

Facilities Visualization (F-VIZ)™

INFRASTRUCTURE WHITE PAPER

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What are we trying to achieve?

Markon's goal is to provide a holistic view of facilities utilization to assist with decisions regarding the reduction of square footage, closure of buildings, and consolidation. Consolidation and reduction of square footage and leased space across an agency's portfolio will increase the available budget for other facilities priorities (e.g., reducing one of the National Capital Region (NCR) leases could save a theoretical agency approximately \$500K per year in lease costs).

How is this process performed today, and are there limitations to the current practice?

Proof-of-concept dashboards have been developed using ARCHIBUS, HRIS, Security, and CIO data samples. There has not been a concerted effort to expand the capabilities. In the example agency, the HRIS data is viewed as inaccurate because it relies on end-user compliance for updates. Data from Security often requires approval or waivers from third parties, such as ODNI. Accessing and leveraging CIO data in real time often incurs additional costs.

What's new in our approach, and why are we confident it will succeed?

To improve data integrity, F-Viz combines facility and badging data. Badging data is more accurate because either an employee has badged into the building or the suite, or has not. By combining badging data with ARCHIBUS or other facilities analysis data, F-Viz illustrates the usage of allocated spaces by agency, region, directorate, division, and/or office. Using this data, Enterprise Space Planning teams can evaluate the needs of their organizations' campuses and facilities and develop plans for reallocation or consolidation to optimize density and reduce square footage.

Who does this impact?

The Department of Defense (DoD) has been instructed by Congress to eliminate leased facilities (DoD Inst 4165.70P) and buy or build facilities whenever possible. ODNI has been gathering Intelligence Community (IC) representatives to discuss approaches to facility management and utilization tracking. Congress now has a bill in the Senate (i.e., HR 6276, “The Use It Act of 2023”) that requires leased facilities to have a minimum utilization rate of 60%. If building occupancy falls below the minimum, the agency will be required to return the space to GSA. This affects every government agency equally.

How much will it cost?

The goal is to use already available data and combine it with additional data from Security and IT. The largest cost will be server support that meets security requirements. Based on CIO requirements, a dedicated server is needed for each facility to collect login data. Previously received CIO estimates have been approximately \$2M per building. The total cost would depend on the project's size and the agency's selection of included facilities. Additional costs may be incurred if the fiber infrastructure cannot sustain the increased data load.

What are the risks?

- CIO infrastructure support requires additional servers
- Data accuracy/integrity concerns
- Outdated programs and equipment and fragility of system interfaces
- Current hardware does not support intensive data analysis
- Needed upgrades to the fiber infrastructure of buildings
- Lack of full-time employees (FTEs) to support data accuracy and auditing of data and floorplans
- Lack of technical developers on staff
- Missing or outdated floorplan data
- Many facilities do not have tracked badging
- LOG tracking equipment accountability
- Lack of port security means equipment can be moved without accountability
- Workforce turnover without transition documentation
- Lack of documented procedures/policies and succession planning
- The workforce needs additional training
- Shifting leadership priorities for funding and resources
- Overreliance on Microsoft Excel to maintain data
- License costs for data visualization and business intelligence programs

To learn more about F-VIZ and other infrastructure best practices, contact our team at markonsolutions.com/contact-us.

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ABOUT MARKON

Markon is a mission integrator with a federal government focus, specializing in cybersecurity, technology, business operations, and infrastructure to advance national security. We bring a fresh approach and a deep dedication to what matters most – advancing our clients' missions and supporting our people.