

# INFORMATION TECHNOLOGY PLANNING METHODOLOGY 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 communication 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 help to determine the direction the state takes in adopting information technologies. This in turn 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.

# The TechPlan System

The TechPlan system is a web based application, available to all Agency Planners. The URL for the system is <https://techplan.its.ms.gov/Pages/Login.aspx>. Agency Planners should contact ITS for system access and training.

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

The screen shots located in the Appendix of this document are provided as an example of what is displayed in the on-line TechPlan planning system. It would be beneficial to become familiar with the overall look and feel of the system before accessing it online.

## 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

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 should be 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:

- 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.
- Establish a Planning Team - Members of the planning team should 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

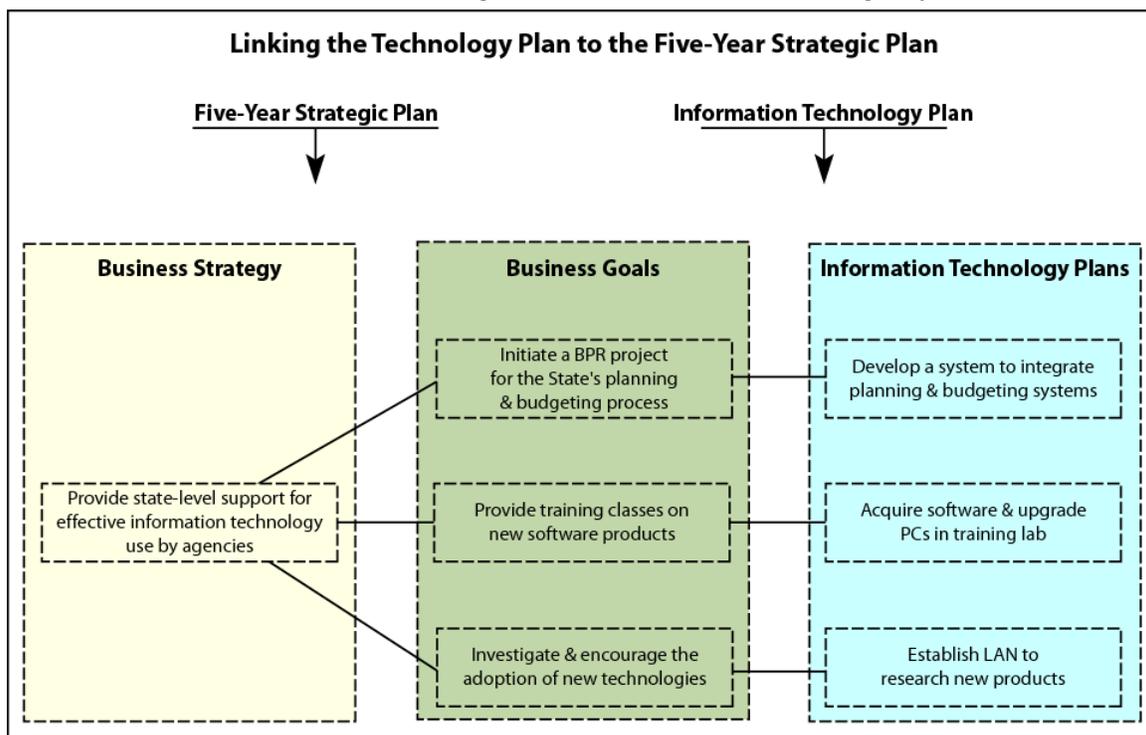
of the agency. The responsibility of detailed planning should be delegated to the planning representatives. Having a cross-section of participants adds multiple perspectives, increases commitment to decisions, spreads work assignments, and improves the final product.

- 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.

- ❖ Review the Agency’s Strategy Statement and Goals of the Agency and its 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 - Include **all** resources required to support the agency’s and division’s goal. 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

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

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?

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

## Step Five – Prepare the Agency IT Plan

The TechPlan system is a web-based application available to agencies for easy input, maintenance, and submission of IT Plans. The ITS Planning Staff is available for training and consulting at no charge.

- ❖ Review the Agency's "Contact Information" to verify the correct staff members have access to the TechPlan and that ITS has the correct email address and phone number for each contact.

**Select "Agency and Contact Information Verified" to complete this step.**

- ❖ Prepare a Project for each in-progress, new, or planned project. The Project should include basic information of the scope 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 was thoroughly planned.
- ❖ Prepare an additional Project for IT Ongoing Operating Costs that captures the ongoing expenditures for all recurring IT costs that are not related to a specific project. This will typically be used to reflect fixed costs to which the agency has already committed, such as, lease-purchase obligations, maintenance contracts, and licensing fees.

**Select the Projects to be reviewed by ITS when the IT Plan is submitted.**

❖ Complete the “Additional Reporting” section of the IT Plan. The information required in this section includes:

- The IT Contractual and Capital Outlay totals from the Agency’s LBO Budget Request forms
- Agency IT Security status and Security Contact information
- Agency Disaster Recovery/Business Continuity status

**Select “Additional Information Complete” to complete this section.**

❖ Electronically submit the IT Plan to ITS.

All Steps in the TechPlan must be Complete before submitting the IT Plan to ITS for review.

**Select “Submit Plan” to finalize the submission of your agency’s IT Plan.**

# Appendix

## TechPlan Screen Shots 1 – Home and Contact Information

Test Agency  
FY 2019

Home / Contact Information / Projects / Additional Reporting

Plan Status: **Draft**

Steps	Status
1 Contact Information	Complete
2 Projects	Incomplete
3 Additional Reporting	Incomplete
4 Submit Plan	

Home / **Contact Information** / Projects / Additional Reporting

Step 1 - Review the Agency and Contacts information for accuracy and select Verified when complete. Send updates to ITS using the Request Changes option below.

**Agency**

Agency Name: Test Agency  
 Division:   
 Address Line 1: 123 Main St  
 City: Hometown  
 Zip: 39208

MAGIC Customer Number:   
 Agency Contact Email: kevin.gray@its.ms.gov  
 Address Line 2:   
 State: Mississippi

**Contacts**

Contact	Phone	Email	Type
Kevin Gray	(601) 910-5910	kevin.gray@its.ms.gov	IT Administrator

Agency and Contact Information Verified

[Request Changes](#)

[Home](#) [Step 2](#)

## TechPlan Screen Shots 2 – Projects and Project Title

Home / Contact Information / **Projects** / Additional Reporting

Step 2 - Select +New Project to create a new project or select Previous Projects to copy a project from a previous plan year. Only selected projects will be submitted with your overall fiscal year plan. Once the desired projects to be included in your plan have been reviewed and selected, check the box at the bottom of the page to indicate that all projects are ready for plan submission regardless of their individual project status.

Filter Results:  + New Project

Selected projects are ready to submit

Previous Projects

← Step 1

Step 3 →

Project Title / Details / Funding / Line Items / Attachments / Summary

Project Title - Provide a descriptive name for the project. The Agency Project Tag is an optional field and may be used for agency assigned numbering or categorizing. The Fund Number, Start Date, and Completion Date fields are also optional. New projects are created and assigned an ITS Project ID upon completion of this page.

<b>Project Name: Required</b> <input type="text" value="Example"/>	<b>Project Status:</b> <input type="text" value="Draft"/>
<b>Agency Project Tag:</b> <input type="text" value=" &lt; 45 characters"/>	<b>ITS Project ID:</b> <input type="text" value="Assigned by ITS"/>
<b>Fund Number:</b> <input type="text"/>	<b>Project Created:</b> <input type="text"/>
<b>Start Date:</b> <input type="text"/>	<b>Last Modified By:</b> <input type="text"/>
<b>Completion Date:</b> <input type="text"/>	<b>Contact:</b> <input type="text" value="Select a contact..."/>
<b>Phone:</b> <input type="text"/>	<b>Email:</b> <input type="text"/>

Projects Next →

Save & Close

# TechPlan Screen Shots 3 – Details

[Project Title](#) / [Details](#) / [Funding](#) / [Line Items](#) / [Attachments](#) / [Summary](#)

**Example**

**Project Details** - Provide details as indicated in the fields below. Additional information may be added in the Agency Comments field at the bottom of the screen. You may attach Word, Excel, and pdf files in the Attachments section of the project.

Briefly describe the business need driving this project and provide details on the proposed solution:

Briefly identify any potential savings and/or anticipated benefits related to this project:

Progress to Date:

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

Do you anticipate initiating a procurement on the project in the current fiscal year?  Yes  No

Is this a Bureau of Buildings Project?  Yes  No

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

Will this application interface with any other entity?  Yes  No

Will this project require security needs such as a Security Incident and Event Management (SIEM) or log management solution?  Yes  No

Will this project require new or upgraded data circuits at your location?  Yes  No

Is this project currently (or will it be) housed in the State Data Center?  Yes  No

Agency Comments:

[←Previous](#)

[Next→](#)

[Save & Close](#)

# TechPlan Screen Shots 4 – Funding and Line Items

Project Title / Details / **Funding** / Line Items / Attachments / Summary

Example

**Project Funding** - Provide the source of funds by percentage in whole numbers only. All sources must total 100%. All other fields are optional and may be used by the agency for reference.

**Federal**

**General**

**Special**

**Grant**

**Bond**

**Total**

[←Previous](#) [Next→](#)

[Save & Close](#)

Project Title / Details / Funding / **Line Items** / Attachments / Summary

Example

**Project Line Items** - Enter new line items by selecting the +New Line Item option. View existing line items by selecting the category option to expand view. Edit the line item by selecting the edit pencil or the item's name. View all line items by selecting overview.

[+ New Line Item](#)

↓ Contractual 0

↓ Capital Outlay 0

↓ Commodities 0

↓ Overview

[←Previous](#) [Next→](#)

## TechPlan Screen Shots 5 - New Line Item and Attachments

The screenshot shows a modal window titled "Add a New Line Item" overlaid on a background page. The modal contains the following fields and controls:

- Line Item Name:** A text input field with a red border.
- Category:** A dropdown menu with the text "Select a Category".
- Sub-Category:** A dropdown menu.
- G/L Code:** A text input field.
- Description (optional):** A text input field.
- NIGP Code:** A text input field.
- Comments:** A larger text input area.
- Buttons:** "Cancel" (red) and "Save" (green) buttons at the bottom.
- Background Page:** Shows a breadcrumb "Home > Projects", a "Project Line Items" section with a "+ New Line Item" button, and a list of categories: "Contractual 0", "Capital Outlay 0", "Commodities 0", and "Overview".

The screenshot shows the "Attachments" page in the TechPlan system. The breadcrumb trail is "Project Title / Details / Funding / Line Items / Attachments / Summary".

**Example**

Project Attachments -Word, Excel, or pdf files may be attached to this project by selecting the + New Attachment option. Available attachments may be opened by selecting the Download box beside the file name and choosing the Download button under the list. Attachments may be deleted by selecting the x beside the filename.

At the bottom right, there is a "+ New Attachment" button. At the bottom left and right, there are "←Previous" and "Next→" navigation buttons.

# TechPlan Screen Shots 6 – Summary

[Project Title](#) / [Details](#) / [Funding](#) / [Line Items](#) / [Attachments](#) / [Summary](#)

Example

### General Project Information

[Print View](#)

<b>Project Name:</b> <input type="text" value="Example"/>	<b>Project Status:</b> <input type="text" value="Draft"/>
<b>Agency Project Tag:</b> <input type="text"/>	<b>ITS Project ID:</b> <input type="text" value="196453"/>
<b>Fund Number:</b> <input type="text"/>	<b>Project Created:</b> <input type="text" value="6/4/2019 4:24:00 PM"/>
<b>Start Date:</b> <input type="text"/>	<b>Last Modified By:</b> <input type="text" value="Kevin Gray"/>
<b>Completion Date:</b> <input type="text"/>	<b>Phone:</b> <input type="text"/>
<b>Contact:</b> <input type="text" value="No assigned contact..."/>	<b>Email:</b> <input type="text"/>

Last Items Edited: Project Funding ---- 6/4/2019 4:26:16 PM

### Project Description

Briefly describe the business need driving this project and provide details on the proposed solution:

Briefly identify any potential savings and/or anticipated benefits related to this project:

### Progress to Date:

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

Do you anticipate initiating a procurement on the project in the current fiscal year?	<input type="radio"/> Yes <input type="radio"/> No
Is this a Bureau of Buildings Project?	<input type="radio"/> Yes <input type="radio"/> No
Does this project conform to the State of Mississippi Security Policy?	<input type="radio"/> Yes <input type="radio"/> No
Will this application interface with any other entity?	<input type="radio"/> Yes <input type="radio"/> No
Will this project require security needs such as a Security Incident and Event Management (SIEM) or log management solution?	<input type="radio"/> Yes <input type="radio"/> No
Will this project require new or upgraded data circuits at your location?	<input type="radio"/> Yes <input type="radio"/> No
Is this project currently (or will it be) housed in the State Data Center?	<input type="radio"/> Yes <input type="radio"/> No

# TechPlan Screen Shots 7 – Summary (Continued)

**Agency Comments**

**Project Funding**

**Federal**

**General**

**Special**

**Grant**

**Bond**

**Total**

**Project Budget**

<b>Project Totals by Year:</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
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**Project Attachments**