INFRASTRUCTURE OPTIMIZATION

Optimize Your Data Centers and Reduce Infrastructure Costs

The Infrastructure Optimization (IO) CoE supports agencies in: consolidating federated data centers into a single enterprise facility, modernizing the application landscape, driving out IT infrastructure cost inefficiencies, improving security, and positioning agencies for future infrastructure improvements.

As the public sector continues to modernize its technology, agencies continue to increase demand on their IT infrastructures. Rather than rely on meeting this new demand in the face of flat or reduced budgets, the pace of innovation has created opportunities to optimize infrastructure and accomplish better service while improving efficiency simultaneously.

The IO CoE is designed to assist agencies in developing and deploying a data infrastructure strategy that is uniquely cultivated to best suit the agency's mission by leveraging qualified expertise and utilizing industry best practices to ensure optimal efficiency.

The IO CoE addresses a range of core competencies, including:

- Data Consolidation Planning
- Application Rationalization
- Site Visits and Assessments
- Business Case Development

The IO CoE has supported improvements across the federal government:

- Optimized USDA Infrastructure achieving **closure of 31 of 37 data centers**.
- Collaborated with USDA regarding **OMB's Data Center Optimization Initiative (DCOI)**; in the third quarter of FY19, there have been **5 data center closures that have saved $4.7M**. Since FY2018, there have been 21 data centers, which have led to a cumulative cost savings and avoidance of $42.3M, which exceeds USDA's target goal by $18.7M. In June 2019, **USDA's FITARA score also improved**.
- Assisted OPM in their mainframe modernization efforts and are supporting them in establishing **robust disaster recovery facilities**, ensuring the reliability of retirement services, human resources and benefits management across the federal government.
- In cooperation with the CX CoE we are evaluating the OPM legacy retirement calculators and are in the process of procuring a **Business Rule Management Engine** to provide a modern retirement calculation service.

IO CoE Service Catalog

SERVICE	DESCRIPTION	SAMPLE DELIVERABLES
Project Plan for Data Center Consolidation	Develop a roadmap that will describe key activities, milestones, owners, impact, and sequencing – charting a clear path from current to future state.	• Pre-populated project plans as a starting point • Workshops to share industry best practices • Inventory assessments of hardware • Pressure test agency project plans
Application Rationalization	Teach the agencies how to conduct application rationalization using the USDA tailored scoring model (based on TIME) and provide recommendations on disposition decisions and next steps.	• Train-the-trainer workshop for scoring model • List of apps and their disposition • Disposition plan for each app
Business Case for Infrastructure Modernization	Work with the agencies to build a business case by identifying key priorities, benchmarking against other agencies, and performing a cost-benefit analysis.	• List of infrastructure priorities • Benchmark of current spend vs best practices • Potential cost savings and avoidances
Change Management	Help agencies implement change management best practices from industry and USDA.	• Workshop with industry and USDA experts • Change Management Playbook
Communication Strategy	Strategies and tailored messages for agencies to share with their customers, employees, and stakeholders.	• Communications playbook • Informational documents for distribution
Site Visits and Assessments	Data centers visits and an assessment of floor plans, rack configurations, and hardware.	• Data center floor plan • Rack details
Project Management / Coordination	Drive high-level project execution and coordinate with other stakeholders for data center moves.	• List of key dates and deliverables • Regular meetings with execution team • Clear pathway for escalation
Workforce Training	Digital training packages to better prepare the workforce for new concepts, infrastructure architecture, and operating model.	• Course curriculum and content • Detailed enrollment and training procedures • Proof of certification