



Case Study for the City of Flagstaff, AZ

A Cost-Effective Change for Flagstaff

Elliptical Mobile Solutions designed and deployed a data center that would serve as the City's Disaster Recovery and Remote Backup solution.

The City of Flagstaff faced challenges common to many municipalities across the country: provide sufficient IT that is vital to government operations; secure and protect data; and react quickly to government and IT changes.

Additionally, the City had limited infrastructure to expand its data center. Rather than rent, update or build a new facility, the City turned to Elliptical Mobile Solutions (EMS), providers of self-contained Micro-Modular Data Centers. EMS' C³-S.P.E.A.R. provided the City with a compact, energy efficient data center for disaster recovery and remote backup support.

Ultimately, this solution provided Flagstaff with a sound investment that not only accommodated the present needs of the City but allows for future growth as well.



By using EMS's C³-SPEAR we can achieve outstanding performance without having to build a new data center or rent an existing facility."

– Ladd Vagen, IT Director, City of Flagstaff

CHALLENGES

- Establish a dependable disaster recovery solution without having to incur the costs associated with renting, building or improving a facility.
- Replace an outdated data center with a state-of-the-art, flexible, and scalable infrastructure that can protect government information and accommodate future growth.

SOLUTIONS

- Implement a resilient, flexible and easily managed solution.
- Dramatically reduce capital and operating costs.
- Improve performance.
- Simplify implementation.

IMPACT

- Rapid deployment within 8 weeks and under budget.
- Flexibility for change.
- Less power, more room.
- Flagstaff now has an infrastructure that can address immediate challenges and provide the scalability for continued long-term growth.

Elliptical Mobile Solutions' Micro-Modular Data Centers

The New Standard for Flagstaff, Arizona

Spotlight on Flagstaff, AZ

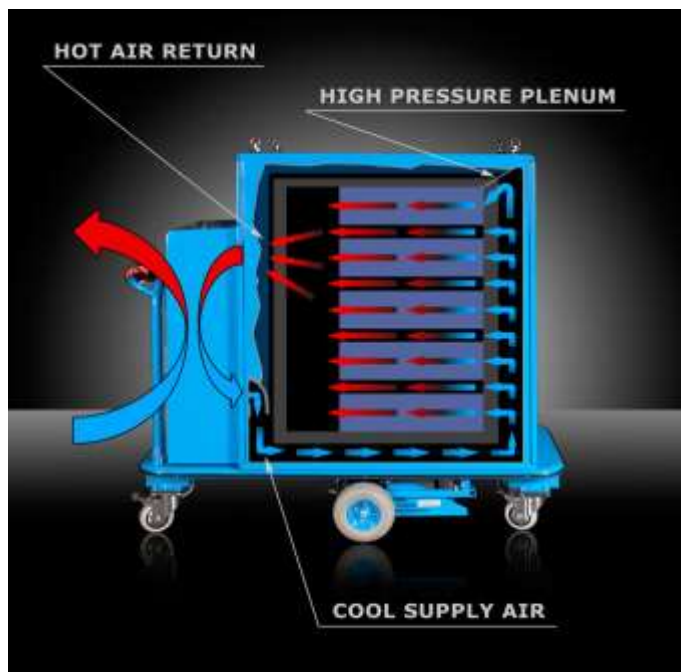
Flagstaff, Arizona is located at the intersection of Interstate 17 and Interstate 40, and is the largest city in Northern Arizona. The City is also the regional center and county seat for Coconino County, the second largest county in the 48 contiguous states.

EMS Solution

Flagstaff needed to establish a dependable Disaster Recovery solution without having to incur the costs associated with building or improving a facility. The high CAPEX costs associated with having to build a small data center or data closet for this environment would be costly, an expense the City could not afford. By implementing a resilient, flexible, and easily managed solution from Elliptical Mobile Solutions, the city achieved dramatic OpEx savings, reduced CapEX costs, improved performance, and simplified implementation.

Reducing Operating Expenditures

Operating expenses, such as electricity required for cooling a data center, resource utilization, and maintenance account for nearly two-thirds of the total cost of ownership (TCO). EMS effectively addressed all of these factors, while delivering the high availability and performance the City needed.



EMS' C³-S.P.E.A.R. is built at the rack level with onboard cooling, security and fire suppression, lowering overall maintenance costs. The patented closed loop cooling system contains the hot and cold aisles within the enclosure so that cooling is applied directly to the equipment, lowering energy and cooling costs up to 50 percent compared to a traditional data center.

The new Disaster Recovery solution significantly decreases data center power consumption. The City is not only saving money, but helping to reduce the environmental impact of its IT.

Reducing Capital Expenditures

Having to build infrastructure (data center or data closets), either at a single location or at numerous locations, would be very costly, not to mention the management requirements for a project of this scope i.e. dealing with building contractors, design, permitting, and time constraints.

The EMS solution removed the need for the city to build out a data center, modify the building or enter into a long term leasing arrangement. The C³-S.P.E.A.R. provided a drop in place infrastructure with no special requirements that would have been necessary with a small data center or data closet.

EMS provided the City with a solution that fit its needs and budget along with the option to add capacity on an “as needed” basis.

Simplified Implementation

The drop in place architecture of the C³-S.P.E.A.R. required no infrastructure, greatly simplifying and expediting the City’s ability to get the new computing environment into production. EMS was able to complete the deployment of the new data center within 8 weeks, vs. 5 months to a year for a facility remodel or new build.

Ultimately, this solution positively impacted the city’s operations as a whole, with a low Total Cost of Ownership (TCO) and fast return on investment (ROI).

Flagstaff looks ahead with EMS

As the city grows and its data center needs change, Flagstaff plans to continue to work with Elliptical Mobile Solutions. “EMS is a valuable technology partner,” said Ladd Vagen, IT Director of the City of Flagstaff. “We will keep working with the EMS team to explore new ideas that can benefit the city.”

[Find a business solution that is right for your company. Contact Elliptical Mobile Solutions today!](#)

Elliptical Mobile Solutions

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