




**Mississippi Department of
Information Technology Services**

A faint, light gray background image of the Mississippi State Capitol dome, featuring a central dome with a statue on top and classical architectural details.

**Information Technology
Planning Guide
for State Agencies**

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Introduction

Information Technology (IT) has become increasingly important to the efficient and effective operation of state government. Investing scarce public resources in carefully selected IT projects offers significant benefits, including increased productivity of government workers and improved service delivery to the citizens and businesses of Mississippi. Through careful IT planning and the coordination of purchases, agencies can take advantage of sophisticated technological solutions to information processing and communications needs in a cost effective way. IT planning is a vital prerequisite to the budget process and the procurement of IT equipment, software, and services.

Why Plan?


An IT Plan is the single most important ingredient to the effective use of technology in an agency. The planning process provides a method for determining how well technology is currently meeting the business needs of an agency and helps identify technology gaps that could improve agency performance and service.

The Mississippi State Legislation requires the Mississippi Department of Information Technology Services (ITS) to obtain, review, and approve IT plans from state agencies, boards, and commissions. These plans include current and proposed IT projects as well as the associated project costs.

Once collected and reviewed, IT plan information is compiled into reports that are evaluated for possible statewide infrastructure impact and needs, procurement requests that would allow agencies to take advantage of volume purchase agreements, IT training and education opportunities, and potential consulting service requests. The information is also used to prepare the *State of Mississippi Strategic Master Plan for Information Technology (Master Plan)*. Mississippi State law requires ITS to present this report to the Governor and Legislature annually and to advise them concerning allocation of fiscal resources to best achieve statewide information resource management goals.

By following the planning process described here, agencies ensure that they help to determine the direction the state takes in adopting information technologies. This enables the agencies to be better equipped to develop their individual action plans within the *Master Plan* parameters. As technology choices become increasingly complex, it is more important than ever that state agencies and ITS plan together to strengthen the state's technology base and offer more services to government, citizens, and businesses.

How to Use This Guide

This planning methodology guide explains the basic steps that agencies should follow to perform IT planning. Throughout the guide, the  symbol specifies key information or refers to a particular worksheet or form that will assist in the planning process.

The worksheets located in Appendix A are provided as a planning tool when following this methodology, but are not required to be submitted to ITS.

The IT Planning System

The IT Planning System is a web based application, available to all Agency Planners. The URL for the system is <https://www.appsd.ms.gov/ITPlan>. Agency Planners should contact ITS for system access and training on the application.

Plans are due by September 1 of each calendar year. The ITS Planning staff is available to provide technology planning assistance and training at no cost.

The forms used in Step Five and located in Appendix B of this document are provided as an example of what is displayed in the on-line IT Planning System.

The Planning Methodology

For the purpose of agency planning, the proposed methodology can be summarized in the five steps described below. The timing of the processes is designed to coincide with the state's budgeting and funding cycle. However, the plan does not have to match budgeted dollars. Understanding realistic projections, there can be a difference between what your agency plans to do over the next three years and the amount of funding it received.

Step One - Establish an IT Planning Team

✦ Worksheet 1 entitled, "IT Long-Range Plan for Fiscal Years ____ - ____" is provided in Appendix A of this guide.

The purpose of Step One is to establish an IT planning team within each agency. The team should be a collection of people that will emphasize the alignment of IT resources with agency business strategies. IT planning is a joint activity between agency executives and IT management. If the IT organization performs IT planning without this partnership, the value of the planning process is less useful for the agency. Other suggested areas of involvement include the following:

- Senior Management - Involving a senior manager will help insure the IT Plan serves the mission and objectives of the agency and will also provide "top-down" management support for the IT Plan.
- Telecommunications and office automation - Management of data, telecommunications, and office automation technologies are relatively distinct, yet many technologies overlap. Since the planning process is intended to produce IT plans, it is important that all individuals who share responsibilities for the diverse technologies used within an agency, be coordinated and brought into the planning process.
- Remote offices and districts - Numerous agencies have remote offices throughout the state that are organizationally responsible to the main office. These remote offices may be involved in the management and use of information processing. Consequently, it is important to incorporate the remote offices' needs when preparing the IT Plan.

Suggestions for coordinating an effective IT planning team include:

- 1) Designate an IT Planner - It is recommended that a senior level individual be identified as the lead person responsible for the overall planning process as the IT Planner.
- 2) Establish a Planning Team - Members of the planning team will include the senior manager identified in Suggestion 1 as the IT Planner and the planning representatives. The planning representatives are normally middle-level managers or supervisors from

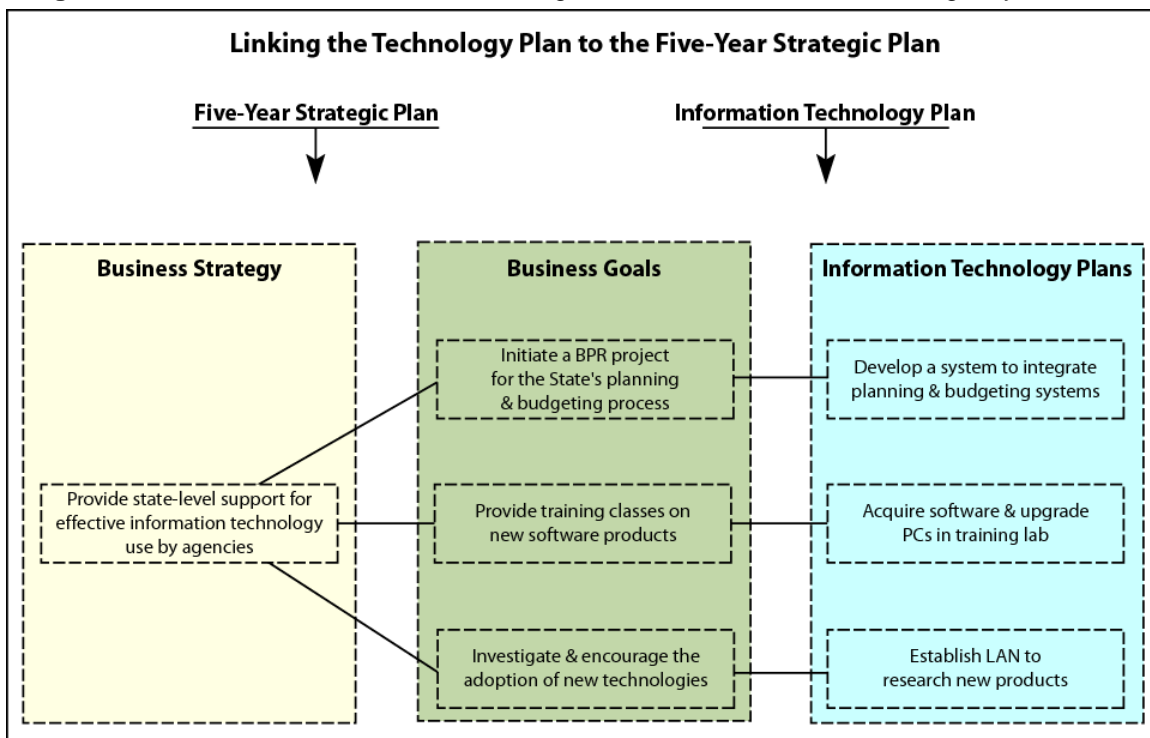
each functional area of the agency. The responsibility of detailed planning should be delegated to the planning representatives. Having a cross-section of participants adds multiple perspectives, increases commitment to decisions, spreads work assignments, and improves the final product.

- 3) Establish a Steering Committee - The steering committee should consist of key senior and middle level management, and will review and set recommended priorities on IT within the agency.

Step Two – Review Strategic Information

Once the IT Planning Team has been established, it is important to review both the agency and ITS' strategic documentation and plans for information systems within the context of the agency's mission, program objectives, goals, and strategic direction. During the planning process, it is important to remember to link the agency's business plan or Five-Year Strategic Plan and the IT Plan (The Five-Year Strategic Plan that is submitted to LBO and DFA and usually serves as the agency's business plan).

Figure 1 illustrates how the Five Year Strategic Plan should be linked to the agency's IT Plan.



- Review the Agency Business Plan - In order to utilize IT more effectively, it is essential to have a business plan in place that identifies the agency's strategic direction and related goals. Once the IT Plan is in place, the agency's IT staff can more accurately determine what technology resources will be required to help the agency realize its goals and move toward the strategic direction it has established.
- Review the Agency Mission Statement and Division Objectives - It is important to plan for information systems within the context of the agency's mission and division objectives and to define IT projects that will enable the agency to fulfill its mission more effectively.

✚ Worksheet 2 entitled, "Mission and Division Objectives," is provided in Appendix A of this guide to document the Agency Mission Statement and Division Objectives.

- Review the Agency Strategy Statement and Goals of the Agency and Divisions - Strategy statements define in general terms the agency's direction with respect to major functions or responsibilities. The goals of the agency and divisions are more specific statements directly related to a strategy statement. The goals are steps the agency will take toward achieving the strategic direction.
- Identify or define resources required to support goals - When determining the resources required supporting the agency or division's goals, include all resources required. Resources may fall into the broad categories of: personnel, capital outlay, contractual services, and/or commodities. The tendency is to underestimate the resources required. Reviewing the budget on a line-item basis should prompt the inclusion of resources that may otherwise be overlooked. It is the responsibility of the IT Planner to identify the IT resources needed to meet the strategies and goals of the agency.
- Review the *State of Mississippi Technology Infrastructure and Architecture Plan (Infrastructure and Architecture Plan)* and the *State of Mississippi Strategic Master Plan for Information Technology (Master Plan)* - The *Infrastructure and Architecture Plan* and the *Master Plan* are available on the ITS web site at <http://www.its.ms.gov/> or may be obtained by contacting an IT Planning Coordinator. Reviewing these plans will give you up-to-date information about the enterprise infrastructure that is available for all state entities to use, as well as ITS' plans to upgrade the infrastructure and the strategic technologies and strategies that ITS is researching for future enhancement of statewide offerings.
- Review Agency's Previous Year's IT Plan - It is important that you review your last year's IT Plan because some projects may carry forward into the next year and/or may need to be revised.
- Review Existing Hardware/Software Application Systems - Reviewing a complete inventory of hardware, software, and applications will often trigger the identification of projects that are needed to enhance or procure additional resources.

Step Three – Identify Opportunities for Improvement

✦ Worksheet 3 entitled, "Opportunity Areas," is provided in Appendix A of this guide.

An opportunity for the purposes of this endeavor is defined as a potential project that can increase revenue, reduce or avoid costs, and/or improve services. The opportunity areas may involve upgrading an existing system, acquiring hardware or software, or initiating a new project. Any potential project should be initially examined by asking three questions. If the answer to any one of these three questions is "yes," it may be time to look at the potential project in more detail.

- Will the potential project increase revenue either now or in the future?
- Will the potential project allow present or expected costs to be avoided?
- Will the potential project provide improved service?

In identifying such opportunities, the agency is not committing itself to a definite course of action. The opportunities identified represent the "first cut" of a non-prioritized list of potential projects.

Step Four – Establish Priorities for Projects

✦ Worksheet 4 entitled, "Project Priorities," is provided in Appendix A of this guide.

Understanding the priorities of the agency's projects is important in order to justify the project, develop an implementation schedule for the project, and to develop contingency plans in case

of change. These priorities represent management's preferences and the direction management would take with a project if there were no constraints or none of the contingencies occurred.

Management considerations used in determining project priorities include:

- How important is this project to the mission of the agency?
- What priority is this project given by executive management?
- What is the value of this project to the agency based on the cost-benefit ratio?

The Project Priorities form is used to develop an initial list of projects for consideration. Obviously a number of factors may cause projects to be added to or taken away from this list as the plan continues to be refined.

Suggestions for prioritizing projects:

- List the projects without regard to sequence
- Identify the priority rating for each project
- Rate each project numerically

By redrafting this list on the Project Priorities Form in order of priority, the basic outline is developed to begin Step Five, the actual development of the Agency IT Plan.

Step Five – Prepare the Agency IT Plan

- ✦ The IT Planning System is a web based application available to agencies for easy input, maintenance, and submission of IT Plans. All forms in Step Five are available through the application and data should be entered electronically unless otherwise advised by ITS. The ITS Planning Staff is available for training and consulting at no charge.
1. Prepare an Agency IT Project Form for each in progress, new, or planned project. The Agency IT Project Form should include basic information on the scope of the project as well as the resources and costs required for the implementation and/or maintenance of the project. Understanding the costs associated with the project will help the agency decide whether the costs are justified and if the project has been thoroughly planned. Listed also on the form is a series of questions that should be reviewed and answered for each project. Due to browser limitations, the system will timeout on long entries, so it is best to enter the project in "Draft" status and press "Save" often. Upon completion of the form, the project should be saved as "Active" in order for it to be considered part of the IT Plan.
 - ✦ Form 2 entitled, "Agency IT Project Form," is provided as an example in Appendix B of this guide.
 2. Prepare a separate Agency IT Ongoing Operating Costs Form that reflects the ongoing operating costs for all recurring IT costs that are not related to a specific project. This form will typically be used to reflect fixed costs to which the agency has already committed, such as, lease-purchase obligations, maintenance contracts, and State Data Center charges. There must be at least one "Ongoing Operating Costs" entry.
 - ✦ Form 3 entitled, "Agency IT Ongoing Operating Costs Form," is provided as an example in Appendix B of this guide.
 3. Agency Review and Approval of the IT Plan. The IT Plan should be reviewed and approved by the agency executive director or commissioner once all data has been entered into the system. Print the Approval Cover Sheet and obtain the agency executive director or commissioner's signature on the form.

4. Electronically submit the IT Plan to ITS via the on-line IT Planning System and send an electronic copy or mail the signed approval form to the following address:

Mississippi Department of Information Technology Services
Attn: Debra Brown
3771 Eastwood Drive
Jackson, MS 39211

Information Technology Services Contact Information

ITS Website <http://www.its.ms.gov/>

Debra Brown

IT Planning Coordinator

Phone (601) 432-8128

Fax (601) 713-6380

E-mail debra.brown@its.ms.gov

Appendix A

Worksheet 1 – IT Long-Range Plan for Fiscal Years

_____ - _____

Agency Name	IT Planner
Address	Title
Date	Phone
Planning Team Members	Area of Responsibility
Steering Committee Members	Area of Responsibility

Worksheet 2 - Mission and Division Objectives

Please provide the agency mission statement below.

Please summarize each division's basic objective below.

Worksheet 3 - Opportunity Areas

Please list and describe the agency opportunities.

Worksheet 4 - Project Priorities

Project Name	Priority Rating	Cost-Benefit Ratio

Appendix B

Form 1 - Agency IT Planning Cover Sheet for Fiscal Years ____ – ____

Agency Name	IT Planner
Address	Title
Date Prepared	Phone
Date Submitted	E-Mail Address
Additional Information	

Approved By: _____

Date: _____

Form 2 - Agency IT Project Form

Agency/Commission/Board Name	Project Name
Agency Project ID (option) - _____	ITS Project ID: (ITS Assigned) _____
Fund Number (optional) - _____	Project Status <input type="text" value="Active"/>
Start Date (mm/dd/yyyy) <input type="text"/>	Project Created (mm/dd/yyyy) <input type="text"/>
Completion Date (mm/dd/yyyy) <input type="text"/>	Last Modified (mm/dd/yyyy) <input type="text"/>
Contact Name: _____	Phone: _____
	E-Mail: _____

*** Required to save as an active project.**

1. * Briefly describe the business need driving this project and provide details on the proposed solution.

2. * Briefly identify any potential savings and/or anticipated benefits related to this project.

3. Progress to Date: What has been done related to this project, including a communications with ITS staff (Data/Telecom/Procurement/Planning/Other)?

4. If this is an existing project, please identify all vendors and/or contractors.

5. * Do you anticipate initiating procurement on the project in the current fiscal year? (click one) Yes No

6. * Is this project funded, in whole or in part, by American Recovery and Reinvestment Act (ARRA) funds? Yes No

7.* Identify all funding sources and percentages for this project. Funding should total 100%. Please select at least one funding source.

Federal	<input type="text"/>
General	<input type="text"/>
Special	<input type="text"/>
Grant	<input type="text"/>
Bond	<input type="text"/>
Total	100

8. If applicable, please describe the proposed software/hardware platforms and infrastructure for this project, including utilization of the State Data Center resources.

Please note: When initiating procurement, justification will be required for equipment or application hosting outside the State Data Center. For more information, please reference the *State of Mississippi Technology Infrastructure and Architecture Plan*.

9.* Does this project conform to the State of Mississippi Security Policy? Yes No

10.* Will this application interface with any other entity?
If YES, identify the entity or entities.

- Yes No
- State Agency
 - Federal Government
 - Private Sector
 - Undecided

11.* Is this a Bureau of Buildings Project? Yes No
If YES, provide the GS Number assigned by Bureau of Buildings. GS# - _____

Agency Notes (optional)

<i>Reference Minor Object Codes to match descriptions</i>	FY 201__ (Current)	FY 201__ (Budgeted)	FY 201__ (Next)	Project Details (Optional)
Contractual				
Private Sector/Vendor IS Fees	\$	\$	\$	
ITS - Consulting	\$	\$	\$	
Software Acquisition / Maint / Licensing Fee	\$	\$	\$	
ITS - Network	\$	\$	\$	
ITS - Data Center	\$	\$	\$	
Hardware Repair / Maint of IS Equipment	\$	\$	\$	
ITS - Training / Education	\$	\$	\$	
Other Training / Education	\$	\$	\$	
IS Related Rentals	\$	\$	\$	
Telecommunications	\$	\$	\$	
Other Contractual Fees	\$	\$	\$	
Contractual SubTotals	\$	\$	\$	
Capital Outlay				
Computer Equip / Hardware	\$	\$	\$	
Telecom Equipment	\$	\$	\$	
Lease Purchase				
Computer Equip / Hardware	\$	\$	\$	
Telecom Equipment	\$	\$	\$	
Interest on Lease Purchase	\$	\$	\$	
Capital Outlay Subtotals	\$	\$	\$	
TOTALS	\$	\$	\$	

Please include and list any attachments that may be needed to process your request.

Attachments:

Form 3 - Agency IT Ongoing Operating Costs Form

Agency/Commission/Board Name <hr/>	Project Name <u>Ongoing Operating Costs</u>
Contact Name: <hr/>	Project Status Active
Phone: _____	Last Modified (mm/dd/yyyy) System Set
E-Mail: _____	

1. Does your agency have a current agency-specific IT Security Policy? Yes No
2. When was your agency's most recent third-party IT Security Assessment? ___/___/___
3. Who is your agency's designated IT Security Officer? _____
4. Has your agency implemented a Security Awareness Program? Yes No
5. Does your agency have a current agency-specific IT Security Plan? Yes No
6. Does your agency have a current IT Disaster Recovery and/or Business Continuity Plan in place? Yes No
7. What was the date of your agency's most recent IT Disaster Recovery test? ___/___/___

Agency Notes (optional)

<i>Reference Minor Object Codes to match descriptions</i>	FY 201__ (Current)	FY 201__ (Budgeted)	FY 201__ (Next)	Project Details (Optional)
Contractual				
Private Sector/Vendor IS Fees	\$	\$	\$	
ITS - Consulting	\$	\$	\$	
Software Acquisition / Maint / Licensing Fee	\$	\$	\$	
ITS - Network	\$	\$	\$	
ITS - Data Center	\$	\$	\$	
Hardware Repair / Maint of IS Equipment	\$	\$	\$	
ITS - Training / Education	\$	\$	\$	
Other Training / Education	\$	\$	\$	
IS Related Rentals	\$	\$	\$	
Telecommunications	\$	\$	\$	
Other Contractual Fees	\$	\$	\$	
Contractual SubTotals	\$	\$	\$	
Capital Outlay				

Computer Equip / Hardware	\$	\$	\$	
Telecom Equipment	\$	\$	\$	
Lease Purchase				
Computer Equip / Hardware	\$	\$	\$	
Telecom Equipment	\$	\$	\$	
Interest on Lease Purchase	\$	\$	\$	
Capital Outlay Subtotals	\$	\$	\$	
TOTALS	\$	\$	\$	

Please include and list any attachments that may be needed to process your request.

Attachments: