



Information Communication Technology (ICT) Governance Framework Policy

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Definitions & Acronyms

Application	Computer software that causes a computer to perform useful tasks
CFO	Chief Financial Officer
CIO	Chief Information Officer
CGICT	Corporate Governance of ICT
DPSA	Department of Public Service and Administration
Hardware	The component devices that are the building blocks of computers
ICT	Information and Communication Technology
IDP	Integrated Development Plan
ISACA	Information Systems Audit and Control Association
ITGI	Information Technology Governance Institute
KPA	Key Performance Areas
KPI	Key Performance Indicator
MM	Municipal Manager
MFVM	Municipal Financial Viability and Management
Network	A telecommunications network that connects a collection of computers to allow communication and data exchange between systems, software applications, and users
SALGA	South African Local Government Association
SMT	Senior Management Team
SSD	Strategy & Social Development

1.1 ICT Governance Overview and Technology and Information Governance King IV

The IT Governance Institute (ITGI) defines Information and Communication technology (ICT) governance as “the leadership, organisational structures and processes that ensure that the organisation’s ICT sustains and extends the organisation’s strategies and objectives” (ITGI, 2003).

The Fourth King Report became operational in South Africa on 1 November 2016. *“In King IV, cognisance had to be taken of the advances in technology that are revolutionising businesses and societies, and transforming products, services, and business models. So profound are these effects that many believe they herald the dawn of a Fourth Industrial Revolution. These advances happen quickly and can cause significant disruption, opportunities, and risks. Organisations should strengthen the processes that help them to anticipate change and to respond by capturing new opportunities and managing emerging risks. The practices under Principle 12 are designed to assist the governing body to do so. Information, like technology, is a growing source of competitive advantage for the enhancement of the intellectual capital of an organisation. In King IV, it is recognised that information and technology overlap but are also distinct sources of value creation which pose individual risks and opportunities. It is to reinforce this distinction that this section in the King IV Code now refers to technology and information instead of information technology.”* (THE KING IV REPORT, 2016)

TECHNOLOGY AND INFORMATION GOVERNANCE (THE KING IV REPORT, 2016)

The table below lists explains the ICT governance principles of the King IV report (THE KING IV REPORT, 2016).

“Principle 12: The governing body should govern technology and information in a way that supports the organisation setting and achieving its strategic objectives.”

RECOMMENDED PRACTICES

1. The governing body should assume responsibility for the governance of technology and information by setting the direction for how technology and information should be approached and addressed in the organisation.
2. The governing body should approve policy that articulates and gives effect to its set direction on the employment of technology and information.
3. The governing body should delegate to management the responsibility to implement and execute effective technology and information management.
4. The governing body should exercise ongoing oversight of technology and information management and oversee that it results in the following:
 - a) Integration of people, technologies, information, and processes across the organisation.
 - b) Integration of technology and information risks into organisation-wide risk management.
 - c) Arrangements to provide for business resilience.
 - d) Proactive monitoring of intelligence to identify and respond to incidents, including cyber-attacks and adverse social media events.
 - e) Management of the performance of, and the risks pertaining to, third-party and outsourced service providers.
 - f) The assessment of value delivered to the organisation through significant investments in technology and information, including the evaluation of projects throughout their life cycles and of significant operational expenditure.
 - g) The responsible disposal of obsolete technology and information in a way that has regard to environmental impact and information security.
 - h) Ethical and responsible use of technology and information.
 - i) Compliance with relevant laws.

14. The governing body should exercise ongoing oversight of the management of information and oversee that it results in the following:

- a) The leveraging of information to sustain and enhance the organisation's intellectual capital.
- b) An information architecture that supports confidentiality, integrity, and availability of information.
- c) The protection of privacy of personal information.
- d) The continual monitoring of security of information.

15. The governing body should exercise ongoing oversight of the management of technology and oversee that it results in the following:

- a) A technology architecture that enables the achievement of strategic and operational objectives.
- b) The management of the risks pertaining to the sourcing of technology.
- c) Monitoring and appropriate responses to developments in technology, including the capturing of potential opportunities and the management of disruptive effects on the organisation and its business model.

16. The governing body should consider the need to receive periodic independent assurance on the effectiveness of the organisation's technology and information arrangements, including outsourced services.

17. The following should be disclosed in relation to technology and information:

- d) An overview of the arrangements for governing and managing technology and information.
- e) Key areas of focus during the reporting period, including objectives, significant changes in policy, significant acquisitions and remedial actions taken as a result of major incidents.
- f) Actions taken to monitor the effectiveness of technology and information management and how the outcomes were addressed.
- g) Planned areas of future focus.

ICT governance exists to inform and align decision making for ICT planning, policy, and operations in order to meet business objectives, ascertain that risks are managed appropriately and verify that resources are being used responsibly and strategically.

Because ICT services account for significant capital and operational expenses in most organisations, the formal processes within a governance framework ensure that business requirements ultimately drive.

Planning decisions for the development and management of ICT resources. Formalizing governance processes also helps ensure that technology and business leaders agree on what is an appropriate level of risk in the ICT that powers day-to-day operations.

This document represents and outlines an ICT governance framework for the Langeberg Municipality that meets the unique needs of government customers and at the same time provides the structure to successfully manage a complex ICT environment and results in services that add value to and make successful the business of government.

2 PURPOSE

- a) The purpose of the Langeberg ICT Governance Framework Policy is to: Ensure and promote the alignment of the ICT section with the Municipality's objectives.
- b) Ensure and promote ICT performance management and metric methods.
- c) Ensure valuable and effective communication between the ICT section and end user business community.
- d) Ensure risk mitigation and improvement of ICT service delivery to the Langeberg Municipality users and all relevant stakeholders.
- e) Ensure policy compliance including external legislation and regulations.

The South African Local Government Association (SALGA) ICT Governance Guidelines place emphasis on the importance of ICT as a support, sustainability, and growth function for Municipalities in local Government business. ICT is a cross-functional component in local Government business and as such, transcends from just being an operational Municipality enabler to a strategic driver for creation of service delivery opportunities and competitive mileage.

However, as a strategic driver to the Municipality, ICT brings along potential risk due to its dynamic, innovative, and transient nature. As such, it is very important that ICT risks and any limitations or challenges are well managed and controlled to ensure the positive delivery of the Municipality's strategic objectives.

The adoption of this ICT Governance Framework Policy for the Langeberg Municipality provides the basis for the Executive Mayor and Municipal Manager to ensure compliance of the Municipality to the King III Code of Governance which lays a step-by-step approach for cogent ICT governance. The outcome allows for the expansion of ICT as a tool towards performance management and monitoring, resource allocation, and safeguarding return of investments made.

3 LEGISLATIVE FRAMEWORK

The policy was developed with the legislative environment in mind, as well as to leverage internationally recognised ICT standards. The following legislation, among others, were considered in the drafting of this policy:

- a) Constitution of the Republic of South Africa Act, Act No. 108 of 1996.
- b) Copyright Act, Act No. 98 of 1978
- c) Electronic Communications and Transactions Act, Act No. 25 of 2002
- d) Minimum Information Security Standards, as approved by Cabinet in 1996
- e) Municipal Finance Management Act, Act No. 56 of 2003
- f) Municipal Structures Act, Act No. 117 of 1998
- g) Municipal Systems Act, Act No. 32, of 2000
- h) National Archives and Record Service of South Africa Act, Act No. 43 of 1996
- i) National Archives Regulations and Guidance
- j) Promotion of Access to Information Act, Act No. 2 of 2000
- k) Protection of Personal Information Act, Act No. 4 of 2013
- l) The Cybercrimes Act 19 of 2020
- m) Regulation of Interception of Communications Act, Act No. 70 of 2002

The following internationally recognised ICT standards were leveraged in the development of this policy:

- a) Western Cape Municipal Information and Communication Technology Governance Policy Framework, 2014.
- a) Control Objectives for Information Technology (COBIT) 5, 2012.
- b) ISO 27002:2013 Information technology — Security techniques — Code of practice for information security controls.
- c) King Code of Governance Principles, 2009.

3.1 King III report and the public sector

One of the fundamental principles of the King III report is the message of social responsibility that companies have for the people of the country – especially the community in which they operate (IODSA, 2009). This corresponds with the vision of the South African National Government to improve service delivery to all, as well as with the Batho Pele principles (PWC, 2009; PWC, 2010b), which were introduced in 1997 and set the scene for corporate governance principles on local authority level (DPSA, 1997).

The most important aspect of a public sector entity is the delivery of a specific service to the citizens in order to improve the quality of life for all (Woods, 2010). The particular service(s) need to be delivered in a sustainable way and public sector entities in South Africa are under pressure to advance in service provision. This is however only possible if public sector entities are able to utilise their ICT assets in a modern and effective way, to reap the required benefits. The South African government acknowledges that ICT is integral in reaching the community and delivering services in a more effective manner (PWC, 2010b) – thus ICT functions as the enabling agent. By being more efficient, money could be saved and invested directly to the benefit of citizens. The South African national government incorporated the E- government programme as part of their Vision 2014 priorities (PWC, 2010b) – not in a traditional way as hardware and software, but as a vehicle to improve service delivery and creating access for all (ITGI, 2003; Le Roux, 2010:50; PWC, 2010b).

Local authorities are obliged to improve service delivery, be cost-effective and keep up to date with innovative technology trends. After ICT was identified as a fundamental element of running a business and hence the introduction of ICT governance in the King III report, it was emphasised that local authorities should prioritize ICT as an important strategic asset and include it when determining the road forward as well as in identifying risks (PWC, 2009).

By implementing the ICT governance principles contained in the King III report these issues can be addressed (Woods, 2010).

3.2 Process and objective of the framework

The framework was compiled by consulting the SALGA Municipal ICT Governance Framework Guidelines, State ICT Governance Framework, ISACA Cobit5 guidelines and other sources. The Framework is, by its nature, a living document that will be adjusted as processes change and mature.

The requirement of principle 5.2 of the King III report stipulates that an alignment exercise between ICT and the business operations of the entity should be performed to reach the objectives of the entity. Therefore, not only is insight needed into the organisational environment and processes, but also into the ICT environment, consisting of ICT architecture and ICT processes.

By adopting the ICT governance framework the following objectives are anticipated:

- a) Raising the profile of ICT within municipalities
- b) Raising the profile of ICT as a strategic enabler for effective administration and service delivery
- c) Bringing international good practices into the municipal arena
- d) Further strengthening corporate governance of ICT as well as ensuring that ICT be an integral part of the strategic direction of the municipality
- e) Institutionalising ICT governance as an integral part of municipal corporate governance.
- f) Creating a process whereby ICT governance standards across and within the local government sector can be introduced.
- g) Improving the ICT governance literacy and lingo within municipalities.

3.3 Organisational imperatives

Based on the nature of the entity, any entity has specific business imperatives (Boshoff, 2010). Boshoff defines a business imperative as a non-negotiable prerequisite principle, imposed by management,

which needs to be achieved to enable the company to reach its strategic business objectives in the specific environment.

Six imperatives were identified as the key business imperatives for a public sector entity. Table 2 identifies the business imperatives for a public sector entity and provides a brief description of the imperative from a business requirements perspective.

Table 1: Business imperatives for a public sector entity

Imperative	Business requirements
Affordability	Public sector entities require IT costs to be low and are focused on value for money. The benefits received from the IT environment should outweigh the cost. Costs of ownership and operating costs should be low in order to utilise taxpayers' money efficiently in transforming it into tangible outcomes for society.
Agility	The IT systems should be able (flexible) to adapt to changes in political power, restructuring possibilities and changes in the economy. The IT systems should also be able to adapt to provide easier methods of interaction with the citizens.
Ease of use	The IT technology should be easy to use for all users. It should not be too complex, which could lead to idle time, mistakes and the requirement for highly skilled staff. Since decisions are made based on information captured it is important to limit mistakes. The entities also want to limit unnecessary expenditure on IT training caused by complex systems.
Reliability	Systems need to function as intended at all times to be available, effective and efficient.
Security	Access to the personal data of citizens should be safeguarded to prevent unauthorised access to such information. Unauthorised transactions should also be prevented.
Self service	Entities want citizens to be able to perform certain tasks (such as register for tax purposes) directly and quickly themselves.

When aligning the ICT environment with the business objectives of the entity as required by principle 5.2 of the King III report, the ICT environment should therefore be aligned with these business imperatives (IODSA, 2009).

3.4 Aligning organisational imperatives with the ICT environment

The impact of the business imperatives of the public sector (identified in Table 2) on the ICT environment, were evaluated and recorded in Table 3 below. This table provides the last step towards achieving the alignment between the ICT environment and the business objectives of the entity as required by principle 5.2 of the King III report. A golden line was created from the nature of the entity to the impact thereof on the clusters of the ICT environment, resulting in alignment between the business processes and goals and the ICT environment.

Table 2: Operational imperatives - ICT environment perspective

Imperative	Operational Requirements	ICT Environment	Clusters Impacted
Affordability	Public sector entities require ICT costs to be low and are focused on value for money. The benefits received from the ICT environment should outweigh the costs. Costs of ownership and operating costs should be low in order to utilize taxpayers' money efficiently in transforming it into tangible outcomes for society.	The cost of ownership of ICT software and hardware needs to be as low as possible. This includes the initial purchase price, annual license fees and the costs associated with upgrades and maintenance.	Applications Hardware Networks
Agility	The ICT systems should be able to adapt to changes in political power, restructuring possibilities and changes in the economy. ICT should also be able to adapt to easier methods of interactions with the public.	The hardware and applications need to facilitate various systems, since a public sector entity is diverse in its trade and has various stakeholders. ICT should be easy to upgrade and maintain the system	Applications Hardware
Easy to use	The ICT technology should be easy to use for all users. A complex system is not desirable as it could lead to idle time, mistakes, and the appointment of highly skilled staff. Decisions are made based on information captured and therefore it is important to limit errors. The entities also want to limit the expenditure of ICT training required by complex systems.	The user interface should generate an experience for users that is not demoralizing. The response rate and the content should encourage users to finalise tasks quickly and effectively. The business process should be logical, prompting for the next procedural step, require the successful completion of a step before the user can move to the	Applications
Reliability	Systems need to function as intended at all times, thereby being available, effective and efficient.	The systems should be of a reliable quality to avoid malfunctioning. The systems should also be able to adjust to unexpected changes with minimal damage. A detailed contingency plan should be in place. A continual monitoring system that monitors availability of systems	Applications Hardware Networks
Security	Unauthorized access to the personal data of citizens should be prevented.	Data must be kept in a valid, accurate and complete manner. Appropriate firewalls, anti-virus programs and facilitation of administrators' rights should be in	Applications Hardware Networks
Self-Service	Entities want citizens to be able to perform certain tasks directly and quickly themselves.	Online functionality should be developed and activated. User-friendly interfaces should be used to eliminate errors. A help function should be available, and users should be guided step-by-step in a logical manner.	Applications

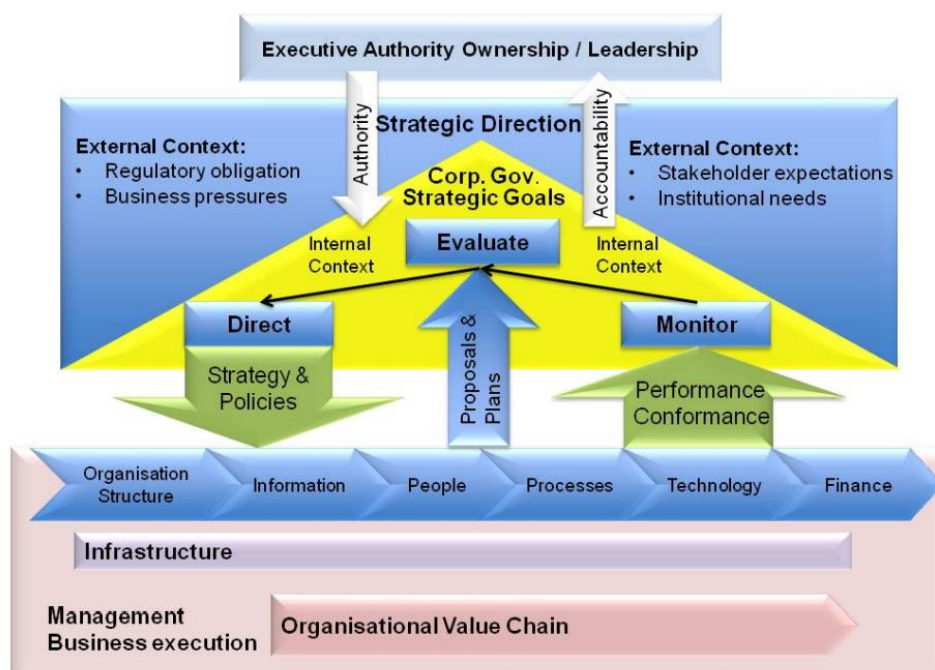
The DPSA Corporate Governance of ICT Framework benchmarks the framework that Government Institutions are supposed to adopt and align to for standardised principles and practices. Figure 1 below illustrates the Governance Framework in its generic form and shows how the Municipality best manages and controls its ICT governance system with its governance structures. As such, the Corporate Governance of ICT becomes a subset of the broader Corporate Governance system.

In the context of the Langeberg Municipality, the Executive Authority is located within the Municipal Council. The Municipal Council must provide political leadership and formulate a strategic direction and ensure policy determination and oversight. This includes ensuring that the ICT service delivery does enable the realisation of the Municipality's Strategic Plan. Furthermore, as per the South African Local Government Association (SALGA) Municipal ICT Governance Guidelines, the Langeberg Municipality Council has vested interest in a properly established and functional ICT Governance that positions the ICT Department as a strategic enabler of the Municipality. The Municipal Council also assists the Municipal Manager or delegated SMT member to deal with ICT-related Municipal business while observing politico-administrative dichotomy. This is even made easier by Council ensuring the Municipality's organizational structure makes adequate provision for the CGICT.

The Municipal Manager (MM) provides strategic management and leadership and ensures the alignment of the ICT strategic plan with the municipal strategic plan/IDP. Also, the MM makes sure that the CGICT is well located on the Municipality's Strategic Agenda and finds expression on the organisational structure. As per the SALGA Municipal ICT Governance Guidelines, the MM is empowered to delegate the authority of CGICT to the Senior Management Team. Together, the Senior Management Team led by the Municipal Manager as the Accounting Officer should ensure that there is appropriate ICT capability within the Langeberg Municipality by working together with the Manager: ICT and ensuring the incumbent has access to strategic matters. Moreover, the Senior Management Team (SMT) is held responsible for the process of ensuring that the CGICT is managed and implemented effectively in the Municipality.

The Senior Management Team (SMT) of the Langeberg Municipality is entrusted with ensuring that the ICT goals and objectives are aligned with the Municipality's strategic goals and are also in tandem with the Strategic Business Plans. This is mainly because the Strategic Business Plans integrate with ICT Strategy and ICT Risk Management and thus significant ICT investments and expenditure become informed by the Municipality's enterprise architecture which requires monitoring and evaluation. SMT also plays an advisory role to the Municipal Manager on matters related to the management and implementation of this ICT Governance Framework.

Figure 1 : Corporative Governance Framework



The Municipality's service delivery priorities and key performance areas are well governed within the context of the Integrated Development Plan (IDP) and Strategic Financial Plan (Budget). Both the IDP and Strategic Financial Plan enable the outlining of the Municipality's plans that are set out to achieve the strategic goals, vision, and objectives and address the financial demands that will determine the achievement of the set undertakings.

For efficient performance management, the Langeberg Municipality IDP enjoins the Municipality's strategic objectives to Key Performance Areas (KPA's) which cascade into Key Performance Indicators (KPI's). In the Municipality's Performance Management System, the KPIs are linked to Directorate indicators and performance reports are required to give a metric of the progress made against the set KPI's. Thus, Figure 1 above gives impetus on the need to ensure individual accountability and responsibilities within the Municipality to create a governance value chain.

The successful implementation of this ICT Governance Framework is premised on the realisation of the processes suggested by the DPSA Implementation Guidelines, in-line with COBIT 5 processes which are as follows:

- EDM01: Governance framework setting and maintenance
- APO01: Manage the ICT management framework
- APO02: Manage strategy
- APO03: Manage enterprise architecture
- APO05: Manage portfolio
- APO10: Manage Suppliers
- APO12: Manage Risk
- APO13: Manage security
- BAI01: Manage programmes and projects
- DSS01: Manage operations
- DSS04: Manage continuity
- MEA01: Monitor, evaluate and assess performance and conformance

5 Project Management Principles

The Six Principles of Project Management

Principle 1: Vision and Mission

Principle 2: Business Objectives

Principle 3: Standards of Engagement

Principle 4: Intervention and Execution Strategy

Principle 5: Organisational Alignment

Principle 6: Measurement and Accountability

6 Performance Measurement

Performance measures are required to ensure that the outcomes of ICT activities are aligned to the organisation's goals. Internal ICT process measures are required to ensure that the processes can deliver the intended outcomes cost-effectively. Advanced performance measurement enables the measurement of key aspects of ICT capability such as creativity and agility (new ideas, speed of delivery and success of a change programme), development of new solutions, ability to operate reliable and secure services in an increasingly demanding ICT technical environment, and the development of human resources and skills.

6.1 ICT Key Performance Indicators (KPIs)

All the KPI's developed are all aligned to an IDP objective and a National KPA, in ICT's instance, these are:

- a) National KPA
- b) IDP Objective: To ensure a municipality that is committed to an innovative approach.

6.2 Management of the Governance Process

The goal of governance is to facilitate agile, effective and transparent decision making. This requires consistent and timely communications. Stakeholders that may be impacted by decisions must have a way to know what decisions are in a queue at any given point in time and understand how to provide feedback.

To facilitate this process, an ICT Steering Committee, incorporated into the Business Continuity Committee, comprising of executive, organisational and ICT Management needs to be in place. The role of the committee is to:

- Determine prioritization of ICT-enabled investment programs in-line with the municipality's business strategy and priorities.
- Track status of projects and resolve resource conflict.
- Monitor service levels and service improvements.

The Executive / Senior management must:

- Ensure that ICT goals are aligned with the municipal strategic goals and support strategic business processes.
- ICT strategy is integrated with strategic business processes and that related risks are managed.
- Significant ICT investment and expenditure are informed by the municipal enterprise architecture, motivated, monitored and evaluated.
- Advice is provided to the Accounting Officer on the implementation and management of the Corporate Governance of ICT.

6.3 Communications

Communications of governance processes and outcomes will be shared not only with the ICT community but with the organisational leadership affected by the management of ICT. Regular governance communications regarding key governance activities, policies and decisions will be reported to the key leadership group that regularly meet for information sharing.

For more targeted customer communications the Manager: ICT will play a primary role in keeping management informed of ICT Governance decisions that will affect ICT services and projects and will serve as the primary contact for organization-based ICT planning and the resulting comprehensive service agreements.

7 ICT Governance Framework: Primary Roles

7.1 Role of the MM/Director: SSD/Manager: ICT

According to the SALGA ICT guidelines (5.4), a Municipal Manager as part of the Executive Management of a municipality is both the Accounting Officer and the Information Officer. He/she may delegate certain duties to the Chief Financial Officer, who would be accountable to him/her. The Municipal Manager is therefore accountable:

- a) For all transactions entered into by his/her designates.
- b) For sound record management (Information Management)
- c) The implementation of the governance of ICT is delegated from the office of the Municipal Manager to a Municipal ICT Steering Committee, incorporated into the Business Continuity Committee, made of the relevant executive / senior management (Section 57 managers) as well as the municipal ICT Management (MM / Director: SSD or Manager: ICT)

According to SALGA, the MM/Director: SSD/Manager: ICT is responsible for the implementation and operation of ICT governance and is expected to report to the ICT Steering Committee, incorporated into Business Continuity Committee, and the council about the effective and efficient management of ICT resources to facilitate the achievement of corporate objectives.

King III also requires the MM/Director: SSD/Manager: ICT to define, maintain and validate the ICT value proposition. Align ICT activities with environmental sustainability objectives, implement an ICT control framework and ensure all parties in the chain from supply to disposal of ICT goods and services also apply good governance principles.

7.2 Role of the ICT Steering Committee

The Municipal ICT Steering Committee, incorporated into the Business Continuity Committee, is to ensure that everyone in the municipality understands the link between the organisation and the ICT goals and accepts their responsibilities with respect to the supply and demand for ICT. The municipal ICT Steering Committee will ensure that:

- a) Develop corporate level ICT strategies and plans that ensure the cost-effective application and management of ICT systems and resources throughout the Langeberg Municipality.
- b) Monitor and review current and future technologies to identify opportunities to increase the efficiency of ICT resources.
- c) Monitor and evaluate ICT projects and achievements against the ICT Strategic Plan.
- d) Develop and review standards, policies, and procedures; and
- e) Inform and make recommendations to the Director: Strategy and Social Development for items to be raised at the Section 80 Committee where necessary.

7.3 Role of the customer

The customers of ICT services (the organisational leaders of Langeberg Municipality) have a critical role in the governance process for ICT. Primarily, the customer is concerned with what ICT delivers, how ICT will meet program needs, and how well ICT performs.

The customer's most prominent role therefore is Customer Strategic Planning, the on-going internal planning between customer leadership and Manager: ICT, to determine the technological needs for given projects, priorities, programs and annual budgets. Based on an ongoing relationship between municipal organisational leadership and the MM/Director: SSD/Manager: ICT, they determine the ICT needs of the municipality based on business strategic planning. The MM/Director: SSD/Manager: ICT serves as the responsible party for ensuring that the resulting ICT services – regardless of sourcing – are meeting the needs of the organization.

8 Risk Management

The management of risks is a cornerstone of ICT Governance, ensuring that the strategic objectives of the business are not jeopardised by ICT failures. ICT related risks are increasingly an ICT Steering

Committee, incorporated into the Business Continuity Committee level issue as the impact on the organisation of an ICT failure, be it an operational crash, security breach or a failed project, can have devastating consequences. However, managing ICT risks and exercising proper governance is a challenging experience for business managers faced with technical complexity, a dependence on an increasing number of service providers, and limited reliable risk monitoring information. As a consequence, management is often concerned whether risks are being cost effectively addressed, and they need assurance that risks are under control.

Therefore, the ICT steering committee should manage enterprise risk by:

- a) Ascertaining that there is transparency about the significant risks to the enterprise and clarifying the risk-taking or risk-avoidance policies of the enterprise.
- b) Being aware that the final responsibility for risk management rests with the steering committee so, when delegating to executive management, making sure the constraints of that delegation are communicated and clearly understood.
- c) Being conscious that the system of internal control put in place to manage risks often has the capacity to generate cost-efficiency.
- d) Considering that a transparent and proactive risk management approach can create competitive advantage that can be exploited.
- e) Insisting that risk management is embedded in the operation of the enterprise, responds quickly to changing risks and reports immediately to appropriate levels of management, supported by agreed principles of escalation (what to report, when where and how).

We must be conscious though that risk taking is an essential element of business today. Success will come to those organisations that identify and manage risks most effectively. Risk is as much about failing to grasp an opportunity as it is about doing something badly or incorrectly.

8.1 What are the risks?

To enable effective Governance, ICT risks should always be expressed in the business context rather than in the technical language favoured by ICT risk experts. Business risks are affected by the business environment (management style, culture, and risk appetite, industry sector factors such as competition, reputation etc., national, and international regulations). ICT risks can be similarly affected.

There is no single accepted set of generic ICT risk definitions, but these headings can be used as a guide (Taken from a global study by the Economist Intelligence Unit in 2002):

- a) Investment or expense risk
- b) Access or security risk
- c) Integrity risk
- d) Relevance risk
- e) Availability risk
- f) Infrastructure risk
- g) Project ownership risk

For ICT to be effectively governed, top management must be able to recognise ICT risks and ensure that significant risks are managed. Significance of an ICT risk is based on the combination of impact (what effect the risk would have on the organization if it occurred) and likelihood (the probability of the risk occurring). Because of the complexity and fast changing nature of ICT, education and awareness is essential to ensure risks are recognised – not just at the top management level but at all levels throughout the organisation. It is increasingly common for a dedicated risk management function to be established or for external advice to be obtained on a regular basis to ensure that risks are monitored, and the rest of the organisation is kept informed.

Maintenance of a risk catalogue or risk register can be helpful to ensure that a thorough review of all ICT related risks takes place on a periodic basis and for providing assurance to management that risks are being addressed.

Currently our Internal Audit and Risk Management section manage and monitor all risks within the organization, including ICT ones.

8.2 When to outsource

Acquiring ICT Governance competence from outside the organisation will be driven by two different objectives:

- a) When it is more cost-effective to outsource skills that are not available in-house
- b) When outside input of expertise is beneficial in its own right

However, if implementation of ICT Governance is to be successful and sustainable, competence will have to be developed within the organisation, since management of ICT must be owned within the organisation. In many organisations where all or significant parts of the ICT service have been outsourced, responsibility and competence for controlling use of these services should still be retained internally. It is essential to retain sufficient skills internally to be able to sustain the business – and to understand and manage what is being outsourced.

9 ICT and Audit

The growing interest in ICT Governance and increasing pressure to deal with regulatory compliance and a continuing focus on security has made ICT management much more involved in risk management and control activities. There is therefore a need for ICT management to work more closely with the auditors.

9.1 What are the roles of ICT and Audit for ICT Governance?

Role of ICT Audit

- a) ICT Governance is a management responsibility, and therefore not the sole responsibility of an Audit function.
- b) ICT Governance requires management commitment and ownership within ICT and the business to make it happen. Audit can then determine if it is happening and provide assurance to the board.
- c) When reviewing Governance, Audit must do more than just identify problems. They need to identify

root causes and make constructive recommendations.

- d) Audit can test controls especially where control is critical, and assurance is required. But increasingly there is a trend for ICT to “test themselves” by performing self-assessments.

Audit can play a part in setting standards, and providing control criteria and control benchmarks, particularly in respect of external regulation.

Role of ICT

- a) ICT must be responsible for changing the culture of the ICT organisation, for managing the ICT processes, and adopting a focus on controls.
- b) Education in control principles may be needed, and audit can help with this by working together with ICT and by providing training, workshops, and staff secondments.
- c) A common framework and understanding are needed in order to ensure that ICT Management is exercising ICT Governance.
- d) ICT should take a lead on governance; audit can “sow the seeds”.
- e) If ICT (as so often) is in `firefighting` mode it is harder for them to drive governance.

10 Information Security

Executive management has a responsibility to ensure that the organisation provides all users with a secure information systems environment. Sound security is fundamental to achieving this assurance. Information systems can generate many direct and indirect benefits, and as many direct and indirect risks. These risks have led to a gap between the need to protect systems and the degree of protection applied. Proper governance of security, like any other aspect of ICT, requires top management to be more involved in setting direction and overseeing the management of risk.

The view of the impact ICT Governance is that Information security concerns have increased due to:

- a) Technical complexity
- b) Cyber Crime
- c) Increasing ease of use, and the accessibility of ICT systems
- d) Anywhere/anytime access.

Proper governance of security, like any other aspect of ICT, requires top management to be more involved in setting direction and overseeing the management of risk. It is essential therefore to take action to ensure that:

- a) The importance of information security is communicated to all and that a policy exists to underpin activities in a changing environment.
- b) The ownership and responsibility for information security is accepted by senior management in the business as well as in ICT.
- c) The security function is there to assist management and security is ultimately the responsibility of everyone.
- d) Any shortage of skilled resource in this area is addressed, as it may be impossible to retain all the necessary skills and functions in-house.
- e) Responsibility for any security aspects of corporate compliance is accepted by the Steering Committee.

10.1 Roles and Responsibilities

For information security to be properly addressed, greater involvement of the organisation is required. For information security to be properly implemented, skilled resources such as information systems auditors, security professionals and technology providers need to be utilized.

An **ICT Security Manager** should be in place as an advisor to management and the project owner of security action plan. The role can be part time and is often supported by external advisors. It is often part of a **Risk Management function**. An **Operational Team (Security Operations Center Team)** will be needed to maintain and monitor security processes and operate administrative procedures. The **Audit Function** plays a key independent role in monitoring and assessing the adequacy of security within the organization.

11 Communication Management

The municipality must have documented standards, procedures, or guidelines for the management/administration of their network. Critical system environments must be restricted from the general user environments by implementing virtual private network. Firewalls must be used to inspect traffic passing through the network and the firewall logs are actively monitored and managed in-house.

Intrusion detection system (IDS) and intrusion prevention system (IPS) must be in use. Security systems must be actively monitored, and their logs must be edited. The municipality using Sophos anti-virus software to detect and prevent electronic viruses.

The municipality must have patch management framework in place. Meaning that their systems were vulnerable to compromises. If the municipality allows wireless access, it must be appropriately controlled or/and managed.

Dealing with an information breach is not only embarrassing but also has legal implications since there are notification requirements if sensitive employee or customer data is accessed inappropriately or potentially exposed to a breach. The development of a patch management strategy is therefore critical for the Municipality to:

- a) determine the methods of obtaining patches
- b) specify methods of validating patches
- c) identify vulnerabilities that are applicable to the organisation
- d) ensure all patches are tested against known criteria describes a detailed deployment method for patches
- e) report on the status of patches deployed across the organisation
- f) includes methods of dealing with patch failures

12 Wireless

Wireless is a great technology that offers many benefits and requires great responsibility. A responsibility that is unfortunately much too often ignored when implementing it. A wireless network needs to be properly secured as it poses several extremely serious risks and dangers if left wide open and exposed, which many users are unaware of such as:

- a) **BANDWIDTH PARASITE:** Where the intruders use the victim's Broadband connection to get online without paying. This will not cause any direct harm to the compromised network, but it can slow down internet or network access for the victim.
- b) **MASKING CRIMINAL ACTIVITY:** Where an unauthorized could abuse the victim's connection for malicious purpose like hacking, launching a DOS attack, or distributing illegal material.
- c) **FREE ACCESS TO PRIVATE DATA:** A wireless network is also a direct backdoor into the victim's private network literally. Instead of intruding from the public side of the gateway device, the intruder connects directly to the network on the private side of the gateway device, completely bypassing any hardware firewall between the private network and the broadband modem. The intruder can completely take advantage of this by snooping around undisturbed and getting access to confidential data. It is therefore imperative that Langeberg Municipality should develop policies and procedures that will govern the security of their wireless.

13 Problem Management

The municipality must have operational procedures for the management of faults/incidents in the use or implementation of ICT services that users, third parties and contractors were aware of. It must also indicate that the documented procedures must address planning and preparation, detection, initiation, evaluation containment, eradication, response, recovery, closure post-incident.

Incidents must be tracked to identify trends and underlying causes of operational failures with the view to long term solutions.

The municipality needs to have emergency response process for dealing with serious incidents. The process includes:

- a) definition of an emergency or incident
- b) detailed description of roles and responsibilities
- c) defined response process allowing critical decision to be made quickly
- d) defined steps to be taken in emergency situations
- e) contact details for all key personnel

The municipality should enforce good practices in the management of problems/incidents. Management should ensure that they harmonise the discord that currently exist between procedures and processes.

14 Assets Management

The municipalities must have internal controls over the management of information assets appeared satisfactory. The municipality must keep an asset register, which requisite to be updated regularly and when changes occur. The asset register held important information about each asset such as asset owner, asset location, and date of acquisition. The municipality should protect the asset register from unauthorized changes by limiting access rights.

The server room must be equipped with an air conditioner, UPS and smoke detectors to protect it from environmental hazards such as flooding, fire and power outages. The municipality should continue enforcing good practices regarding physical security and environment controls.

15 Business Continuity Management

The security management of the Municipality should ensure that the information risk assessment is conducted to inform the municipality Business Continuity Plan and ICT Disaster Recovery Plan:

- a) The starting point should be an understanding of critical business process,
- b) Followed by the identification and an inventory of the information assets that support these processes.
- c) Thirdly, identification of possible security threats against each asset and the impact it might have on business.
- d) Lastly, the municipality should put together a control mechanism that will minimize the impact of the threat should it materialize.

16 ICT Governance Framework Decision Making Process

While the MM/Director: SSD/Manager: ICT remains solely accountable to both customers and **stakeholders** for all ICT direction, policy and strategy on an executive level, the Langeberg Municipal ICT Governance Framework reflects the changes in roles and responsibilities brought on by consolidation and adopts strategies to ensure customer business leadership participation and buy-In.

- a) The ICT Steering Committee, incorporated into the Business Continuity Committee, will serve as the most diverse governance body both in representation (including organisational leadership and employee representation) and in scope of advice and consultation.

The MM/Director: SSD/Manager: ICT will maintain a flexible governance process, particularly in the areas of vision and planning and the formation of additional formal or informal groups in a fashion that improves the decision-making process and the outcomes for the Municipality's ICT.

16.1 Decision Rights

Critical components of an ICT governance framework are the clear definition of decision rights and a process by which decisions are made. A framework outlines the roles and relationships amongst these groups.

Langeberg Municipality's ICT Governance Framework utilizes the Responsibility Assignment Matrix to define decision rights. Roles in this decision-making framework, commonly referred to as RACI Matrix, fall into one of four distinct categories: Responsible (R), Accountable (A), Consulted (C), or Informed (I).

- a) **Responsible:** Those that do the work to fulfill the deliverables. A Responsible person or persons get their authority from the individual that is accountable. In Langeberg Municipality's ICT Governance Framework, the MM/Director: SSD/Manager :ICT delegates responsibility to the teams in this framework.
- b) **Accountable:** The **one** person that has ultimate decision-making authority and is answerable for the correct and thorough completion of deliverables. This person can delegate responsibility for completion of the deliverables to others but remains accountable. In Langeberg Municipality's ICT Governance Framework, the MM/Director: SSD/Manager: ICT is solely accountable to both customers and stakeholders for all ICT decisions and activities in the in the Langeberg Municipal Area.
- c) **Consulted:** Those whose opinions are sought, typically subject matter experts and advisors. There is two-way communication between individuals that are consulted and those responsible.
- d) **Informed:** Those that are kept up to date on progress, often only on completion of the deliverables.

16.2 Roles and Responsibility Categories

Functional Level	Designation
Strategic	Municipal Manager, Director: SSD and Manager: ICT
Tactical	Director: SSD
	Internal Audit
Operational	Business Process Owner

16.3 Vision, Planning and Operations Governance

According to Chapter 5 of the King III code of good governance, focusing specifically on ICT, the table below recommends best practices for each category.

Principles	Recommended Practice
The Business Continuity Committee should be responsible for ICT (ICT) governance.	- The Business Continuity Committee should assume the responsibility for the governance of ICT and place it on the Business Continuity Committee agenda. - The Business Continuity Committee should ensure that an ICT Charter and Policies are established and implemented. - The Business Continuity Committee should ensure promotion of an ethical governance culture and awareness and of a common ICT Language. - The Business Continuity Committee should ensure that an ICT internal control framework is adopted and implemented. - The Steering Committee should receive independent assurance of the effectiveness of the ICT internal controls
ICT should be aligned with the performance and sustainability objectives of the Municipality.	- The Business Continuity Committee should ensure that the ICT Strategy is integrated with the company's strategic and business processes. - The Business Continuity Committee should ensure that there is a process in place to identify and exploit opportunities to improve the performance and sustainability of the company through the use of ICT.
The Accounting Officer should delegate to management the responsibility for the implementation of an ICT Governance Framework.	- Management should be responsible for the implementation of the structures, processes, and mechanisms for the ICT Governance framework. - The Accounting Officer may appoint a Business Continuity Committee of similar function to assist with its governance of ICT. - The Accounting Officer should appoint Director: SSD/Manager: ICT responsible for the management of ICT. - The Director: SSD/Manager: ICT should be a suitably qualified and experienced person who should have access and interact regularly on strategic ICT matters.
The Business Continuity Committee should monitor and evaluate significant investments and expenditure.	The Business Continuity Committee should oversee the value delivery of ICT and monitor the return on investment from significant ICT projects.
	- The Business Continuity Committee should ensure that intellectual property contained in information systems is protected. - The Business Continuity Committee should obtain independent assurance on the ICT governance and controls supporting outsourced ICT services.

ICT Should form an integral part of the Municipality's risk management.	• Management should regularly demonstrate to the Business Continuity Committee that the company has adequate business resilience arrangements in place for disaster recovery. • The Steering Committee should ensure that the Municipality complies with ICT laws and that ICT related rules, codes and standards are considered
The Business Continuity Committee should ensure that information assets are managed effectively.	• The Business Continuity Committee should ensure that there are systems in place for the management of information which should include information security, information management and information privacy. • The Business Continuity Committee should ensure that all personal information is treated by the company as an important business asset and is identified. • The Business Continuity Committee should ensure that an Information Security Management System (based on the ISO/IEC 27002 standards of plan, do, check and act approach) is developed and implemented. • The Business Continuity Committee should approve the information security strategy and delegate and empower management to implement the strategy.
A Fraud and Risk Management Committee (FARMCO) and Audit and Performance Committee (APC) should assist the Business Continuity Committee in carrying out its ICT responsibilities.	• The FARMCO should ensure that ICT Risks are adequately addressed. • The FARMCO should obtain appropriate assurance that controls are in place and effective in addressing ICT risks. • The APC should consider ICT as it relates to financial reporting and the going concern of the company. • The APC should consider the use of technology to improve audit coverage and efficiency.

16.4 Defined Processes

The ICT Steering Committee, incorporated into the Business Continuity Committee, was established to provide advice to the MM/Director: SSD/Manager :ICT. The ICT Steering Committee serves the MM/Director: SSD/Manager: ICT in a consultative capacity. The committee is required to advise the MM/Director: SSD/Manager: ICT on a broad array of topics including, but not limited to:

- a) Development and implementation of the municipal ICT strategic plan
- b) Critical ICT initiatives for the municipality
- c) Standards for municipal Information Architecture
- d) Identification of business and technical needs of municipal departments
- e) Strategic ICT portfolio management, project prioritization and investment decisions
- f) Municipal ICT performance measures and fees for service agreements

- g) Management of the municipal ICT budget
- h) The efficient and effective operation of the office

The ICT Steering committee, incorporated into the Business Continuity Committee, meetings and agenda are managed by the office of the MM/Director: SSD/Manager: ICT. To fulfill its diverse statutory responsibilities, the ICT Steering committee will conduct ongoing meetings to gain an understanding of and provide insight into key technology decisions. Agendas for ICT steering committee meetings will include regular reports on governing activity and decision points as well as significant management decisions that do not flow through governance, such as budgeting and rate setting of ICT Services.

16.5 Business Continuity Committee

The purpose of the ICT Steering Committee, incorporated into the Business Continuity Committee (BCC) is, as a group responsible for providing executive leadership in the development of standards, policies, and the prioritization of various initiatives.

The Executive Business Continuity Committee (BCC) will provide a stabilizing influence so organisational concepts and directions are established and maintained with a visionary view. The BCC provides direction on long-term strategies in support of the Municipality's mandates and business vision. Members of the BCC ensure that the Municipality's Information Technology needs and objectives are being adequately addressed.



16.6 Business Continuity Committee Responsibilities

The Business Continuity Committee is responsible in for:

- a) The responsibilities of this committee will focus and be attended to as follows:
- b) Ensuring clear scope and Terms of Reference.
- c) Providing necessary resources to achieve desired outcomes.
- d) Conflict resolution.
- e) Risk management.
- f) Ensuring the committee achieves pre-defined objectives/targets.
- g) Service Level Agreement oversight and performance management.

16.7 Business Continuity Committee Membership

It is critically important to have key stakeholders involved on the Business Continuity Committee (BCC). These stakeholders are representatives from both the business as well as ICT. It is recommended the BCC comprises of the following persons or representatives thereof:

- a) Municipal Manager – Business Continuity Committee Chairperson
- b) Director: Financial Services (CFO)
- c) Director: Strategy & Social Development
- d) Director: Community Services
- e) Director: Corporate Services
- f) Director: Engineering Services
- g) Chief Audit Executive – Business Continuity Committee Administrator
- h) Chief Fire Officer – Business Continuity Committee Operational Command Coordinator
- i) Manager: ICT
- j) Risk Champions – Manager: Expenditure, Manager: IDP, Performance Management, and communications, Manager: Electrical Services, Manager: Community Facilities, and Manager: Law Enforcement.

The SLA assessment function of the BCC is managed through a Special Business Continuity Committee meeting to formulate a report. The Special BCC is recommended to comprise of the following persons or representatives:

- a) Director: Strategy & Social Development – Chairperson
- b) Director: Financial Services (CFO)
- c) Chief Audit Executive
- d) Manager: ICT
- e) ICT-related Service Providers

16.8 Frequency and Scheduling Meetings

Quarterly

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17 Endorsement

The Municipal Manager / Accounting Officer by virtue of his signature hereby ENDORSE this policy.

The Mayor / Speaker by virtue of his signature, on behalf of the Council of Langeberg Municipality and after presentation of this policy before Council hereby APPROVE this policy.

Reviewed by:

March 2024

MR B BAKACO

DATE

Manager: ICT

18 Document History

Effective Date: **March 2022**

Revision History			
Revision	Date	Description of changes	Requested By
Council	March 2020	Project management principles and processes for IT benefits realisation.	Zaine Prins As per Action Plan of 2018/2019 External Audit Findings
Council	March 2022	King IV: Technology and information governance	Zaine Prins
Council	March 2023	Compliance to POPI Act , Cybercrime Act and Personal Devices (BYOD) Sections: 2 4.1 14.5	Zaine Prins As per Audit Action Plan in Internal Audit Findings: Strategy & Social Development Internal Audit Findings on 2021/22 Audit on Cybercrime (Report reference: 6441)
Council	March 2024	Section 2: Inclusion of Purpose of the CGICT Framework. Section 4: Provision of synergy between the CGICT and the Langeberg Municipality strategic layer of Governance. Section 16: Modify the roles and responsibilities of the ICT Steering Committee. Whole document: Refer to Director: SSD and Manager: ICT instead of generic 'Director' and Senior Network Administrator.	Manager: ICT, to set the tone of the Policy document to the reader. Manager: ICT, as per the DPSA CGICT Framework Guidelines. Manager: ICT, as per the SALGA Municipal ICT Governance Guidelines. Manager: ICT, as per Organizational delegation authority and the appointment of a Manager: ICT.