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## Delivering PON Fiber and DOCSIS on a Converged Broadband Platform

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Head of Cable Segment at Intel

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# Trends Driving Broadband and Bandwidth Growth

## Key Market Trends

Subsidies supporting broadband expansion and speed improvements

- Total US subsidies of \$130B through 2030
- WEU subsidies of \$60B for fiber buildouts

Continued growth in data consumption increases customer bandwidth requirements

- 18% CAGR in residential Internet traffic from CY17-CY26
- High interest in low-latency use cases

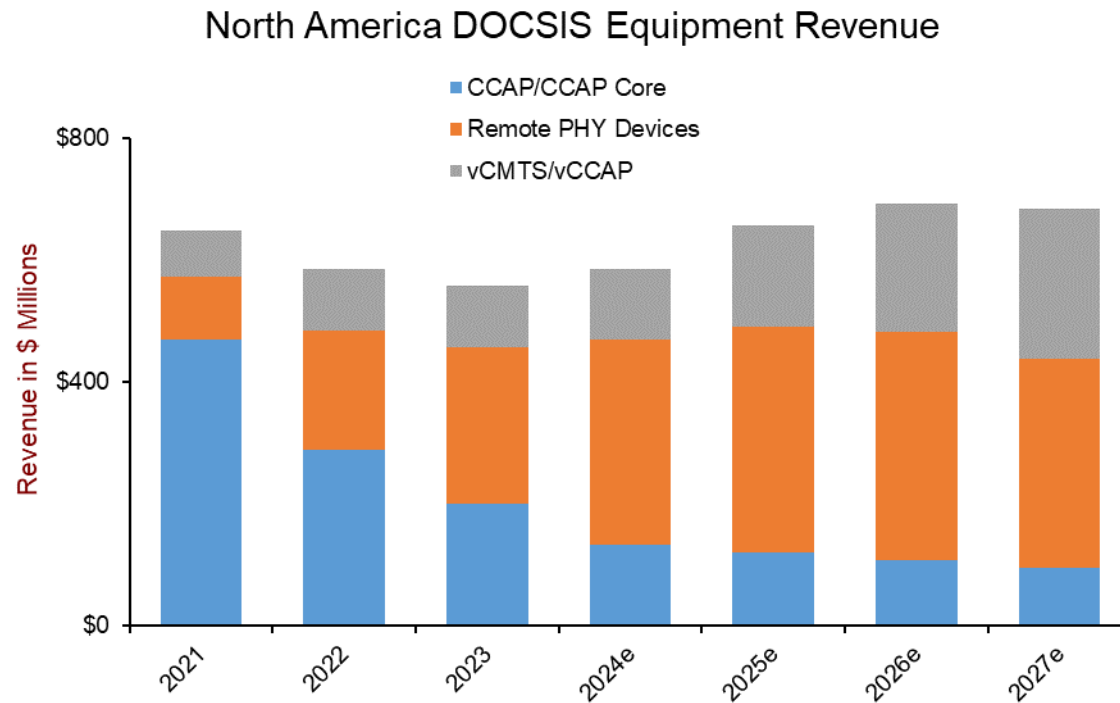
Increase in addressable markets for broadband technologies

- Residential → Enterprise → IoT → Mobile and Edge Transport

Unknown impact of generative AI and other data-intensive applications

- Still too early to know the impact on access networks, but generative AI and ML will require significant improvements in processing capabilities at the edge

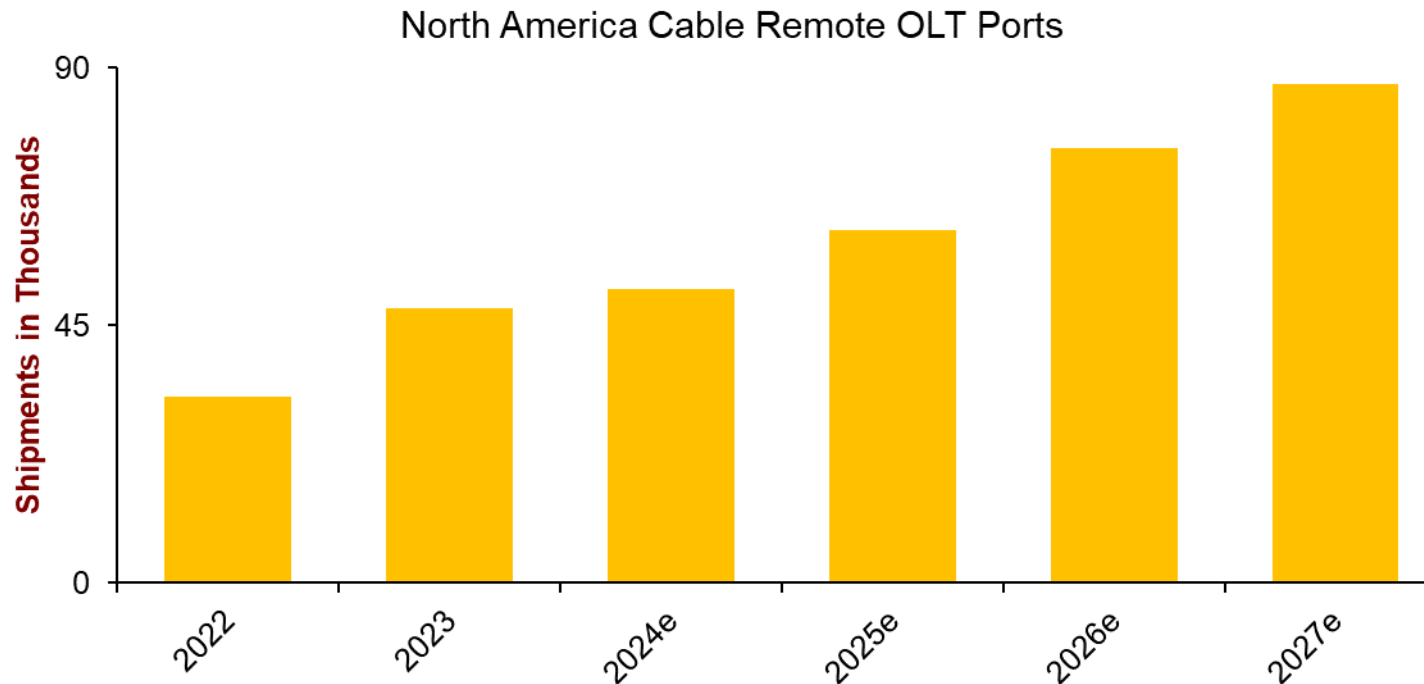
# Operators Adopting Virtualized Platforms



- ❑ Still in early stages of DAA, virtualized deployments
- ❑ RPDs running ahead of vCMTS
  - Tied to MAC Cores provided by legacy CCAP platforms
- ❑ Convergence at the edge will drive vCMTS transition



# Cable FTTH Deployments Increasing



- ❑ Growing number of operators using R-OLTs for edge-out applications
- ❑ Platforms increasing density, integrating long-range optics to support more use cases
- ❑ vCMTS platforms can also perform vBNG functions
  - Operators can manage end points similarly

# L-CMTS and vCMTS Platforms



The legacy CMTS (L-CMTS) is based on custom hardware and is built by equipment vendors.



The virtualized CMTS (vCMTS) is software application workloads deployed on COTS rack.

# Converged Platform and Its Physical Infrastructure

