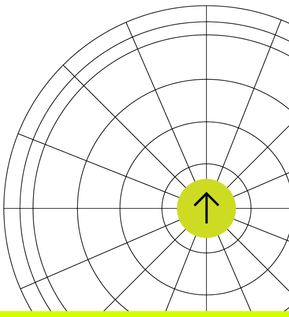
expereo
faster to the future

# AI & the bandwidth reckoning

How to protect performance today and build for scale tomorrow.

**AI does not spike traffic. It resets it permanently.**



THE SCALE OF CHANGE

**30-50%**
Traffic growth within 1–2 years of AI scale

**2–5×**
Bandwidth increases in strategic areas

**20-50%**
Sustained baseline uplift after AI rollout

## Where bandwidth breaks first

Pressure concentrates at four chokepoints — designed for the old internet, not AI.

### Internet egress

Built for SaaS and email, not sustained AI inference loads. Becomes a permanent congestion point with no easy escape.

### Branch access

Oversubscribed circuits buckle as east-west AI traffic doubles or triples faster than forecast.

### Cloud on-ramps

Egress fees add 20–80% to cloud bills when not architected for AI data locality and traffic patterns.

### Security inspection

Inspection layers run permanently at peak. Security visibility narrows exactly when threat levels rise.

## 01 Protect today

**Expand cloud on-ramp bandwidth**
**Upgrade circuits at AI-intensive sites**
**Reduce oversubscription at inspection**
**Rebalance branch vs. core capacity**

*Use 95th percentile over averages.*

## 02 Engineer tomorrow

**SD-WAN dynamic routing + path steering**
**Latency-aware inference traffic paths**
**Multi-carrier resilience + geo routing**
**Traffic engineering for distributed AI**

*Architecture creates advantage.*

## 5 assumptions that will cost you

| THE ASSUMPTION | 2026 REALITY |
|---|---|
| We'll buy more when we need it | Circuit lead times mean it arrives too late |
| Average utilisation is enough | 5–15 min bursts cause queuing and packet loss |
| Enough bandwidth = low latency | Even 50ms extra latency breaks AI inference |
| The cloud handles scaling | Egress fees grow 20–100% with unplanned AI |
| Our tools will warn us | Legacy monitoring misses AI burst patterns |

**Bandwidth buys time. Architecture buys control.**

## Expereo supports both speeds of transformation.

Intelligent overlay control · 95th-percentile monitoring · Global underlay design

TALK TO AN EXPERT

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