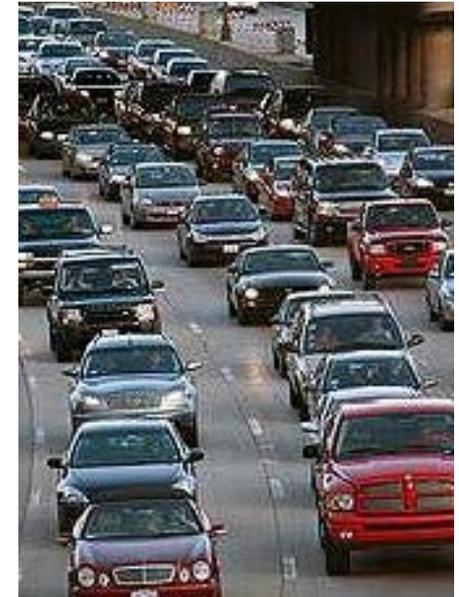


COATN 2.0

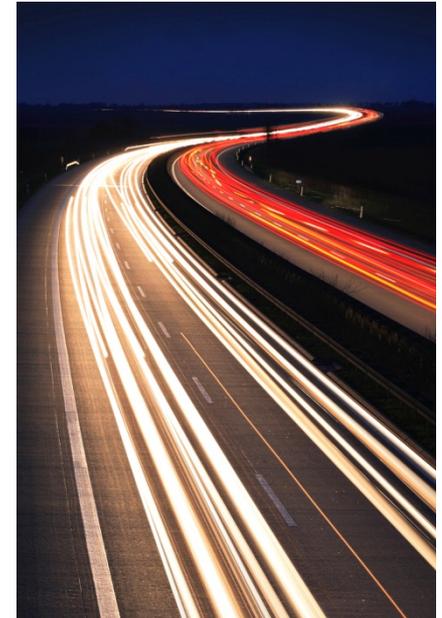
Apr-8-2015



- Congestion
 - Traffic doubling every 18 months
 - Unpredictable arrival
 - Finding alternative paths or “short cuts”
- Speed
 - We need to go faster
 - We can go faster
- Payload
 - We’re transporting more today than ever



- Congestion
 - Increasing lanes 16 times
 - 40x more lanes in the center
 - High predictability
 - Multiple paths
- Speed
 - 10 times faster per lane
- Payload
 - Wont be a problem for 10 to 15 years



Current network technology End-of-Support was December 2014

No more manufacturer support or spare parts

Video-based business applications are driving network current capacity requirements

APD In-Car Video, Crime Cams, Electronic Security Cams, Video Conferencing, Traffic Video, Multi-Media Web, Fusion Center, etc.

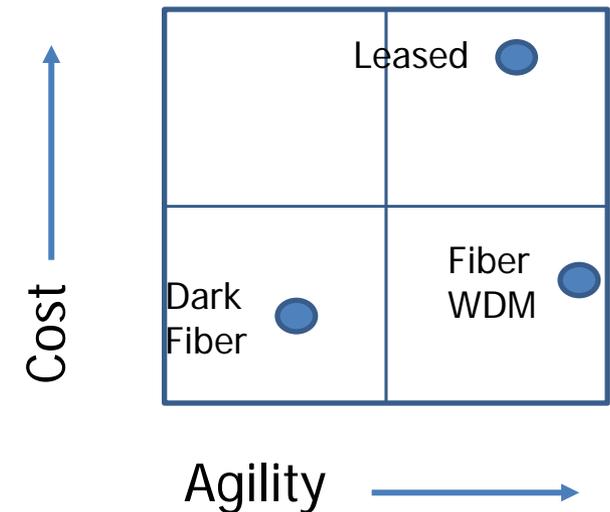
1 Word Document is about 100KB or 1 sheet of paper



1 video file for APD is about 3,000,000KB or 30,000 sheets of paper or 10 boxes



- Network Capacity demand doubles every 18 months
- Leasing the network services is up to 95% of cost of putting in a network between 2 buildings.
- COA participates in GAATN reducing our cabling costs to 1/7th the amount of building it out on our own.
- WDM optimizes the utility of communication between buildings



- Network speed
- Traffic separation (lanes)
 - public safety
 - control systems
 - enterprise computing
 - public access networks
- Supports 30% traffic growth for next 10 to 15 years
- Rapid provisioning

