

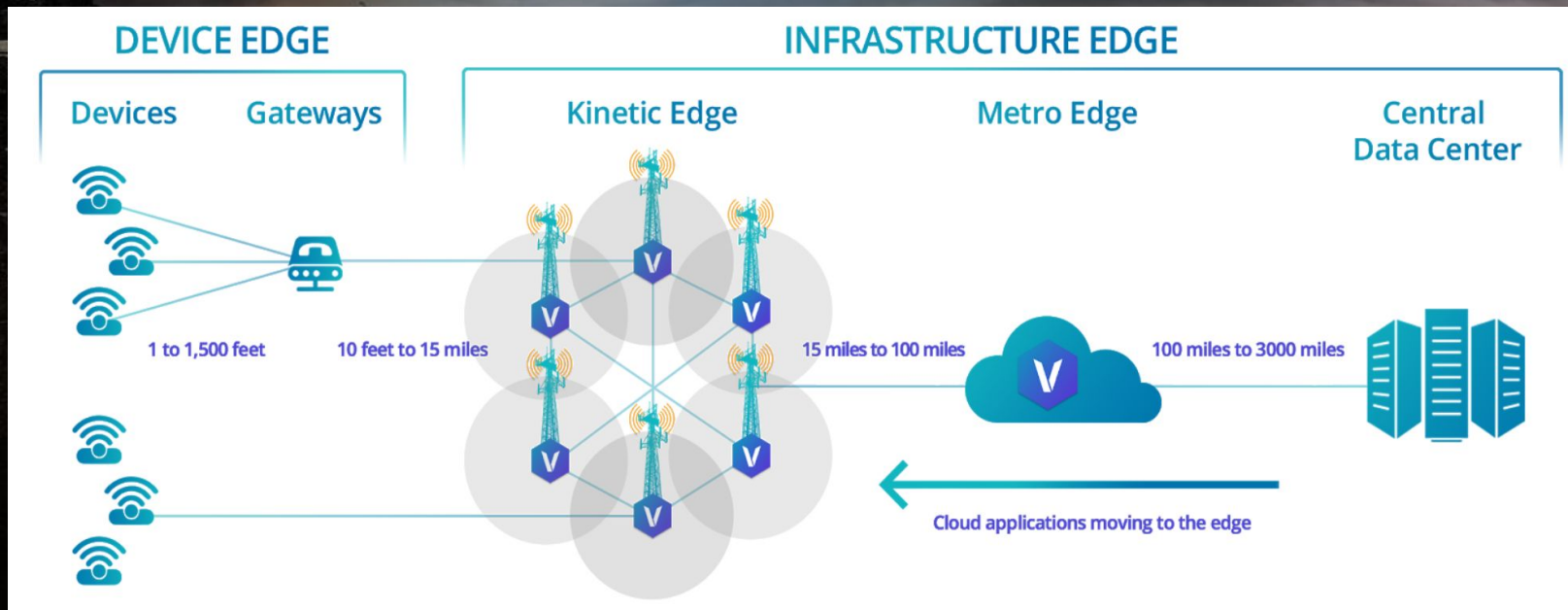


Kinetic Edge (KE) Overview

Kinetic Edge Architecture

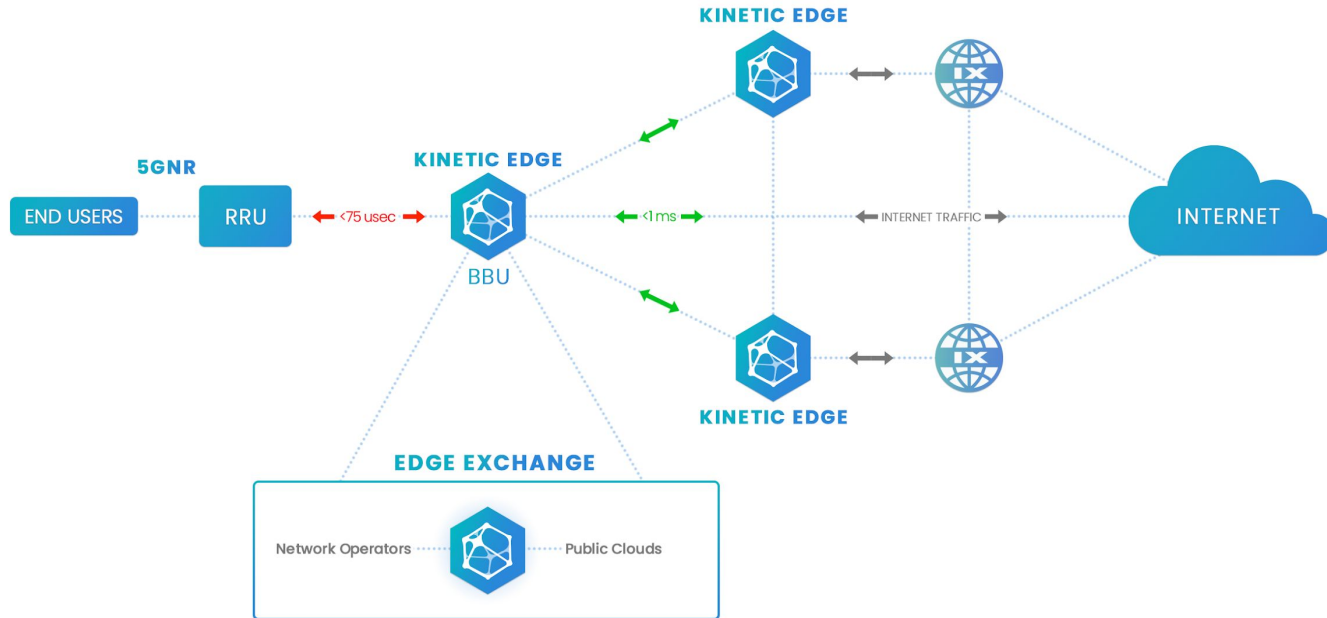
Edge-first Architecture

The design, deployment and operation of hundreds of edge data centers that are distributed across the United States requires an entirely new mindset compared to a handful of hyperscale locations in highly controlled environments. From the industry-leading air-cooling efficiency of each Kinetic Edge site to its highly secure design, allowing for remote operation, the Kinetic Edge platform was designed totally from the ground up as the optimal edge colocation and software-defined interconnection platform to support 5G networks, edge clouds and new uses. Each physical Kinetic Edge site is its own logical availability zone, with multiple across a city and includes connectivity to Internet Exchanges.



Kinetic Edge Exchange



The Kinetic Edge Exchange is a set of software-defined interconnection capabilities built on top of the Kinetic Edge platform which enable network operators to automate and streamline hyper-local interconnection arrangements with third party networks thus reducing the need for backhaul.



The Kinetic Edge Guiding Principles

- Support for heterogeneous infrastructure/services/devices – The Kinetic Edge (KE) is a power dense, extensible and connected data center platform that supports heterogeneous services and devices (think “city-scale” data center)
- Support for variety of spectrum bands – Vapor provides spectrum agnostic infrastructure interoperable with any RAN
- Scalable – The KE is designed to scale to hundreds and even thousands of highly distributed availability zones
- Software based and programmable - We deploy a software-defined edge colocation and interconnection platform
- Common hardware platform – Each KE site is capable of supporting any common compute platform
- Open source and open interfaces – Vapor participates in and contributes to many open source consortiums
- Support for multi-tenancy and virtualization – The KE was designed from the ground up to support multi-tenancy and virtualization
- Flexible with agile service/slice deployment – The KE supports the dense compute and latency required for slice deployment
- Context aware automation – Vapor’s open source Synse API provides in-depth, real-time context telemetry
- Resilient – By providing a geographically distributed “flat net”, the KE allows for workload migration enabling best in class uptime

Current 36 Market Rollout - VEM Ready Dates

Vapor VEM Ready Market Report [March 20, 2020]	
VEM Ready 	Market Ready 
Markets: 32 (4 additional Markets already in Production. Chicago, Pittsburg, Atlanta and Dallas)	
Timeline:	
~7 Months	~3 Months
Tasks:	
<ul style="list-style-type: none">→ Market Design→ Site Pre-Construction→ Site License Agreement→ Zoning and Permitting→ Site Construction (MDP & MPOE Cabinet Set)→ Utility Construction→ Fiber Ribbon (MPOE to closest splice point)→ Hold site construction permits (VEM option)	<ul style="list-style-type: none">→ VEM Manufacturing→ VEM Pad Construction→ Remaining Fiber Build (backbone splicing)→ Network Deployment→ DC/IX Build Out→ VEM Delivery & Commissioning

On Air:

- Chicago
- Atlanta
- Dallas
- Pittsburgh

Nov 2020:

- Tampa
- Rochester
- Providence
- Orlando
- Jacksonville
- Boston
- Philadelphia

Oct 20:

- Phoenix
- Houston
- Miami
- Fort Myers
- Indianapolis
- Nashville
- San Antonio
- Syracuse
- Buffalo
- Charlotte
- Cleveland
- Columbus
- Wash DC

Dec 2020:

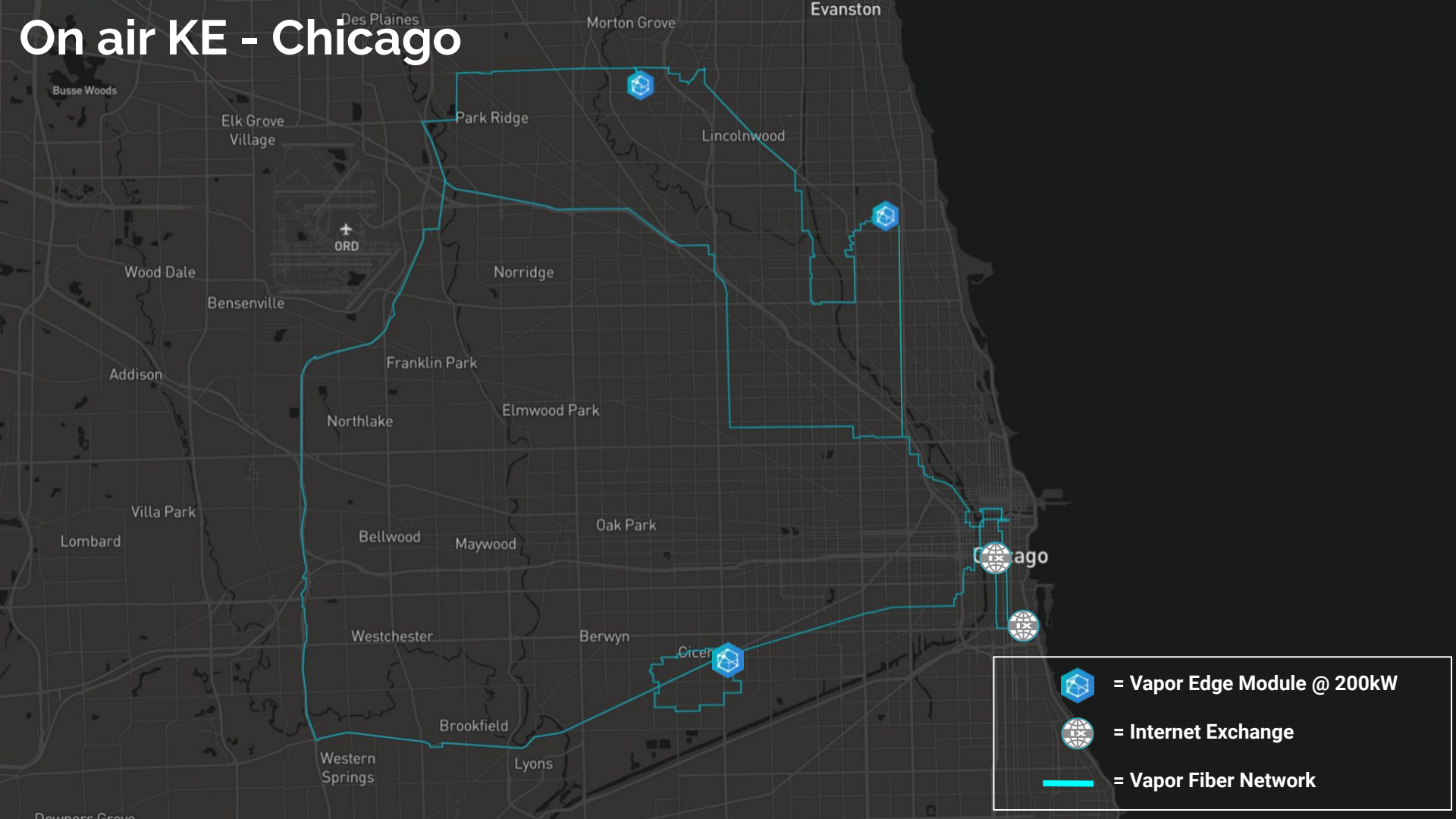
- Seattle
- San Francisco
- San Diego
- Raleigh
- Las Vegas
- Detroit
- Denver
- Connecticut
- Birmingham
- Austin
- Cincinnati

2021:

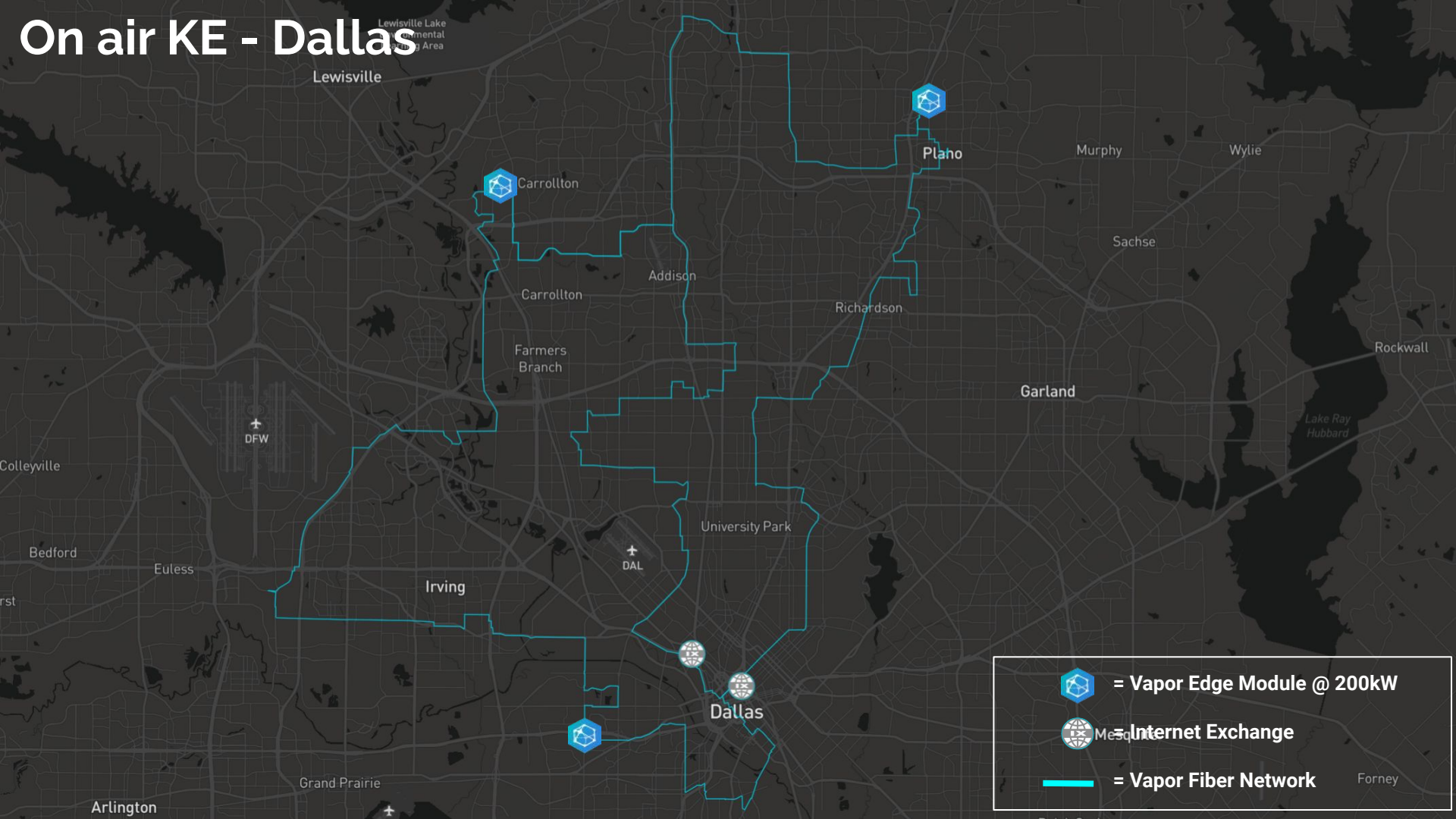
- Los Angeles
- TBD

VEM = Vapor Edge Module

On air KE - Chicago



On air KE - Dallas



= Vapor Edge Module @ 200kW

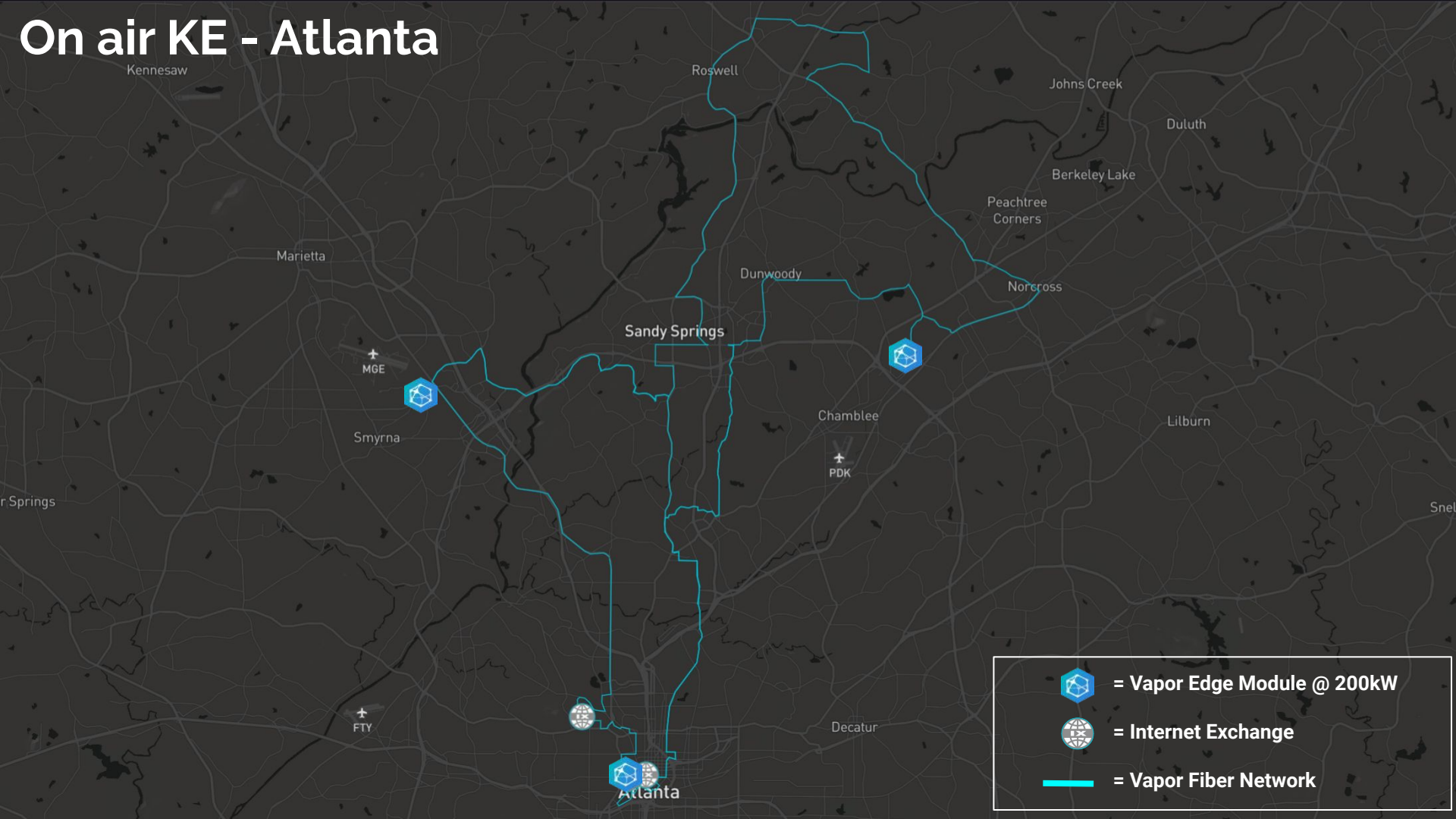


= Internet Exchange



= Vapor Fiber Network

On air KE - Atlanta



On air KE - Pittsburgh

