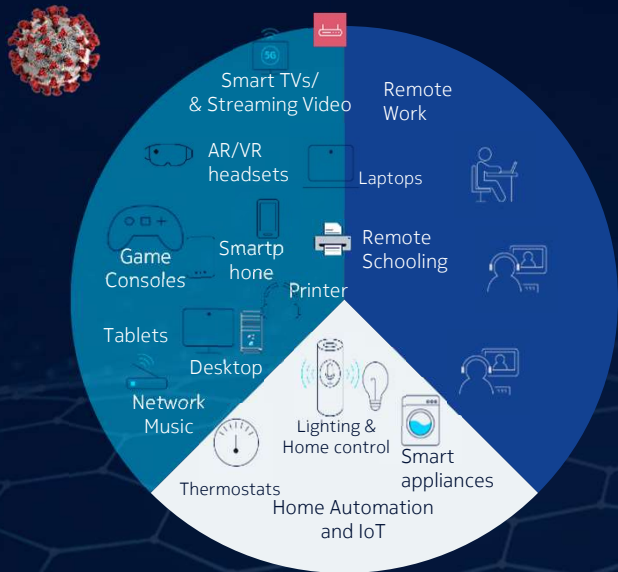


Critical Networks as Socio-Economic Fabric

Azfar Aslam
Vice President & CTO Europe

The Journey Ahead



The Battle for super-home

Industrial Automation



Consumer Metaverse



Industry 4.0 & Meta-worlds

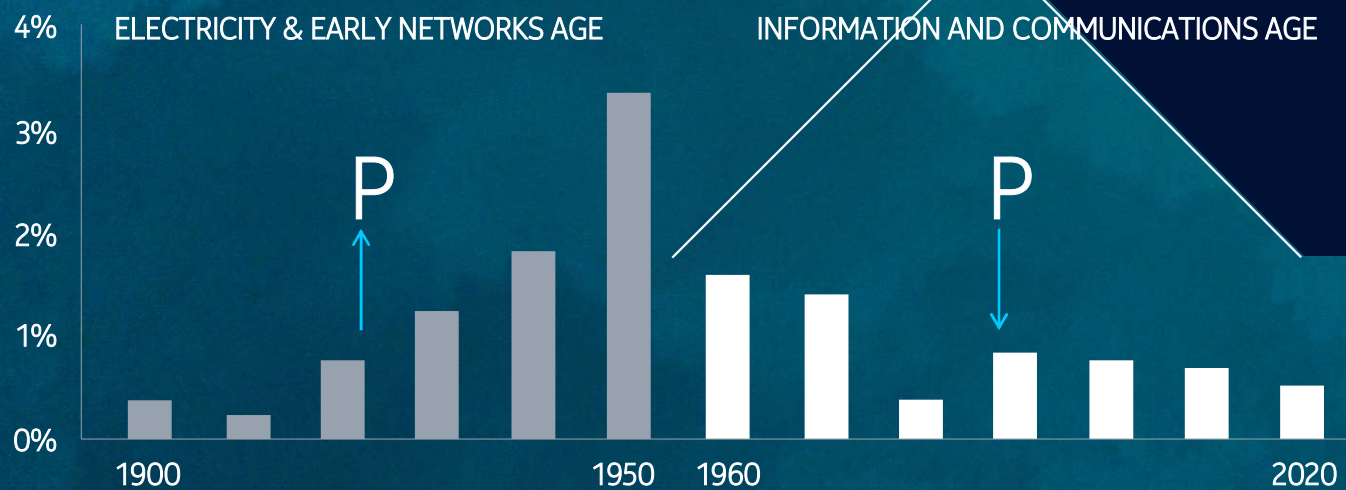
Productivity



Enrichment



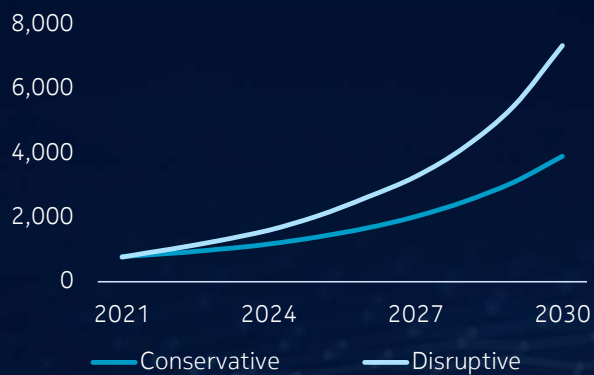
Productivity Growth



SOLVING FOR
STAGNATION
IN PRODUCTIVITY
GROWTH

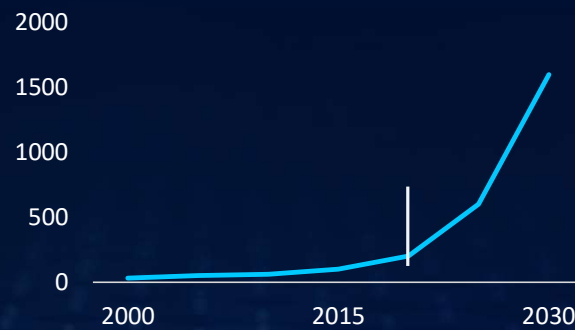
So, where are we heading

CONSUMER FIXED TRAFFIC, EB/YR



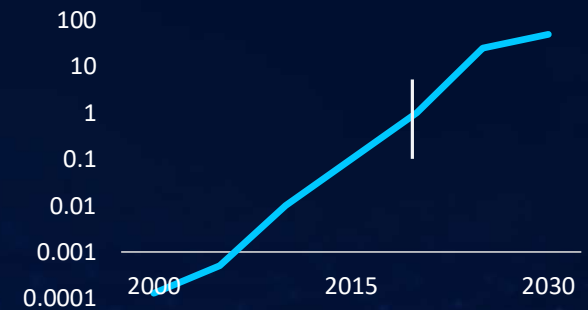
5x -10x growth through 2030
Accelerated & increased VR streaming

SPECTRUM AVAILABILITY (MHz)



200MHz in 30yrs
10x in next 10yrs!

FIBER ACCESS (Gbps – Log Scale)



1Gbps in 15yrs
100x in next 10yrs!

GPON

XGS-PON

25G PON

50G

100G

A disruption enabled by technology evolution

Capacity

100G

- 25Gb/s today
- 100Gb/s demo

SDN



- Network slicing
- Automation

Low latency



- 1 ms
- Industry 4.0, Anyhaul

Reliability



- Mission critical
- Minimum five nines

Green



- 6-8x lower carbon footprint than copper, coax or wireless