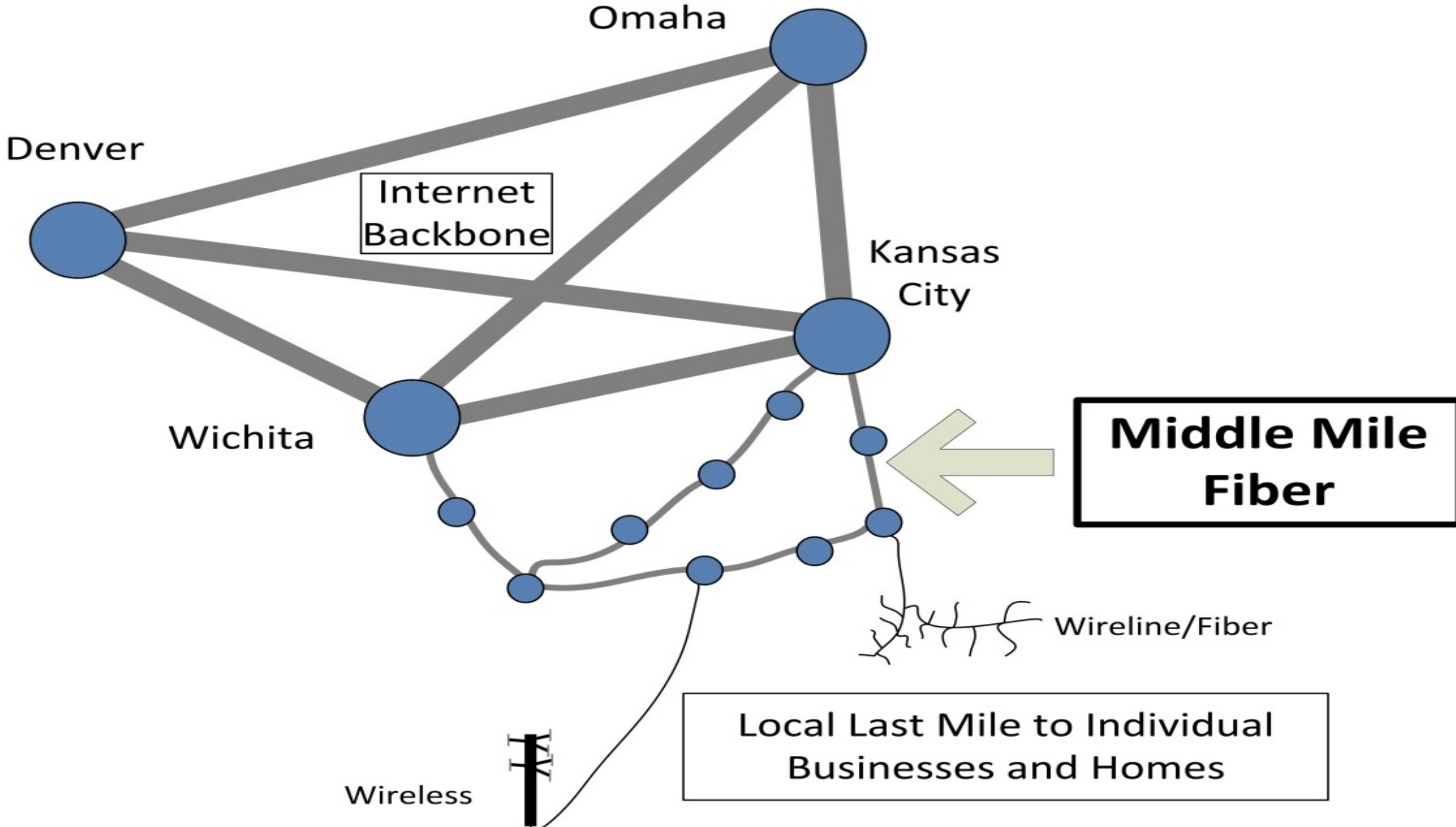
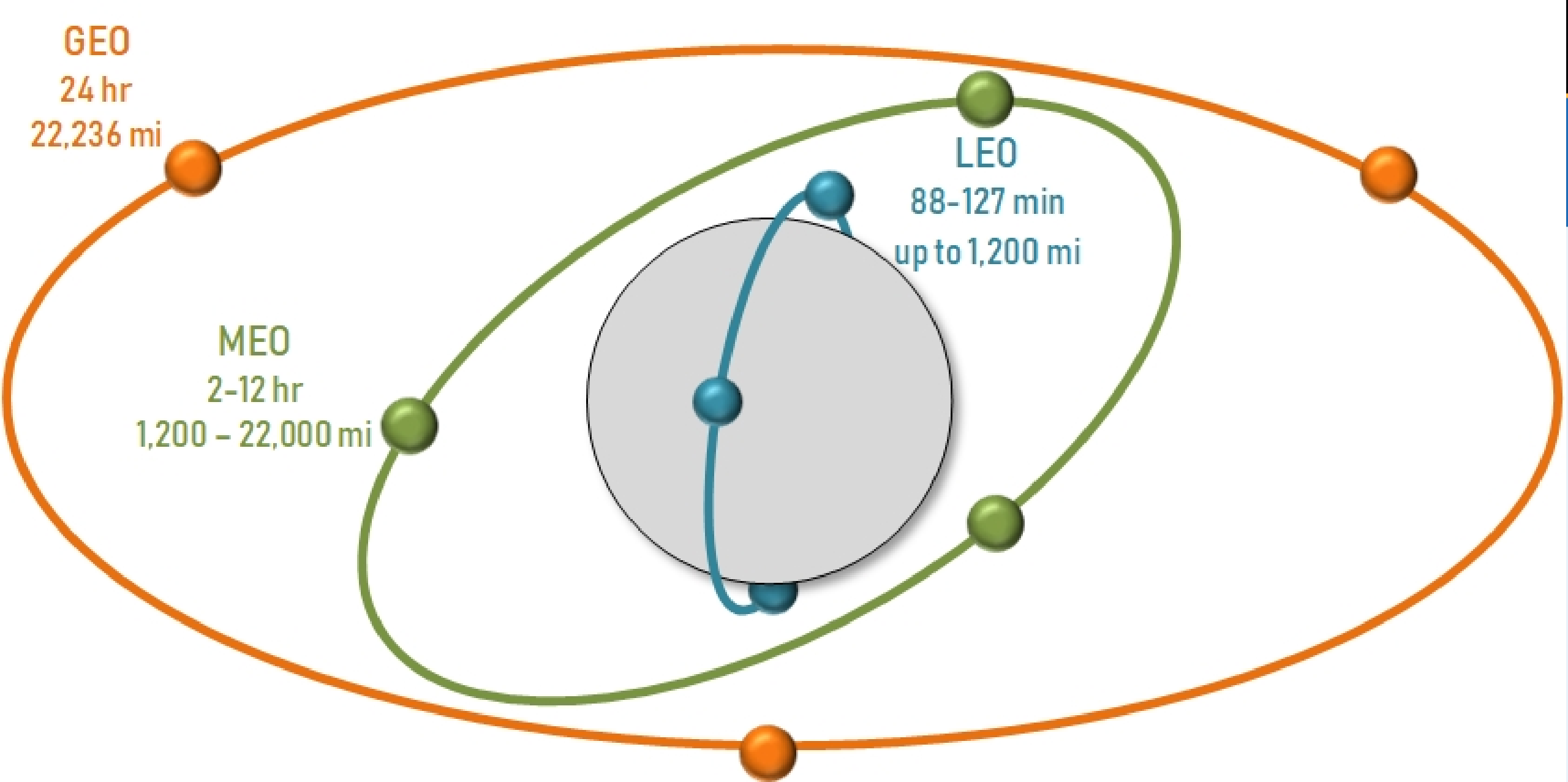


Broadband & Economic Vitality: the role of Culver City's fiber network

Joanne Hovis
Culver City, CA
September 2019



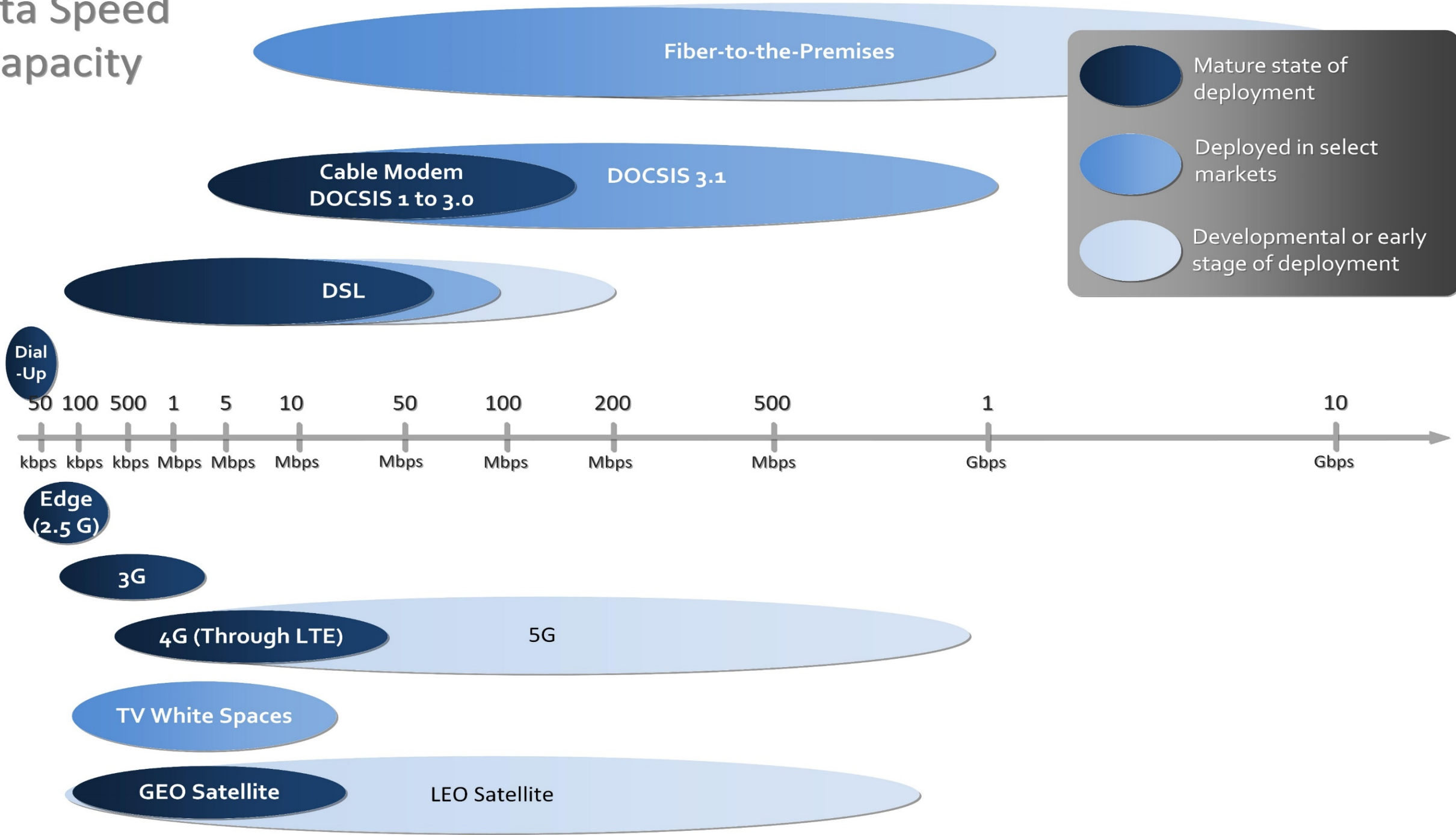




Satellite broadband: orbit and latency

	Orbit	Broadband speed	Latency
Geostationary <ul style="list-style-type: none">• Hughes• Viasat	22,236 mi	<ul style="list-style-type: none">• 2 to 30 Mbps down• Far less up	600+ ms
Low earth orbit <ul style="list-style-type: none">• SpaceX• Telesat• OneWeb	up to 1,200 mi	?	25+ ms

Data Speed Capacity



Minimum Time Required for Downloading and Uploading a 5 GB File

