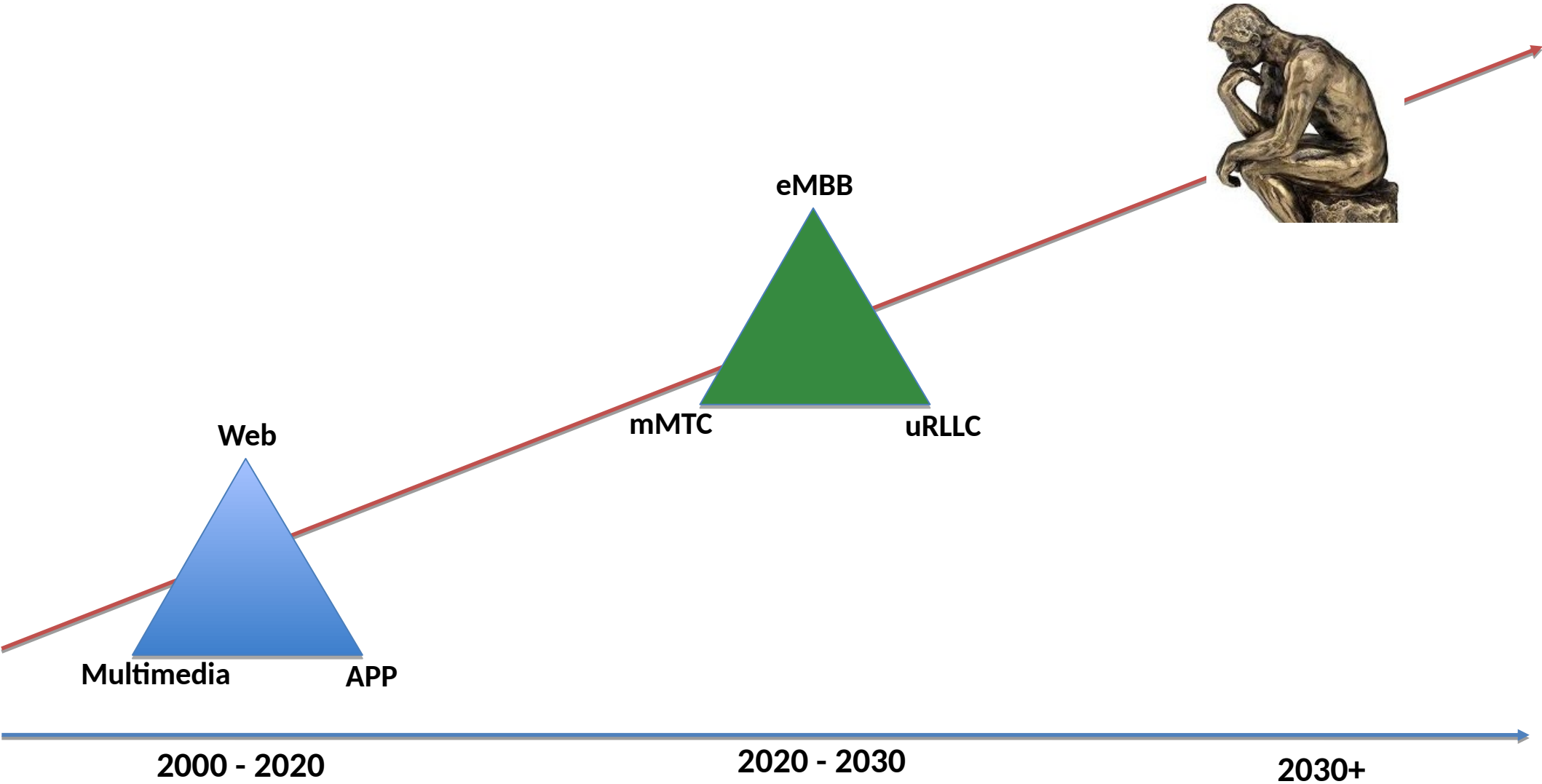


# Future Networks in the Year 2030 and Beyond

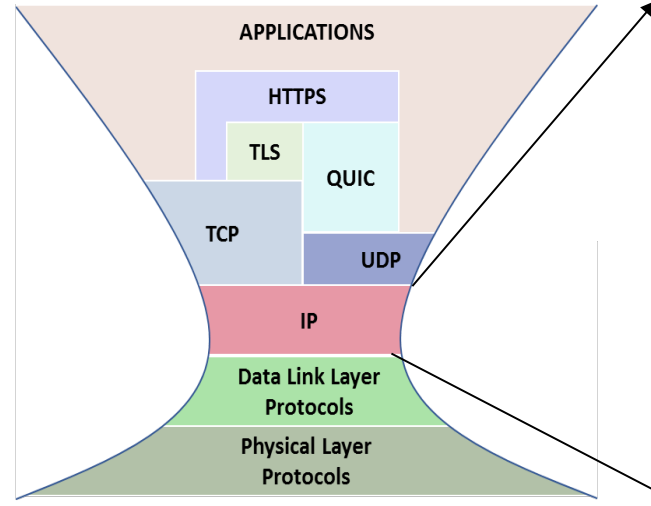
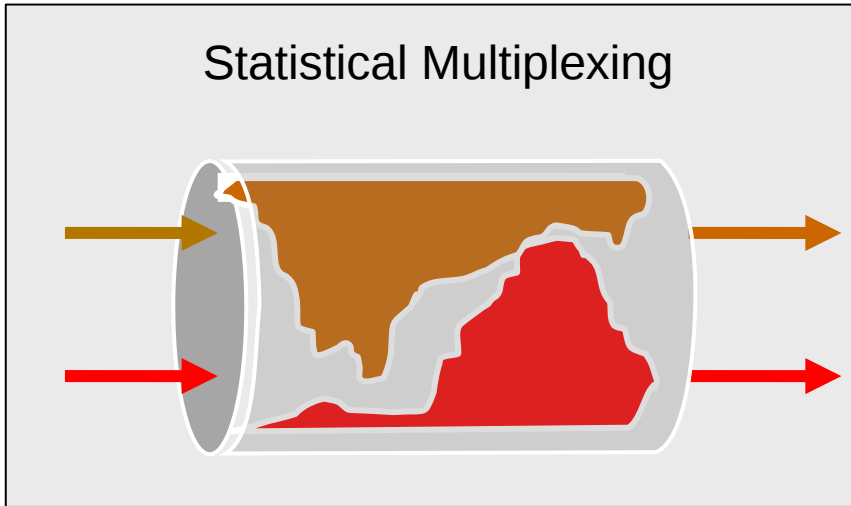
**Richard Li**

[richard.li@futurewei.com](mailto:richard.li@futurewei.com)

# What will be the market drivers in the year 2030 and beyond?



# Current IP



## Capabilities and Services

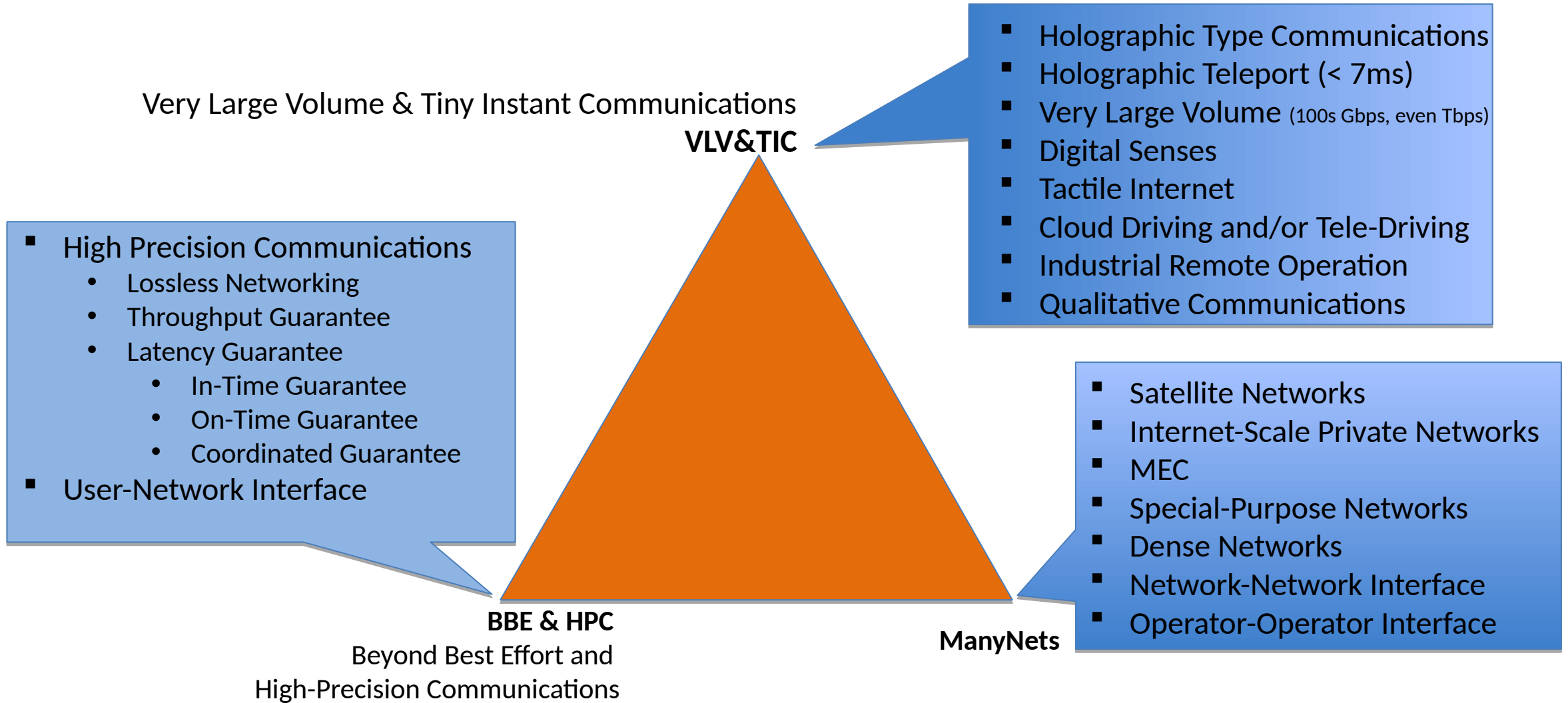
- ❖ Best Effort (default and mostly used)
- ❖ DiffServ (on a per-hop basis)
- ❖ Traffic Engineering
  - Traffic Steering (Explicit Path)
  - Bandwidth Guarantee
  - Fast Re-Route

Packet switching:	2019-1961 = 58 years
TCP/IP (Cerf's paper):	2019-1974 = 45 years
IPv4 (RFC 791):	2019-1981 = 38 years
IPv6 (RFC 1883):	2019-1995 = 24 years
MPLS (RFC 3031):	2019-2001 = 18 years

*Innovation above, below, and alongside;  
But, limited innovation "inside" the 'Net';  
But, the inside of the network does need to change;  
We are desperate to innovate inside*

Jennifer Rexford, ACM SIGCOMM 2018 Keynote Speech

# New IP Frontier – Market and Business Drivers



You are invited to join us and participate in a side meeting

Room: Orchard

08:30 am – 9:30 am, Wednesday, 20 November 2019