

# IT Strategic Planning Discover Playbook, Part I

Tools, Templates, and Guidelines to Conduct Your IT Environmental Scan and SWOT Analysis



## How to Use This Playbook

## EAB Center of Excellence: IT Strategic Planning

### Plug-and-Play Resources to Guide Your IT Strategic Planning Process

This Center of Excellence includes coverage of the IT strategic planning process with basic guidelines, workshops, templates, and diagnostic tools to educate peers and stakeholders, as well as advanced practices effective at higher education institutions. It also offers guidance and support to replicate those practices on your campus.

### IT Strategic Planning Discover Playbook, Part I

This playbook has resources to help with IT environmental scanning and SWOT analysis, part of the **Discover** phase of IT strategic planning. The purpose of environmental scanning is to assess what is happening in the IT organization, the institution, and the broader market that has strategic implications for the institution. The scan identifies strengths, weaknesses, opportunities and threats, summarized in the SWOT analysis, that IT needs to address in its strategic plan.

For complementary Discover activities that rely on outputs from this playbook, see the related <u>IT Strategic Planning Discover</u> <u>Playbook, Part II</u>. Process steps and tools are numbered consecutively in the two Discover playbooks.

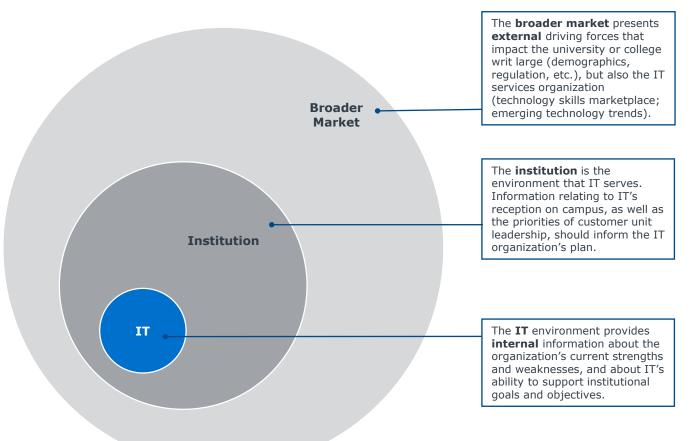


## **Environmental Scanning: Multiple Perspectives for Higher Education IT**

Environmental scanning establishes the context for IT strategic planning. Involved parties gather intelligence relating to the IT organization and the wider world within which it operates. This activity identifies strengths, weaknesses, opportunities and threats (SWOT) which become inputs into the next phase of the IT strategic planning process: identifying IT strategic goals.

Higher education IT strategic planners should add an institutional dimension to traditional internal and external scans. The institution is both a customer to IT ("external") and the enterprise to which IT belongs ("internal"). Ultimately IT strategic planning is an exercise in determining how to serve the institution's goals.

The environmental scanning process culminates in the SWOT analysis, a summary representation of the IT organization's strengths and weaknesses, and the (institutional) opportunities and threats its efforts address. Higher Education Realities Add Complexity to Traditional External and Internal Scans



## Mapping IT's Strategic Landscape

## Gathering Information to Provide Context for Planning Involves Various Topics, Stakeholders

Robust environmental scanning should collect the appropriate information to aid IT in identifying the various strengths, weaknesses, opportunities and threats that will drive the IT organization's strategic plan and, ultimately, its investments and actions. To conduct thorough scanning, CIOs and their teams must gather information from across and beyond their institution, accounting for past performance, current capacity, and emerging trends in technology and markets.

Context provided by the environmental scan also helps IT strategic planners to better understand how to fulfill institutional strategic goals. For more information on aligning IT activities with institutional goals, see the *IT Strategic Planning Discover Playbook, Part II*.

### External Scan

Identifying systemic and existential ITrelated opportunities and threats in the broader market that may affect the institution.

### **Technology Trends**

- Emerging technologies (e.g., Blockchain, AR/VR, iPaaS)
- Emerging vendors and vendor plans
- IT risk analysis

### **Compliance and Regulation**

 National and international changes to data regulation and compliance (e.g., student, medical, research data)

### **IT Skills Marketplace**

- Supply/demand for IT skills
- Emerging and obsolescing skills as related to emerging technologies

### Institutional Scan

Identifying campus-level context that impact IT's ability to identify and meet strategic goals and shape investments. May reveal strengths, weaknesses, opportunities, or threats.

### **Customer Needs & Perceptions**

- Leadership mandates relating to strategic projects and initiatives
- · Institutional technology culture
- Stakeholder satisfaction

### **Distributed IT**

- Duplication of effort
- Division of responsibilities between central and distributed IT
- Skills and competencies of distributed technology staff

### Internal Scan

*Identifying strengths and weaknesses within the central IT organization.* 

### **IT Services Organizational Health**

- · Skills and competencies
- Staff turnover
- · Culture/staff satisfaction

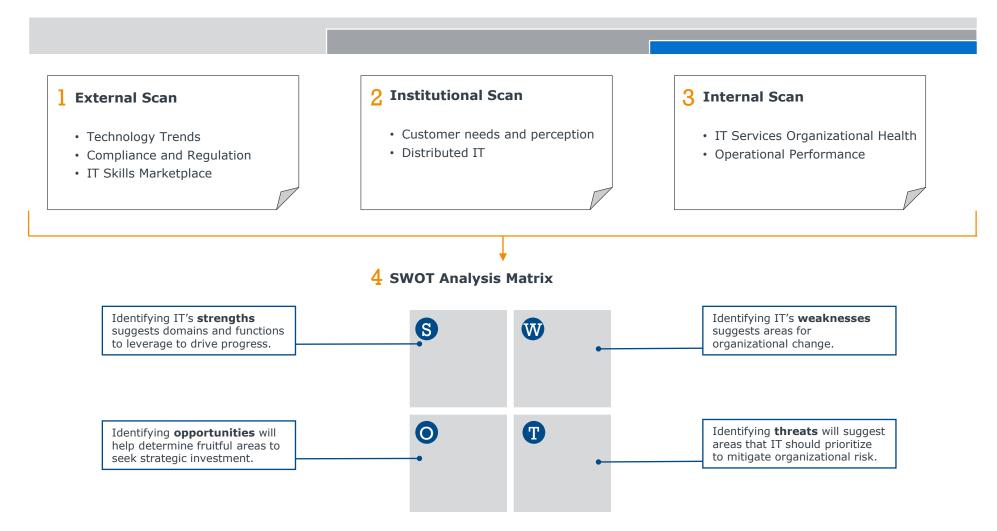
### **Operational Performance**

- Performance metrics and operational reviews by IT function
- Benchmarking metrics
- Functional area strengths and weaknesses

## **Triaging Information to Drive Tomorrow's IT Strategies**

## SWOT Analysis Codifies Current State, Provides Structure for IT's Strategic Investment

Creating usable material for the later phases of IT strategic planning demands preliminary digestion of the raw environmental analyses. SWOT— Strengths, Weaknesses, Opportunities, Threats—analysis helps stakeholders and IT teams codify their findings. It turns lengthy scanning outputs into concrete statements regarding the current and aspirational state of the IT organization, and identifies areas of strategic opportunity and organizational risk.



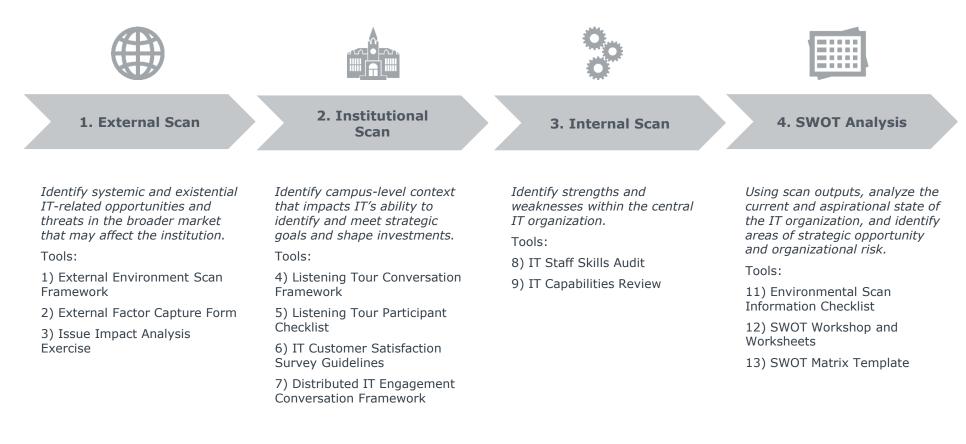
## Environmental Scanning Tools to Systematically Evaluate IT

### The Environmental Scanning Process for IT

The steps below guide you through the three different scans—external, institutional, and internal—that make up the environmental scan, which then feeds the SWOT analysis. Use these resources selectively to meet your institution's needs. The three scans can be conducted in parallel if desired, but all should be completed before conducting the SWOT analysis.

To complete the picture of your institutional needs, refer also to the strategic alignment exercises in the *IT Strategic Planning Discover Playbook, Part II*.

## Four Steps to Conduct an Environmental Scan and SWOT Analysis





# **External Scan**

Resources to Identify Opportunities and Threats in the Broader Market

- External Scanning Fundamentals
- External Environment Scan Framework
- External Factor Capture Form
- Issue Impact Analysis Exercise

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## **External Scanning Fundamentals**

## **External Scanning Project Process**

**Conduct survey of external environment** (publications, research organizations, peers) to identify systemic trends and driving forces that have the capacity to affect the institution and/or IT organization. (See External Environment Scan Framework, p. 9.)

**Capture information regarding emerging trends and drivers**, assessing the evolution and rate of change per trend, as well as forecasting of future direction and potential implications for the institution. (*See External Factor Capture Form*, *p.* 10.)

Assess the potential impact of identified trends on the IT organization, including analysis of trends' interconnections, their likelihood of affecting the institution, and the nature of their impact (positive, negative, neutral). (*See Issue Impact Analysis Exercise*, p. 11.)

## Staffing Suggestion

Activities in the *External Scan* require subject matter knowledge but usually do not need wide community input. They may be completed by assembled groups, a group of individuals working asynchronously, or by a single project owner in line with resource availability and as designated by the CIO or IT strategic planning working group.

## **External Scanning Project Outputs**

At the conclusion of the External Scan, institutions should have the following completed documents to carry forward for SWOT analysis and IT strategy distillation:

### **External Factor Capture Forms**

Collection of information regarding emerging issues and environmental trends that may impact the IT organization.



### **Issue Impact Analysis Exercise**

Speculative projection of the potential for identified issues and trends to play a part in IT's support for institutional strategy, either as development opportunities or existential threats.

## **Higher Education IT External Environment: Representative Topics**

When considering trends and emerging issues, the following framework will help to ensure thorough and systematic scanning of an expansive external environment. The list is not exhaustive, but should be used to guide brainstorming efforts and information collection.

External Domain	Types of Information	Potential Sources
Technology Trends	<ul> <li>Emerging technologies and their application within and beyond education</li> <li>Changes to vendor marketplace: mergers and acquisitions, emerging players and product trends</li> <li>Trends in IT risks and cybersecurity attacks</li> <li>Emerging trends in technology infrastructure</li> </ul>	<ul> <li>Technology publications and research organizations</li> <li>Ed-tech marketplace analysis</li> <li>Campus Computing Survey</li> <li>National watchdogs and cybersecurity groups (e.g., REN-ISAC)</li> </ul>
Compliance and Regulation	<ul> <li>Data protection laws (national and international)</li> <li>Accessibility laws (local and national)</li> <li>Court cases against educational establishments or key vendors</li> </ul>	<ul> <li>State, local, and international statutes, laws, and regulations</li> <li>National and local newspapers and news magazines (including industry-specific publications)</li> </ul>
IT Skills Marketplace	<ul> <li>Emerging trends in technology skills (hard, soft, management)</li> <li>Emerging trends in IT organizational management (staffing models, sourcing models, team models)</li> <li>Local and national IT skill marketplace analysis (wages, employment, demographics)</li> </ul>	<ul> <li>Technology publications and journals (industry-neutral)</li> <li>Technology thought leadership directives (EAB, EDUCAUSE, Gartner)</li> <li>US Department of Labor statistics</li> <li>Institutional IT recruiting statistics</li> </ul>

## Is it Worth Recording?

When scanning the external environment, consider the following to decide whether information is worth recording:

Is the topic or trend relevant to higher education? (e.g., the trend impacts a mode of instruction or a major business process)



Is the trend's trajectory relevant to our IT environment? (e.g., the trend concerns a key vendor in our technology stack or ecosystem)

Are the sources for the trend credible and cross-industry? (e.g., trend is discussed in IT journals across different industry verticals)

Does it require IT to change in a significant way? (e.g., the trend suggests greater technological autonomy in our campus constituents)

## **Tool 2: External Factor Capture Form**

**Instructions:** Use the this form to document a systemic trend or driving force that has the capacity to affect the institution or IT organization. Fill out additional forms for other factors, numbering each. Seek to identify at least 20 key external factors in total.

## **Trend Overview**

External Factor # \_\_\_\_\_

Provide a name for the driver, trend, or event identified, and a brief description if necessary.

What evidence supports the strategic significance of this factor?

(Data, statistics, documentation – identify sources.)

How is this factor currently impacting IT organizations or higher education institutions?

Implications for IT

What opportunities does this factor present for our institution or IT organization?

What threats does this factor present for our institution, or IT organization?

## Assessing Likely Impacts to Validate Strategic Importance

Once trends are identified, determining their likely impact on the institution and the IT organizationor their relative importance for the IT strategy- is complex, as many factors affect multiple domains. An impact assessment framework can help CIOs and their planning teams compare trends' relevance to aid in prioritizing IT's strategic initiatives.

		IMPACT A	SSESSMENT CRIT	ERIA		SCORE
		When will a ma	<b>TIME FRAME</b> ainstream impact be	egin to appear?		
DE	<b>Now</b> 5	<b>1-2 Years</b> 4	<b>3-5 Years</b> 3	<b>5-10 Years</b> 2	<b>10+ Years</b> 1	
INDUSTRY-WIDE		How widely wi	<b>SCOPE</b> Il the trend be acce	pted/adopted?		
DUSTR	Global 5	Widespread 4	Higher Ed 3	Organizations 2	Individuals 1	
H		How strong	<b>EFFECT</b> will the effect of th	is trend be?		
	<b>Transformative</b> 5	Major 4	Moderate 3	Minor 2	Insignificant 1	
ų	What is t	he likelihood that ti	<b>LIKELIHOOD</b> his trend will have	an impact on the ins	titution?	
TIONA	<b>Certain</b> 5	Likely 4	Possible 3	Unlikely 2	Rare	
INSTITUTIONAL	What i	s the required spee	<b>URGENCY</b> d of response by th	ne institution to the t	trend?	
Ĥ	<b>Now</b> 5	<b>1-2 Years</b> 4	<b>3-5 Years</b> 3	<b>5-10 Years</b> 2	<b>10+ Years</b> 1	
				TOTAL I	MPACT SCORE:	

## **Putting the Framework in Action**

A single person or defined group should score each external factor using the framework at left. Working with the same individual or group to determine each impact score will promote consistent scoring across factors.

2 Calculate total score for each external factor. If working in a group, score factors independently and then bring together to determine averages per factor.

**3** Force order rank external factors, based on the total impact score and identify appropriate next steps for each in line with its rank.

#### **Interpreting the Total Scores**

#### 20-25 Act Now

Make a decision immediately about how to respond to this issue; if appropriate long-term initiatives exist, include steps in your strategic plan.

#### 15-19 Manage

Consider now how you will manage these issues as they develop; include actions in your plan that address these factors.

#### <14 Watch

These issues are unlikely to have impacts on campus that require action in a strategic plan, but you should continue to track them.

Source: Adapted from "Shaping Tomorrow", Thinking Futures Trend Relevance Matrix.



# **Institutional Scan**

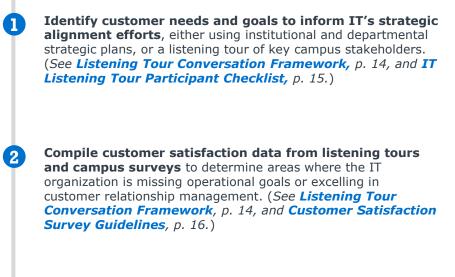
Resources to Identify Campus-Level Contexts that Affect IT Strategy

- Institutional Scanning Fundamentals
- Listening Tour Conversation Framework
- Listening Tour Participant Checklist
- IT Customer Satisfaction Survey Guidelines
- Distributed IT Engagement Conversation Framework

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## **Institutional Scanning Fundamentals**

## **Institutional Scanning Project Process**



**Assess distributed IT responsibilities and performance** to better understand how central IT and other IT units could more closely align with and serve institutional goals. (*See Distributed IT Engagement Conversation Framework*, p. 17.)

### Staffing Suggestion

The activities and outputs in the *Institutional Scan* involve leadershiplevel activities and group activities. Stakeholder engagement should be completed by senior IT leadership or their delegates to promote open conversation between peers. Surveys should be reviewed by members of the IT strategic planning working group or other participants if they delegate the task.

## **Institutional Scanning Project Outputs**

At the conclusion of the Institutional Scan, institutions should have the following documents to carry forward for SWOT analysis and IT strategy distillation:



### **Listening Tour Conclusions**

A summarized aggregation of listening tour and focus group conversations representing identified campus needs and ongoing projects. This may also lead to the definition of institutional strategic goals, in the absence of a strategic plan.



#### **IT Customer Satisfaction Data**

Quantitative and qualitative information regarding campus stakeholders' opinions of the campus IT brand.



### Distributed IT Engagement Feedback

A summary analysis of how the current distribution of responsibilities serves institutional goals and contributes to IT strengths or weaknesses.

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## **Tool 4: Listening Tour Conversation Framework**

**Instructions:** Use these questions to prepare for conversations with IT constituents across campus. While it is not necessary to ask exactly the same questions in each interview, try to collect some information in each of the four identified areas.

## **Listening Tours Surface Diverse Campus Needs**

*Strengths, Weaknesses, Opportunities and Threats Emerge from Cross-Campus Conversations* 

Conversations with academic and administrative leaders (as well as focus groups with larger groups of campus constituents) should concentrate on unit missions and goals. Technology should be a secondary topic introduced only when IT has clarified the unit or group's operational strategies and needs for the coming years.

Where documented institutional strategic goals are absent, the listening tour can be an excellent way of identifying the institution's de facto goals.

## Four Tips For Productive Engagements

To maximize engagement, CIOs and their teams should focus on multimodal communication efforts and interactive brainstorming with stakeholders across campus.



**Stay future focused** when trying to understand constituents' business and informational needs Ask about direction and execution to uncover both the "what" and "how" of campus's desired relationship with IT

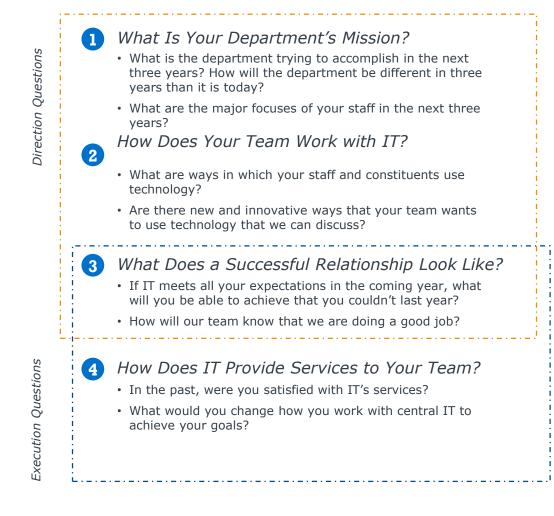


**Leverage social media** to extend capacity for information gathering across digital conversational platforms



Send ahead a copy of your questions to participants and encourage later follow up with further ideas and interests

## Key Questions to Ask During the Listening Tour



## **Tool 5: Listening Tour Participant Checklist**

**Instructions:** Identify listening tour participants from each of the groups listed below. Aim for seven or more participants in each group to collect diverse opinions, and conduct as many conversations as time will allow. Augment these lists with your institutional organizational chart and with your awareness of campus influencers.

	Contact Title	Outreach Sent?	Meeting Date	X
	President			
	Provost			
	President/Provost Chiefs of Staff			
	Chief Administrative Officer			
	Chief Financial Officer			
ស	Chief Operating Officer			
adei	Chief Advancement Officer			
I Le	VP Research			
iona	VP Student Affairs			
Institutional Leaders	VP Enrollment Management			
Ir	Dean of Continuing and Online Education			
	Facilities Director			
	Faculty Senate Leadership			
	Dean's Council Members			
	Board of Trustees IT Group			
	Other			

	Contact Title	Outreach Sent?	Meeting Date	X
	Institutional Research			
	Distributed IT Directors			
	IT Governance Group Leaders			
Ś	Registrar			
tner	HR Director			
Key IT Partners	Procurement Director			
	Admissions Director			
	Alumni Affairs Director			
	Athletics Director			
	Deans of Engineering, Computer Science Schools			
	Other			
ers'	Student Leadership Groups			
lenc	Department Chairs			
Key 'Influencers'	Principal Investigators			
eV '	Task Force Members			
$\mathbf{X}$	Other			

## **Tool 6: IT Customer Satisfaction Survey Guidelines**

**Instructions:** Use these guidelines to develop, distribute, and draw conclusions from a customer satisfaction survey.

## Get the Most Out of Your IT Customer Satisfaction Survey

Customer satisfaction surveys create a formal method to collect campus constituents' feedback. Surveys can also supplement listening tour feedback, and help align technology units' strategy with customer wants and needs. To maximize the value of satisfaction surveys, IT units should be engaged in all three key phases of survey administration.

## l Designing the Survey

*Ask Targeted Questions to Get the Right Data* 



#### Select Demographic Questions that Expand Analysis Options

Demographic questions provide context and background about each respondent to facilitate analysis of particular interest groups or areas of campus.



#### Measure Satisfaction and Value with Likert-Scale Questions

Questions with Likert-scale response options (ranging from "very satisfied" to "very dissatisfied") provide general information about campus attitudes to IT service and value.

•	۰	
	••	•••

#### Solicit Immediately Actionable Information Through Comments

Comment boxes provide space for customers to articulate specific praise or complaints and equips IT with immediately actionable feedback.

## 2 Deploying the Survey

Create an Outreach Plan to Maximize Response Rates



## Target a Diverse and Inclusive Respondent Pool

Sending the survey to all campus constituents (faculty, staff, students) maximizes responses, which data analysts can later filter.



#### Promote Survey Through Multiple Channels

Emailing surveys from executive accounts improves response rates, while including links in other correspondence (and other media) maximizes visibility around campus.



#### Maximize Response Rates Through Timing and Incentives

Avoiding busy times on the academic calendar or overlap with other unit surveys will reduce survey competition, while raffle incentives for participants will improve survey uptake.

## 3 Analyzing the Results

*Use Feedback to Make Customer-Centric Decisions* 



#### Analyze Quantitative Responses to Identify Areas for Improvement

Using quantitative data and regression analyses will allow IT to determine which areas have the greatest impact on constituent satisfaction, and target responses.



#### Address Comments from Open-Ended Questions Directly

IT should put in place a process to triage comments to the appropriate functional area, where directors should implement plans to directly address emergent concerns.



#### **Communicate Results and Plan of Action** to Campus Community

As well as carrying the results forward for IT's own SWOT analysis, survey information should be shared with constituents to promote IT's proactive approach to engagement.

## **Tool 7: Distributed IT Engagement Conversation Framework**

Instructions: Use these questions to prepare for conversations with distributed IT providers and customers across campus. While it is not necessary to ask exactly the same questions in each interview, try to collect some information in each of the three identified areas.

### Enfranchising Distributed IT Staff Gives Broader Perspective on the Institution's IT Strategy

Regardless of whether the scope of your IT strategic plan extends beyond the central IT organization, a "one IT" cross-institutional perspective should be part of the institutional scan. This can be incorporated into your broader campus listening tour, but it involves special considerations that require the input of distributed IT leaders and customers alike.

## **Key Questions for Leaders of Distributed IT**

### How do vou serve vour customers?

- What particular value or services do you provide that cannot be delivered by central IT or by third parties?
- What is your role in enabling the customer unit to reach its strategic goals?

How do you fit into the institutional IT environment?

- What steps do you take to avoid duplication of services?
- How do you learn about and address cross-environment issues such as security, compliance, and standards adoption?
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How should institutional IT units work together?

- How should distributed IT participate in issues of crossinstitutional significance (e.g., participation in IT governance, council of IT leaders)?
- What institutional (as opposed to unit) strategic goals do you support?

## **Key Questions for Customers of Distributed IT**



- Why do you use distributed IT services?
  - What particular value or services does your local IT unit provide that you prefer over centralized or third party options?
  - How do distributed IT services help you reach your unit's strategic goals?



What is your relationship with campus IT organizations?

- Which best describes the way you see your local IT unit: 1) a utility, 2) a tactical partner, 3) a strategic partner.
- Which best describes the way you see central IT: 1) a utility, 2) a tactical partner, 3) a strategic partner.



How should IT responsibilities be divided?

- Is there anything your local IT unit does now that you think should be assumed by central IT?
- Is there anything central IT does now that you think should be assumed by your local IT unit?



# **Internal Scan**

Resources to Identify Strengths and Weaknesses in the IT Organization

- Internal Scanning Fundamentals
- IT Staff Skills Audit
- IT Capabilities Review

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## **Internal Scanning Fundamentals**

### **Internal Scanning Project Process**

**Conduct a skills assessment** to capture staff capabilities, demographic data, potential turnover, and build a picture of IT's current and projected capacity. (*See* **IT Staff Skills Audit**, p. 20.)

**Review the full range of IT capabilities** to identify strategically significant strengths and weaknesses. (*See* **IT Capabilities Review**, p. 21.)

**Assemble internal review outputs** for distribution to participants in the SWOT exercise. (*See SWOT Analysis*, *p. 24.*)

## Staffing Suggestion

The activities and outputs in the *Internal Scan* are flexible, and can be completed by assembled groups, a group working asynchronously, or by a single project owner in line with resource availability and as designated by the CIO, or IT strategic planning working group.

## **Internal Scanning Project Outputs**

At the conclusion of the Internal Scan, institutions should have the following documents to carry forward for SWOT analysis and IT strategy distillation:



### **IT Staff Skills Audit**

Detailed information on the current and projected staffing of the IT organization.



### **IT Capabilities Review**

List of internal capabilities that significantly contribute to institutional goals (strengths) or that constitute obstacles unless remediated (weaknesses).

## Tool 8: IT Staff Skills Audit

**Instructions:** Distribute a skills audit to each member IT staff member to complete a self-assessment. Ask departmental heads or direct managers to complete assessments for their staff or direct reports for external evaluation of IT staff skills.

### Mapping Current Skills and Competencies in the IT Organization

Auditing IT staff's current skills and competencies provides valuable data for IT leadership to determine staff alignment with industry trends and institutional needs. It can also uncover opportunities to leverage existing but unused skills on campus.

Skills Audit Please indicate your/your staff member's level of knowledge for each skill and competency.							Applying aggregate weighting to determine IT's overall proficiency will help drive organization-level discussions. At <b>Cornell University</b> , the IT department used the following formula to determine organizational			
1. Architecture	Costion of the second	Morris	O COMPE	the stand	50. Competencies	Casula	Morris	O COMON	an stort	<ul> <li>"Productive Skill Equivalent" scores for each skill and competency assessed:</li> <li>0.8*#working + 1.0*#Competent + 1.2*#Expert</li> </ul>
Hyper-V	0	0	0	0	Accountability	0	0	0	0	
MVC Architecture	0	0	0	0	Active Listening	0	0	0	0	
2. Audio Visual Softw	aro				Business Analysis	0	0	0	0	Conduct with Care
Adobe Premier		0	0	0	Business Communication	0	0	0	0	· · · · · · · · · · · · · · · · · · ·
Audacity	0	0	0	0	Business Plan Creation	0	0	0	0	Successful staff skill auditing requires comprehens
Final Cut	0	0	0	0	Business Development	0	0	0	0	coverage and honest answers from participants. To
Garage Band	0	0	0	0	Change Agency	0	0	0	0	effectively manage staff participation, auditors sho
Movie	0	0	0	0	Coaching Others	0	0	0	0	Emphasize benefits for staff from
Pro Tools	0	0	0	0	Collaboration	0	0	0	0	organizational skills mapping exercises
10 10013	Ũ	-	-	Ŭ.	Conflict Resolution	0	0	0	0	to allay employment concerns
<b>3. Business Intellige</b>	nce				Continuous Improvement	0	0	0	0	
Service Management	0	0	0	0	Contract Management	0	0	0	0	Include staff in the skills identification
Crystal Reports	0	0	0	0	Creativity	0	0	0	0	and survey building process to ensure
Dashboard Design	0	0	0	0	Critical Thinking	0	0	0	0	thorough and meaningful skill coverag
TL Tools	0	0	0	0	Delegation	0	0	0	0	
DBIEE Tools	0	0	0	0	External Awareness	0	0	0	0	Provide ways for staff to express
Statistical Analysis	0	0	0	0	Internal Org Awareness	0	0	0	0	feedback and concerns (anonymously or in person) to enhance trust

Source: IT Skills @ Cornell Evaluation, Cornell University; EAB interviews and analysis.

## **Tool 9: IT Capabilities Review**

**Instructions:** The worksheets on the following pages outline 31 different IT capabilities organized in eight categories. This is not an exhaustive list; it is designed as a starting point and you should add or subtract capabilities as appropriate. Use the worksheets to note areas of strength and weakness that have a bearing on your institution's strategic needs. You may wish to do this in a small IT leadership team, with the IT strategic planning working group, or with a wider group. Discuss to resolve differing perceptions and document the strengths and weaknesses that are clearly significant for IT's strategic future.

With respect to your institution's strategic goals and customer needs over the period of your IT strategic plan, rate each IT capability as a strength (S), weakness (W), or neither (N). Focus on strengths and weaknesses that have strategic significance. For example, if a particular capability needs improvement but has no bearing on institutional strategic goals, mark it as "neither" rather than "weakness." Use the notes column to record reasons why you've marked an item S or W.

## Walk Through IT Functional Areas to Inquire about Strengths and Weaknesses

Category	Capability	Description	S/W/N
	Strategic Planning	Align IT organization with institutional strategy and set long-term IT vision, goals, objectives	
Leading the	Budgeting	Manage financial resources	
Organization	Performance Measurement	Use metrics to track the IT organization's performance and effectiveness	
	Technology Innovation	Identify and support emerging technologies	
	Project Portfolio Management	Maintain visibility into current and future project needs	
	Services Maintenance and Enhancement	Maintain and update systems and services in a way that maximizes value and minimizes disruption	
Managing	Service Delivery Management	Deliver and support a strategic portfolio of services	
the Service Portfolio	Infrastructure Management	Provide and maintain the IT infrastructure campus needs to do its work	
	Project Management	Ensure that IT projects are delivered on time, on budget, and with high levels of user satisfaction	

Where multiple related capabilities are identified as strengths or weaknesses, consider combining and

renaming them to more compactly convey what the

institution can rely on (strengths) and what it

needs to fix (weaknesses).

A **strength** is an internal capability that significantly contributes to achieving institutional goals; a **weakness** is one that will be an obstacle unless corrected. A capability the does not make a significant strategic contribution but is also not a strategic obstacle (probably most of them) is **neither** a strength nor a weakness.

## **Selecting Strengths and Weaknesses**

The IT capabilities review should not produce a laundry list of routine concerns. To identify high-impact strengths and weaknesses:



Keep the focus strategic, winnowing out operational considerations or short-term issues



Where ratings differ among participants, discuss and seek a consensus

Combine or summarize related items and give them a name that better describes the specific strength or weakness you are highlighting

Source: EAB interviews and analysis.

## Tool 9: IT Capabilities Review Worksheet – Page 1

See page 21 for instructions.

Category	Capability	Description	S/W/N	Notes
	Strategic Planning	Align IT organization with institutional strategy and set long-term IT vision, goals, objectives		
Leading the	Budgeting	Manage financial resources		
IT Organization	Performance Measurement	Use metrics to track the IT organization's performance and effectiveness		
	Technology Innovation	Identify and support emerging technologies		
	Project Portfolio Management	Maintain visibility into current and future project needs		
	Services Maintenance and Enhancement	Maintain and update systems and services in a way that maximizes value and minimizes disruption		
Managing	Service Delivery Management	Deliver and support a strategic portfolio of services		
the Service Portfolio	Infrastructure Management	Provide and maintain the IT infrastructure campus needs to do its work		
	Project Management	Ensure that IT projects are delivered on time, on budget, and with high levels of user satisfaction		
	Cost Transparency	Measure and communicate IT costs to end users		
	Stakeholder Engagement	Maintain open communication lines with key IT users		
Growing the	Coordination with Distributed IT	Maintain open communication lines with distributed IT staff		
IT-Campus Partnership	IT Branding	Develop and market a clear IT brand		
	Business Process Improvement	Partner with business units to improve their business processes		
	Data Governance	Support the creation and use of clean, consistent data across the institution		
Building a Data-Driven Institution	Enterprise integration	Integrate disparate sources of data into a coherent, usable enterprise data source		
	Decision Support	Provide decision-makers relevant data and the support they need to leverage it		

## Tool 9: IT Capabilities Review Worksheet – Page 2

## See page 21 for instructions.

Capability	Description	S/W/N	Notes
Research Computing	Provide the computing resources researchers require		
Digital Collaboration Tools	Provide the tools campus members need to collaborate digitally		
Instructional Technology	Support the technology tools instructors want to use		
IT Workforce Planning	Plan for future IT talent needs		
IT Staff Development	Support IT staff in their career/professional development		
IT Staff Performance Management	Manage individual staff members' performance		
IT Leadership Development	Provide the next generation of IT leaders opportunities to develop their skills and prepare for future leadership roles		
Data Access	Manage secure access to institutional data		
Asset Management	Track and protect physical IT assets across campus		
Incident Response Planning	Prepare for information security breaches		
Disaster Recovery/Business Continuity Planning	Plan for events that cause major service outages		
Security Awareness/Training	Maintain user awareness of security threats and the importance of hygienic behavior for mitigating them		
Vendor Management	Partner with IT vendors to protect and advance the institution's interests		
Distributed IT Purchasing Oversight	Partner with IT consumers to ensure decentralized purchasing of IT goods meets institutional guidelines		
	Research ComputingDigital Collaboration ToolsInstructional TechnologyIT Workforce PlanningIT Staff DevelopmentIT Staff PerformanceManagementData AccessAsset ManagementIncident Response PlanningDisaster Recovery/BusinessContinuity PlanningSecurity Awareness/TrainingVendor ManagementDistributed IT Purchasing	Research ComputingProvide the computing resources researchers requireDigital Collaboration ToolsProvide the tools campus members need to collaborate digitallyInstructional TechnologySupport the technology tools instructors want to useIT Workforce PlanningPlan for future IT talent needsIT Staff DevelopmentSupport IT staff in their career/professional developmentIT Staff Performance ManagementManage individual staff members' performanceIT Leadership DevelopmentProvide the next generation of IT leaders opportunities to develop their skills and prepare for future leadership rolesData AccessManage secure access to institutional dataAsset ManagementPrepare for information security breachesDisaster Recovery/Business Continuity PlanningPlan for events that cause major service outagesSecurity Awareness/TrainingMaintain user awareness of security threats and the importance of hygienic behavior for mitigating themVendor ManagementPartner with IT vendors to protect and advance the institution's interests	Research ComputingProvide the computing resources researchers requireDigital Collaboration ToolsProvide the tools campus members need to collaborate digitallyInstructional TechnologySupport the technology tools instructors want to useIT Workforce PlanningPlan for future IT talent needsIT Staff DevelopmentSupport IT staff in their career/professional developmentIT Staff Performance Manage individual staff members' performanceIn the next generation of IT leaders opportunities to develop their skills and prepare for future leadership rolesData AccessManage secure access to institutional dataAsset ManagementPrepare for information security breachesDisaster Recovery/Business Continuity PlanningPlan for events that cause major service outagesSecurity Awareness/TrainingMaintain user awareness of security threats and the importance of hygienic behavior for mitigating themVendor ManagementPartner with IT vendors to protect and advance the institution's interestsDistributed IT PurchasingPartner with IT consumers to ensure decentralized



# **SWOT** Analysis

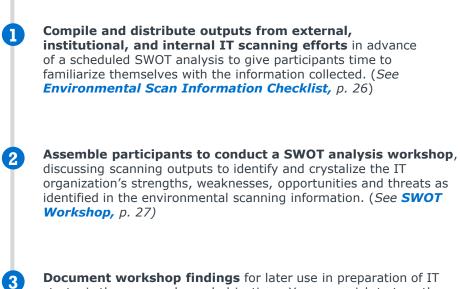
Resources to Guide Your SWOT Analysis Workshop

- SWOT Analysis Fundamentals
- Environmental Scan Information Checklist
- SWOT Workshop and Worksheets
- SWOT Matrix Template

4

## **SWOT Analysis Fundamentals**

### **SWOT Analysis Process**



strategic themes, goals, and objectives. You may wish to turn the documented workshop results over to a subset of participants for further refinement and finalizing (See **SWOT Matrix**, p. 30)

## Staffing Suggestion

The *SWOT analysis* is a group exercise, and could be completed by the IT leadership team and/or the IT strategic planning working group. Participants should receive documentation ahead of time, dedicate a half-day to workshop-based analysis, and designate an individual to capture results.

## **SWOT Matrix Analysis Outputs**

At the conclusion of the SWOT analysis, strategic planning groups should have the following documents to carry forward for IT strategy distillation:

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#### List of IT's Strengths, Weaknesses, Opportunities and Threats with Descriptions

Provides detailed information about the nature and meaning of SWOT items.



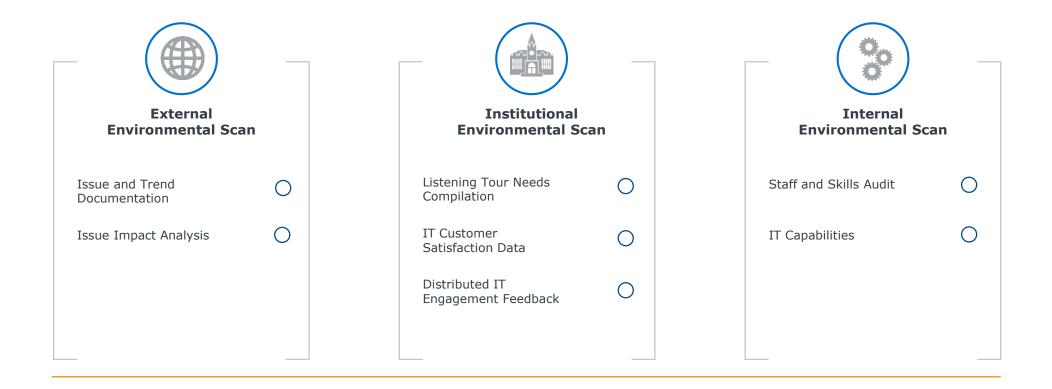
### Completed "Top 5" SWOT Matrix

Visual representation of the major SWOT items.

## **Tool 10: Environmental Scan Information Checklist**

**Instructions:** Prior to conducting the SWOT workshop, collect and distribute informative materials from the environmental scan to workshop participants, allowing at least a week for review. Strive for concise and readable documents that focus on essential issues. The environmental scan outputs described earlier in this playbook are listed below; you may wish to add other materials as well. Also be sure to store the materials for reference during later stages of the IT strategic planning process.

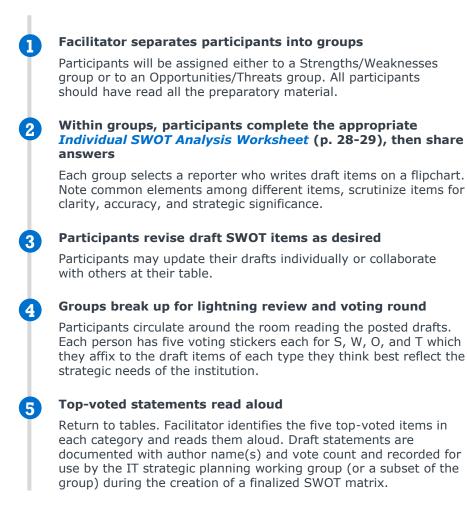
## **Compiling a Comprehensive Environmental Scan Documents for SWOT Analysis**



## Tool 11: SWOT Workshop

## Identifying SWOT Items

This exercise breaks up work among teams dedicated either to strengths/weaknesses items or opportunities/threats items. After items are drafted, all participants vote on the top items in each category. The goal is not to create a final SWOT matrix, but to elicit community ideas and provide a collection of drafts that the IT strategic planning working group or other body can draw upon when finalizing the matrix.



## What to Look for in a SWOT Matrix



Strengths/weaknesses are internal to the IT department; opportunities/threats are *external* 



Taken as a whole, the matrix comprehensively expresses the environment in which IT operates



Items have strategic, not merely tactical significance



Items are easy to understand and compactly expressed

### **Needed for This Exercise**

- Tables for group work
- Flipcharts, markers at each table
- Postable notes (index card size)
- Worksheets
- Voting stickers (five per item per person)
- 90–120 minutes

## Tool 11: Individual SWOT Analysis Worksheet #1

Strength	Why is this a current strength? Please provide specific examples.	What are the implications for the IT organization and institution?	Weakness	Why is this a current weakness? Please provide specific examples.	What are the implications for the IT organization and institution?

## Tool 11: Individual SWOT Analysis Worksheet #2

Opportunity	Why is this an area of opportunity? Please provide specific examples.	What are the implications for the IT organization and institution?	Threat	What is the nature of this threat? Please provide specific examples.	What are the implications for the IT organization and institution?

## Tool 12: SWOT Matrix Template

Strengths		Weaknesses
Opportunities		Threats

## IT Forum

## **Project Director**

Scott Winslow

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