Enhancing the Competitiveness of Virginia through Early Access to Advanced Networks
The Geodesic Network

MSAP
Low cost fiber mesh
Optical gigabit ethernet

• Access to fiber is ALREADY as fundamental as water and sewer for economic competitiveness.
• New, dazzling information technologies that people will want will REQUIRE fiber everywhere.
• New fiber and Internet technologies are emerging to make this viable. (Old long haul fiber and telephone technology is not it … but those companies are well positioned if they will move).
• The Geodesic Network is a way to make it happen right now.
Grant PUD Fiber ➔ Local Entrepreneurs

Internet, fiber and wireless. For profit. Based in Odessa, WA

Internet. Electric cooperative. Based in Prosser, WA

Internet, fiber and wireless. For profit. Based in Grand Coulee, WA

Internet. For profit. Based in Moses Lake, WA

Internet, community portals. For profit. Based in Wenatchee, WA

Internet. For profit. Based in Moses Lake, WA

Internet-based telephone, Internet, Audio/Video Streaming. For profit founded in 1999. Leveraging Electric Lightwave, Zipp, others. Based in Wenatchee, WA

Interactive, high bandwidth, Internet-based video, audio, entertainment, distance learning. Digital TV packages up to 150 channels starting at $39.95 including high speed Internet access. Startup for profit based in Kent, WA.
MSAP is a community focal point, a “DMZ” for service delivery, co-location, exchange, and switching.
The Geodesic Network Mesh

**2. Low Cost Fiber Mesh**
- MINIMUM cost fiber spans between communities.
- Reliability through diversity.
- Multiple fibers, small portion allocated to open access network, some available for lease, economic development use.
- MSAPs and Fiber Mesh owned and operated by “provider neutral” entity. Non-profit or new for-profit model.

**3. Gigabit Open Access Network**
- Utilize some fiber to build gigabit next generation internet overlay.
- NGI technology and protocols (IPv6, multicast, QoS)
- Low cost optical ethernet.

**1. MSAPs distributed in communities and at large sites for service delivery and local switching, exchange, co-location.**
Political Representation: Geodesic Network Mesh

All incorporated jurisdictions along final chosen routes will be connected.

= County Seats
= City
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