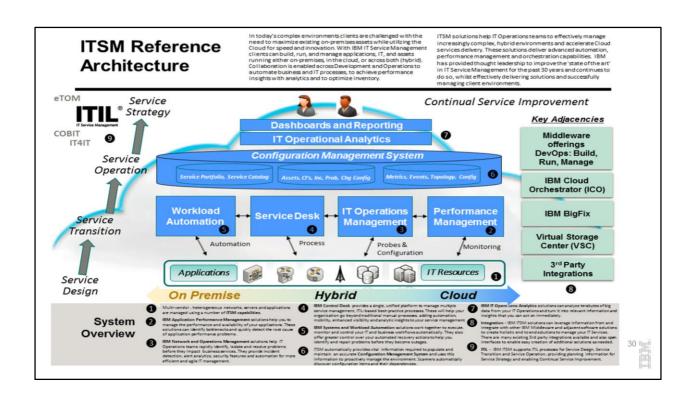


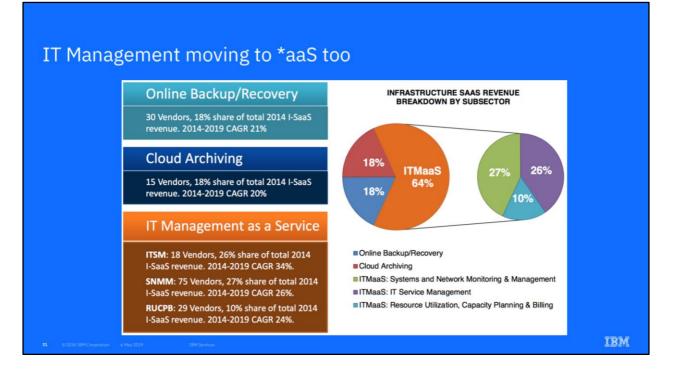
Continuous Service Improvement in the Cloud	
 Cloud Computing Requires CSI for Agility, Adaptability in Responding Quickly and Effectively to Changes in Business Conditions: CSF's, KPI's and CSI Required to ensure Business/IT alignment, Cost Effectiveness and Effective Service Provisioning Service Catalog, Demand Mgt, SLA's/OLA's, etc. Improvement Model and 7 Step Improvement Process are Required Identifying, Qualifying, Quantifying and Reporting on Service Success 	
 Factors is Mandatory for Both the Customer and the Service Provider Continuous Service Improvement Ensures the Focus Stays on Services, Business/IT Alignment and 	
 Measurement in a Cloud Remote Paradigm "If you can't measure it, you can't manage it" is a critical criteria 	

CSF – Critical Success Factor, KPI – Key Performance Indicator

SLA – Service Level Agreemnt, OLA – Operation Level Agreement

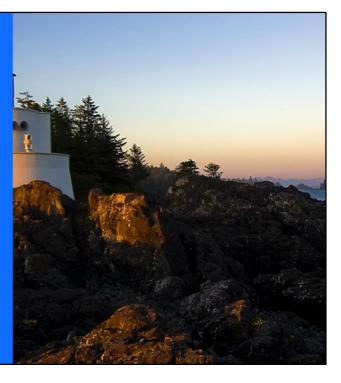






Cognitive ITSM

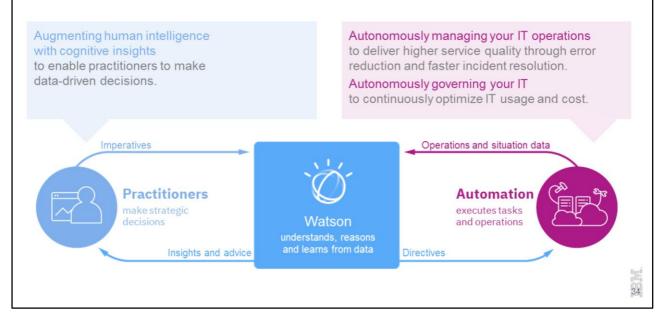




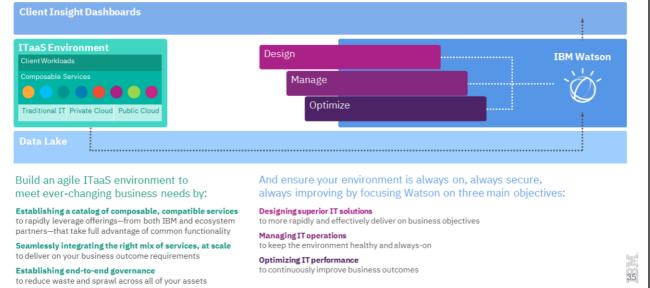
Three key areas that separate cognitive IT service management from traditional ITSM

Continuously learn
 Anticipate and adjust
 Recommend action

Partnering humans with a cognitive 'brain' and automation on an integrated platform enables you to accelerate innovation and deliver unmatched performance by:

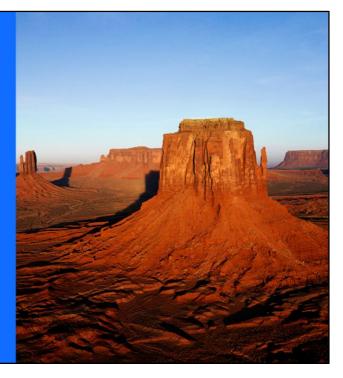


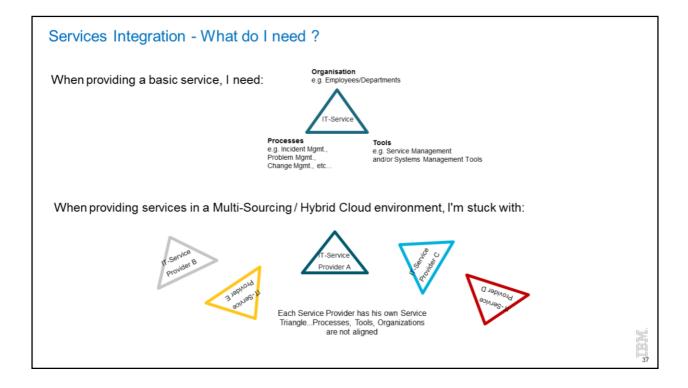
IBM **Services Platform** with Watson



Service Integration and Management

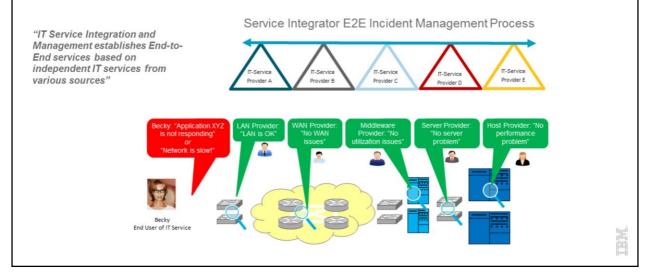
SIAM



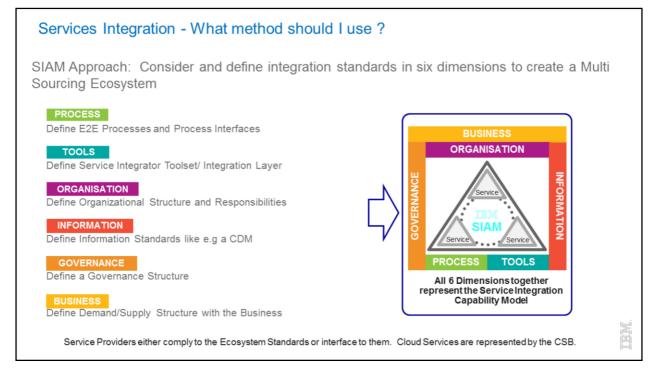


Services Integration - What is the key ?

Alignment of Processes: The different Providers align or connect their processes E2E as defined by the Service Integrator



Service Integration and Management (SIAM) is an approach to managing multiple suppliers of services and integrating them to provide a single business-facing IT organization.



The SIAM framework covers the 6 major dimensions of Service Integration and Management. It sets out different levels of maturity for the service integration function and the corresponding capabilities required. It provides a structure to understand capabilities needed and to plan their development, implementation and continuous improvement.

1. Process: The set of common processes that define the interactions among the Client Agents in the ecosystem.

In any Multi-Sourcing Ecosystem, the need for clearly defined interfaces is critically important.

Two key aspects to consider are:

 Image: The interfaces between different processes

Process interfaces are the items of information which relate different processes;

Typically they are defined as inputs, outputs or controls within each individual process definition document; and

It is also of high value to illustrate such interfaces in an overall "process context diagram".

- Image: Description of the sector of the se
- Organizational interfaces indicate who is responsible for doing what;

and

Typically they are defined as process-specific roles, each with a list of associated responsibilities.

2. Tooling: The tools, which support the execution of the operating model.

The SIAM Tools Domain has three major components:

Image: ParticipationA SIAM ITSM toolset;

An Integration Layer to enable integration to the ITSM Toolsets of the different Client Agents; and

A SIAM Reporting Engine and Dashboard.

3. Organization: The structures, enablers and behaviors that are put in place so that each Client Agent knows its contribution and is properly equipped to deliver it.

A key enabler for the alignment of the SIAM and the Client Agents is the Operational Level Agreement, which is described in more detail later.

4. Governance: The definition of the decision-making and control structure in the ecosystem.

The governance model is based on the agreed principles of vested sourcing: Customer will retain overall control and gain relationship, technology innovation and cost advantages through Customer's and Supplier's joint organizational and governance approach.

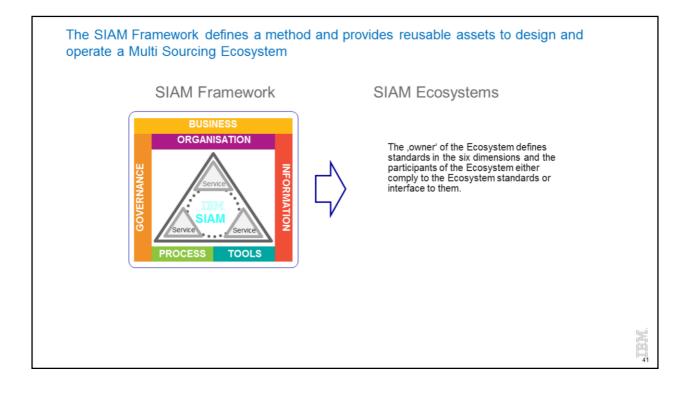
The proper governance model includes:

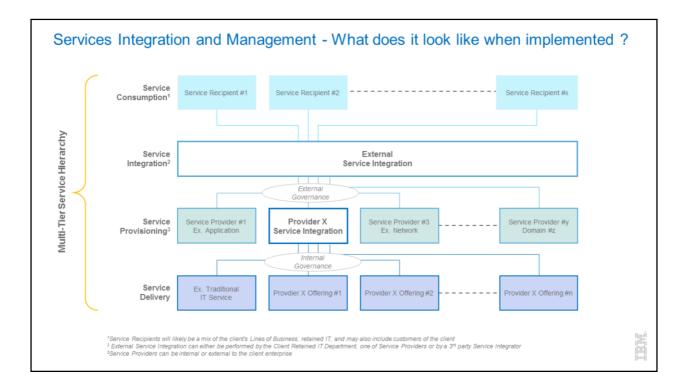
A clearly articulated decision framework on how and by whom decisions will be made and clear responsibility for executing against decisions; and
 A shared vision for the type of relationship the parties aspire to have and how they will manage the relationship.

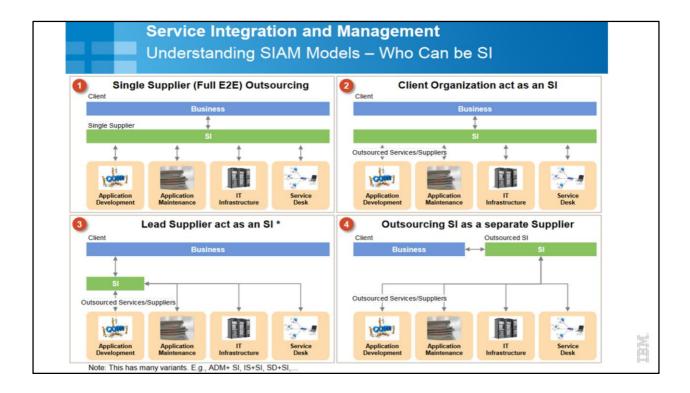
Next to this governance model which will be implemented between Supplier and Customer we will also respect the existing outsourcing governance commitments, which are in place for the external business contracts. We will review these commitments and optimize where possible, without jeopardizing the existing relationships.

5. Information: The collection of data with regard to measuring service quality and process performance that is needed to control and report on the performance of the ecosystem.

6. Business: Positioning Service Integration as a 'business within a business' aligns business demand with the service catalog and capacity. This capability defines the way the service delivery is structured. In what way demand for service is captured and how the scope of service delivery is divided between Customer's retained groups, SIAM and the Client Agents.







Is ITIL still the "best" available ITSM framework with the rise of Agile, Dev-Ops etc. adoption?

ITIL and ITSM still are best codifications of the business processes that underpin IT Operations, and actually describe many of the capabilities needed in order for to support a work stream.

ITSM/ITIL shouldn't be pigeonholed as an administrative burden, but rather used in an agile way. ITIL in particular isn't perfect and needs a more modern veneer -- but the core practices are sound and proven.

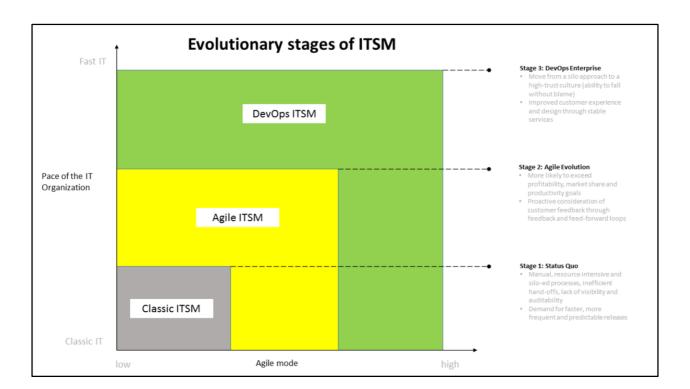
Let's be clear: ITIL is important. Around two million people have been trained in it, and as the closest thing to an industry standard for IT management that currently exists, it has global reach. Lots of people *read* the ITIL volumes as guidance to their IT organizations. Throughout all its versions, ITIL has been framed as a complete approach to managing the IT function, with the specific exceptions of project methodology and systems architecture. Plus, it's worth noting that ITIL also informs the product directions of vendors selling IT management tools; in fact, they often market their IT service management tools as "supporting" the ITIL processes.

DevOps is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes. This speed enables organizations to better serve their customers and compete more effectively in the market.

DevOps is a set of software development practices that combines software development (Dev) and information technology operations (Ops) to shorten the systems development life cycle while delivering features, fixes, and updates frequently in close alignment with business objectives. ¹

Agile was seen as a set of management practices relevant to software development. That's because Agile's initial advocates were software developers and its foundational document was the Manifesto for Software Development of 2001. Fifteen years later in 2016, following recognition by Harvard Business Review, McKinsey & Company and the 2015 Learning Consortium Project, Agile is now spreading rapidly to all parts and all types of organizations.

Agile's emergence as a huge global movement extending beyond software is driven by the discovery that the only way for organizations to cope with today's turbulent customer-driven marketplace is to become Agile. Agile enables organizations to master continuous change. It permits firms to flourish in a world that is increasingly volatile, uncertain, complex and ambiguous.



The Future - DevOps

DevOps = Development & Operations

- We used to say "Integrating ITSM into the SDLC"
- Faster time to value removes the middleman
- Continuous release, new platforms in minutes

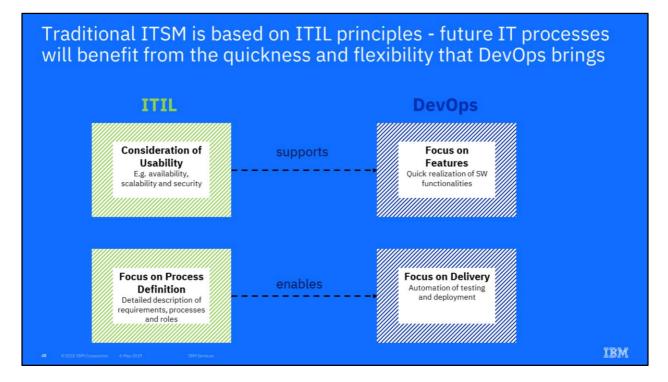
Legacy Ops Processes "a problem"

- The structure of IT process must change
- The approach to RACI for process must change
 - · Consistent process must remain (that means ITIL)

ITSM should change – control must devolve & processes must automate

SDLC – System Development Life Cycle

IBM

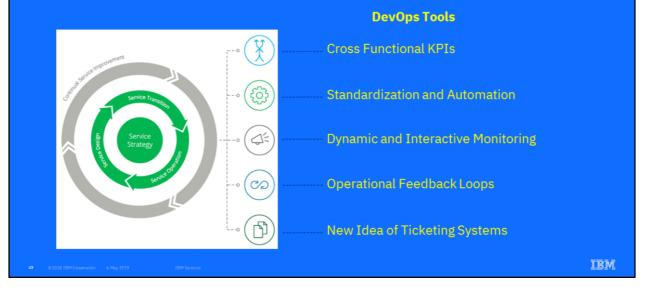


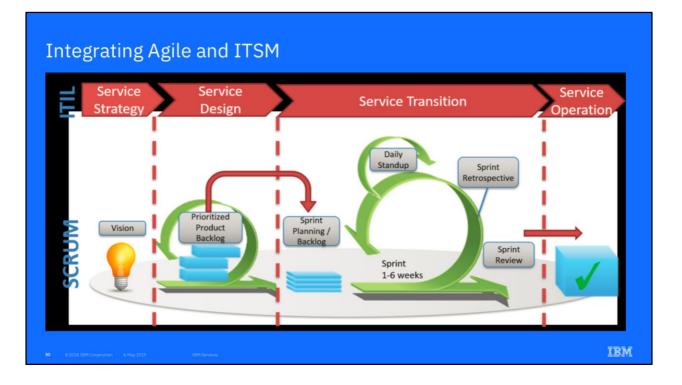
The common perceptions of ITIL and DevOps seem to contradict each other on the first glance rather than illustrate a perfect match: DevOps is agile, quick and collaborative while ITIL's strength lies within the rigid and detailed definition of processes, services and roles to manage and avoid risks rather than to learn from them. However, if evaluated carefully, both frameworks complement each other.

••While executing DevOps which focuses on the realization of functional requirements ("features"), ITIL also ensures that requirements like availability, scalability and security are met by following proven processes and using well established metrics and KPIs. The almost rigid and in detail described processes in ITIL even create the basis for automation – you cannot automate what has not been well described previously.

•• It is important to note that ITIL grants a degree of flexibility too. The framework often solely describes what shall be done, but not how (example: KPIs). This flexibility can be leveraged to make ITIL more agile, customer-centric and even customer-led by applying tools and methods from DevOps.

DevOps complements ITIL with proven approaches and modern collaboration tools to enable a more agile ITSM organization





Summary	 Cloud changes everything and you can't avoid it so get behind it Use ITIL/ITSM to offer mentoring on how to choose and manage services wisely IT doesn't go away with cloud just its role changes ITSM/ITIL are critical to success with cloud New SIAM architecture is the way to manage successfully large IT infra DevOps is the angle into conversation Agile everywhere as approach not as must 	
	TBM Services	

- ITSM is still seen by many as purely ITIL-focused or relevant only to internal IT operations.

- ITSM needs to grow up. In the past this has been too narrowly focussed on internal IT functions, projects and costs.

- ITIL has been the 'de facto' training and development approach for the last 10 to 15 years, yet those involved in delivering it know that ITIL is not enough – success requires much more than knowledge of a process framework. In reality ITIL currently offers little in terms of practical guidance around successful 'implementation'. IT and ITSM also need to be viewed and appreciated more in a business broker role, more able to react quickly and be a solution provider rather than a 'blocker' - or the guys who always say 'no'. Without a significant change in speed of delivery, quality and perception of service and demonstrable value, many IT internal departments and external IT companies will become more and more exposed as obsolete and, ultimately, redundant. The ITSM industry itself also needs a make-over, with fresh and accessible content, some new and contemporary framing and messaging, in order to remain attractive and relevant.

- There is a large gap in the body of knowledge around ITSM – ITIL is primarily focussed on process, whereas successful ITSM requires a much wider portfolio of skills and capabilities. ITIL does not define organisational change, human interaction or customer experience, all essential for success. Many organisations have expected

ITIL to deliver results way beyond its capability or remit, seeing ITIL itself as the solution and ignoring these other factors. The result has been a lot of failed or incomplete 'ITIL projects' – these have burned cash and resources with few positive results, leaving the brand names associated with ITIL and ITSM damaged. Without a central body to manage these issues, each area of the industry has continued unilaterally to deliver point solutions with limited success and restricted commercial penetration. ITSM is therefore not a properly codified discipline. In its current form it will not be sustainable, and the industry needs a new and wider definition, vision and structure. This should include, for example, a broader definition and portfolio of skills and capabilities, body of knowledge, and organisational standards, plus clear career development paths, higher education qualifications and a code of conduct. ITSM needs to be clearly positioned and presented as a business approach both within and beyond IT organisations. This is a growth area as many organisations are now using ITSM processes and tools to deliver wider collaboration and work management functions. C-level value propositions must be universally promoted around ITSM as an enabler, broker, orchestrator, rather than administrator. All stakeholders need to engage and play their part in the delivery of Service Management - it's a team game. We need to move away from thinking that ITSM is 'just what the Service Desk do.' In other words, in order to survive, the IT and ITSM industry has to move to the next level of maturity - we collectively need to grow up.

