

Is your FTTH network prepared for the **FUTURE?**

Sergio Calado
Fixed Networks





IMMERSIVE VIDEO EXPERIENCE DRIVES GREATER BROADBAND ADOPTION

x10

Internet Video
Surveillance Traffic
Growth 2015~2020

82%

of Internet traffic will
be for IP video in
2020

1 million

minutes of video
transmitted every
second in 2020

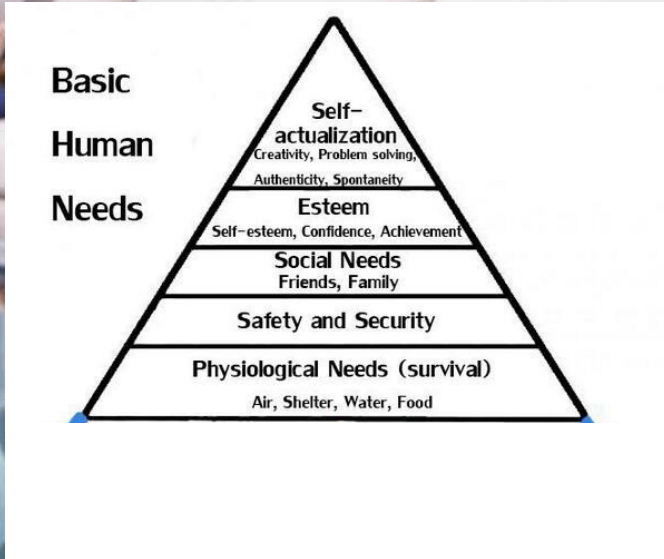
200 million

VR Headsets to be
sold by 2020

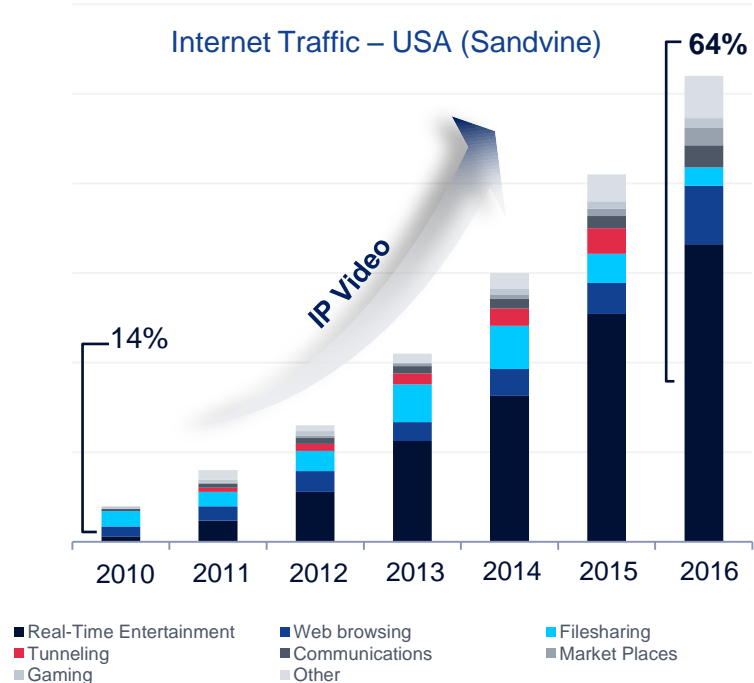
5 million

years to watch all
the video shared
every month in 2019

New Pyramid of Needs includes WiFi



Migration from legacy to IP Video drives Fixed Networks capacity demand



Consumers are “cutting the cord”

- Demand new and better content
- Want to watch what they want, when they want
- Get tired of paying for content they don't want

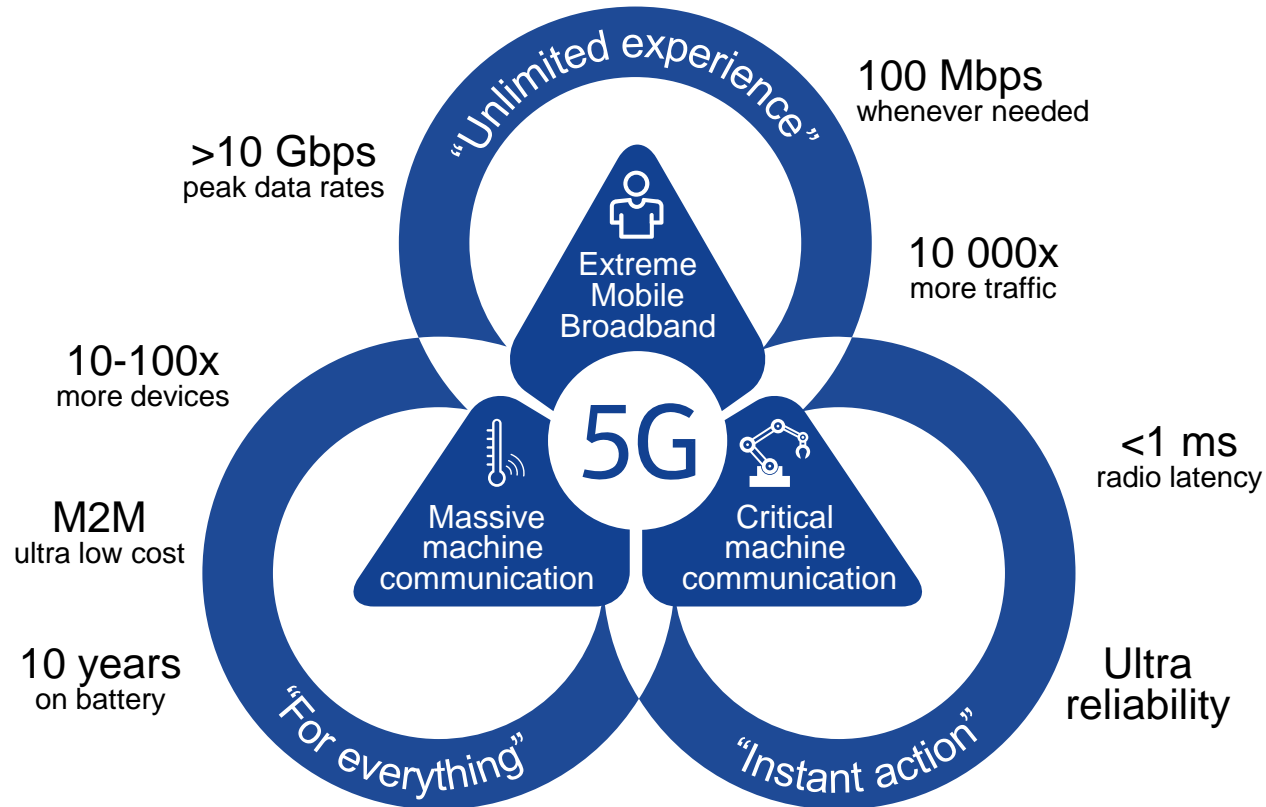
OTT providers are changing the equation

- Using Fixed Networks data capacity
- Creating video competition

Fixed Operators have responded

- With their own IP video services
- Converting legacy video to IPTV

5G will change everything

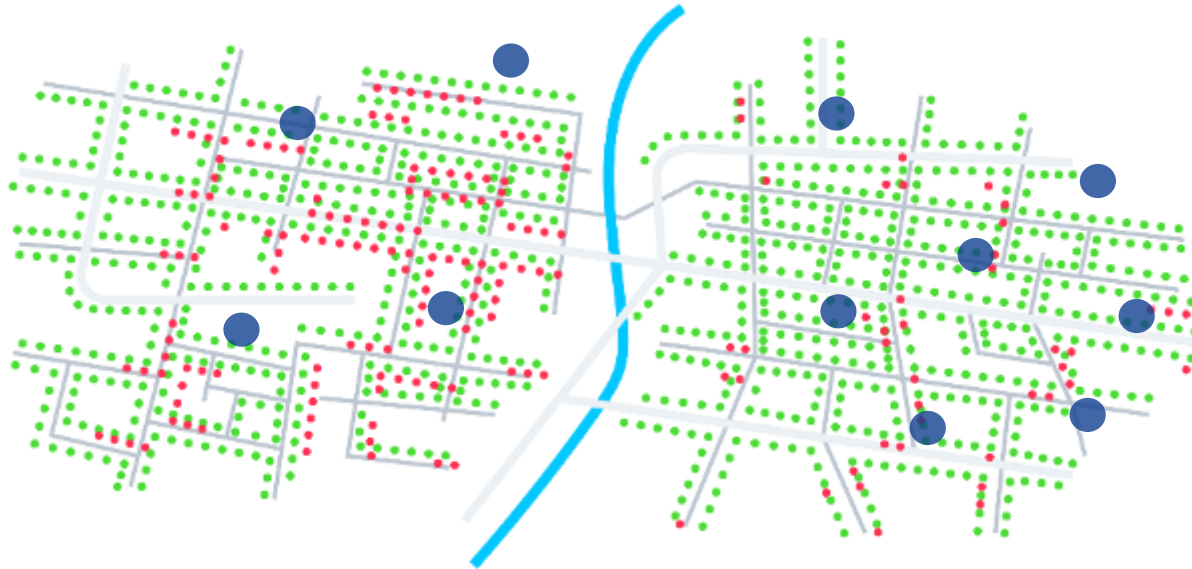


Leveraging residential FTTH for Any Kind of Services.

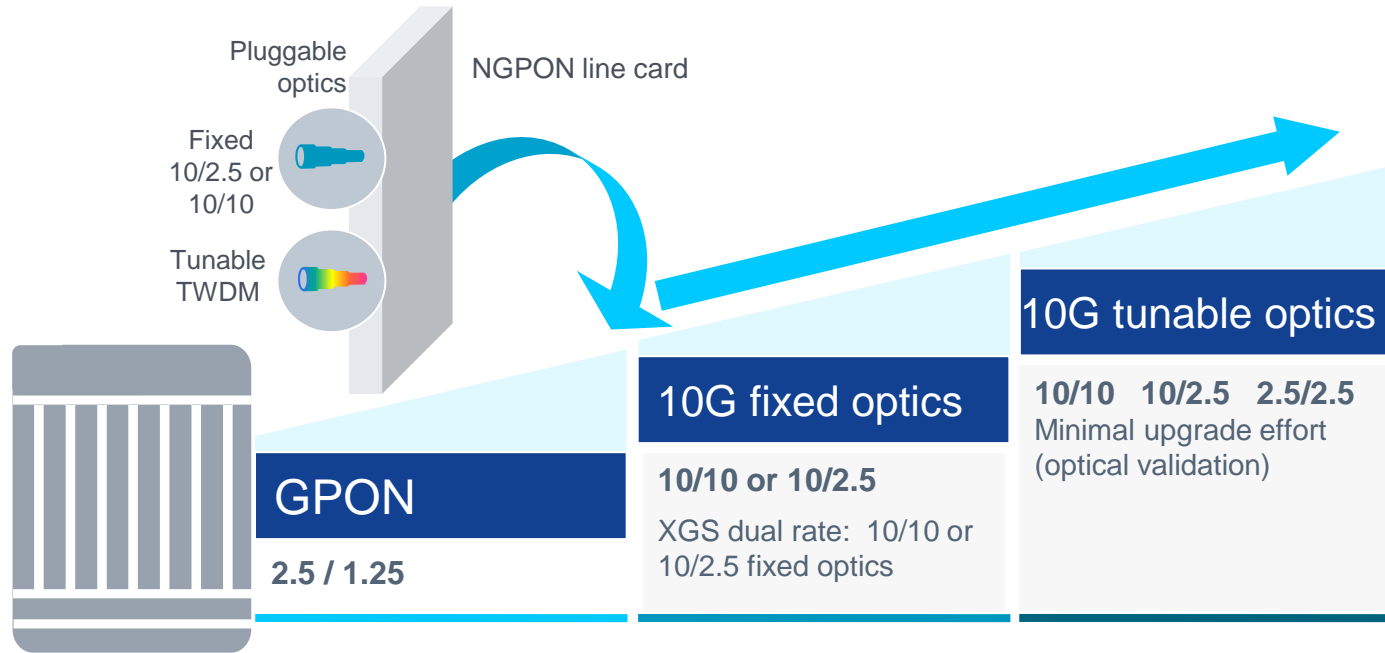
- Businesses
- Planned cell sites
- Residential FTTH

Best Way to Lower TCO is to converged any service in the same Access Network

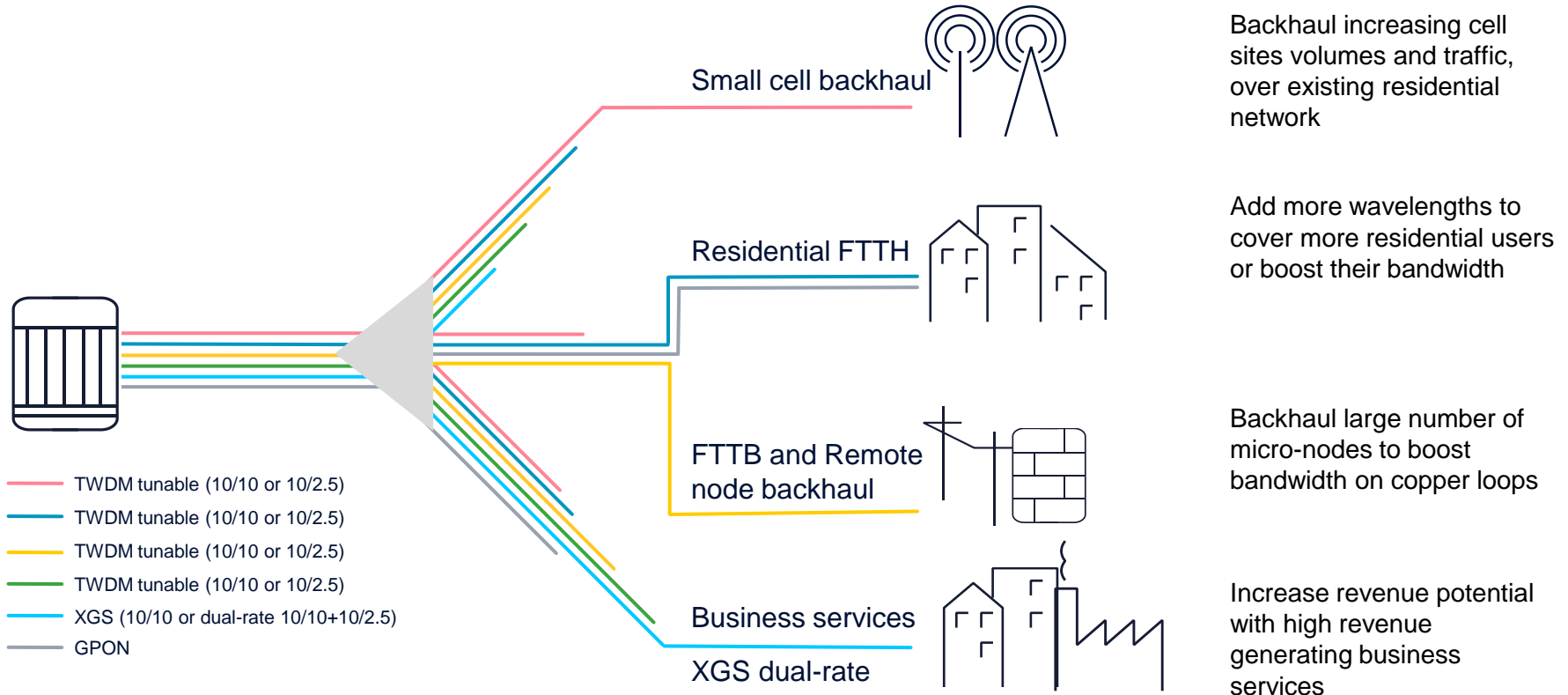
Looking for new services to complete the Business Case



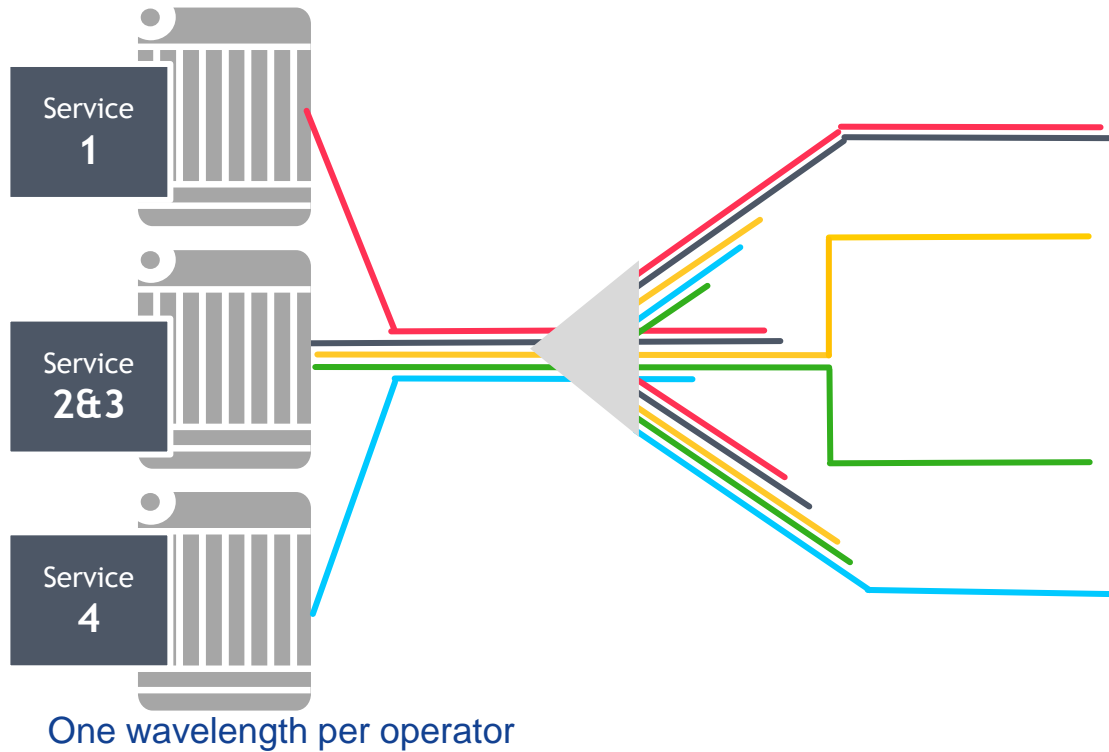
Nokia's Universal NGPON solution supports various 10Gbps technologies and eliminates tough decisions



A single network for all your services and faster network monetization



TWDM provides greater flexibility for service differentiation



Share the cost and risk of deployments and operations



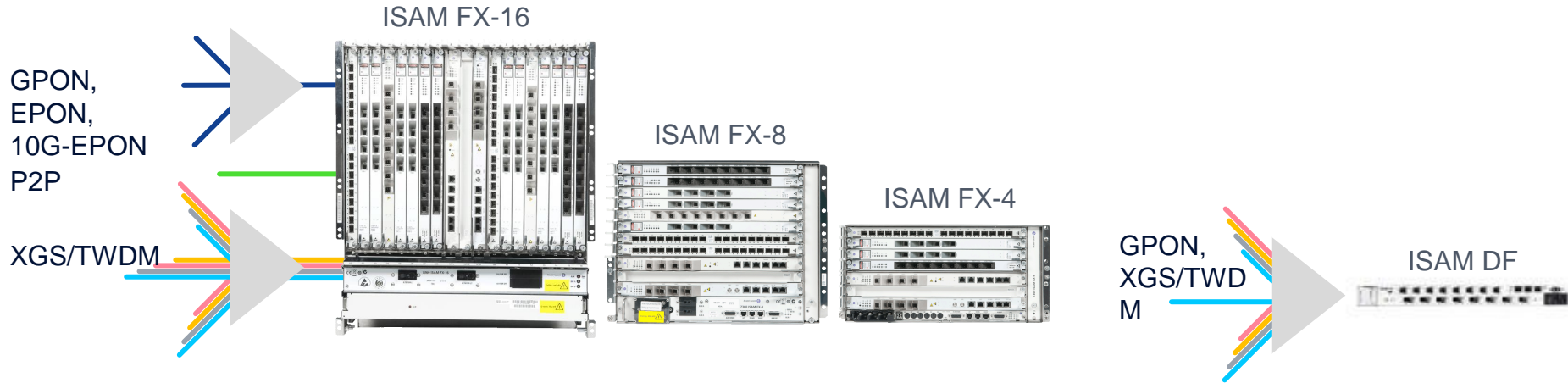
Separate bandwidth, QoS, active plant and evolution



Joint-ventures and government owned networks

Nokia's fiber OLT portfolio

ISAM FX and DF



From **GPON** to **NGPON** without fork-lift

Universal approach for the right service at the right cost

10Gb/s
Symmetrical services

TWDM
wavelengths
mobility

Market leading **capacity:**
10 Tb/s total
2.5Tb/s switching
360 Gb/s uplink

Different form factors for deployment flexibility and **cost-efficiency**

NOIKA

A blurred photograph of a modern, curved hallway with orange wood-paneled walls and a white tiled floor. People are walking through the hallway, their figures blurred to convey motion. The word "NOIKA" is overlaid in large, semi-transparent white letters across the center of the image.