



## Data center optimization and consolidation

As the foundation for all IT services, your data center keeps the business running. Having a clear strategy for managing and optimizing data center operations is critical. Many organizations are burdened with the high operational costs and capital investments of running multiple data center facilities obtained through organic growth, organizational changes or acquisition.

CGI has the knowledge and expertise to help clients use their business and technical requirements to create a data center consolidation and migration strategy that will deliver significant savings and efficiencies.

# CGI's consulting team helps clients develop and execute solutions that are responsive to their unique business needs – ensuring that the data center experiences uninterrupted uptime over sustained periods.

## OUR SERVICES INCLUDE:

- Data center consolidation and migration
- Deployment of advanced, environmentally- sound techniques
- Automation, such as net-centric servers and real-time data protection
- Consolidation to achieve higher levels of scalability, availability and density
- Virtualization to provide service velocity and optimize capital/operation expenses
- Security services to protect critical data and address evolving threats
- Compliance expertise to meet the demands of an increasing regulatory environment

**Our consulting team helps clients develop and execute solutions that are responsive to their unique business needs in order to ensure that their data center is managed for uninterrupted uptime over sustained periods.**

## Expertise in consolidations and moves

Underestimating the complexity of data center moves—the time it will take, the skills required to do the job, the hardware needed—is more the rule than the exception when it comes to relocation and consolidation. This is especially true when taking into account complex application dependencies. No other area within your IT organization requires more effective planning, rigor or efficiently-run operations.

Because a data center move is generally a once in a career event for IT professionals, few companies have the expertise on hand to do it well. Our consultants bring firsthand expertise from data center planning, design, building, operations and management to their evaluations of existing and proposed facilities.

CGI's own data centers are regularly audited for CICA 5970 and SAS 70 compliance and employ the industry standard ITIL®-based processes and tools. Through these best practices-based centers, we offer IT infrastructure services in a managed services arrangement for some of the largest commercial and government organizations.

CGI is a member of the board of directors of the Uptime Institute.

**Uptime**Institute™, LLC

## Optimizing the data center through green technology

CGI's business model is oriented toward sustainable development, and we translate that commitment into concrete results as we help clients achieve cost savings while supporting their corporate social responsibility plan.

We apply the expertise we've gained in building and managing our own green data centers to help clients achieve savings by introducing environmental friendly technology. Using rigorous processes that review operational efficiency, we have significantly reduced clients' energy consumption and carbon emissions within the electro-mechanical, physical and IT infrastructure. Specific improvements have included the deployment of technologies and techniques such as raised floors, lighting controls, cooling retrofits, and server virtualization and consolidation.

CGI is proud to be a member of The Green Grid®, a global consortium of IT companies and professionals seeking to improve energy efficiency in business computing ecosystems around the globe.





## Looking at the big picture

CGI understands that each component of a client's data center is critically interrelated. As a result, we provide detailed, comprehensive recommendations for optimizing each major entity as well as the overall center.

CGI's time-tested consulting approach helps clients better understand their current environment and recognize improvements that optimize the operation – reducing costs, enhancing service and systems response, and supporting compliance.

Our model includes four phases that examine your entire data center operations:

### FRAME PHASE 1

In this phase, we created a shared vision among top executives and key stakeholders that represents the organization's high-performing future.

### ENVISION PHASE 2

The objective of this phase is to develop a clear, comprehensive blueprint by building upon the vision and developing the process models to achieve high performance.

### CREATE PHASE 3

During the Create phase, all components that are part of the Envision phase are designed, constructed, fully tested and integrated within the organization. There may be multiple Create phases – one for each transition segment identified during the Envision phase.

### ACHIEVE PHASE 4

The primary objective of the Achieve phase is to integrate the components built in the Create phase into the organization's business.

CGI professionals take the time to understand a client's business so that they can take a holistic view in helping to design, improve and scale the IT infrastructure and applications as business needs change. For example, we develop recommendations for optimizing in-house facilities through the use of dedicated or shared centers. We also help clients determine if using innovative technology such as cloud computing can be used to further improve efficiencies.



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## At CGI, we are in the business of satisfying clients by helping them succeed.

Since our founding in 1976, we have operated upon the principles of sharing in clients' challenges and delivering quality services to address them. As a leading IT and business process services provider, CGI has a strong base of professionals operating in more than 40 countries, giving us the competitive advantage of close proximity to our clients.

Through these offices, we offer local partnerships and a balanced blend of global delivery options to ensure clients receive the optimal combination of value and expertise required for their success. We define success by helping our clients achieve superior performance and gain competitive advantage.

CGI offers a comprehensive portfolio of services including high-end business and IT consulting, systems integration, application development and maintenance, infrastructure management as well as a wide range of IP-based solutions.