
**Information technology —
Governance of IT — Application of
ISO/IEC 38500 to the governance of IT
enabled investments**

*Technologies de l'information — Gouvernance des technologies de
l'information — Application de l'ISO/IEC 38500 à la gouvernance des
investissements reposant sur les technologies de l'information*

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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO and IEC shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents) or the IEC list of patent declarations received (see <http://patents.iec.ch>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 40, *IT Service Management and IT Governance*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

In today's rapidly evolving digital age, the world is experiencing unpredictable changes through shifts in political and economic power combined with disruptive business models, seemingly constant technology breakthroughs and innovative approaches to conducting business.

How can governing bodies prepare their organizations to address constant and new challenges while being ready for an increasing information and technology driven future?

Information Technology (IT) supports the core functions of all organizations, underpins the basis of almost all business activities and interfaces with customers and other stakeholders. Investments in IT enablement and the contribution of IT to the business capability and performance of the organization play a significant role in the achievement of strategic plans and the delivery of business value.

Effective governance of IT enabled investments will provide governing bodies with a better understanding of their obligations and how value is derived to support the organization's business opportunities and to appropriately mitigate the organisation's risk.

Risks comprise such things as the failure to deliver required capabilities, failure of the business to achieve the required benefits, with the impact on the organization leading to e.g. business disruption, breach of obligations, regulatory non-compliance, failures of security, loss of data, down time. Effective governance will proactively prevent or mitigate the IT aspects of the risk of such events occurring, for example, by addressing prolonged underinvestment.

Governance of IT, including investments in IT, is part of sound corporate governance. Governance of IT is not IT management but should be supported by a governance framework and the organization's IT management system.

This document provides guidelines to members of the governing bodies to apply the principles and model documented in ISO/IEC 38500 to IT enabled investments. Throughout this document the word "investments" is synonymous with IT enabled investments.

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Information technology — Governance of IT — Application of ISO/IEC 38500 to the governance of IT enabled investments

1 Scope

This document provides guidance on governance of IT enabled investments to the governing body of all forms of organizations, whether private, public or government entities, and will equally apply regardless of the size of the organization or its industry or sector. The terms business and business outcome throughout this document include all forms of organization covered by this document.

The document also provides guidance to other parties interacting with governing bodies such as project personnel, accountants, management consultants, investment portfolio managers and governance support staff.

IT enabled investments within the scope of this document could be investments of any scale from acquiring businesses to any business change incorporating IT, building new business services or addressing effectiveness and efficiency gains in IT operational services to gain competitive edge, whether those services are internal or provided by external parties.

Resource allocation for strategic innovation is addressed by providing guidance to the governing body's decision for investment resource allocation between short-, medium- and long-term innovation projects.

This document also provides guidance that can be applied in the due diligence process related to business acquisitions. This document may provide guidance on the application of the principles documented in ISO/IEC 38500 for ranking IT enabled investments including assessing the value and risks of IT elements in the context of investment banking or as performed by investment companies.

This document does not prescribe or define specific management practices required for IT enabled investments.

ISO/IEC TS 38501 contains guidance on the implementation arrangement for the effective governance of IT in general. The constructs in ISO/IEC TS 38501 can help to identify internal and external factors relating to the governance of IT and to define beneficial outcomes and identify evidence of success. ISO/IEC TR 38502 contains guidance on the integration between the governing body and management of an organization in general.

This document is written in accordance with the principles of ISO/IEC TR 38504:2016.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 38500:2015, *Information technology — Governance of IT for the organization*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 38500 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

benefit

created advantage, value or other positive effect

[SOURCE: ISO 21505:2017, 3.4]

3.2

governance framework

strategies, policies, decision-making structures and accountabilities through which the organization's governance arrangements operate

[SOURCE: ISO/IEC TR 38502:2017, 3.1]

3.3

IT enabled investments

investments that are dependent on the use of information technology for the achievement of business outcomes

3.4

value

quantifiable financial or non-financial gain

[SOURCE: ISO 37500:2014, 3.25]

4 Good governance of IT enabled investments

4.1 Benefits of good governance of IT enabled investments

When technology investment outcomes are established as assets rather than cost elements, they become a strategic enabler of growth and sustainability of organizations in an increasingly competitive environment.

Good governance of IT enabled investments helps the organization to ensure that those investments contribute positively to the performance and conformance of the organization through:

- giving priority to investments that align with the organization's strategy and business objectives and have the potential to return the greatest value to the organization;
- optimising the value from investments;
- providing a mechanism for appropriate risk mitigation of the investments;
- balancing investments between short and longer term outcomes to ensure continued business sustainability;
- ensuring conformance with obligations (regulatory, legislation, common law and contractual).

Inadequate governance of IT enabled investments can expose an organization to loss of confidence by clients and consumers in the brand or product/services being provided, unsuccessful or delayed innovation and penalties of not being conformant with obligations.

4.2 Focus on value

The value to the organization of any and all investments should be the first and main focus when evaluating and prioritizing investments.

Value from IT enabled investments is not realized by the implementation of IT alone. The achievement of value requires complementary planned business changes, including but not limited to, purpose, organizational values, culture, organization structure, business processes, roles and responsibilities, people skills and reward systems. For successful implementation of IT enabled investment, significant business resources are required and the impact to the business should always be considered foremost. The interdependencies between the business strategy and the underlying technology is inseparable. The achievement of such changes can be difficult to sustain over time, and the governing body should continue to monitor the organization's ability to maintain the required commitment to business changes over time.

Value may relate to increased market share, new opportunities developed, increased customer satisfaction or improved customer access. In addition, direct cost reduction on process outsourcing cost and conformance to rules and regulations can also provide value to an organization. Furthermore, value may be due to societal or environmental objectives. However, the expected value should be clearly defined and be measurable by an accepted mechanism to ensure realization of that value.

The value of business change may be enabled directly by adoption of innovative IT assets and IT capabilities in new business services or products. However, the indirect value of investments in underlying and supportive IT assets, for example infrastructure components or security capabilities, should be carefully evaluated and continued maintenance should be appropriately prioritized within the portfolio of investments.

When considering a business acquisition, value assessment could be obtained by ensuring that a structured due diligence process includes evaluation of performed IT governance principles and practices, IT assets and IT capabilities.

The value forecast from IT enabled investments, as with all investments, should also be evaluated against time and resource diversion from other business activities. Risk based prioritization should be made between current product/services and future product/service development.

Specific guidance relating to focus on value are made in [Clauses 5](#) and [6](#).

4.3 Accountability of the governing body

The governing body is ultimately accountable for the success of all investments an organization undertakes. This accountability derives from the governing body's accountability for governance of the organization and consequently the governance of the IT within the organization.

The governing body should exhibit the same behaviours with all investments whether IT enabled or not.

The governing body should take and retain accountability of business change, to take visible and active leadership and champion the investments rather than delegate all responsibility, as a result, creating an environment for successful strategic innovation. With clear visibility of outcomes, value creation and mitigation of risks will increase the likelihood of successful investment.

The governing body should establish, promote and support an environment to enable the success of the organization's investments, and provide the leadership to support the people involved.

An environment without surprises for the governing body and a supportive response to messages about potential problems builds on two-way trust and transparency and ensures alignment of objectives.

Accountability for the effective, efficient and acceptable use of IT and the success of the organization's investments in IT remain with the governing body and cannot be delegated. Retaining a level of engagement by the governing body significantly increases the organizational focus on successful outcomes and value realization of all investments.

The governing body can delegate the decision-making authority and hold the management accountable for aspects of investments, ensuring that management have the requisite competence to satisfy such responsibilities associated with the delegation, and that the governing body itself retains appropriate

visibility of key decisions. The governing body should clearly communicate the management’s accountability for outcomes.

The governing body should retain visibility of investments that involve:

- a focus on strategic innovation, with potential to provide continued long-term competitive advantage;
- investments evaluated to have high risk to the organization’s sustainability of existence;
- investments evaluated to require a commitment of significant financial magnitude;
- high levels of integration with other investments and/or business activity.

5 The model for good governance of IT enabled investments

5.1 The model for good governance applied to the governance of IT enabled investments

ISO/IEC 38500 introduces a model for the governance of IT that establishes a cycle of Evaluate – Direct–Monitor. This “EDM” model describes the three main tasks for governing IT and has been applied to the governance of IT enabled investments in the following clauses.

Figure 1 shows the model as it applies to IT enabled investments. This figure is based on the model in ISO/IEC 38500:2015, Figure 1.

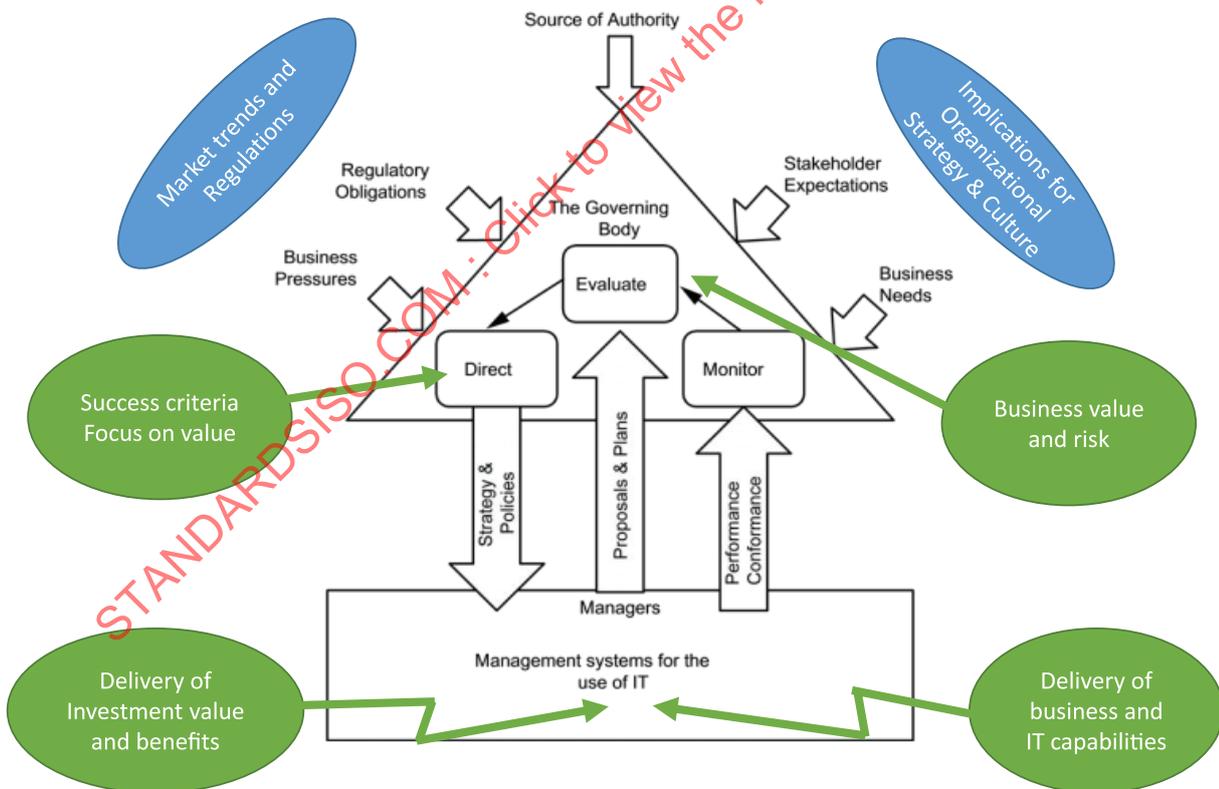


Figure 1 — Model for governance of IT

5.1.1 Evaluate

In applying the ISO/IEC 38500 model the key questions asked by the governing body, when evaluating IT enabled investments, should include the following:

- To what extent is value being created or eroded by the investments over the full lifecycle of the investment decision?
- In what way does the portfolio of investments deliver to the business strategy plan, the development of existing and new (business and IT) capabilities and is the timing right for the business?
- Is the resource allocation between short- and long-term investments right for ensuring relevant business capabilities?
- What steps are being taken to enhance and protect the reputation and brand of the business, is the trustworthiness of the organization being considered?
- How are security, privacy, data governance, legal, societal and business requirements being enforced?
- Does the risk profile of the overall portfolio of IT enabled investment sufficiently business sustainability and match the organization's risk appetite?
- Is the balance between growth, innovation and cost reduction consistent with the organization's strategic objectives for IT effectiveness and efficiency?
- What use is being made of evolving technologies to optimise the future growth of the organization?
- Is the overall level of business change right for the capability of the organization, customers and external stakeholders?
- What are the organizational barriers where the governing body's assistance is required to ensure an environment for success?
- Is the proposed approach to deliver the investment appropriate and consistent with future strategic direction on development versus acquisition, internal versus outsourcing, service versus product?

5.1.2 Direct

The governing body should direct the establishment of a framework for control and visibility of investments that is appropriate to the size, number and type being undertaken. The governance framework and management system may:

- direct that the focus of all investments is to create and sustain short- and long-term business value where value is a function of strategic alignment, benefits, costs and risks over the full life cycle of an investment;
- direct that the investments include all the necessary business changes for the expected value to be realized;
- direct that the investments must have an accountable business owner/sponsor and that relevant metrics and feedback mechanisms are in place to ensure and assure the value is delivered;
- direct that business strategic plans include identified success criteria to drive the investments;
- direct clearly defined policies, processes, responsibilities and accountabilities for transparency in delegated decision-making authority;
- direct the required speed, timeliness and resource allocation with respect to the innovation investment or application of current and future technologies;
- direct the application of appropriate due diligence for all types of investments;

- direct the organization to the level of expected capacity, capability and maturity to deal with the risk and complexity required and to realize the value and benefits desired;
- establish an organizational environment and culture which considers how the use of IT impacts people and is addressed to optimise business value;
- require independent and accountable risk management assessment with separation of duties utilizing appropriate business and IT capabilities.

5.1.3 Monitor

The governing body should monitor the performance and conformance of investments to ensure they are driving the most effective and efficient behaviours and value delivery.

The key considerations of the monitoring task for the governing body may include the following:

- ensuring that the investments continue to be aligned with the strategy and are continuing to create and sustain value to the organization;
- monitoring an environment of trust and transparency continually exists highlighting early indicators of barriers and solutions for governing body action;
- ensuring a level of technology in the organization is aligned with strategic propositions and the governing body's risk appetite;
- challenging interdependencies between investments that could result in non-delivery of value to the business;
- monitoring whether the organization has the capacity (or ability) and culture to sustain the required level of organizational change;
- monitoring stakeholder engagement throughout the investment, including whether assigned portfolio owners and other stakeholders are providing appropriate accountability in their roles and organizational support;
- determining whether business conditions and strategy have changed during the investment, with original assumptions still valid and the value still balancing the risk;
- monitoring emerging technologies in the marketplace for potential investment prospects;
- ensuring business continuity is maintained;
- monitoring the effective, efficient and acceptable use of IT assets and capabilities against a benchmark in the marketplace for prolonged under-investment.

6 Principles for governance of IT enabled investments

6.1 General

ISO/IEC 38500 provides six principles for the good governance of IT. The following subclauses provide guidance on how these principles can be applied to the governance of IT enabled investments.

The practices described are not exhaustive but provide a starting point for suggested guidance to the governing body.

It is the responsibility of each organization individually to identify the specific actions required to apply the principles, given due consideration of the nature and structure of the organization as well as the nature and type of the IT enabled investment.

The implications of applying the principles for the governing body are relevant to those investments which it has decided to retain involvement. Where the governing body has delegated decision-making

authority and holds the management accountable, these implications may be most relevant to the management of the organization. However, as described in [Clause 4](#), the governing body retains overall accountability for the effective, efficient and acceptable use of IT and the success of the organization's investments.

6.2 Principle 1 — Responsibility

6.2.1 Applying the principle

Individuals and groups within the organization understand and accept their responsibilities with respect to IT enabled investments and have the authority and adequate resources to deliver the business outcomes.

Most importantly, the presence of an investment owner/sponsor is a prerequisite for initiating any investment portfolio. The governing body's role as the overall sponsor is crucial to the success of the investments.

6.2.2 Implications for the governing body

The implications of applying the responsibility principle are that the governing body should:

- evaluate those policies and decisions it wishes to retain (or review) at its level as part of its overall responsibilities;
- evaluate whether appropriate roles and responsibilities are identified and assigned with respect to the lifecycle of the investments;
- evaluate the competences of those given responsibility to make decisions regarding investments;
- direct the development and implementation of a clear engagement strategy which addresses the roles of the business areas in investments;
- monitor the effectiveness of the arrangements for allocation of responsibility for delivering business outcomes from the use of technology.

6.2.3 Desired outcomes

The desired outcomes of applying the responsibility principle may include:

- investments are successful in delivering value as defined by the governing body, leading to a greater willingness to invest appropriately to achieve business outcomes;
- swift decision making across all levels of the organization;
- appropriate organizational engagement and use of required skills and capabilities in decision making processes for IT enabled investments.

6.2.4 Governance behaviours

The desired behaviours from applying the responsibility principle are as follows:

- **Leadership:** Leadership by the governing body is clear and visible throughout the organization.
- **Effective decision making:** Delegations, responsibilities and accountability related to investments are clearly defined, understood and accepted by the those given responsibilities.
- **Active sponsorship:** There is active assigned sponsorship to support that alignment of business and IT perspectives are included in the investments and that the conformance to regulatory, legislative and contractual obligations is considered.

- **Culture of measurement for improvement:** The measurement of the success of IT enabled investment is embedded in the organisation leading to a greater trust and belief in the value realization of the investment.

6.3 Principle 2 — Strategy

6.3.1 Applying the principle

The strategy should set the direction for IT enabled investments, what should be achieved and how the IT strategy should be aligned to the organization's business strategy taking into consideration value creation or erosion and the risks and constraints involved with them.

The organization's business strategy should be the source of all investments of any organization regardless of type, structure or size.

Investment strategies should ensure that current and future IT assets and capabilities of IT, and the plans for the use of IT, satisfy the current and on-going needs of the organization's business strategy.

6.3.2 Implications for the governing body

The implications of applying the strategy principle are that the governing body should:

- evaluate whether the investments are aligned with the overall business strategy and that they provide value and the required return on investment to the organization;
- evaluate and formulate a position on innovation from investment in and business use of IT;
- evaluate regularly the opportunities for investment in IT to improve organizational imperatives, such as the value chain arrangements in order to maintain the competitive advantage of the organization;
- evaluate if effective and timely decisions are made about investments in support of business change goals;
- evaluate the timing of investment critical to success including the correct strategy with respect to the concurrent investments and the realistic provision for a programme of investment;
- direct preparation and implementation of strategies and policies, demonstrating an understanding of the overall risk appetite of the organization, level of support for innovative uses of IT that enable the organization to respond to new opportunities and a future focused on digitization;
- direct commitment and leadership regarding the strategy and its drivers to underpin the business strategy with the technology to ensure continued success for the organization;
- direct that the IT investment strategy for IT is communicated widely to provide the basis for coordination of various initiatives across the organization;
- direct strategy for business acquisitions and sourcing models in respect of the impact on the investment decisions;
- monitor the overall performance of the organization's IT investment strategy in support of the organization strategy.

6.3.3 Desired outcomes

The desired outcomes from applying the strategy principle may include:

- all investments are aligned to value delivery to the business, regardless of the organization type, structure or size or who implements them;

- IT strategies, architectures and policies support the ongoing requirements of businesses for delivering new and changed IT assets and IT capabilities;
- there is a systematic approach to encouraging innovation in the use of IT;
- a sustainable IT landscape supporting the organizations' business strategy and continuous growth of revenues;
- a culture of understanding the relationship between digital opportunities and the business strategy.

6.3.4 Governance behaviours

The desired behaviours from applying the strategy principle are as follows:

- **Recognition of the strategic importance of IT investment:** The governing body exhibits interest and engagement in the IT strategy for investments in the same manner as business strategy.
- **Effective, efficient and acceptable use of IT:** The strategy for investments should ensure an effective, efficient and acceptable use of IT.
- **Requirement for demonstrable value from IT investments:** The strategy for investments supports achieving the business value and benefits desired by the organization.
- **Innovation strategy:** Strategies and policies for innovation provide a clear guidance for executing investments that support adoption of current and future available technologies.

6.4 Principle 3 — Acquisition

6.4.1 Applying the principle

IT acquisitions are made for valid reasons in support of the planned investment strategy and on predicted value to be achieved, on the basis of appropriate and on-going analysis and supported by a clear and transparent decision-making process. There is an appropriate balance between benefits, opportunities, costs, and risks, in both the short and the long term.

The governing body should ensure that appropriate resources are available before, during and after any IT enabled investment and that they are made according to a clear and transparent decision-making process.

6.4.2 Implications for the governing body

The implications of applying the acquisition principle are that the governing body should:

- evaluate whether the necessary and appropriate strategic resources, sourcing and legal capabilities are available for the successful completion of the investments in a timely manner;
- direct adoption of structured due diligence methodology and framework for balancing risks and value for money of proposed investments;
- direct that supply arrangements (including both internal and external supply arrangements) support the desired business change of the organization;
- direct that, when making any IT acquisition, both the organization and suppliers develop a shared understanding of the organization's intent in terms of desired outcomes;
- monitor the entire supply chain provided by the IT acquisitions, to ensure that they provide the required business capabilities, IT assets and IT capabilities.

6.4.3 Desired outcomes

The desired outcomes of applying the acquisition principle may include:

- improved integration of business and IT perspectives before, during and after investments, including IT enabled acquisitions decisions;
- IT governance, IT assets and IT capabilities included in due diligence reports for evaluating IT enabled investment against business risk and value add.

6.4.4 Governance behaviours

The desired behaviours from applying the acquisition principle are:

- **IT acquisitions treated as business investments:** Takes account of capabilities and contemporary use of IT and ensures that business strategic plans drive the IT acquisitions agenda of the organization.
- **IT considered a value asset:** Technology, digital or traditional, is established as a value asset to the organization rather than a cost element and becomes a growth and game changer asset to the organization.
- **IT enabled investment due diligence methodology is established:** The methodology for IT acquisitions includes appropriate risk oversight and approvals before, during and after the IT investment decision making.

6.5 Principle 4 — Performance

6.5.1 Applying the principle

Investments are fit for purpose in supporting the organization, providing the services, levels of service and service quality required to meet current and future business requirements, creating value to the organization and leveraging competitive advantage in the market.

6.5.2 Implications for the governing body

The implications of applying the performance principle are that the governing body should:

- evaluate the value created for the organization by the investments;
- evaluate whether the investments are fit for purpose in supporting the current and future needs of the business;
- evaluate regularly the performance of the organization's governance framework for investments;
- direct that relevant performance metrics are identified, documented and operational, receiving appropriate attention and remedial action if necessary;
- direct that acceptable investments fit for purpose in supporting the organization;
- monitor the extent to which investments support and create value and benefits to the organization;
- monitor the extent to which investments are aligned to business change objectives;
- monitor the extent to which the policies related to investments are followed properly;
- monitor the value and benefits related to innovation investments.

6.5.3 Desired outcomes

The desired outcomes from applying the performance principle may include:

- lower risk and better transparency into short- and long-term value of investments;
- all required outcomes met as defined by the organization strategy and investment proposition in a measurable and identifiable manner;
- measurement of the value and the benefits against plan;
- performance on conformance requirements to investments are tracked and reported.

6.5.4 Governance behaviours

The desired behaviours from applying the performance principle are as follows:

- **Transparency in performance evaluation:** Means of ensuring transparency into the performance evaluation of achieved business outcomes of investments are ensured, tracked and adjusted as necessary and the required mechanisms to monitor the performance are clear and visible.
- **Recognition of risks and appropriate mitigation:** Possible risks related to investments are identified, treated and monitored according to the appropriate risk management implemented.
- **Value realization:** Monitor and control of the value and the benefits to the organization related to investments.
- **Continued support for IT enabled investment contingent on performance:** Good governance of IT enabled investment directly leads to the more effective and efficient selection, implementation and use of technology achieving desired business outcomes.

6.6 Principle 5 — Conformance

6.6.1 Applying the principle

Investments comply with all mandatory legislation and regulations and other internal or external requirements. Policies and practices to ensure conformance before, during and after executing the investments are clearly defined, implemented and enforced.

6.6.2 Implications for the governing body

The implications of applying the conformance principle are that the governing body should:

- evaluate risks related to conformance to obligations (regulatory, legislative and contractual) regarding investments;
- evaluate regularly the organization's internal conformance to its governance framework for investments;
- direct that policies related to investments are established and enforced to enable the organization to meet its external and internal obligations;
- monitor the investments activities regularly to ensure that related conformance obligations (regulatory, legislative and contractual), including data privacy, intellectual property, health and safety, financial and other internal obligations are met.