



THE HEPTAGON CAMPUS
A BETTER DATA CENTER SOLUTION

RIGHT-SIZING YOUR NEXT DATA CENTER SAVES LAND AND CAN BE COMMUNITY FRIENDLY

Data Centers are morphing from a simple single building to a complex series of buildings sprawled over a large parcel of land.



Interstitial more effectively distributes air, power, data cables and liquid cooling lines, which enables the same processing capability in less Data Center space. The result is less square footage (up to 30%) per Data Center. When there are multiple Data Center pods around a central hub, the savings, efficiencies and flexibilities are magnified in both Data Center savings and land savings.

Why does Interstitial save space compared to a traditional on slab flooded room design?

Because effective and efficient distribution of critical services means:

- One mechanical equipment room vs. two;
- Larger and fewer Air Handling units;
- One vs. multiple Air Handling units for true redundancy;
- No hot/cold aisle containment required;
- 4' aisle vs. 6' or more;
- Cables placed underfloor reduce roof load;
- Affords optimal column spacing.

NB: Saving space is one of 15 other benefits to be realized using Interstitial.

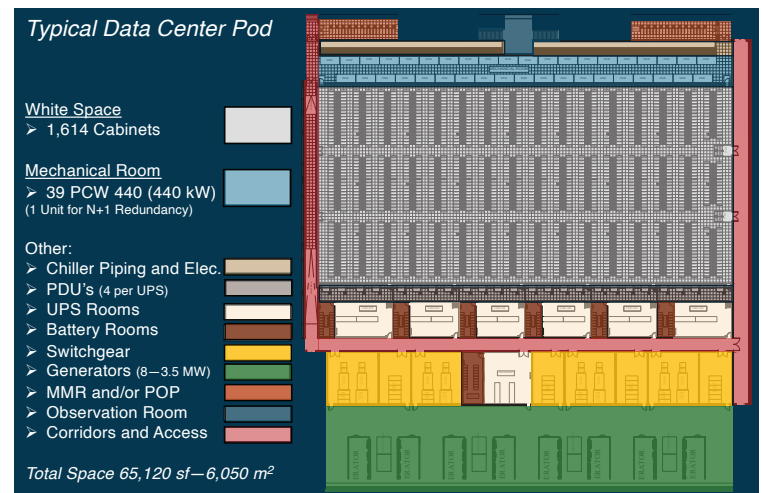
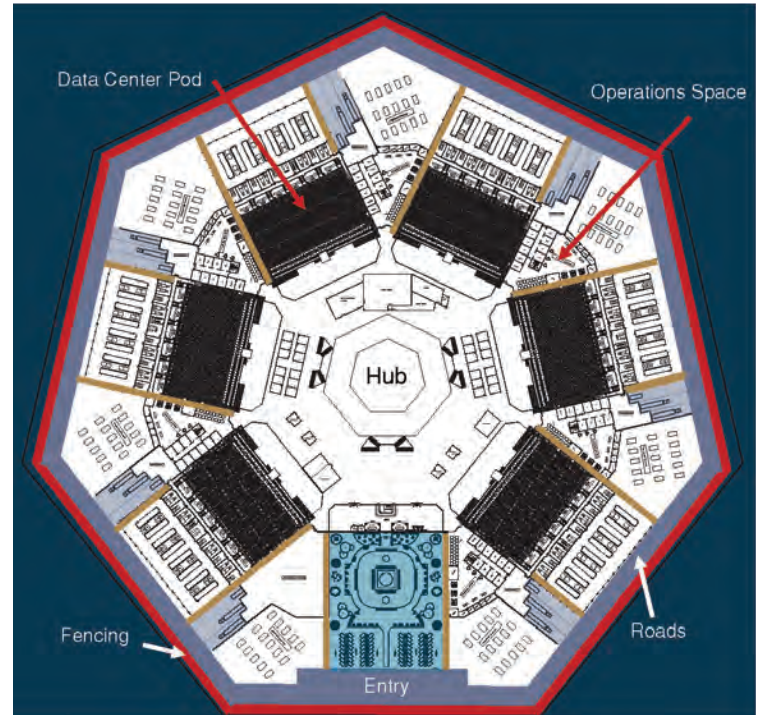
Building upon these space savings Interstitial set out to prove a Hub design can save a significant amount of land as well. Here is a comparison of the cost savings of the land between a sprawling traditional data center campus and a streamlined hub design using Interstitial.

Land and Cost Comparison of a 150 MW Data Center					
	MW	Acre/MW ¹	# Acres	Cost/Acre ²	Total Cost
Interstitial	150	0.333	50	\$ 247,421	\$ 12,371,040
Traditional	150	0.561	84.15	\$ 247,421	\$ 20,820,460
Interstitial Savings			34.15		\$ 8,449,420

¹Acre per MW was determined by reviewing 12 current sites under development and comparing the MW to the acres of land required

²Data Center Development Cost Guide 2025 p.6 Cushman & Wakefield <https://cushwake.cld.bz/Data-Center-Development-Cost-Guide-2025>

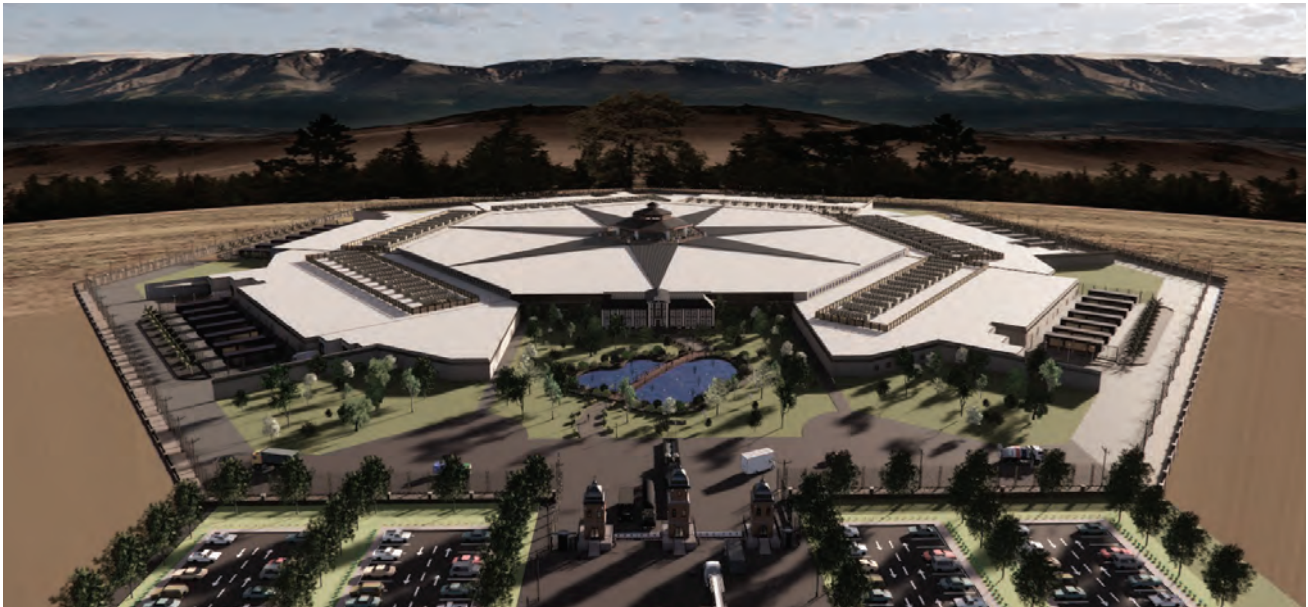
Interstitial has streamlined the design of the data center campus with this 6 Pod 150 MW Heptagon reducing land requirement by over 40%.



"...colocation providers have seen the weighted average cost of comparable land fall from \$14.10 /sq. ft. in 2022 to \$5.68 per sq. ft. in 2024." ²
 (\$247,421 per acre)

The Hub/Atrium Data Center concept isn't limited to a Heptagon. Any rectilinear shape can be used depending on the number of Pods and MW required. Pods can be added to the Hub as needed. Stand-alone single building projects also benefit from Interstitial. The key to a smaller land and building footprint is the functional and sustainable way that Interstitial distributes critical Data Center services.

Learn More: <https://interstitial-systems.com>



An Overview of Interstitial's 6 Pod Streamlined, Low-Profile, 50 Acre 150 MW Heptagon. This campus was designed for a colonial setting, but is easily adaptable to blend with any local environment.

Advantages of a Hub/Atrium Design:

- Single common Hub eliminates duplication of services:
 - ❖ Staff: security, reception, operations, and maintenance;
 - ❖ Conference space;
 - ❖ Cafeteria/Breakroom;
 - ❖ Bathrooms, janitor's closet and storage;
- Minimizes roads, lighting, maintenance and travel between buildings;
- Enclosed hub has less exposed surface area for more efficient Electrical & HVAC systems;
- Reduces overall land and Data Center space requirements;
- Results in an Atrium—a vibrant dynamic hub environment with amenities known to attract and increase employee retention, foster interaction, creativity, and collaboration, while promoting productivity, and well-being.

Optional Core Amenities:

- Cafeteria
- Coffee Shop
- Mezzanine
- Observation Deck
- Roof Top Terrace
- Auditorium
- Health Club Gym
- Pool
- Clinic
- Physio
- Game Room
- Smoothie Bar
- Day Care

Planning a New Data Center?

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Sustainability Follows Functionality



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