

Great Lakes Information & Technology Center

Michigan's Next Generation Green Computing Environment - March 2011



SPOTLIGHT: DATA CENTER

Nationally, major public and private data center investments are taking place. Drivers of this demand include:

- ☑ Security for sensitive citizen data
- ☑ Uninterrupted availability and disaster recovery protection for critical applications
- ☑ Around-the-clock access for citizen and business self-service capability; information anywhere, anytime.
- ☑ Technology advances utilizing more power, producing more heat and weighing more; requiring more cooling, square footage and structural support
- ☑ Clients demanding new service offerings more quickly and at a lower cost.

The Michigan Department of Technology, Management & Budget (DTMB) is responsible for providing centralized hosting services for Michigan's state agencies, including a variety of mainframes and some 4,000 servers.

Since 2004, the State has migrated 36 aging agency-based computer/server rooms and equipment into one of three secure centers. This consolidation has improved the security, reliability, manageability and availability of critical agency applications. It has saved over \$19 million and reclaimed 30,000 square feet of office space.

As a result of the consolidation, growing usage of IT services, advances in IT equipment and increased power consumption/cooling requirements, the demand for energy, technology and computer room floor space are outpacing Michigan's current hosting center capabilities. To this end, the State is pursuing a public-private partnership initiative—referred to as the Great Lakes IT Center (GL-ITC)—to replace two of its existing hosting centers. Key project drivers:

- Improve efficiency
- Maximize energy utilization
- Deliver economic development and support job creation in Michigan
- Promote better government and increased collaboration.

PUBLIC-PRIVATE PARTNERSHIP

In lieu of a traditional approach, the State is exploring a public-private partnership, in which it will engage the private sector, as well as local governments and higher education partners, through an innovative process.

Phase I: Request for Information (RFI)

DTMB completed a Request for Information (RFI), including oral presentations with the vendor community last March. Some 58 responses to the RFI were received, providing valuable information about interest for partnership within the vendor community, as well as opportunities for innovation.

Phase II: Technical & Financial Assessments

Based on the information gathered during the RFI, the State completed technical and financial assessments to document the full scope of the current data center cost and operations, identify current annual and future estimated costs of data center activities and evaluate optional approaches (including transition and migration requirements) for the future service delivery model.

The State is currently evaluating the information gathered in Phase II to determine next steps with this project, including a potential procurement phase.

For more information on this project, contact DTMB at

InsideDTMB@michigan.gov.

KEY OUTCOMES

- **Improve Efficiency**
Securely hosting the State's critical data through this scalable approach will enable future power and cooling capabilities to be ramped as needed and it will support the State's strategic facilities planning activities
- **Maximize Energy**
Allowing the State to reduce the carbon footprint and cost of operations through renewable energy and green practices
- **Economic Development**
Resulting in jobs and investment both during and beyond construction; this center will advance Michigan's IT infrastructure and act as a magnet for related economic activity
- **Better Government**
Enabling cooperation and improved business continuity capabilities across traditional government lines.

