



BROADBAND

SUMMIT

JAN 26-27, 2023

SAWGRASS MARRIOTT
ST. JOHNS COUNTY

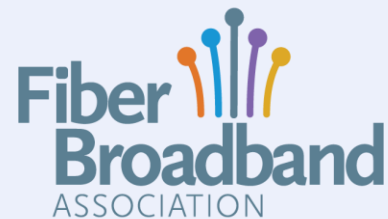


Strategies to Mitigate Bottlenecks in the Current Fiber Broadband Supply Chain

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The Supply Chain Anatomy

THE SUPPLY CHAIN CHALLENGES:



Raw Material
Shortages



Assembled
Component
Challenges



Labor
Shortages

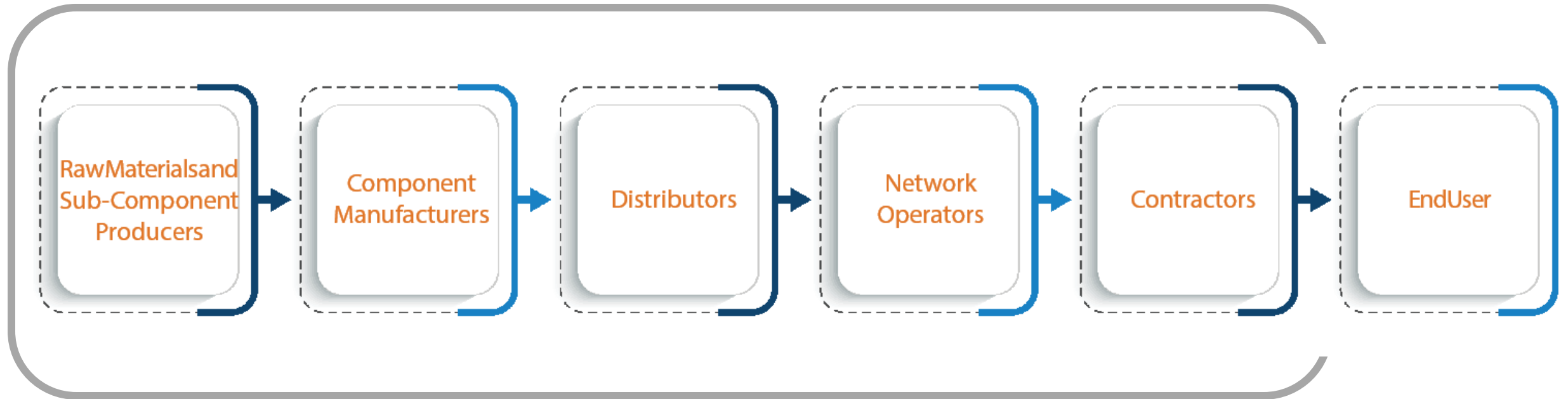


Increased costs across
the supply chain



Shipping and
Logistical Delays

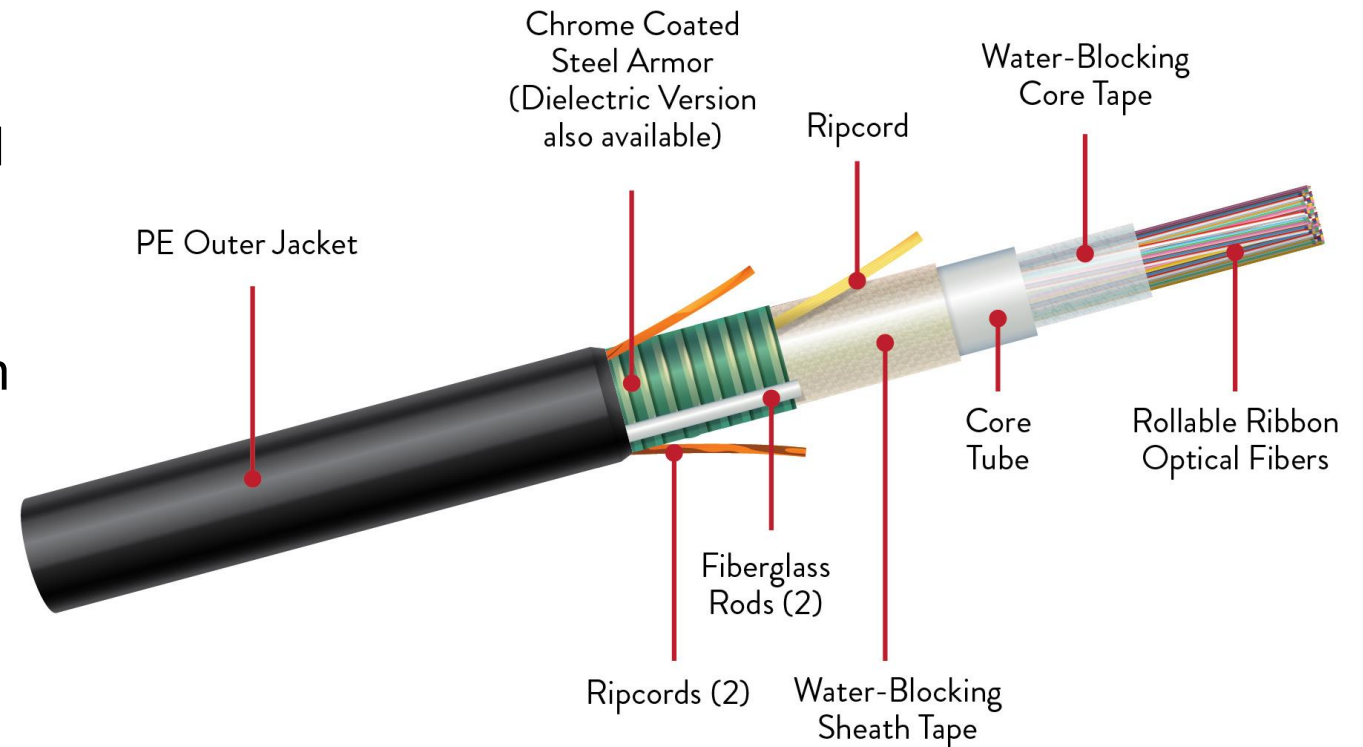
The Distribution Chain



The FTTx supply chain: manufacturers source raw materials from multiple tiers of suppliers; make a finished product to sell to distributors and/or directly to network operators/sometimes contractors; network operators perform and/or contract out part or all of the build

Raw Material Challenges – Optical Cable

- 72M miles of US fiber demand in 2021
- 109M miles of fiber was produced in 2021
 - 37M miles of fiber surplus (34%) was exported
 - Glass fiber supply can be shifted from export to domestic use
- Optical cable in short supply
 - Petroleum, resin, helium, neon, methane, steel, copper, aluminum, wooden reels



Industry Supply Chain Lead Times (Summer '22)



Current lead times for various critical components with no contractual commitments (September 2022 Fiber Broadband Association)

Suppliers are adding cable capacity as quickly as possible and lead times are expected to come down as capacity ramps up.

Mitigation Strategies

- Relationship Building and Communication
- Capacity Build Out and Nearshoring
- High Level Design
- Product Substitution
- Training Programs
- Vendor Diversification
- Scheduling Management and Forecasting
- Smarter Technology
- Move away from Just In Time

Long Range Forecasting is Paramount

Fiber Broadband Supply Chain White Paper

