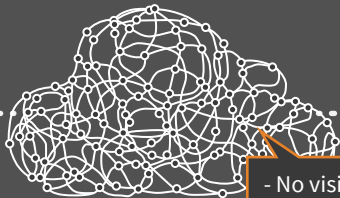# Internet-Connected Cores: A Comparison

BASIC INTERNET

WHAT MATTERS MOST: → LOW COST

- No visibility
- No direct control

WHAT DOESN'T MATTER
- Private Network Performance
- High-Performance SLA
- End-to-End Security
- Compliance

USE CASES
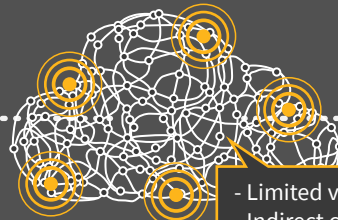Internet Breakout,
Basic Site-to-Site,
Basic Site-to-Cloud

PROVIDERS
ISPs

OPTIMIZED INTERNET

WHAT MATTERS MOST: → BETTER-THAN-INTERNET PERFORMANCE

- Limited visibility
- Indirect control

WHAT DOESN'T MATTER
- Private Network Performance
- High-Performance SLA
- End-to-End Security
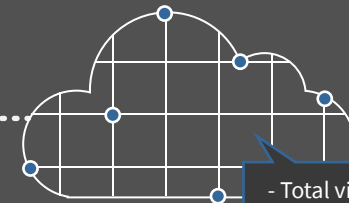- Compliance

USE CASES
→ PLUS:
Large File Transfer

PROVIDERS
Cato Networks,
Teridion

PRIVATE NETWORK

WHAT MATTERS MOST: → PRIVATE NETWORK PERFORMANCE & SLA

- Total visibility
- Direct control

VARIABLE

Cost, Security, and Compliance vary by provider

USE CASES
→ PLUS:
Voice/Video, Long-Haul, End-to-End
High Security, Real-Time Protocols

PROVIDERS
Aryaka
MODΣ

SELECTION CRITERIA

	Basic Internet	Optimized Internet	Private Network — Cloud MPLS	Private Network — MODΣ
Private Network Performance	○	◔	◐*	●
High-Performance SLA	○	◔	●	●
End-to-End Security	○	◐**	○**	●
Flexibility	●	◐***	◐***	●
Internet Pricing	●	◔	○	◕
Any SD-WAN	●	◐***	○	●

* PoP-to-PoP only   ** some vendors require key sharing   *** some vendors require use of their SD-WAN

HOW DOES MODΣ DO IT?

First Millisecond Network
Global routing changes made every 150ms

MEASURE
CALCULATE   150 ms
CONTROL

MODΣ

ERICSSON   Singtel   SP3

High-Performance Private Underlays

Private Network Security
End-to-end encryption, and low attack surface

Think Private Performance is Expensive? Think again.

MODΣ
www.mode.net