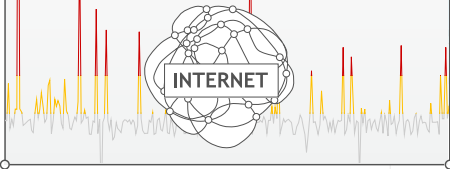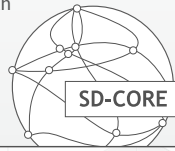# MODƐ
HIGHEST-PERFORMING SD-CORE

1. BUSINESS NEEDS A NEW BACKBONE

The internet isn't reliable enough for mission-critical business, or for applications that require low-latency like UC. In fact, 99.5% of latency variance happens in the core (first + middle miles). Hardware-defined private networks like MPLS are very reliable, but inflexible and costly. Businesses need a better internet core alternative.

INTERNET

2. THE PROMISE OF SD-CORE

SD-CORE brings software-defined infrastructure to the network core. The ideal SD-CORE is a carrier-grade global network offering control, agility, flexibility, and elasticity — at a business-internet price point. This isn't possible without replacing the way networks route data with something much better.

SD-CORE

3. MATH TO THE CORE

7 - APPLICATION
6 - PRESENTATION
5 - SESSION
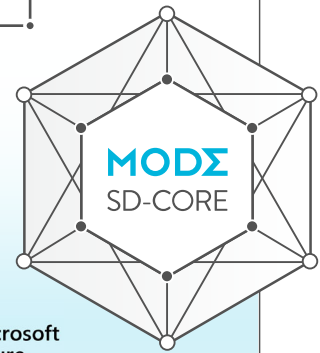4 - TRANSPORT
3 - NETWORK
2 - DATA LINK
1 - PHYSICAL

The Mode breakthrough changes networking forever. Mode is based on a math discovery that replaces traditional routing at layers 2 and 3 of the OSI model. This allows Mode — and Mode alone — to deliver the theoretical limit of network performance.

4. MODE IS THE HIGHEST-PERFORMING SD-CORE

Mode has partnered with Microsoft, Ericsson, and over 100 global service providers to apply our routing breakthrough to a massive, secure, underlay network, creating the highest-performing SD-CORE in the world, Mode SD-CORE. True MPLS Reliability. Cloud Elasticity. Business-Internet Pricing.

MODƐ SD-CORE

ERICSSON
UNIFIED DELIVERY NETWORK

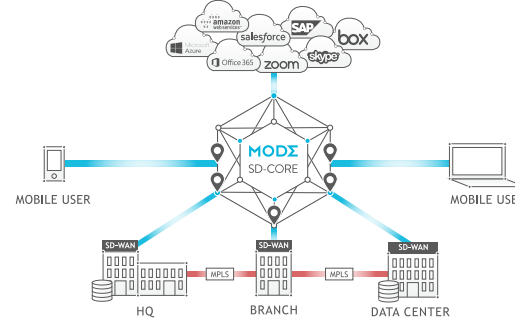Microsoft Azure

5. SOLUTIONS

INSTANT, GLOBAL UCaaS RELIABILITY

UC providers use Mode SD-CORE as a global core network — alone, or alongside their own core network — to deliver ultimate UC performance worldwide for hundredths of a cent per video connection minute.
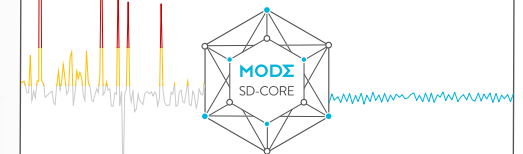
EXTENDING THE VALUE OF SD-WAN AND MPLS

SD-WAN providers use Mode SD-CORE side-by-side with MPLS as an affordable, elastic, reliable private network with SLA guarantees for UC, SaaS, remote access, and site-to-site. Service Providers can extend their core MPLS networks globally with superior economics using SD-WAN and Mode SD-CORE.

MODƐ SD-CORE

MOBILE USER   MOBILE USER

SD-WAN   SD-WAN   SD-WAN
HQ   BRANCH   DATA CENTER
MPLS   MPLS

PURE MATH BACKBONE FOR A POST-HTTP WORLD

Developers with ultra-low latency (ULL) needs use Mode SD-CORE for its global performance-first backbone, and the near elimination of latency variance and packet loss.

MODƐ SD-CORE

For more information about Mode SD-CORE, contact sales@mode.net.

$$\text{If } r_u^t > 0, \quad \dot{a}_{u,v}^t = -\frac{a_{u,v}^t \cdot \delta}{\eta_u^t r_u^t}, \quad v \neq \bar{v}$$