COURSEWARE

Specialist High **Velocity IT (HVIT)** Courseware

ITIL Master

Managing Professional (MP) Transition

ITIL Managing Professional (MP)

ITIL **Specialist** Specialist Create, Deliver & Support

Drive Stakeholder Value

ITIL Specialist High

Direct, Velocity Plan & IT **Improve** ITIL Strategic Leader (SL)

ITIL Strategist Leader Direct, Digital Plan & & IT **Improve** Strategy

ITIL Foundation

Strategist





Colophon

Title: ITIL® 4 Specialist High Velocity IT (HVIT) Courseware

Author: Van Haren Learning Solutions E.A.

Publisher: Van Haren Publishing, 's-Hertogenbosch

ISBN Hard Copy: 978 94 018 0674 9

Edition: First edition, first print, August 2020

Design: Van Haren Publishing, 's-Hertogenbosch

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About this Courseware

This Courseware was created by industry experts. The input for the material is based on existing publications and on the experience and expertise of the author(s). The material has been reviewed by trainers who did trial courses with test versions of this material. This courseware aligns with the examination specs of the certification body.

The objective of the courseware is to provide maximum support to the trainer and to the student, during his or her training. The material has a modular structure. The content has been designed to help the student to realize the highest success rate should he or she opt for examination.

Additionally, the training organization, is expected to make the material available to each student, in order to obtain full accreditation for the training course. To optimally support the trainer and the participant of the training, also assignments, sample exams and feedback to its results are provided with this courseware.

When applicable, reference is made to the framework book or other literature where students and trainers can find additional information concerning a particular topic. In each page ample space is left in order to have students take notes throughout the material.

Although the courseware is complete, the trainer is encouraged to deviate from the structure of the sheets or to choose to not refer to some of the sheets. And hopefully the trainer adds his own case material, based on his own practice! The student always has the possibility to cover these topics and go through them at his own pace. This has been made easy because the courseware and the framework book follow the same structure.

Simply said, the courseware and the recommended literature are the perfect combination to learn and understand the theory.

The publisher

Other publications by Van Haren Publishing

Van Haren Publishing (VHP) specializes in titles on Best Practices, methods and standards within four domains:

- IT and IT Management
- Architecture (Enterprise and IT)
- Business Management and
- Project Management

Van Haren Publishing is also publishing on behalf of leading organizations and companies: ASLBiSL Foundation, BRMI, CA, Centre Henri Tudor, Gaming Works, IACCM, IAOP, IFDC, Innovation Value Institute, IPMA-NL, ITSqc, NAF, KNVI, PMI-NL, PON, The Open Group, The SOX Institute.

Topics are (per domain):

IT and IT Management	Enterprise Architecture	Project Management
ABC of ICT	ArchiMate [®]	A4-Projectmanagement
ASL®	GEA®	DSDM/Atern
CATS CM®	Novius Architectuur	ICB / NCB
CMMI [®]	Methode	ISO 21500
COBIT [®]	TOGAF [®]	MINCE®
e-CF		M_o_R®
ISO/IEC 20000	Business Management	MSP®
ISO/IEC 27001/27002	BABOK * Guide	P3O®
ISPL	BiSL® and BiSL® Next	PMBOK® Guide
IT4IT®	$BRMBOK^{TM}$	Praxis*
$IT\text{-}CMF^{\text{tm}}$	BTF	PRINCE2®
IT Service CMM	EFQM	
$ITIL^*$	eSCM	
MOF	IACCM	
MSF	ISA-95	
SABSA	ISO 9000/9001	
SAF	OPBOK	
$SIAM^{TM}$	SixSigma	
TRIM	SOX	
VeriSM TM	SqEME®	

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Self-Reflection of understanding Diagram

'What you do not measure, you cannot control." - Tom Peters

Fill in this diagram to self-evaluate your understanding of the material. This is an evaluation of how well you know the material and how well you understand it. In order to pass the exam successfully you should be aiming to reach the higher end of Level 3. If you really want to become a pro, then you should be aiming for Level 4. Your overall level of understanding will naturally follow the learning curve. So, it's important to keep track of where you are at each point of the training and address any areas of difficulty.

Based on where you are within the Self-Reflection of Understanding diagram you can evaluate the progress of your own training.

Level of Understanding	Before Training (Pre- knowledge)	Training Part 1 (1st Half)	Training Part 2 (2nd Half)	After studying / reading the book	After exercises and the Practice exam
Level 4					i I
I can explain the					;
content and apply it .					<u>'</u>
Level 3					/
I get it!					Ready for
I am right where I am				أنمر	the exam!
supposed to be.				2000	
Level 2					
I almost have it but					
could use more					
practice.					
Level 1					
I am learning but don't					
quite get it yet.					

(Self-Reflection of Understanding Diagram)

Write down the problem areas that you are still having difficulty with so that you can consolidate them yourself, or with your trainer. After you have had a look at these, then you should evaluate to see if you now have a better understanding of where you actually are on the learning curve.

Troubleshooting		
	Problem areas:	Topic:
Part 1		
Part 2		
You have gone		
through the book		
and studied.		
_		
You have answered		
the questions and		
done the practice		
exam.		

Timetable

Day 1
ITIL® 4 Foundation recap
• Introduction
Key terms and definitions
Objectives and key characteristics
Day 2
Culture
• Techniques
Day 3
ITIL practices
Exam preparation





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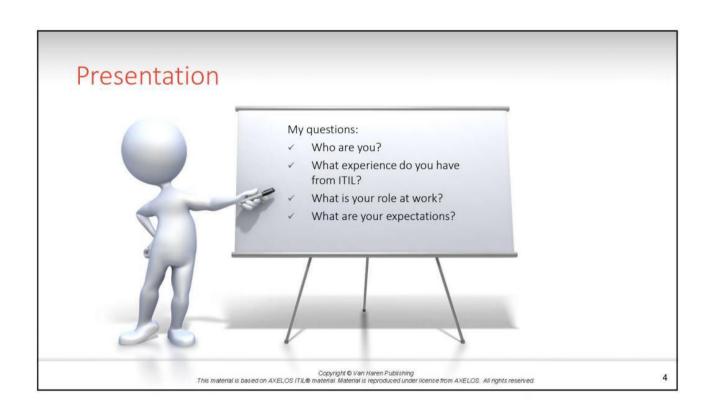
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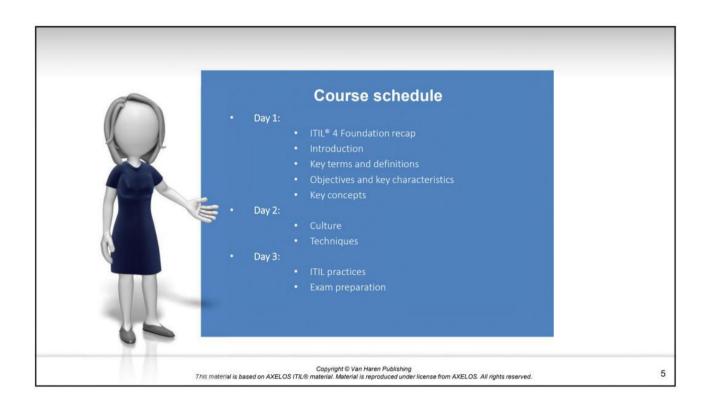
Our coming days

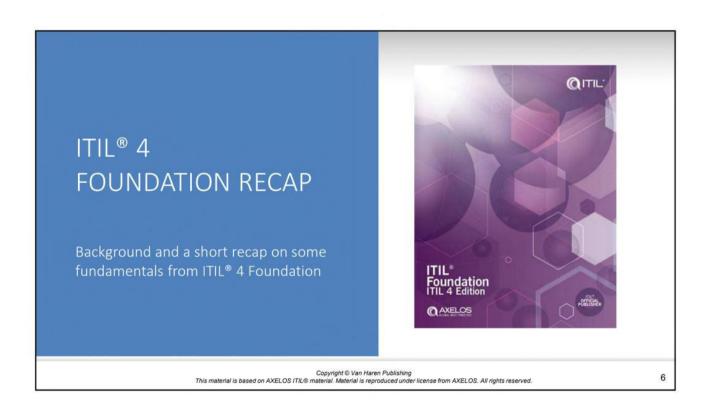
Safety
Breaks
Lunch
Phones/Computers

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Introduction

Foundation recap

This section will focus on validating the ITIL® 4 Foundation concepts that are prerequisites for this training. Key areas covered include:

- The four dimension model
- The ITIL service value system (SVS)
- The ITIL guiding principles
- Governance
- · The ITIL service value chain
- The ITIL management practices
- Continual improvement

- Basic terms and definitions such as:
 - · Provider and Consumer
 - Service and Products
 - Service management
 - Service relationship management
 - · Value; Outcome, Cost and Risk
 - Utility and Warranty

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Service management

Foundation recap

Definition: Service

A means of enabling value co-creation by facilitating outcomes that customers want to achieve, without the customer having to manage specific costs and risks.

Definition: Service management

A set of specialized organizational capabilities for enabling value for customers in the form of services.

Developing these capabilities requires an understanding of:

- · the nature of value
- the nature and scope of the stakeholders involved
- how value creation is enabled through services.

Sector contribution to GDP (%)

Services 59

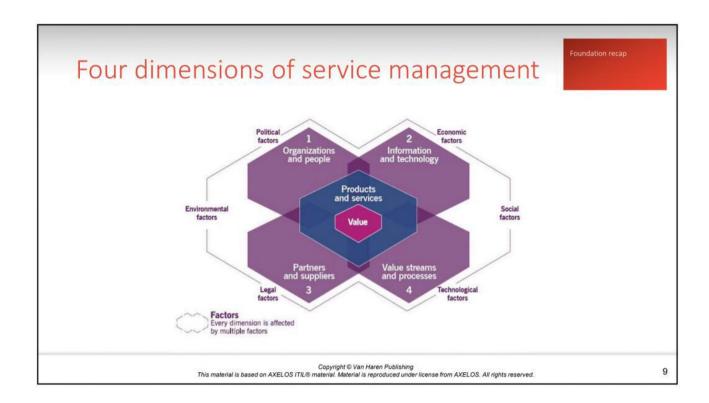
Industry 27

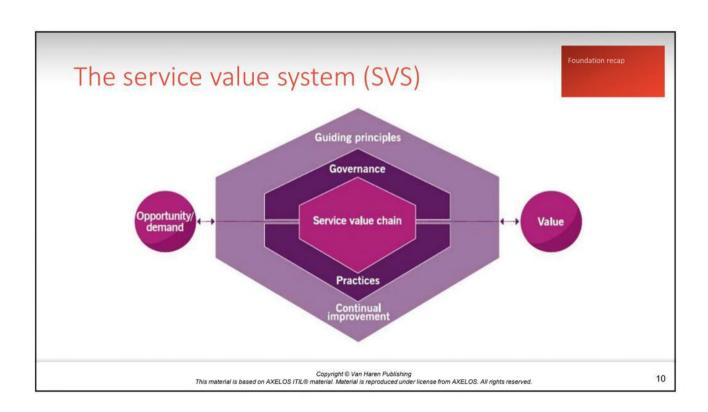
Agriculture 14

1950 1960 1970 1980 1990 2000 2010



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The 7 ITIL guiding principles

Foundation recap



Focus on value

Everything that the organization does needs to map, directly or indirectly, to value for the stakeholders.



Start where you are

Do not start from scratch and build something new without considering what is already available to be leveraged. The current state should be investigated and observed directly to make sure it is fully understood.



Progress iteratively with feedback

Do not attempt to do everything at once. Even huge initiatives must be accomplished iteratively.



Collaborate and promote visibility

Working together across boundaries produces results that have greater buy in, more relevance to objectives and better likelihood of long-term success. Achieving objectives requires information, understanding and trust.



Think and work holistically

Results are delivered to internal and external customers through the effective and efficient management and dynamic integration of information, technology, organization, people, practices, partners and agreements, which should all be coordinated to provide a defined value.



Keep it simple and practical

If a process, service, action or metric provides no value, or produces no useful outcome, eliminate it. Always use outcome-based thinking to produce practical solutions that deliver results.



Optimize and automate

Eliminate anything that is truly wasteful and use technology to achieve whatever it is capable of. Human intervention should only happen where it really contributes value.

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Governance

Foundation recap

Governance is the means by which an organization is directed and controlled.

The role and position of governance in the ITIL Service Value System (SVS) will vary depending on how the SVS is applied in an organization.

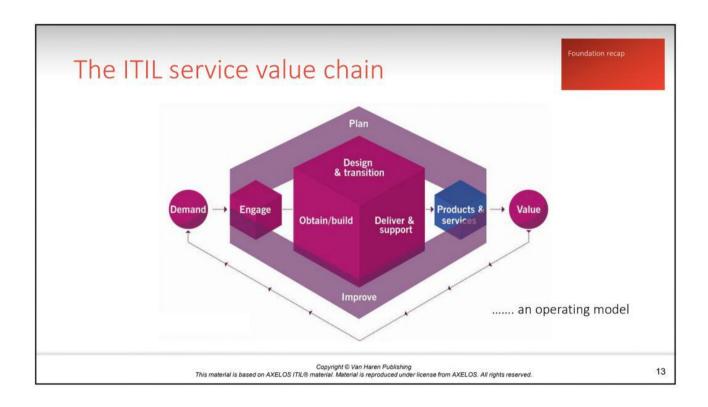
The governance function of an organization has three main responsibilities:

- Evaluate to identify the right options and objectives for the organization
- Direct to point out the right direction and set overall objectives for the organization
- Monitor to follow up on the management and realisation of agreed objectives

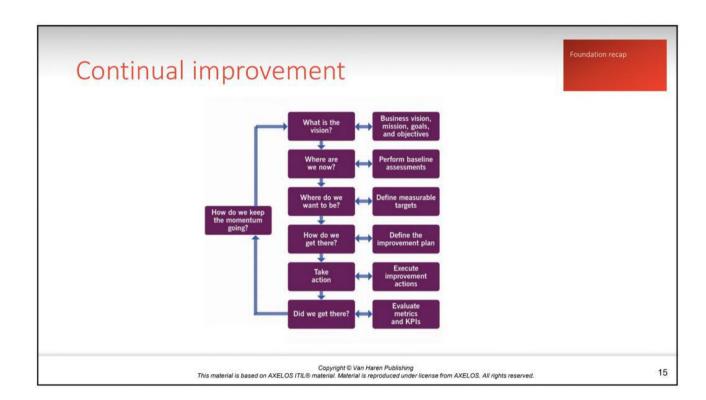
The acronym **EDM** is commonly used to refer to these three distinct responsibilities. It's important to understand the reason for the separation and the difference between the three.

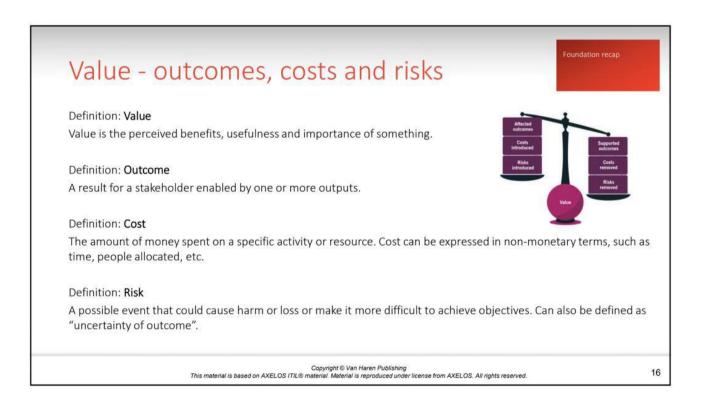
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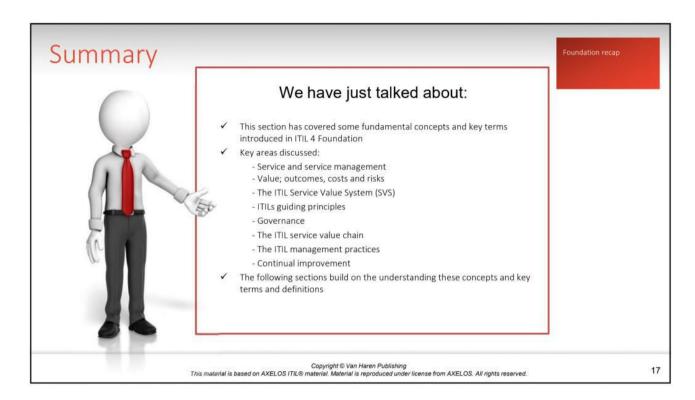
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A. The cost of creating the service, and the cost charged for the service B. The costs removed by the service, and the costs imposed by the service C. The cost of provisioning the service, and the cost of improving the service D. The cost of purchasing software, and the cost of purchasing hardware

Q: Which service management dimension is focused on activities and how these are coordinated? A. Organizations and people B. Information and technology C. Partners and suppliers D. Value streams and processes

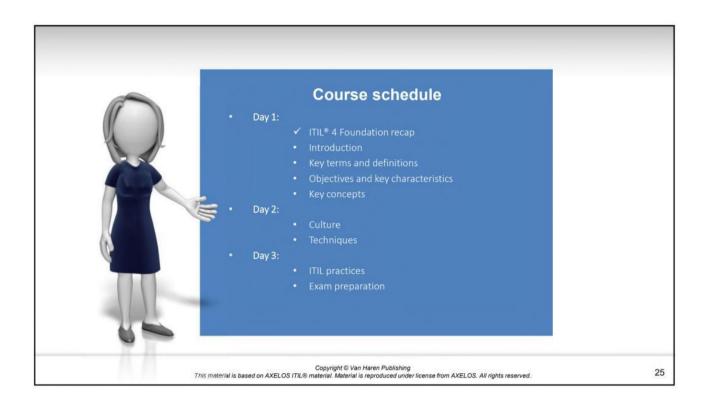
A. The seven guiding principles B. The four dimensions of service management C. The service value chain D. The service value system Copyright © Van Haven Publishing This material is based on AXELOS (TIL® material in reproduced under license from AXELOS. All rights reserved.

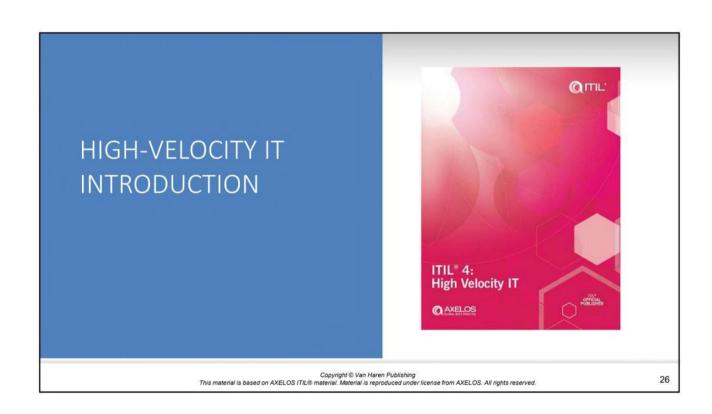
A. Identify the outcomes that the service facilitates B. Identify all suppliers and partners that are involved in the service C. Determine who the service consumer is in each situation D. Determine the cost of provisioning the service Capyright © Van Haren Publishing This material is based on AXELOS ITEL® material. Material is reproduced under icense from AXELOS. All rights reserved.

Q: Which value chain activity includes negotiation of contracts and agreements with suppliers and partners? A. Engage B. Design and transition C. Obtain/build D. Deliver and support Copyright © Van Haren Publishing This material is based on AXELOS (TIL® material in Reproduced under license from AXELOS. All rights reserved.

A. It helps direct the incident to the correct support area B. It determines the priority assigned to the incident C. It ensures that incidents are resolved in times agreed with the customer D. It determines how the service provider is perceived

A. Scripts for collecting initial information about incidents B. Formalized processes for logging incidents C. Detailed procedures for the diagnosis of incidents D. Use of specialized knowledge for complicated incidents Capyright © Van Haren Publishing This material is based on AXELOS ITIL® material. Material is reproduced under license from AXELOS All rights reserved.





High-velocity IT

The purpose of the ITIL® 4: High Velocity IT Qualification is:

to provide the candidate with an understanding of the ways in which digital organizations and digital operating models function in high velocity environments, focusing on rapid delivery of products & services to obtain maximum value.

The qualification will provide the candidate with an understanding of working practices such as Agile and Lean, and technical practices and technologies such as The Cloud, Automation, and Automatic Testing.



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Key learning requirements



HIGH VELOCITY IT

- Understand concepts regarding the high-velocity nature of the digital enterprise, including the demand it places on IT
- Understand the digital product lifecycle in terms of the ITIL "operating model"
- Understand the importance of the ITIL Guiding Principles and other fundamental concepts for delivering high velocity IT
- Know how to contribute to achieving value with digital products

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Some key terms and areas covered

High-velocity I

Terms:

- Digital organisation
- High velocity IT
- Digital transformation
- IT transformation
- · Digital products
- Digital technology

Five objectives (to achieve with digital):

- Valuable investments
- Fast development
- Resilient operations
- Co-created value
- Assured conformance

The Digital Product Lifecycle:

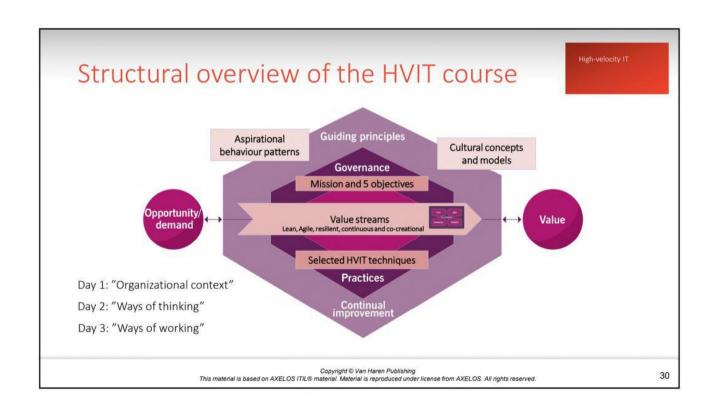
Service consumer and service provider have different perspectives on digital products. They each have their own journeys, that overlap during the period of engagement

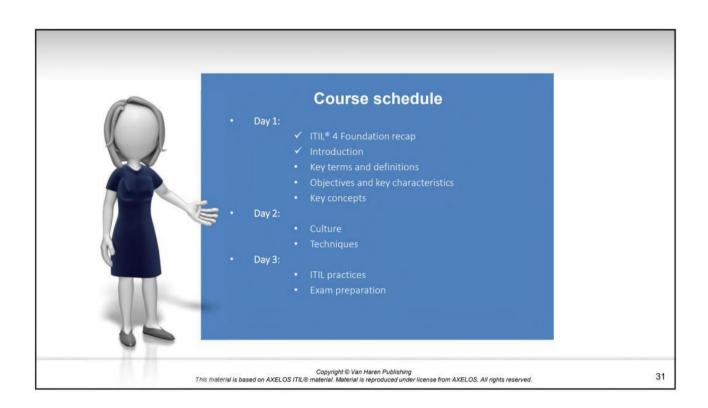
Principles, models and concepts:

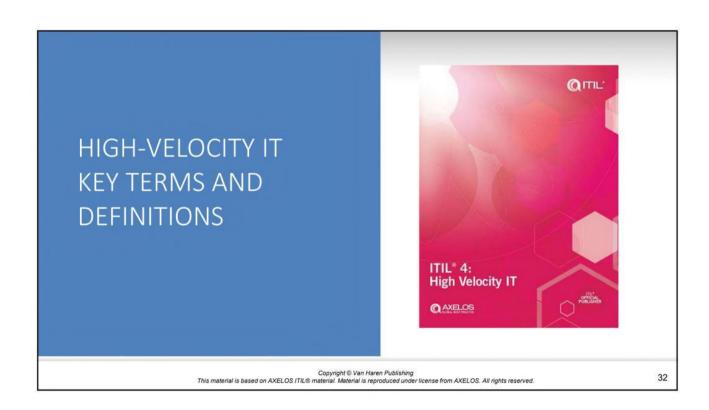
- Ethics
- Safety culture
- Lean culture
- Toyota Kata
- · Lean / Agile / Resilient / Continuous
- Service-dominant logic
- Design thinking
- · Complexity thinking

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High-velocity IT

High-velocity IT

Key terms and definitions

Definition: High-velocity IT

The application of digital technology for significant business enablement, where time to market, time to customer, time to change and speed in general are crucial. High velocity is not restricted to fast development; it is required throughout the service value chain, from innovation at the start, through development and operations, to the actual realization of value.

Just as some digital organizations are more digital than others, the velocity in some organizations is higher than in others. However, an organization with a higher velocity is not necessarily better. The velocity at which an organization should operate depends on the nature of that particular organization, and in some cases a lower velocity may be more beneficial. It is also not necessary, or even recommended, that the whole of an organization's IT should be high velocity.

Increasing velocity within an organization will always involve costs and risks. There may be situations where risks are consciously taken in order to gain or retain competitive advantage.

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Digital technology

High-velocity IT

Key terms and definitions

Definition: Digital technology

Technology that digitizes something or processes digital data. Digital technology refers to *information technology (IT)* and the parts of *operational technology (OT)* that have been digitized.

Digital technology is increasingly important. Its economic, societal, and political impacts are unprecedented.

At the same time, it is increasingly challenging for digital practitioners to design, develop, run, and support the systems and services that fulfil this demand.

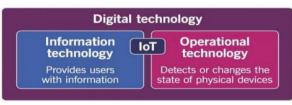


Figure 2.1

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Information and operational technology

High-velocity IT

Key terms and definitions

Digital technology is made up of both IT and OT. IT provides users with data and information, whereas OT detects or implements changes in physical devices.

Definition: Information technology

The application of digital technology to store, retrieve, transmit, and manipulate data (data processing), often in the context of a business or other kind of organization.

Definition: **Operational technology**The application of digital technology for detecting or causing changes in physical devices through monitoring and/or control.

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Information systems technology stack

High-velocity IT

Key terms and definitions

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IT exists as information systems that are made up of hardware, system software, data, and applications that are used for the purpose of data processing.

Information is data that is useful in a particular context. In IT, making information available to end users is the end goal. This can be presented in the form of numbers or text on a screen, or in other ways, for example, as a moving location on a map.

Application

Data

Platform Runtime Middleware Operating systems

Infrastructure
Virtualization
Computing
Storage
Network
Facilities

Figure 2.2 Information system technology stack

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Information technology put in a context Despite IT being such a core concept to organizations **Application** Act worldwide, the term is often misinterpreted. 'IT' can be used to refer to any of the following: Data Decision the organizational IT function (the IT department); here referred to as the 'IT function' **Platform** IT infrastructure, including generic workplace Information Runtime Middleware productivity applications (such as word processing), but not the applications that Operating systems support specific business functions IT service an organization's internal information systems Infrastructure technical components used to create 'digital Virtualization Information Product system data processing technology (used for storing, retrieving, transmitting, and manipulating data) Network Information technology **Facilities** digital technology used to process data in order Figure 2.3 demonstrates how the IT stack contributes to the creation of value through informed to digitize and automate business. decision-making. Copyright © Van Haren Publishing This material is based on AXELOS ITIL® material. Material is reproduced under license from AXELOS. All rights reserved. 37

Operational technology

High-velocity IT Key terms and definitions

OT differs from IT in that it uses digitized data as an internal means to a physical goal, rather than to make information available to users.

'OT' refers to physical devices (for instance, valves and pumps in machinery) in which digitized data is used to take physical action. OT devices can be as small as the engine control module (ECM) of a car or as large as the distributed control network for a national electricity grid.

The OT sphere also includes embedded systems (such as smart instrumentation) and a large subset of scientific data acquisition, control, and computing devices.

OT devices are supported by the Internet of Things (IoT), allowing them to connect both to each other and to information systems.

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Digital organization

High-velocity IT Key terms and definitions

Digital organizations are enabled by digital technology. Digital technology is a significant underpinning enabler for these organizations' internal processes, and is often part of their products and services.

As such, digital technology is a strategic part of a digital organization's business model. The digitization of an organization has significant implications for its **operating model** (in other words, *the resources it needs and how they interact*).

A major consideration for organizational operating models is the *centralization or decentralization of the IT function*, and how each of these options will affect the organization's effectiveness and efficiency.

It is important that a digital organization's operating model is based on the co-creation of value by both the service provider and the service consumer to make sure that value from IT investments is properly realized.

Definition: **Digital organization**An organization that is enabled by digital technology to do business significantly differently, or to do significantly different business.

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Digitalization vs digitization

High-velocity IT

Key terms and definitions

Digital transformation is sometimes referred to as 'digitalization'. However, the use of this term is not recommended because of the potential confusion with digitization, which is the technical process of changing something from analogue form to digital form.

Definition: Digitization The process of transforming something

(e.g. text, sound, or images) from analogue to digital form by expressing the information in binary digits.



The term 'transformation', used correctly, means major change. Despite this, transformation does not necessarily imply a single, large change. Based on the approach an organization selects, transformation can be achieved just as successfully with a few big changes, or many smaller ones. In many cases, a series of smaller changes can even be the more successful approach.

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Digital transformation

Definition: Digital transformation

The use of digital technology to enable a significant improvement in the realization of an organization's objectives that could not feasibly have been achieved by non-digital means.

Transformation is about doing things differently, or doing different things. It is also about reframing work to think about things differently, or think about different things.

'Digital transformation' is often used to indicate major investment in digitizing, robotizing, and other forms of automation that enable organizations to do business significantly differently, or do significantly different business. This technological change often requires organizational change in how the organization uses the digital solutions.

The term 'digital transformation' is not specific to a particular type of transformation, and can be used to refer to any transformation that is digitally enabled. The transformed entity is often a combination of the organization's customer experience, products or services, business model, operating model (for example, the value stream), and employee experience.

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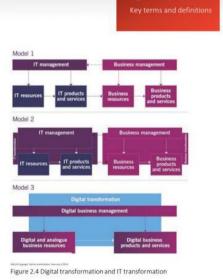
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IT transformation

In organizations where business and IT are regarded as separate organizational functions, 'IT transformation' is often used to denote major change that improves how IT services are provided. IT transformation is focused on how IT services and information systems are developed, run, and supported. This can include decentralizing the IT function and integrating it into digital lines of business.

Before they undergo a digital transformation, organizations are managed separately from their IT service providers, whether internal or external. An IT service provider is focused on the management of IT resources to create and deliver IT products and services, whereas a service consumer is focused on the management of its products, services, and resources, including those delivered or supported by the IT service provider. Acting as a consumer, this organization may influence the management of the service provider.

This is shown as Model 1 in Figure 2.4.

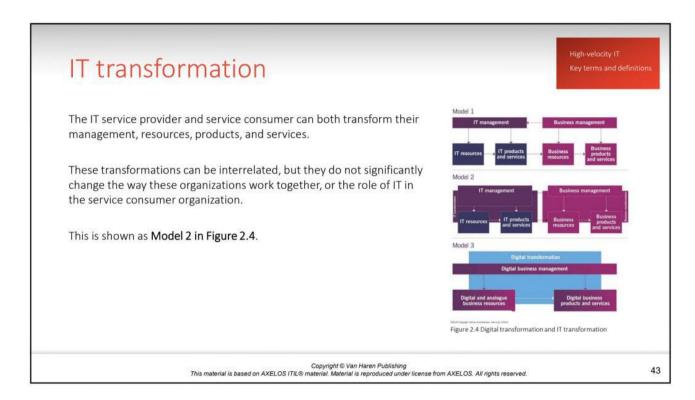


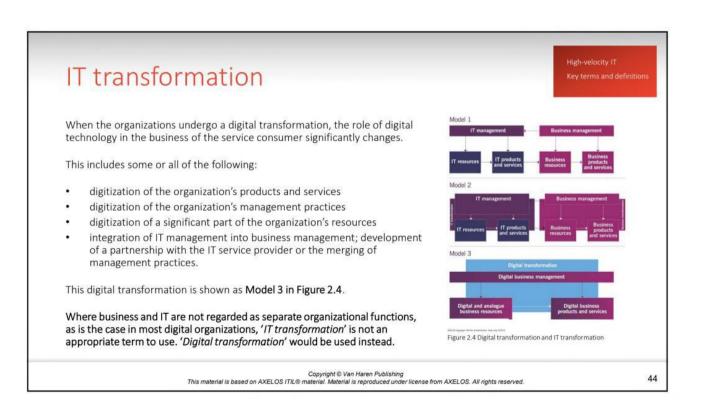
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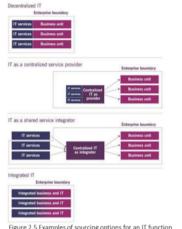
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Sourcing options for an IT function

- In a decentralized IT function, each business unit has an integrated IT function and manages its IT services.
- An IT department acting as a centralized service provider serves multiple business units, and manages most of its IT services itself.
- An IT department acting as a centralized service integrator serves multiple business units, and combines its own IT services with those acquired from external service providers (shared).
- When IT is integrated with business units, they are focused on the management of digital business services.



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Governance and management

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It can be easy to confuse the terms 'governance' and 'management' and how they are applied within organizations.

Governance, can be applied to the highest level of non-executive governing bodies, but also to lower levels where it becomes increasingly difficult to distinguish between governance and management. A governing body is at a higher level of authority than the organizational entity that is governed, whereas a manager is part of that organizational entity.

Governance is the means by which an organization is directed and controlled. The governing body evaluates the organization's situation, sets the direction for managers, and monitors the organization's performance.

Management is anchored in governance. Managers deal with planning, building, organizing, and improving the organizational entity.

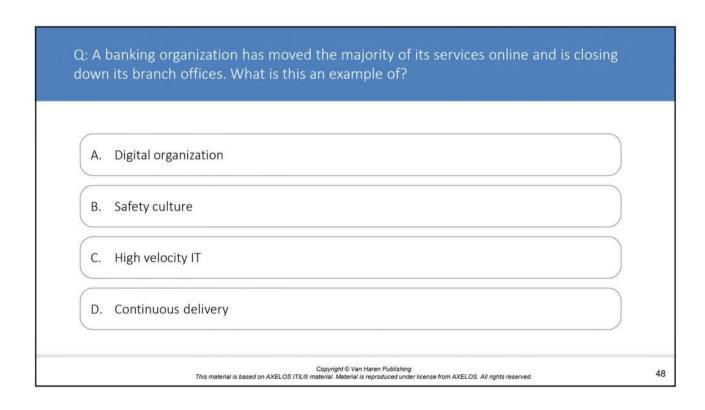
An HVIT practitioner therefore has to exercise judgement on the job. To do this effectively, they must understand the reasoning behind certain constraints that are in place. A major role of the manager in an HVIT environment is therefore to provide context and to enable the practitioner to take charge.

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A. It requires continuous deployment B. It always considers time as a measure C. It relates only to product warranty D. It is always a worthwhile investment

Q: An organization has invested heavily in automation so they can significantly increase the speed of the processing and shipment of customer orders. What is this an example of?

A. Continuous delivery

B. Digital product

C. IT transformation

D. Digital transformation

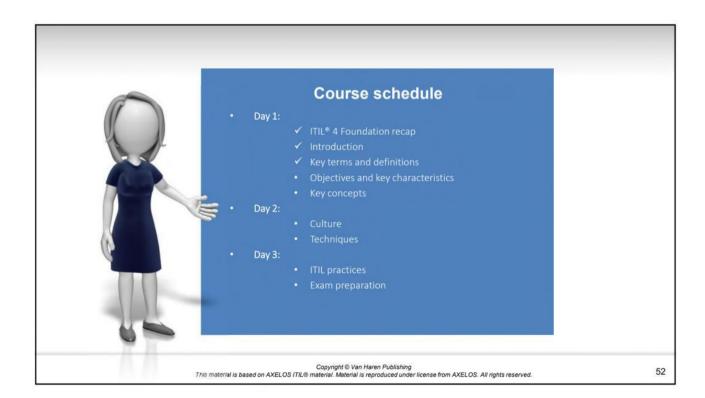
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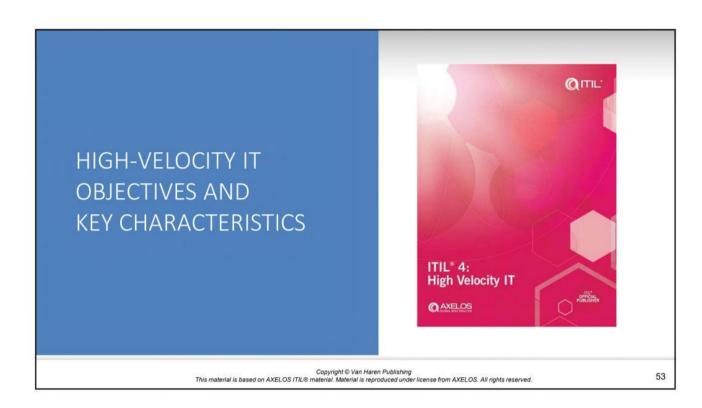
Q: Which statement is CORRECT when considering a transformation to high-velocity IT?

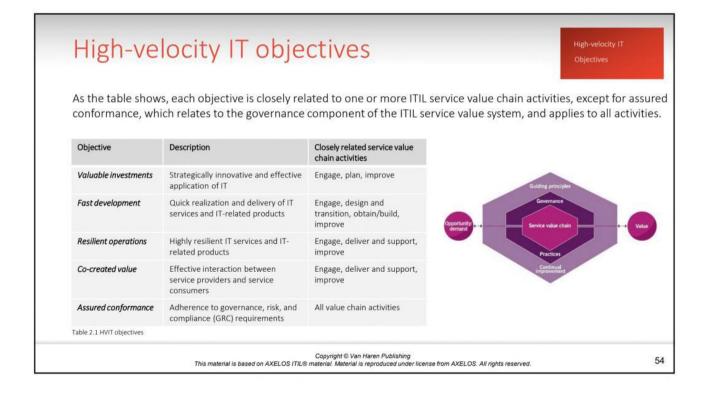
- A. It is acceptable to take risks which may lead to competitive advantage
- B. High-velocity IT focuses on using data to improve the performance of physical devices
- C. The impact on the culture of the organization does not need to be considered
- D. Risks can be minimized by making a significant change rather than incremental improvements

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Relation to service value chain activities

High-velocity I Objectives

The relation of the objectives to the value chain activities is as follows:

- The valuable investments objective is mainly achieved by the decision-making that
 occurs as part of the plan value chain activity.
- The fast development objective is mainly achieved by the application development and infrastructure engineering that takes place as part of the design and transition and obtain/build value chain activities.
- The resilient operations objective is mainly achieved by running and maintaining the system as part of the deliver and support value chain activity.
- The co-created value objective is mainly achieved by supporting the system as
 part of the deliver and support value chain activity (together with effective use by the service consumer).
- The assured conformance objective is achieved by attention to compliance with corporate and regulatory directives as part of all of the value chain activities, not only during deliver and support.

Just as the assured conformance objective is supported by all value chain activities, the engage and improve value chain activities contribute to all HVIT objectives. In some instances, there will be conflicts between the different objectives. For example, fast development could negatively affect resilient operations where insufficient time is given to ensuring that services and products are robust. For this reason, it is important to ensure that the objectives are properly balanced.

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Objectives from an economic perspective

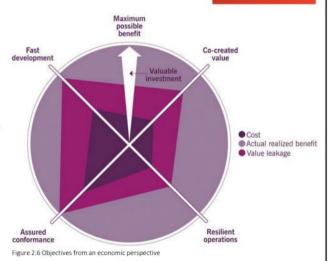
High-velocity IT Objectives

The valuable investments objective determines the potential value of an investment.

Investments can be made in a variety of areas, but ultimately returns and benefits should be assessed against the other four objectives.

As the organization progresses, it will incur additional costs, and might experience value leakage where the solutions and benefits are found to be sub-optimal.

The actual realized benefit is the difference between the potential value of the investment, and the costs and value leakage. Return on investment can then be expressed as the realized benefit compared to the organizational investment.



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Learning Outcome	Assessment Criteria	BL	No. marks
3. Understand the importance of the ITIL guiding principles and other fundamental concepts for delivering high-velocity IT	3.1 Understand the following principles, models and concepts: a) Ethics (3.2.1, 3.2.1.1) b) Safety culture (3.2.2.2, tab 3.2) c) Lean culture (3.2.3.2, tab 3.3) d) Toyota Kata (3.2.3.3) e) Lean / agile / resilient / continuous (2.5.2, 2.5.2.1-4, tab 2.2) f) Service-dominant logic (2.5.2.5) g) Design thinking (3.2.1.2) h) Complexity thinking (3.2.3.1)	BL2	3
	3.2 Know how to use the following principles, models and concepts: Ethics Safety culture Lean culture Toyota Kata Lean / agile / resilient / continuous Service-dominant logic Design thinking Complexity thinking (3.2, 3.2.1, 3.2.1.1, 3.2.2.2, tab 3.2, 3.2.3.2, tab 3.3, 3.2.3.3, 2.5.2, 2.5.2.1-4, tab 2.2, 2.5.2.5, 3.2.1.2, 3.2.3.1) to contribute to: a) Help get customers' jobs done (3.1.4, tab 3.1) b) Trust and be trusted (3.1.2, tab 3.1) c) Continually raise the bar (3.1.3, tab 3.1) d) Accept ambiguity and uncertainty (3.1.1, tab 3.1) e) Commit to continual learning (3.1.5, tab 3.1)	BL3	3
4. Know how to contribute to achieving value with digital products	4.1 Know how the service provider ensures valuable investments are achieved. (4.1, 4.1.1, 4.1.1.1-3, 4.1.2, 4.1.3, 4.1.4, only high impact information from tabs 4.1, 4.2, 4.3, 4.4)	BL3	1
	 4.2 Know how to use the following practices to contribute to achieving valuable investments (tabs 4.1, 4.2, 4.3, 4.4, and the references below which refer to the practices guidance): a) Portfolio management (2.1, 2.4 (including subsections)) b) Relationship management (2.1, 2.4 (including subsections)) 	BL3	2
	4.3 Know how the service provider ensures fast development is achieved. (4.2, 4.2.1, 4.2.2, 4.2.3, 4.2.3.1-2, 4.2.4, 4.2.5, 4.2.6, 4.2.7, only high impact information from tabs 4.5, 4.6, 4.7, 4.8, 4.9, 4.10, 4.11, 4.12, 4.13)	BL3	1