

Comparing COBIT 4.1 and COBIT 5

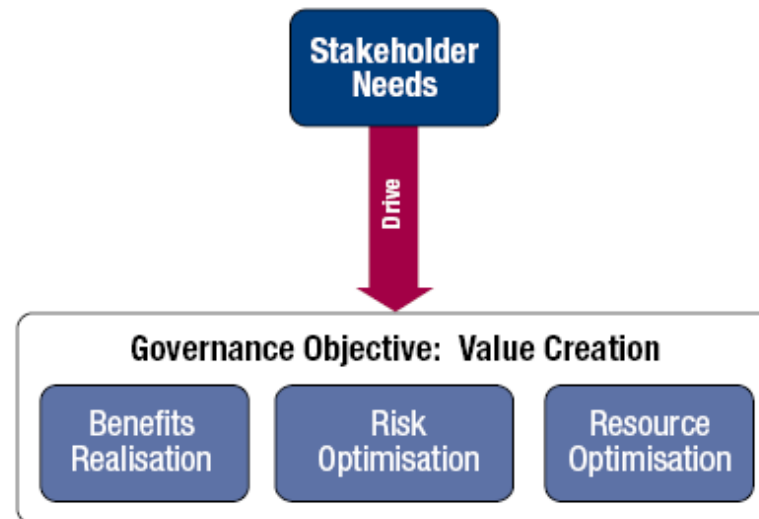
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Transition Message

- COBIT 4.1, Val IT and Risk IT users who are already engaged in governance of enterprise IT (GEIT) implementation activities can transition to COBIT 5 and **benefit from the latest and improved guidance that it provides during the next iterations of their enterprise's improvement life cycle.**
- COBIT 5 builds on previous versions of COBIT (and Val IT and Risk IT) and so enterprises can also build on what they have developed using earlier versions.

Stakeholder Value and Business Objectives

- Enterprises exist to create value for their stakeholders. Consequently, any enterprise— commercial or not— will have value creation as a governance objective.
- Value creation means: Realising benefits at an optimal resource cost while optimising risk.



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Stakeholder Value and Business Objectives (cont.)

Principle 1. Meeting Stakeholder Needs:

- Stakeholder needs have to be transformed into an enterprise's actionable strategy.
- The COBIT 5 goals cascade translates stakeholder needs into specific, practical and customised goals within the context of the enterprise, IT-related goals and enabler goals.



Stakeholder Value and Business Objectives (cont.)

- **Stakeholder needs** can be related to a set of generic **enterprise goals**.
- These enterprise goals have been developed using the Balanced Scorecard (BSC) dimensions. (Kaplan, Robert S.; Norton, David P.; *The Balanced Scorecard: Translating Strategy into Action*, Harvard University Press, USA, 1996)
- The enterprise goals are a list of commonly used goals that an enterprise has defined for itself.
- Although this list is not exhaustive, most enterprise-specific goals can be easily mapped onto one or more of the generic enterprise goals.

Stakeholder Value and Business Objectives (cont.)

BSC Dimension	Enterprise Goal	Relation to Governance Objectives		
		Benefits Realisation	Risk Optimisation	Resource Optimisation
Financial	1. Stakeholder value of business investments	P		S
	2. Portfolio of competitive products and services	P	P	S
	3. Managed business risk (safeguarding of assets)		P	S
	4. Compliance with external laws and regulations		P	
	5. Financial transparency	P	S	S
Customer	6. Customer-oriented service culture	P		S
	7. Business service continuity and availability		P	
	8. Agile responses to a changing business environment	P		S
	9. Information-based strategic decision making	P	P	P
	10. Optimisation of service delivery costs	P		P
Internal	11. Optimisation of business process functionality	P		P
	12. Optimisation of business process costs	P		P
	13. Managed business change programmes	P	P	S
	14. Operational and staff productivity	P		P
	15. Compliance with internal policies		P	
Learning and Growth	16. Skilled and motivated people	S	P	P
	17. Product and business innovation culture	P		

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Stakeholder Value and Business Objectives (cont.)

- The goals cascade is not ‘new’ to COBIT.
- It was introduced in COBIT 4.0 in 2005.
- Those COBIT users who have applied the thinking to their enterprises have found value.
- BUT not everyone has recognized this value.
- The goals cascade supports the COBIT 5 stakeholder needs principle that is fundamental to COBIT and has therefore been made prominent early in the COBIT 5 guidance.
- The goals cascade has been revisited and updated for the COBIT 5 release.

Governance and Management Defined

- What sort of framework is COBIT?
 - An IT audit and control framework?
 - COBIT (1996) and COBIT 2nd Edition (1998)
 - Focus on Control Objectives
 - An IT management framework?
 - COBIT 3rd Edition (2000)
 - Management Guidelines added
 - An IT governance framework?
 - COBIT 4.0 (2005) and COBIT 4.1 (2007)
 - Governance and compliance processes added
 - Assurance processes removed
- BUT what is the difference between governance and management?

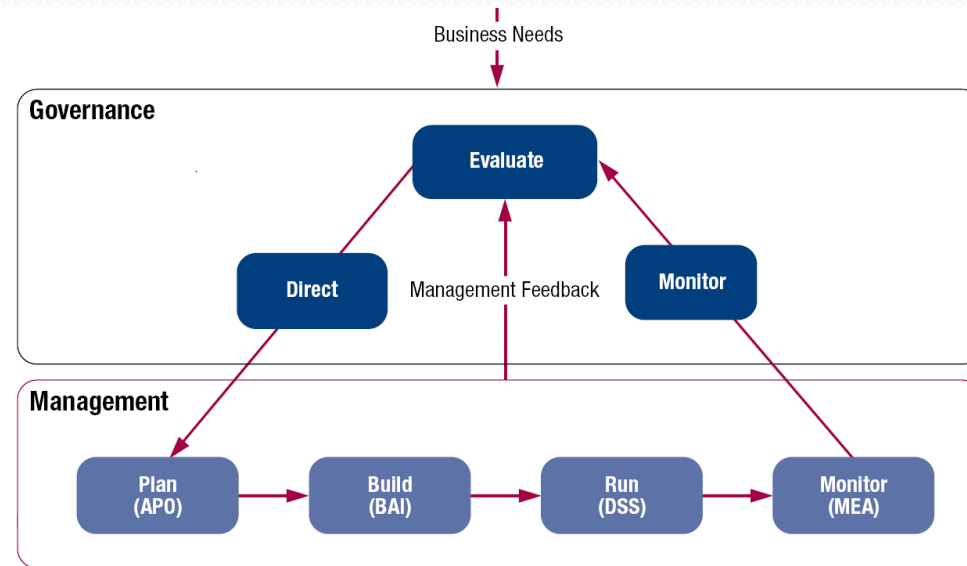
Governance and Management Defined (cont.)

- **Governance** ensures that stakeholder needs, conditions and options are **evaluated** to determine balanced, agreed-on enterprise objectives to be achieved; setting **direction** through prioritisation and decision making; and **monitoring** performance and compliance against agreed-on direction and objectives (**EDM**).
- **Management plans, builds, runs and monitors** activities in alignment with the direction set by the governance body to achieve the enterprise objectives (**PBRM**).

Governance and Management Defined (cont.)

The COBIT 5 process reference model subdivides the IT-related practices and activities of the enterprise into two main areas—governance and management—with management further divided into domains of processes:

- The GOVERNANCE domain contains five governance processes; within each process, evaluate, direct and monitor (EDM) practices are defined.
- The four MANAGEMENT domains are in line with the responsibility areas of plan, build, run and monitor (PBRM)



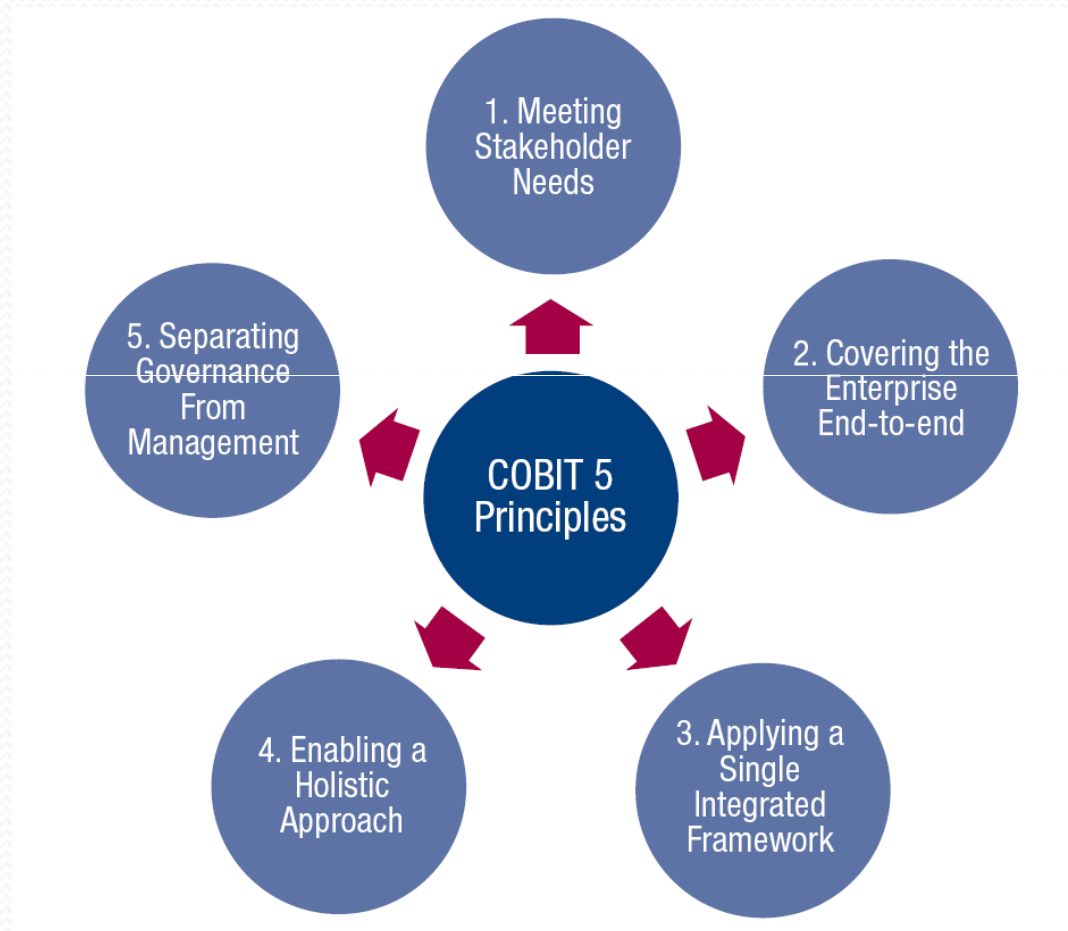
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Areas of Change

- The following slides summarise the major changes in COBIT 5 content and how they may impact GEIT implementation/improvement:
 1. New GEIT Principles
 2. Increased Focus on Enablers
 3. New Process Reference Model
 4. New and Modified Processes
 5. Practices and Activities
 6. Goals and Metrics
 7. Inputs and Outputs
 8. RACI Charts
 9. Process Capability Maturity Models and Assessments

1. New GEIT Principles

COBIT 5 Principles



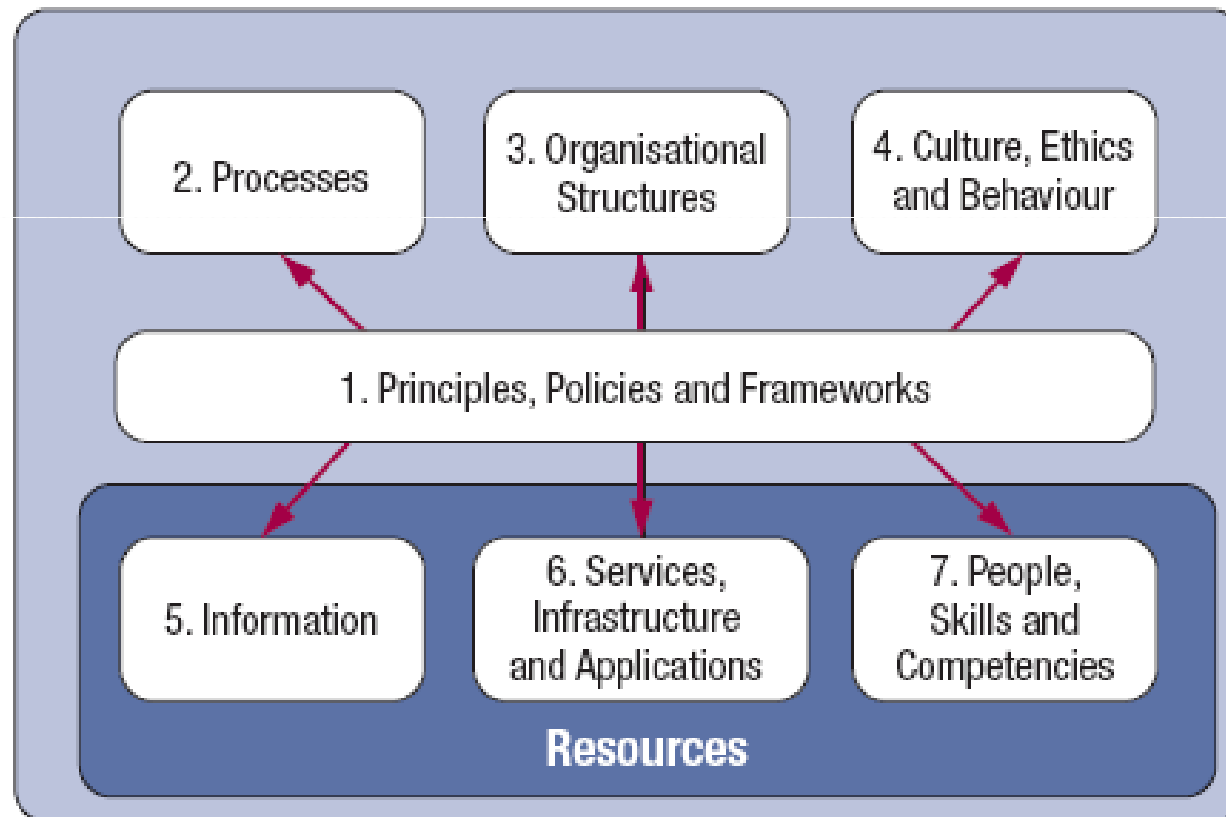
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1. New GEIT Principles (cont.)

- Val IT and Risk IT frameworks are principles-based.
- Feedback indicated that principles are easy to understand and put into an enterprise context, allowing value to be derived from the supporting guidance more effectively.
- ISO/IEC 38500 also incorporates principles to underpin its messages to achieve the same market benefit delivery, although the principles in this standard and COBIT 5 are not the same.

2. Increased Focus on Enablers

- COBIT 4.1 did not have enablers! Yes it did—they were not called enablers but they were there, explicitly or implicitly!



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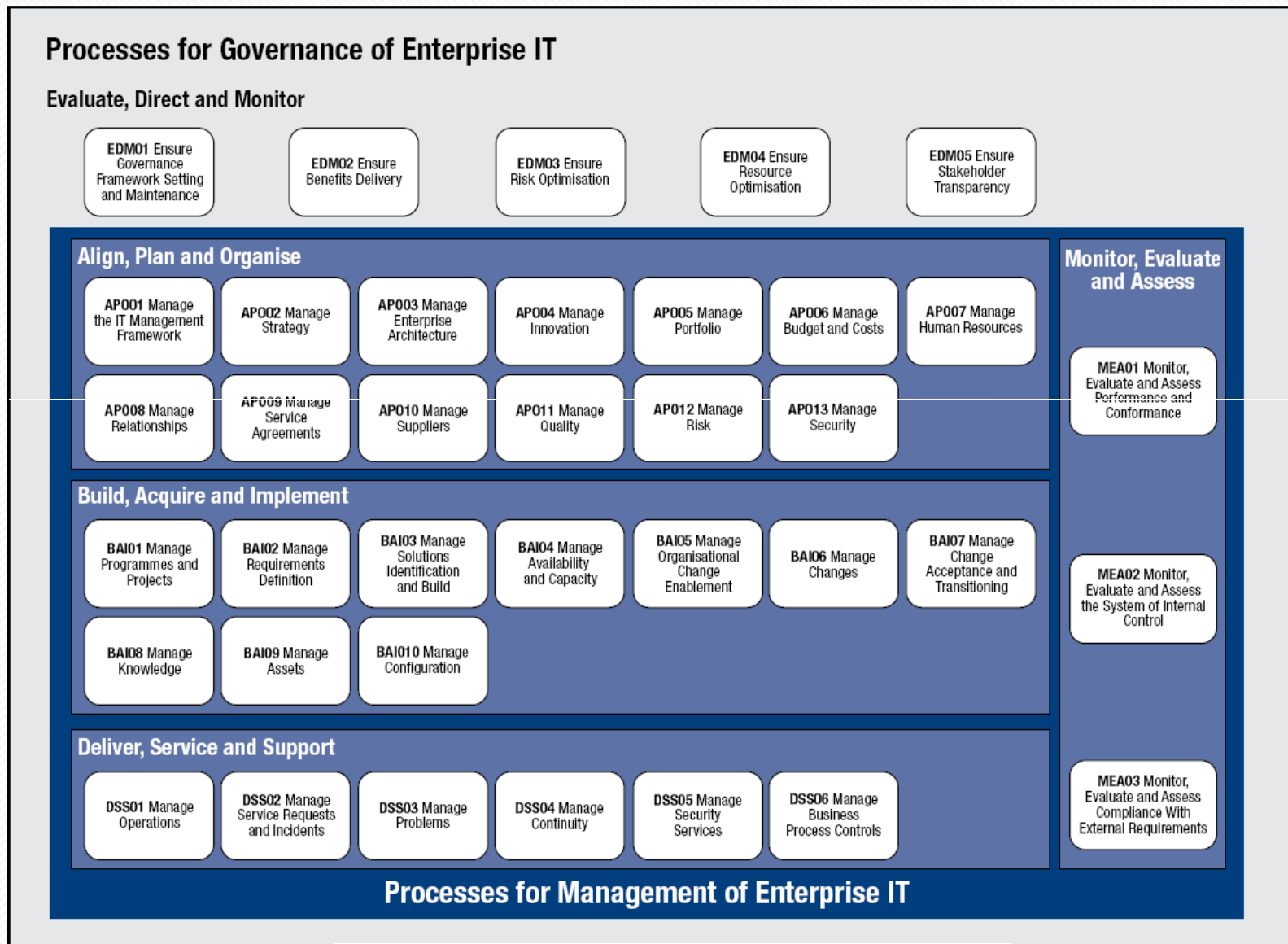
2. Increased Focus on Enablers (cont.)

- Information, infrastructure, applications (services) and people (people, skills and competencies) were COBIT 4.1 resources.
- Principles, policies and frameworks were mentioned in a few COBIT 4.1 processes.
- Processes were central to COBIT 4.1 use.
- Organisational structure was implied through the responsible, accountable, consulted or informed (RACI) roles and their definitions.
- Culture, ethics and behaviour were mentioned in a few COBIT 4.1 processes.

3. New Process Reference Model

- COBIT 5 is based on a revised process reference model with a new governance domain and several new and modified processes that now cover enterprise activities end-to-end, i.e., business and IT function areas.
- COBIT 5 consolidates COBIT 4.1, Val IT and Risk IT into one framework, and has been updated to align with current best practices, e.g., ITIL V3 2011, TOGAF.
- The new model can be used as a guide for adjusting as necessary the enterprise's own process model (just like COBIT 4.1).

3. New Process Reference Model (cont.)



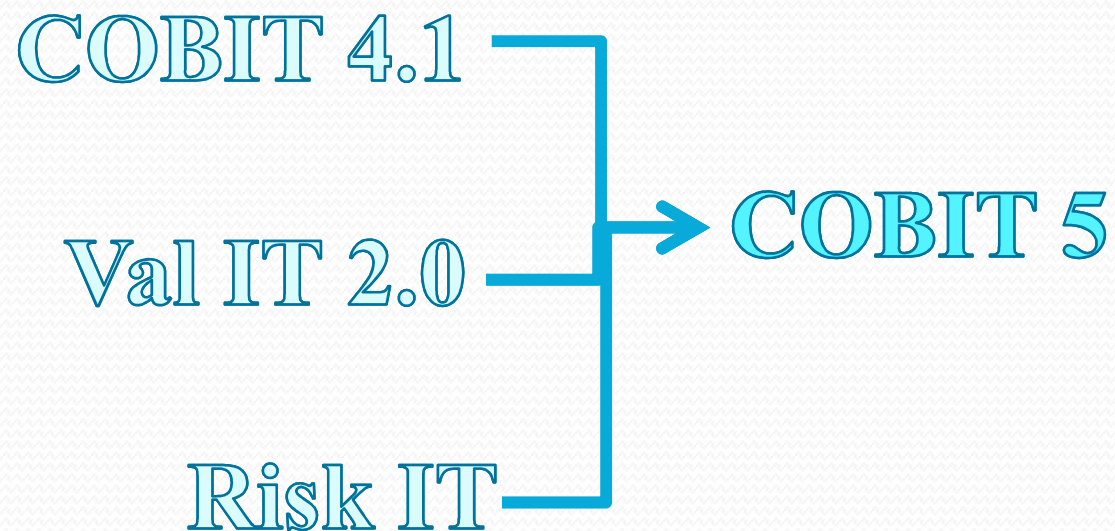
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4. New and Modified Processes

- COBIT 5 introduces five new governance processes that have leveraged and improved COBIT 4.1, Val IT and Risk IT governance approaches.
- This guidance:
 - Helps enterprises to further refine and strengthen executive management-level GEIT practices and activities
 - Supports GEIT integration with existing enterprise governance practices and is aligned with ISO/IEC 38500

4. New and Modified Processes (cont.)

- COBIT 5 has clarified management level processes and integrated COBIT 4.1, Val IT and Risk IT content into one process reference model



4. New and Modified Processes (cont.)

- There are several new and modified processes that reflect current thinking, in particular:
 - APO03 Manage enterprise architecture.
 - APO04 Manage innovation.
 - APO05 Manage portfolio.
 - APO06 Manage budget and costs.
 - APO08 Manage relationships.
 - APO13 Manage security.
 - BAI05 Manage organisational change enablement.
 - BAI08 Manage knowledge.
 - BAI09 Manage assets.
 - DSS05 Manage security service.
 - DSS06 Manage business process controls.

4. New and Modified Processes (cont.)

- COBIT 5 processes now cover *end-to-end business and IT activities*, i.e., a full enterprise-level view.
- This provides for a more holistic and complete coverage of practices reflecting the pervasive enterprisewide nature of IT use.
- It makes the involvement, responsibilities and accountabilities of business stakeholders in the use of IT more explicit and transparent.

5. Practices and Activities

- The COBIT 5 governance or management practices are equivalent to the COBIT 4.1 control objectives and Val IT and Risk IT processes.

www.isaca.org/Journal/Past-Issues/2011/Volume-4/Pages/Where-Have-All-the-Control-Objectives-Gone.aspx

- The COBIT 5 activities are equivalent to the COBIT 4.1 control practices and Val IT and Risk IT management practices.
- COBIT 5 integrates and updates all of the previous content into the one new model, making it easier for users to understand and use this material when implementing improvements.

6. Goals and Metrics

- COBIT 5 follows the same goal and metric concepts as COBIT 4.1, Val IT and Risk IT, but these are renamed enterprise goals, IT-related goals and process goals reflecting an enterprise level view.
- COBIT 5 provides a revised goals cascade based on enterprise goals driving IT-related goals and then supported by critical processes.
- COBIT 5 provides examples of goals and metrics at the enterprise, process and management practice levels. This is a change to COBIT 4.1, Val IT and Risk IT, which went down one level lower.

7. Inputs and Outputs

- COBIT 5 provides inputs and outputs for every management practice, whereas COBIT 4.1 only provided these at the process level.
- This provides additional detailed guidance for designing processes to include essential work products and to assist with interprocess integration.

8. RACI Charts

- COBIT 5 provides RACI charts describing roles and responsibilities in a similar way to COBIT 4.1, Val IT and Risk IT.
- COBIT 5 provides a more complete, detailed and clearer range of generic business and IT role players and charts than COBIT 4.1 for each management practice, enabling better definition of role player responsibilities or level of involvement when designing and implementing processes.

8. RACI Charts (cont.)

COBIT 4.1

RACI Chart

Activities	Functions									
	CEO	CFO	Business Executive	CIO	Business Process Owner	Head Operations	Chief Architect	Head Development	Head IT Administration	PMO
Create and maintain a technology infrastructure plan.		I	I	A		C	R	C	C	C
Create and maintain technology standards.				A		C	R	C	I	I
Publish technology standards.		I	I	A		I	R	I	I	I
Monitor technology evolution.		I	I	A		C	R	C		C
Define (future) (strategic) use of new technology.		C	C	A		C	R	C		C

A RACI chart identifies who is Responsible, Accountable, Consulted and/or Informed.

Source: COBIT® 4.1, page 39. © 2007 IT Governance Institute® All rights reserved.

COBIT 5

RACI Chart

Key Governance Practice	Functions																			
	Board	Chief Executive Officer	Chief Financial Officer	Chief Operating Officer	Business Executives	Business Process Owners	Strategy Executive Committee	Steering (Programmes/Projects) Committee	Project Management Office	Value Management Office	Chief Risk Officer	Chief Information Security Officer	Architecture Board	Enterprise Risk Committee	Head Human Resources	Compliance	Audit	Chief Information Officer	Head Architect	Head Development
EDM01.01 Evaluate the design of the enterprise governance of IT.	A	R	C	C	R		R				C		C	C	C	C	C	R	C	C
EDM01.02 Direct the governance system.	A	R	C	C	R	I	R	I	I	I	C	I	I	I	I	C	C	R	C	I
EDM01.03 Monitor the governance system.	A	R	C	C	R	I	R	I	I	I	C	I	I	I	I	C	C	R	C	I

Source: COBIT® 5: Enabling Processes, page 31. © 2012 ISACA® All rights reserved.

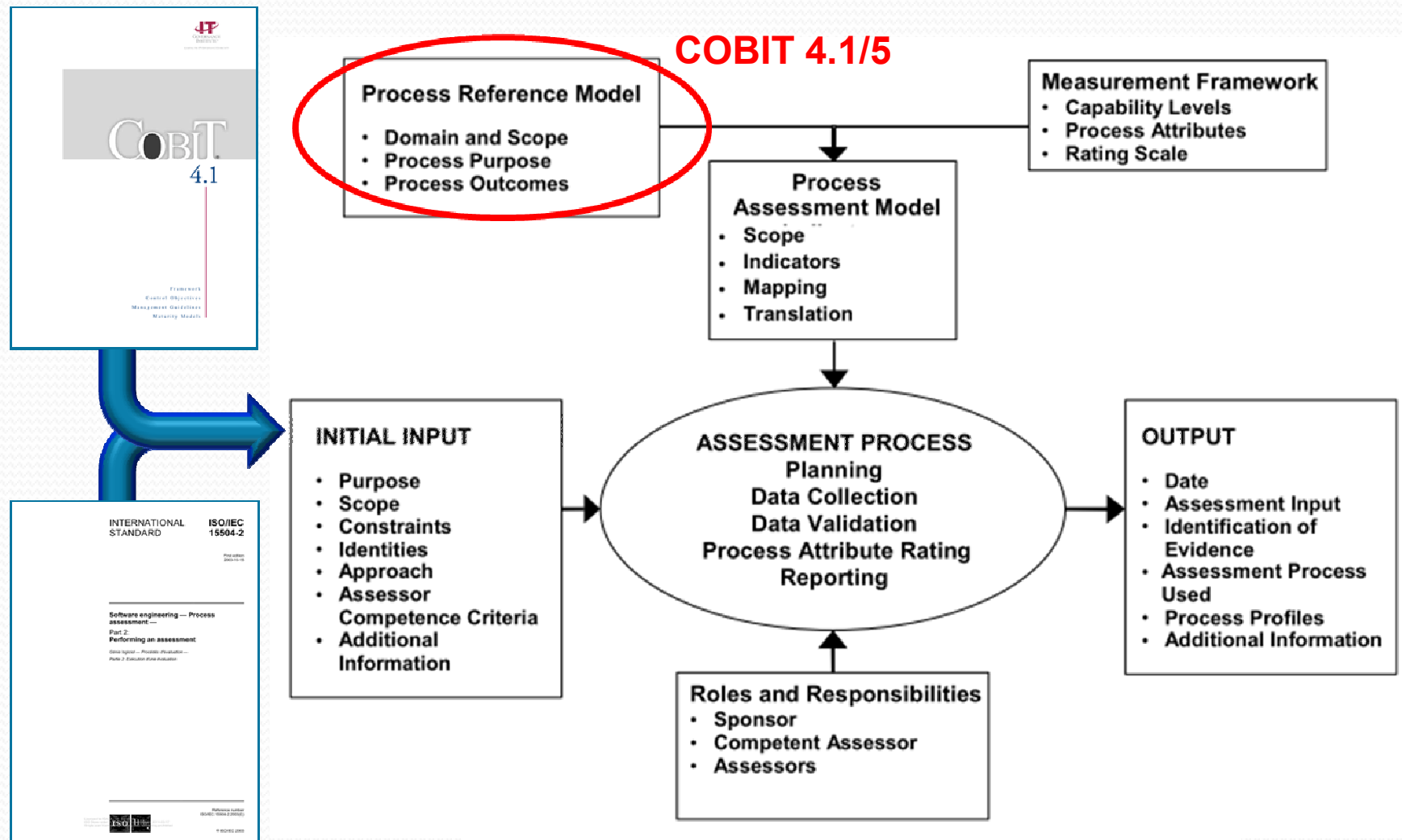
9. Process Capability Models and Assessments

- COBIT 5 discontinues the COBIT 4.1, Val IT and Risk IT CMM-based capability maturity modelling approach.
- COBIT 5 will be supported by a new process capability assessment approach based on ISO/IEC 15504, and the **COBIT Assessment Programme** has already been established for COBIT 4.1 as an alternative to the CMM approach.

www.isaca.org/Knowledge-Center/cobit/Pages/COBIT-Assessment-Programme.aspx

- The COBIT 4.1, Val IT and Risk IT CMM-based approaches are **not considered compatible** with the ISO/IEC 15504 approach because the methods use different attributes and measurement scales.

9. Process Capability Models and Assessments (cont.)



9. Process Capability Models and Assessments (cont.)

- The COBIT Assessment Programme approach is considered by ISACA to be more robust, reliable and repeatable as a process capability assessment method.
- The COBIT Assessment Programme supports:
 - Formal assessments by accredited assessors (assessor training is being developed)
 - Less rigorous self-assessments for internal gap analysis and process improvement planning
- The COBIT Assessment Programme, in the future, will also potentially enable an enterprise to obtain an independent and certified assessments aligned to the ISO/IEC standard.

9. Process Capability Models and Assessments (cont.)

- What materials support the COBIT Assessment Programme approach?
 - ***COBIT Process Assessment Model (PAM): Using COBIT 4.1***—Serves as a base reference document for the performance of a capability assessment of an organisation's current IT processes against COBIT 4.1
 - ***COBIT Assessor Guide: Using COBIT 4.1***—Provides details on how to undertake a full ISO-compliant assessment
 - ***COBIT Self-assessment Guide: Using COBIT 4.1***—Provides guidance on how to perform a basic self-assessment of an organisation's current IT process capability levels against COBIT 4.1 processes
- The above materials exist to support COBIT 4.1-based assessments now; versions will be produced to support COBIT 5-based assessments.

9. Process Capability Models and Assessments (cont.)

- COBIT 4.1, Val IT and Risk IT users wishing to move to the new COBIT Assessment Programme approach will need to realign their previous ratings, adopt and learn the new method, and initiate a new set of assessments in order to gain the benefits of the new approach.
- Although some of the information gathered from previous assessments may be reusable, care will be needed in migrating this information forward because there are significant differences in requirements.

9. Process Capability Models and Assessments (cont.)

- COBIT 4.1, Val IT and Risk IT users wishing to continue with the CMM-based approach, either as an interim or ongoing approach, can use the COBIT 5 guidance, but must use the COBIT 4.1 generic attribute table without the high-level maturity models.