

# Starlink Service in Vermont

## The Basics

- Constellation of Low earth orbiting satellites – reduces latency, improves bandwidth.
  - Satellites talk to users' receivers and Gateways
  - Gateways are connected to terrestrial wireline broadband networks
- Permitted to launch 12,000 satellites. Currently over 1,000 are in orbit.
  - Service is in "beta" form -- Users experience cut-outs or delays as satellites pass out of view
  - Latency is 20-40 MS (Not bad for satellite!)
  - Bandwidth ranges from 50-150 Mb
- CPG and ETC

## Benefits

- Short-term solution for rural users
- Provides internet in the most rural/wilderness environments
- Solves the "long driveway" problem – those unwilling or unable to pay for long drop costs of terrestrial fiber networks, this service may be a serious alternative option
- Telephone Service – As an RDOF winner, SpaceX is required to provide standalone telephone service. IF the company provides this service across its network, and IF it works well, this could be a viable alternative to copper-based landline service and for off grid locations.
- Competitive choice to DSL

## Future Benefits

- Intercontinental backhaul
- Public Safety solution?

## Concerns

- Will the telephone service be adequate?
- Risky Venture -- Will the company succeed and stay in business?
  - \$880M in RDOF awards nationwide. This is a big commitment
- While service is technically "available," will the pricing structure be affordable to those who need internet?