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# 2.0 GOVERNANCE

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Governance is the set of the organizational structure, policies, and processes by which the State selects business transformation and IT/IRM investments to ensure that strategic objectives are met efficiently and effectively, while controlling risk. ISACA, an international professional association that deals with IT Governance, defines governance as the practice that:

“...ensures that stakeholder needs, conditions and options are evaluated to determine balanced, agreed-on enterprise objectives to be achieved; setting direction through prioritization and decision making; and monitoring performance and compliance against agreed-on direction and objectives.”<sup>1</sup>

ISACA’s governance framework, the recently-published COBIT® 5, represents the current best practice in IT governance, and will serve as a model for the State of Hawai‘i’s governance approach.

One of the key principles of COBIT® 5 is the separation of governance and management. In short, management is about doing things right; governance is about doing the right things. Both are critical to the success of the enterprise. Sections 2-5 of this document is focused on governance; Sections 6-8 focus on management.

How, then, do we make sure we are “doing the right things”? Governance involves three main areas: the governance structure, which is the set of decision-making bodies that select the investments the enterprise will make in business transformation and IT/IRM; the policies that provide guidance on standards those investments must meet; and the process of initiating, selecting, funding, and overseeing the investments. Each of these is described in the following sections. The remainder of this section will establish some of the concepts that tie these three facets together into an integrated whole.

Before we can understand if we are doing the right things, we need to know what the right things are. What tells us what those things are? It depends on the scale and the scope we are looking at. In the broadest sense, what we do is defined by the *State of Hawai‘i Strategic Plan* (currently under development). The *State Strategic Plan* establishes the mission, vision, goals, objectives, and performance metrics for the state government as a whole. It defines the outcomes that Hawai‘i’s taxpayers’ dollars are supposed to produce in terms of health, education, transportation, social services, etc. The operations of the government—State employees, organizations, business processes, and information technology—are how these outcomes are achieved. We can go one step further and say that at the very top level why these are the desired outcomes is what the voters have demanded.

Moving down a level, we can re-establish the State government’s operations as the what at the new scale. This set of goals and objectives are captured in the *State of Hawai‘i Business and IT/IRM Strategic Plan*. It is that Plan that will guide the governance structure in ensuring we are “doing the right things.” The how at this level is now the individual programs that are

funded and executed by the various Departments and attached agencies. Here, the why can be thought of as “because these are the things we need to do to meet the State’s strategic goals.”

Thus, the governance we are talking about is not about ensuring the state government as a whole is doing the right things—that is up to the Governor, the Legislature, and other elected and appointed officials in response to the desires of the people. What this governance is focused on is “are we doing the right things to support the established *Business and IT/IRM Transformation Strategic Plan*?” The “we” in this case are the CIO, the Department Directors, and the Departmental IT leads.

To make this determination, we need to establish the concept of an investment. An investment, in terms of governance, is simply a package of funding whose purpose is to improve the performance of the enterprise. We make the decision to fund an investment because we believe that it will improve the efficiency and/or effectiveness of our efforts to achieve our goals and objectives. Funding is provided to State agencies from the Legislature via programs. A program is a combination of people, processes, and technologies that are collectively designed to produce certain outcomes. For example, the objective of the Tourism program (BED 113) is “to achieve a strong and sustainable tourism industry that values and perpetuates Hawai‘i’s natural and cultural resources, honors Hawai‘i’s people and heritage, and supports a vital economy.” The objective of the School Community Services program (EDN 500) is “to provide lifelong learning opportunities for adults and to meet other community needs of the general public.”

Programs encompass leases, operating expenses (including personnel, equipment, other expenses), and capital improvements. An investment, for the purposes of this governance process, is that subset of a program’s funding that is intended for business transformation or IT/IRM. A single program can have multiple investments, and it will also likely have spending that is not covered by an investment, as we use the term. Similarly, a given investment may actually be funded by multiple programs. The goal here is to supplement the State’s program structure with a parallel structure that enables governance of business transformation and IT/IRM investments without changing the established budget process.

An investment has been established for each existing State program to capture all the information technology that program has purchased and which remains in use. These legacy investments form the foundation of the portfolio of investments established for each Line of Business (LOB) and managed by the Portfolio Executive. (For an explanation of LOB, see “ENTERPRISE ARCHITECTURE METHODOLOGY;” for a description of portfolio management, see “Portfolio Management”).

Investments can be short-term pilots, or they can persist over years. They comprise hardware, software, services, and other resources (government full-time employees [FTEs], leased space, etc.). An investment typically has a business process analysis/reengineering and/or a requirements-gathering project in the early stages, and then a system development or acquisition stage.

## 2.1 ENTERPRISE INVESTMENT LIFE CYCLE (EILC)

Government agencies continually assess current performance, identify opportunities for performance improvement, and translate opportunities into specific actions. Key to the effectiveness of governance is the concept of life cycle management. That is, establishing and maintaining visibility into an investment from its conception to its ultimate retirement. Governance that focuses only on the procurement of IT systems is less than optimal, because it would allow, for example, the automation of an obsolete process. Life cycle governance, on the other hand, looks at the entire value chain and requires business process analysis and potential reengineering before buying or building an IT system to support it. This is called the Enterprise Investment Life Cycle (EILC).

The EILC can be thought of as a superposition of several commonly-recognized life cycle models, including the IT Investment Life Cycle (Select, Control, Evaluate) and the Performance Improvement Life Cycle (Architect, Invest, Implement) used by the Federal Government, the Project Management Methodology as defined by the Project Management Institute® and adopted by OIMT, and the System Development Life Cycle (SDLC). The integration and coordination of these interrelated functions into a holistic life cycle (Figure 2) minimizes redundant efforts, stakeholder burden, cost, and complexity and ultimately favors achievement of desired mission outcomes and business results.

IT Investment Life Cycle	OMB Performance Improvement Cycle	Project Management/ Methodology	System Development Life Cycle (SCLC)	Enterprise Investment Life Cycle (EILC)	
(Pre-Select or Analyze)	Architect	Initiation		Need/Concept	
		Planning & Design			
		Executing	Monitoring & Controlling		Definition
		Closing			
Select	Invest			Financial Planning	
				Aquisition	
Control	Implement	Initiation		Initiation	
		Planning & Design		Concept	Detailed Requirements & Design
				Planning	
				Requirements Analysis	
				Design	
		Executing	Monitoring & Controlling	Development	Development
		Closing		Test	Deployment
		Implementation			
Evaluate				Operations & Management	Operations & Maintenance
				Disposition	

At the highest level, the basic flow of EILC governance process is as follows:

