Global IT Management: Structuring For Scale, Responsiveness, and Innovation

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February 2010

CISR WP No. 379

A version of this paper will be published as “Global IT Management: Structuring For Scale, Responsiveness, and Innovation,” Communications of the ACM, Vol. 53, No. 3, March 2010: 59–64.

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☐ Research Summary: a summary of a research project with preliminary findings.

☐ Research Briefings: a collection of short executive summaries of key findings from research projects.

☐ Case Study: an in-depth description of a firm’s approach to an IT management issue (intended for MBA and executive education).

☐ Technical Research Report: a traditional academically rigorous research paper with detailed methodology, analysis, findings and references.
Title: Global IT Management: Structuring For Scale, Responsiveness, and Innovation

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Abstract: As businesses expand globally and reconfigure their value chains, they must cope with a variety of complex challenges in managing their IT resources. This research examines how enterprises attempt to simultaneously achieve scale economies, responsiveness to business needs, and innovation. These three strategic objectives often raise conflicting requirements. Through interviews with CIOs and other senior executives of global enterprises, we identify a set of structural elements implemented to meet these requirements—shared services, centers of excellence, and value managers. Firms carefully design these elements to balance their inherent global-local tensions and help achieve the three strategic objectives.

Keywords: IT governance, IT structure, globalization, shared services, center of excellence, business-IT alignment

11 Pages
Globalization is a significant factor in today’s business strategies (e.g., Brown and Hagel III, 2005) as companies in mature markets seek growth by expanding their operations in the emerging markets of Asia, Latin America, Eastern Europe and the Middle East. These multinational companies (MNCs) have to extend their existing portfolio of IT applications, infrastructure and services to support their global business strategies. However, managing globally distributed IT resources is challenging. Visibility of such resources is often poor, as the local IT unit may not report back to central IT and in many firms there is no enterprise-wide IT budget management. For most firms there is also an inherent global-local tension to simultaneously achieve three strategic objectives: scale, responsiveness, and innovation. To balance the trade-offs, practice and research in the structural design of IT has moved away from the IT centralization-versus-decentralization debate to more nuanced forms of IT organizational design. These include the federal structure (Sambamurthy and Zmud, 1999), hybrid governance (Brown, 1997), “centrally-decentralized” governance (Von Simson, 1990), and matrixed governance (Weill and Ross, 2005).

These “hybrid” structures recognize that the various types of IT activities have different operating characteristics and economics and thus should be managed differently. Some researchers, for example, have found that the management of IT infrastructure is usually centralized, while the management of IT use is often decentralized. The development of IT applications resides in the local units for some organizations, or at central IT for others, while a third group has applications development capabilities at both central and local units. Agarwal and Sambamuthy (2002) noted three variants—the partner, platform, and scalable model—where the decision rights for each of eight IT value processes (e.g., infrastructure management, solutions delivery, strategic planning) could be centralized, decentralized or shared. Allocating decision rights differently for different IT activities was also at the heart of the matrix governance proposed by Weill and Ross (2004)—who identified different configurations for making five key IT decisions—IT principles, IT architecture, IT infrastructure, business application needs, and IT investment and prioritization.

The features of “hybrid” structures remain under-studied, particularly as increasing globalization has resulted in continuing evolution of the structure of the IT function. Ineffective global IT structures result in the duplication of resources, proliferation of IT systems, increased complexity and risk, and the compromise of key business requirements such as agility. In this paper, we ask how are “hybrid” IT structures implemented in the global context to balance the global-local tensions while achieving scale, responsiveness, and innovation?

**Structuring the Global IT Organizations**

We examine this question through in-depth studies of four industry leading multinational corporations (MNCs) that have established a strong global presence, particularly in emerging markets such as Asia. The four companies represent a diverse set of industries. Microsoft develops, manufactures, licenses and markets software in 90 countries. Intel is the world’s
largest producer of semiconductor chips and operates in 60 countries. Procter & Gamble is a leading manufacturer and marketer of consumer products in three sectors—beauty care, household care, and health and well being—across more than 180 countries. Underwood Financials (name disguised), is among the top ten investment banks globally, operating in 60 countries, and continues to perform relatively well even in the current downturn.

We interviewed between two and six executives (a few with multiple interviews) in each firm including the CIO, examined internal documents such as organization charts, and publicly available information such as annual reports, analyst reports, and news reports. Our interview questions were concerned with how these companies had set up and managed their global IT structures with a particular focus on the fast growing Asian region.

Our findings showed that, despite the variation in industry, all the MNCs studied used three common structural elements to link the enterprisewide IT leadership (who design and oversee enterprisewide IT governance, the IT budget, and portfolio management, enterprise architecture, and enterprise risk management), and the more locally focused concerns of the business units. Although companies sometimes labeled these elements differently, such as, shared services, centers of excellence (CoEs), and value managers (VMs), the goals of each element were the same across the firms. The objective of shared services was to achieve scale economies; the objective of CoEs was to drive innovation; and the objective of value managers was to enable responsiveness. The three structural elements are described here in detail.

**IT Shared Services** are structural units that consolidate common IT functions (e.g., helpdesk, operations, development) to achieve scale by providing standardized services. Such sharing eliminates unnecessary duplication of IT resources and improves utilization of IT assets. Global MNCs often have three shared service units located in the Americas, Europe, and Asia focused on delivery within their respective regions and serving as backups for the other regions. Microsoft, for example, created regional shared services at Redmond (corporate headquarters—serving North America), Dublin (serving Europe, Middle East, and Latin America), and Singapore (serving Asia) to manage IT services across the globe.

Shared service units can offer a wide range of IT services, allowing the local business units to choose from a catalogue of IT services. The global-local tension here is to encourage local units to use more of the shared services while still meeting the diverse needs of the local units. For example, P&G, an $90b global enterprise operating in more than 180 countries and marketing over 250 brands to nearly five billion consumers, created the Global Business Services (GBS) unit in 1999. GBS provides a set of 70 IT services on a global scale with published IT unit costs and service level agreements. To provide around-the-clock business support worldwide, three shared-services centers have been built: in San Jose, Costa Rica; in Newcastle, UK, and in Manila, Philippines. GBS strategy is to provide best-in-class business support services at the lowest possible costs.

P&G draws on its strong marketing culture to package and offer a catalog of services to their business units across the globe. The catalog embodies two principles of effective marketing—simplicity and choice (with transparent pricing). P&G filters the “best-in-class” service offerings down to a single-page catalogue in two “shopping aisles”—Employee Services and Business Services (see Table 1). Brands who consume these services still have control and choice even though some of the solutions are mandated. Within the mandated solutions, there are several tiers of service with different prices. Brand units can influence
their costs by choosing a tier of service and influencing the number of units of service consumed. Pricing is also dependent on the region. To encourage business units to adopt the shared solutions, GBS guarantees a 10–30% cost reduction initially.

An annual “glide-path” of unit price reduction is also built in. Brand units are thus incentivized to phase out their local services increasing the shared service stack to achieve more global scale and allowing the local units to focus more on meeting the needs of the external customer. Another benefit of shared services is to make the cost of each IT service transparent so it can be managed. Previously these costs were often hidden or not managed. To achieve such flexible service delivery requires sophisticated IT financial management. IT service design, internal marketing, pricing, and service optimization and innovation are performed by P&G personnel while the delivery is outsourced. GBS’s capability extends beyond IT to include financial, sourcing, and HR services. P&G has identified over $600m in savings from shared services and credits GBS in helping to absorb its large acquisition of Gillette in only 15 months (Bloch and Lempres, 2008).

Table 1
Examples of P&G Global Business Services

<table>
<thead>
<tr>
<th>Employee Services and Solutions</th>
<th>Pay, benefits, policies, career development, work plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>People Management</td>
<td>Compensation planning, relocation, employee management tools</td>
</tr>
<tr>
<td>Facilities</td>
<td>Office moves, conveniences: banking, dining, fitness centers, mail &amp; documents</td>
</tr>
<tr>
<td>Computers &amp; Communications</td>
<td>PCs, e-mail, mobile phones, Intranet, service support</td>
</tr>
<tr>
<td>Meetings</td>
<td>Rooms, technology &amp; scheduling, audio &amp; video conferencing, events</td>
</tr>
<tr>
<td>Travel</td>
<td>Booking, expense accounting, credit cards, group meetings</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Services and Solutions</th>
<th>Strategic sourcing, supplier relationship management, procurement service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strategic Sourcing &amp; Procurement</td>
<td>General ledger, affiliate accounting, product/fixed asset accounting, SRAP/MSA accounting, purchases-to-payment (include accounts payable), banking, financial reporting</td>
</tr>
<tr>
<td>Financial Services &amp; Solutions</td>
<td>Bioinformatics systems, product imaging &amp; modeling systems</td>
</tr>
<tr>
<td>Supply Network Solutions</td>
<td>Demand planning systems, total order management, physical distance systems</td>
</tr>
<tr>
<td>Consumer Solutions</td>
<td>Prime prospect research, CRM systems, advertising &amp; media measurement</td>
</tr>
<tr>
<td>Customer Solutions</td>
<td>Shopper intelligence, in-store action planning, trade fund management systems</td>
</tr>
<tr>
<td>Initiative Management</td>
<td>Technical package &amp; materials design, package artwork process, portfolio tracking &amp; reporting</td>
</tr>
<tr>
<td>Business Performance Solutions</td>
<td>Decision cockpits, market mix modeling, competitive intelligence, ad-hoc business analyses</td>
</tr>
</tbody>
</table>
For the MNCs we studied, IT shared services achieved scale by brokering and incentivizing the use of standardized IT services across the firms, thus removing cost, duplication, and complexity. Some MNCs then outsourced the bulk of those shared services to external service providers with even greater economies of scale.

**IT Centers of Excellence (CoEs)** are also known as competency centers or centers of expertise. CoEs are units that contain strategic IT capabilities identified by the firm as important sources of value creation and service innovation (Frost et al, 1999). CoEs are specialized units where the MNCs pool expertise physically or virtually across the globe. These units often do not have operational responsibilities but they serve as strategic resources that focus on designing and developing new solutions, i.e., to innovate, and to develop depth in critical expertise. CoEs we encountered included those focused on application development, key business processes (e.g., trade processing), and specific technologies or IT platforms (e.g., EDI).

Underwood Financials has groups of IT experts who are co-located with the respective global product heads (foreign exchange, bonds, money market, equities, etc.) in the HQ where new innovations in financial products typically occur. These IT specialists have in-depth IT and business domain expertise, and they work closely with the business to design and develop new IT solutions. The bank’s ability for fast-to-market product launch globally is often dependent on their ability to respond with the necessary IT solutions. The day-to-day operations of the specific product platforms developed are handled by the shared services. These IT experts serve only as a third level support for complex problems that cannot be resolved by first and second level technical support.

Microsoft, similarly, has created the Corporate Solution Deliveries (SD) group—a group of specialized IT application developers led by about 40 solution directors who are located with the businesses and work closely with senior VPs in each major line of business—to translate their intimate business understanding into designing and developing global solutions. In the case of Intel, such pools of IT experts are known as Capability Groups and they focus on enhancing four major IT application development capabilities, namely, the supply-net capability, customer capability, enterprise capability, and platform capability. The customer capability group even reports outside IT to Sales and Marketing for tighter business-IT alignment in developing innovative IT solutions.

As CoEs are designed to provide the firm expertise and innovation in critical areas, they are typically centrally coordinated with the head office identifying the areas of excellence and where they will be located. MNCs are beginning to locate some of their IT CoEs in Asia to take advantage of local talent and cost advantages. P&G located its CoE for mobile marketing in the Philippines to tap into the high usage of mobile phones in Asia. As part of the company’s strategic innovation initiative, the innovations from this CoE will be diffused to the global market.

**Value Managers (VMs)** are groups of IT managers who seek to maximize the value of IT for specific business units. VMs, sometimes called customer relationship managers, focus on the IT needs for business units, business functions, and large or fast growing geographical markets. Within the constraints laid out by central IT, the VMs must ensure that key business requirements unique to these customers are not overlooked. They build deep relationships with these business customers and support their needs for responsive IT globally. VMs are
organized so that the voices of its key customers can be heard, consolidated, and appropriately channeled for prioritization. Equally important, effective VMs also have responsibility to help implement enterprise-wide IT initiatives within these customer units. Examples of centrally initiated enterprise-wide programs are global ERP implementations, collaboration tools, and cost cutting efforts. One CIO put it well: “Without the second objective of implementing enterprise-wide initiatives, those folks (VMs) go feral and have loyalty only to the local units.”

Microsoft has an extended field IT structure that covers its geographical market across 106 countries. Field IT is overseen by an International IT VP reporting to the Global CIO. Below the International IT VP are the IT managers for three regions: North America, Europe/Middle East/Latin America, and Asia. The Asia region, for example, further cascades down to 13 regional clusters. These IT managers play a brokering role, i.e., in representing central IT to influence and negotiate with the regional business owners, as well as the customer advocates in championing the interests of these business units and ensuring they derive adequate value out of IT.

In one MNC, for example, when a new business in a major Indian city required an application for their fast-growing business, the local general manager wanted it delivered in six weeks, and was willing to pay for the required resources. Conformance with the global organization’s IT approval, development and quality processes, however, would require six months. The IT manager (VM) assessed that delay would impact the business growth, and negotiated a solution to put a program manager to work with the local GM’s resources in meeting the local business’ timeline. The VM ensured that the new system met global guidelines on security and architecture. In another example, the global human resource application was unable to handle the high volume of recruitment in an Asian office. As the time required to change the global application would take too long, the IT manager (VM) negotiated for a short-term module to be created, while providing input to the global applications team. The short-term module would be used until the rollout of the next version of the global HR solution which included the new requirement to process the higher recruitment volume.

The “voice of the field” provided through the VMs in emerging markets can also be a source of global innovation. Through such feedback, P&G recognized the need for new IT applications to cater to the needs of Asian businesses. In one example, P&G noted a difference in the sales distribution model as Asian consumers tend to shop more frequently and in smaller quantities, and hence, began developing IT systems to support the fast growing “high frequency stores” segment. These systems are expected to be useful in other emerging regions as well. Another example is P&G’s SKII beauty product which originated in Japan, and has grown to become one of the premium brands in the global cosmetic market. The product distribution for SKII operated on a different business model from P&G’s mass market positioning, as it was sold in department stores with dedicated counter sales consultants. To support the high-touch sales model, systems were built to automate counter operations, to track transactions for each customer, and to provide analysis of sales/marketing plans by customer segment. The systems significantly increased the efficiency for the thousands of sales consultants in Japan. The SKII line, together with the enabling systems, has been successfully deployed to the rest of the world.
Table 2 summarizes the general characteristics of these three structural IT elements, across the companies that we studied.

### Table 2
**General Characteristics of the Three Structural Elements**

<table>
<thead>
<tr>
<th>Structural Elements</th>
<th>Objective</th>
<th>Organization</th>
<th>Approach</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IT Shared Services</strong></td>
<td>To achieve global/regional scale for cost efficiency while allowing some local choices via:</td>
<td>By major IT functions, IT or business process services:</td>
<td>Drive scale via:</td>
</tr>
<tr>
<td></td>
<td>- global scale/scope</td>
<td>- catalogue of services offered, e.g., business process, application, and infrastructural service</td>
<td>- active service management and transparency</td>
</tr>
<tr>
<td></td>
<td>- global sourcing of IT resources</td>
<td>- typically located in lower cost regions</td>
<td>- standardization</td>
</tr>
<tr>
<td></td>
<td>- global common platform</td>
<td>- some services outsourced to external vendors</td>
<td>- consolidation</td>
</tr>
<tr>
<td></td>
<td>Heavily resource-intensive</td>
<td></td>
<td>- process improvement</td>
</tr>
<tr>
<td></td>
<td>KPIs: service level agreement, unit cost, simplicity</td>
<td></td>
<td>- service quality</td>
</tr>
<tr>
<td></td>
<td>By major IT functions, IT or business process services:</td>
<td></td>
<td>- sourcing</td>
</tr>
<tr>
<td><strong>IT Center of Excellence</strong></td>
<td>To innovate and develop best practices via:</td>
<td>By innovative technologies or strategic capabilities:</td>
<td>Drive innovation via:</td>
</tr>
<tr>
<td></td>
<td>- global coordination of capabilities</td>
<td>- centrally coordinated</td>
<td>- pooling deep internal knowledge and expertise</td>
</tr>
<tr>
<td></td>
<td>- global pooling of IT expertise</td>
<td>- may be located outside HQ</td>
<td>- investment into experimentation and innovation</td>
</tr>
<tr>
<td></td>
<td>Heavily knowledge-intensive</td>
<td>- can be virtual by pooling distributed experts</td>
<td>- applying and sharing best practices enterprise-wide</td>
</tr>
<tr>
<td></td>
<td>KPIs: # of new global solutions developed, time to market for new application, reuse of best practice across firm, business process performance, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IT Value Managers</strong></td>
<td>To maximize the value of IT for specific groups in the firm via:</td>
<td>By major business dimensions:</td>
<td>Push for responsiveness via:</td>
</tr>
<tr>
<td></td>
<td>- being responsive to local needs through a single face of IT</td>
<td>- strategic lines of business</td>
<td>- proximity to customer units to capture voice of the customer</td>
</tr>
<tr>
<td></td>
<td>- advocating for customer units to central IT</td>
<td>- major business functions</td>
<td>- simultaneous proximity to central IT</td>
</tr>
<tr>
<td></td>
<td>- helping implement enterprise-wide initiatives locally</td>
<td>- large or fast growing geographical markets</td>
<td>- constructive negotiation and facilitation of conflict resolution</td>
</tr>
<tr>
<td></td>
<td>Heavily relationship-intensive</td>
<td>- major external customers</td>
<td></td>
</tr>
</tbody>
</table>
Configuring the Global-Local Balance in the Structural Elements

Although the four MNCs we studied are from different industries, they all had implemented similar structural elements of shared services, centers of excellence, and value managers. This observation suggests some convergence regarding the global structuring of IT resources, as they all seek to simultaneously achieve global scale, while providing local responsiveness and innovation. Figure 1 summarizes the model for structuring global IT that emerges from our study.

**Figure 1**
A Model for Structuring Global IT

However, multinationals still need to make trade-offs among these strategic objectives. Managers seek these tradeoffs by varying configuration of each structural element and distributing resources among them. One of the most common trade-offs that we observed was between achieving scale and responsiveness. Companies that sought greater scale tended to have a single global shared service unit. Underwood Financials, for example, has a single global shared service unit in Singapore that serves all business units worldwide over three work shifts. While first-line support was available 24x7, more sophisticated level three support was still centralized at headquarters. Responsiveness to complex problems that occurred in other time zones was therefore a challenge. At the time of this study, the shared services head was lobbying to have level three support also located in the Asian time zone. Other MNCs traded-off global scale for greater regional responsiveness. Microsoft, for example, operates three regional shared services units, covering, North America, Europe-Middle East-Africa and Latin America, and Asia respectively.
The configuration of CoEs also reflected trade-offs between local and more global innovation. While most CoEs tend to be global because such specialized expertise is usually costly and in tight supply, companies vary in whether they choose to locate the CoEs at HQ, or abroad, or to create virtual CoEs that pool expertise virtually across several geographies. Underwood Financials’ application development CoE for its financial products resides with its business headquarters, which allows it to more tightly link its innovation activities to corporate strategy. P&G on the other hand has begun to experiment with locating some of its CoEs abroad, for example, its global mobile marketing CoE is in the Philippines. This is a response to the pervasiveness of mobile communications in Asia. Less commonly, MNCs attempt to achieve even greater responsiveness of local conditions by establishing CoEs at the regional level if there is significant disparity in institutional context, for example, having a separate regional SAP Competency Center in China to address the different language and its unique requirements. The trade-off is in the replication of resources, and the greater coordination challenges of aligning local innovation with corporate direction.

MNCs, such as Underwood Financials that have prioritized scale through having a single global shared service center, and also global CoEs located at HQ, clearly are at risk of not responding adequately to legitimate regional or local concerns. In the case of Underwood Financials, they attempted to address this by creating a hierarchy of VMs. Within each region, there are VM roles at the intersection of product lines and region. For example, there would be VMs for bonds—Asia Pacific, bonds—Europe, and so on. These VMs had a matrix reporting structure to both the line of business, and to the regional CIOs. There were various forums that brought together VMs, with business and global IT services and CoEs, as a means to promote coordination and communication within this complex organization structure. Hence, while Underwood Financials reaped scale efficiencies from having global shared services and CoEs, it invested in its elaborate VM structure to be more responsive to local needs.

We found that VMs play a critical role in ensuring that the inherent tensions between scale, responsiveness, and innovation are played out constructively in each business and region. The selection and training of VMs, as well as ongoing support, are critical. For example, Intel actively grooms IT managers who can appreciate both the global and local perspectives. Intel selects high-potential local individuals, exposes them to various “extra-curricular activities” such as IT cost reduction initiatives, and sends them on year-long postings in other roles. Intel also rotates some of its best people in other parts of the world through management stints in Asia to encourage a balanced global-local view so that more informed trade-offs can be made.

The VMs’ role in constantly mediating between local demands and corporate policy can be wearing. In some MNCs, VMs who thrived did so by developing and drawing upon an informal network that comprised contacts in the business, corporate IT, and other VMs. The ability to quickly access the right people in the network appeared to enhance their ability to find solutions to global-local problems. Underwood Financials’ various forums helped to develop such networks, as did Intel’s approach to rotating its managers.

MNCs’ trade-offs between scale, innovation and responsiveness need to be made taking into account a complex mix of factors including: industry, size, desired levels of synergies, access to skilled people, and the roles of scale, innovation and responsiveness in the business model.
Table 3 lists some of the questions we suggest CIOs consider in deciding the extent of scale, innovation and responsiveness desired.

### Table 3
**Discussion Questions for the Design of Structural Elements in Global IT**

<table>
<thead>
<tr>
<th>Structural Elements</th>
<th>Discussion Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IT Shared Services</strong></td>
<td><em>What is the desired level of scale to be derived from IT shared services?</em></td>
</tr>
<tr>
<td></td>
<td>- Is your product or service global or commoditized? Is there significant value added from local variations?</td>
</tr>
<tr>
<td></td>
<td>- What are the factors that contribute to scale in your industry (e.g., common customers, processes, resource, or information)?</td>
</tr>
<tr>
<td></td>
<td>- What are the common IT applications and infrastructure services that can be bundled to be offered through shared services?</td>
</tr>
<tr>
<td></td>
<td>- How are costs shared across the firm (e.g., chargeback by service, overhead absorption depending on size, etc.)?</td>
</tr>
<tr>
<td><strong>IT Centers of Excellence</strong></td>
<td><em>Do you need to coordinate IT enabled innovation?</em></td>
</tr>
<tr>
<td></td>
<td>- Are your company’s market offerings and competitive advantage driven by innovation in process, product, and/or technology?</td>
</tr>
<tr>
<td></td>
<td>- What are the strategic IT capabilities that can contribute to the future competitive advantage?</td>
</tr>
<tr>
<td></td>
<td>- What IT capabilities can benefit from regional or global pooling of expertise for continuous innovation?</td>
</tr>
<tr>
<td><strong>IT Value Managers</strong></td>
<td><em>What is the desired level of IT responsiveness to local needs?</em></td>
</tr>
<tr>
<td></td>
<td>- Who are the key user groups (e.g., business units, business functions, fast-growing geographical markets) that IT must serve?</td>
</tr>
<tr>
<td></td>
<td>- How different are the IT needs of these user groups?</td>
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<tr>
<td></td>
<td>- What is the right balance of implementing enterprise-wide IT initiatives and meeting local IT needs?</td>
</tr>
</tbody>
</table>

Globalization is an opportunity for CIOs to demonstrate business leadership. Shared services, CoEs, and value managers are structural elements that CIOs are increasingly using to re-bundle traditional IT resources to simultaneously deliver on scale, responsiveness, and innovation. We have observed that successful development of such IT managerial capabilities can deliver significant competitive advantage.
References


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- IT-Related Risk Management
- IT Portfolios and IT Savvy
- IT Leadership
- IT Management Oversight
- IT Unit Design
- IT-Enabled Business Agility
- IT Innovation
- Business Transformation and Change Management

In July of 2008, Jeanne W. Ross succeeded Peter Weill as the director of CISR. Peter Weill became chairman of CISR, with a focus on globalizing MIT CISR research and delivery. Drs. George Westerman, Stephanie L. Woerner, and Anne Quaadgras are full time CISR research scientists. MIT CISR is co-located with MIT Sloan’s Center for Digital Business and Center for Collective Intelligence to facilitate collaboration between researchers and faculty.

MIT CISR is funded by Research Patrons and Sponsors and we gratefully acknowledge their financial support and their many contributions to our work.

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