

CARRIER-NEUTRAL INTERNET EXCHANGE POINTS: WHY THEY ARE IMPORTANT FOR KANSAS

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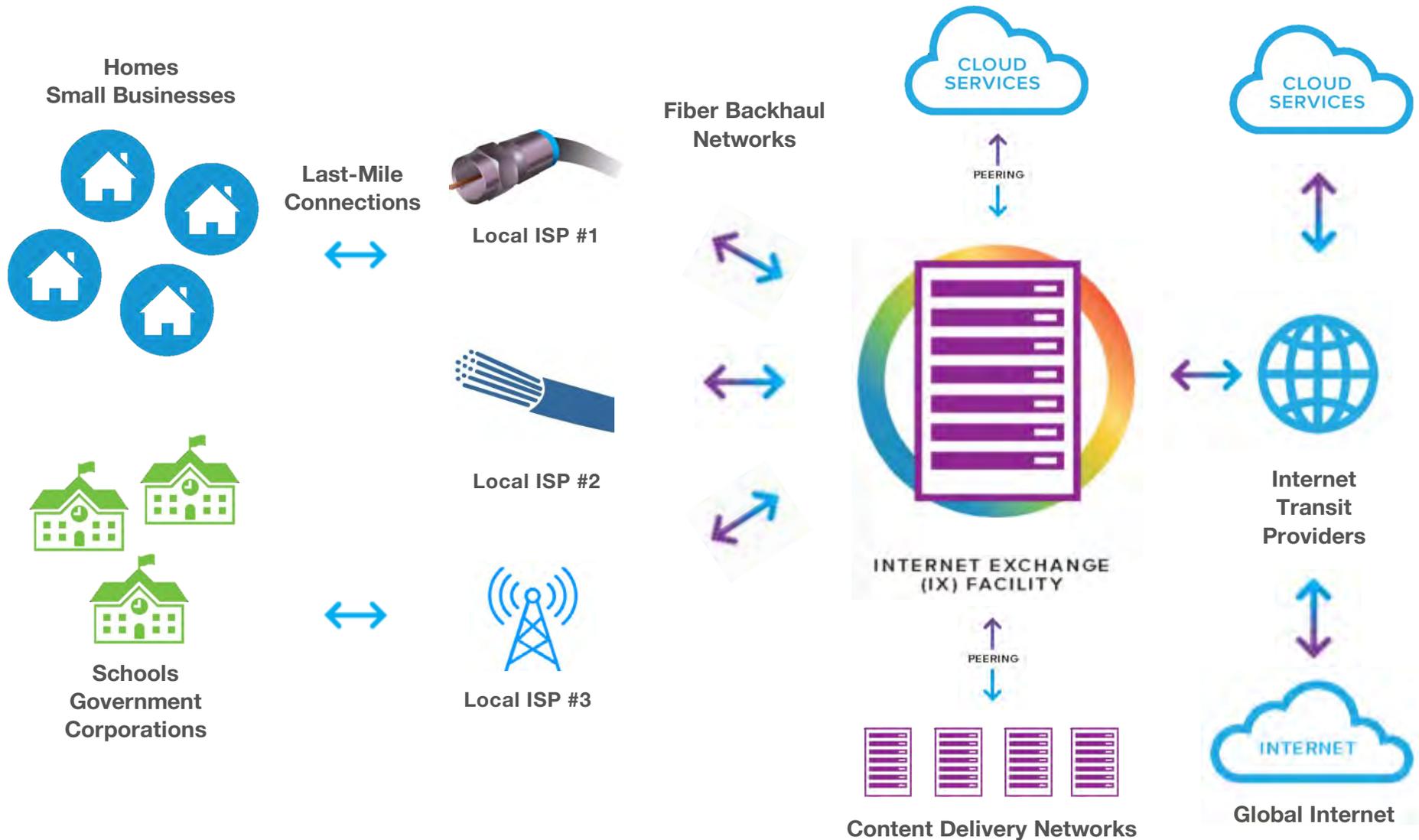
**CONNECTED
NATION**

About Connected Nation



- 501(c)(3) Non-Profit Organization
- Founded in Kentucky in 2001
- Programmatic work in 30+ states throughout our history; active projects in 13 states currently
- Mission – Closing the “Digital Divide”
- Key Focus Areas:
 - Impacting State & Federal Broadband Policy
 - GIS Broadband Mapping & Data Validation
 - State & Local Broadband Strategic Planning
 - School Connectivity & E-rate Program Strategy
 - Digital Literacy & Skills Training

HOW INTERNET TRAFFIC IS EXCHANGED



Network Interconnection in Kansas



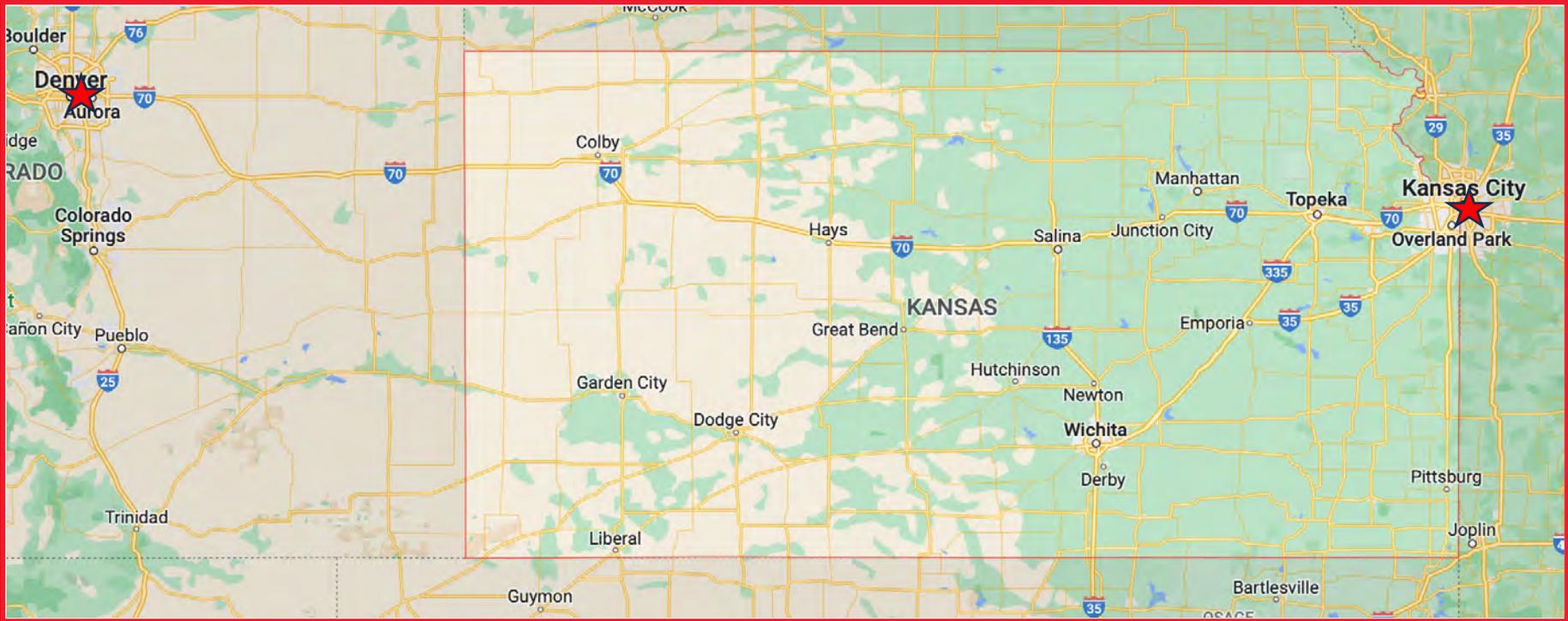
- No internet exchange points within Kansas; one of 17 states that does not have one
- Almost all of Kansas's internet traffic is backhauled to IXPs at 1102 Grand Blvd. in Kansas City or to 910 15th St. in Denver
- Cloud services and content streaming generally occurs from these cities
- Limited north-south connectivity through Wichita to Oklahoma
- Regional hub communities in Kansas (including Wichita) are not prepared for the future evolution of the internet where latency is as important as bandwidth

Regional Benefits of Internet Exchanges



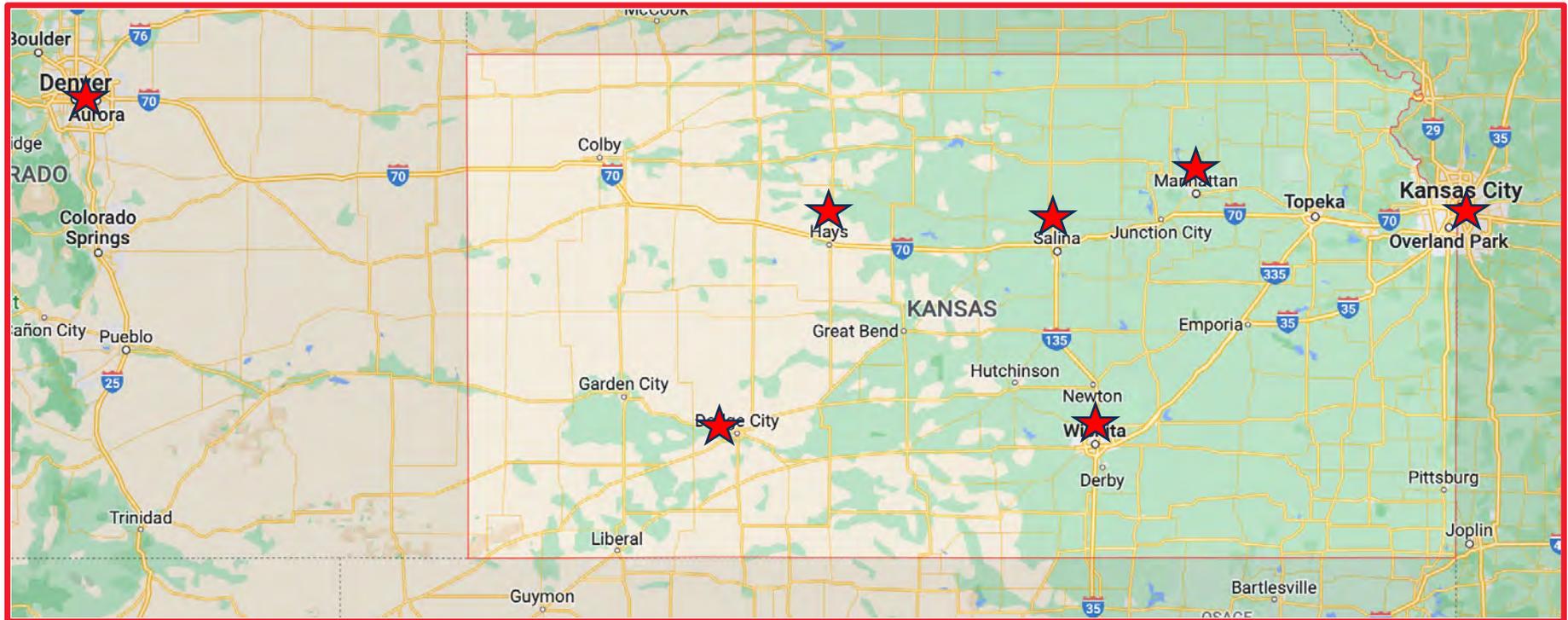
- Physical home for cloud services & content delivery networks
- Facilitates direct peering between local ISPs, backhaul providers, Tier 1 carriers, CDNs
- Keep local traffic local that needs to stay local
- Significantly reduces latency
- Reduce wholesale IP transit costs for local ISPs through better competition
- Increase network resiliency for all tenants

Current IXP Locations



1102 Grand Blvd in Kansas City and 910 15th St in Denver

Location Needs in Kansas



- Dodge City
- Hays
- Salina
- Dodge City
- Manhattan

4-5 New Regional Hub Locations

IXP Facility Exterior Rendering



*Modular Neutral Colocation Facility with
Perimeter Security, Parking, and Diesel Generator/Fuel Cell Backup*



Cutaway
Rendering

Video: What are IXPs? Why are they important?



Internet Exchange Points **IXPs**



<https://vimeo.com/637977595>

QUESTIONS?

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