



Network Observability

AI

Taking Advantage of the Opportunity

September 2025



The AI Hype – Why and What Business Value

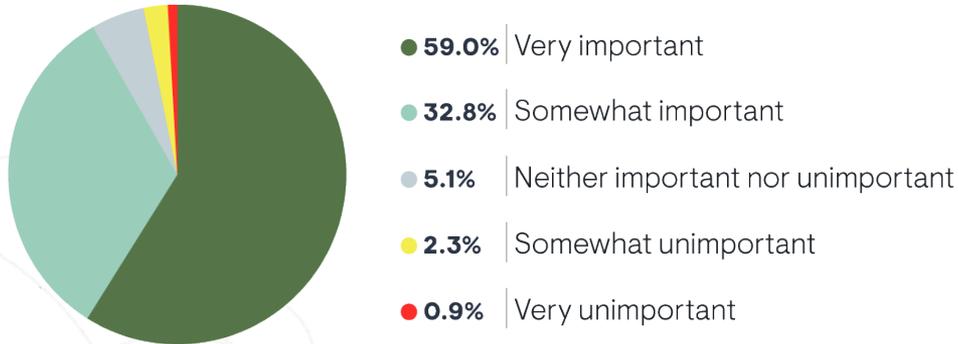
- Expectations
How AI impacts performance and observability outcomes
- Enhanced User Experience
Smoother application performance, reduced disruptions, higher satisfaction
- Transparency & Trust
Explainable AI decisions build confidence
- Demonstrated ROI
Metrics-driven proof: reduced MTTR, improved uptime, cost savings
- Future-Readiness
Assures scalability for IoT, and cloud-native digital transformation

AI - Taking Advantage of the Opportunity

1. Proactive Monitoring
 - Predict issues before they impact performance
 - Reduce downtime through early anomaly detection
2. Faster Root Cause Analysis
 - Correlate data across devices, layers, and logs
 - Identify patterns humans may miss
3. Scalability & Efficiency
 - Handle massive data volumes beyond manual capacity
 - Automate repetitive troubleshooting tasks
4. Optimized Performance & Cost
 - Improve resource utilization
 - Reduce operational overhead
5. Future-Proofing the Network
 - Enable self-healing and self-optimizing networks

What to Expect from AI

How important is it for your network observability tools to offer AI features that optimize and automate network management?

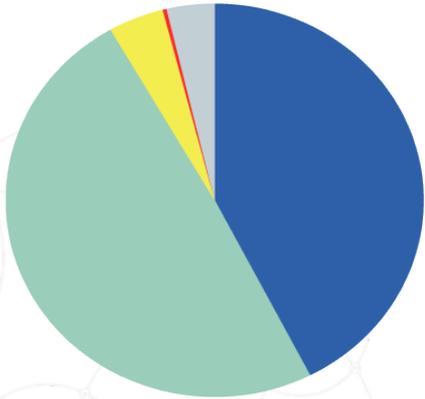


Expected benefits:

- 58%** Operational efficiency
- 54%** Proactive problem prevention
- 54%** Network optimization
- 46%** Improved user experience
- 44%** Cost optimization

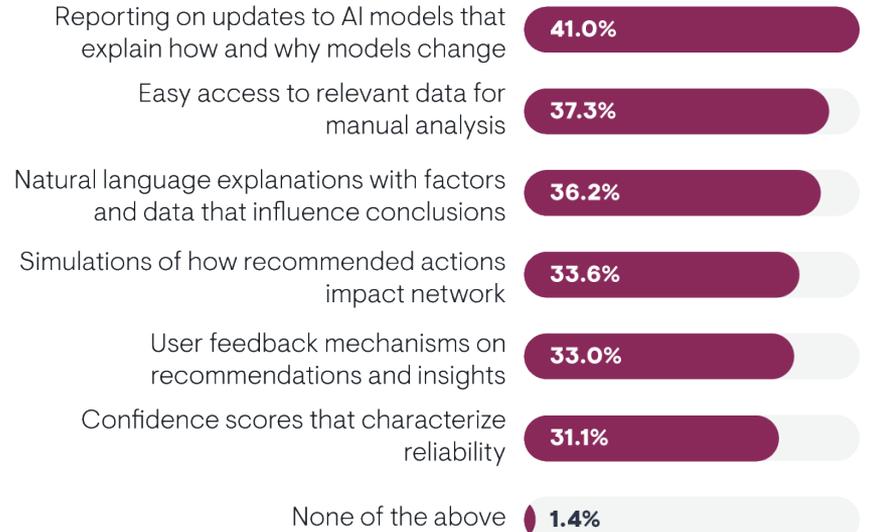
Trust in AI Must be Earned

To what extent do you trust the AI/ML-generated recommendations and insights your network observability tools offer?



- **42.5%** Fully trust
- **49.3%** Partly trust
- **4.3%** Partly distrust
- **0.3%** Fully distrust
- **3.7%** Not applicable – not currently using AI/ML features

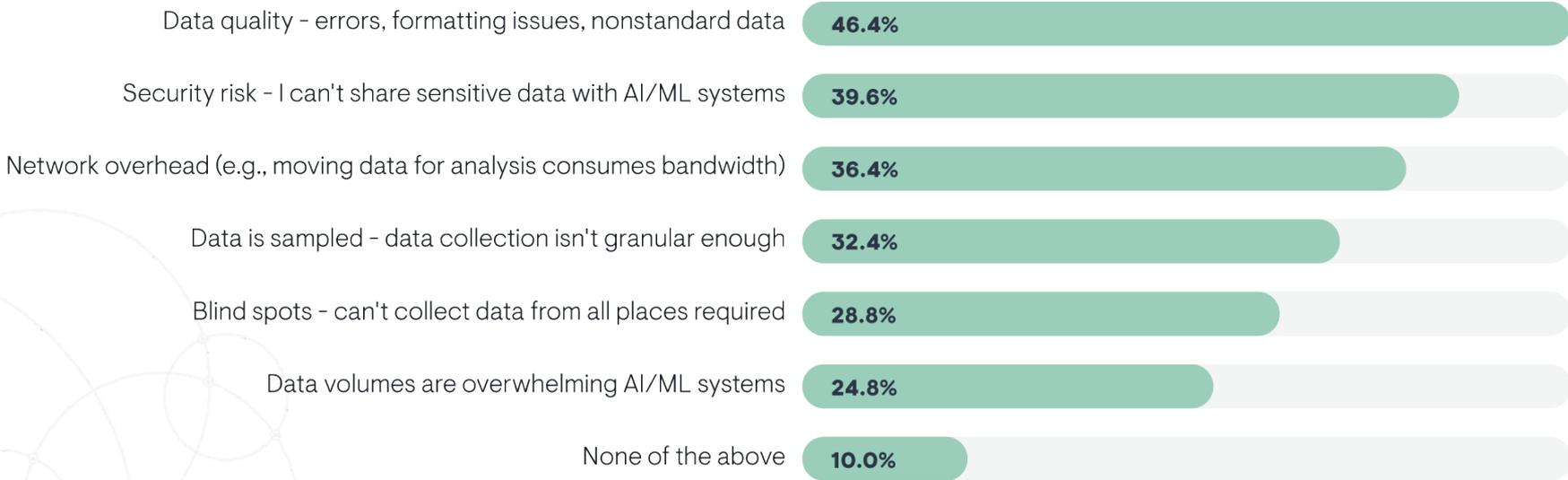
Which of the following is most helpful for building trust in AI/ML capabilities in network observability tools?





Network Observability Data Must Provide a Foundation for AI

Data-related challenges encountered when applying AI to network management



AI - Demands Perfection

Data Quality

- AI outcomes depend on clean, accurate, and unbiased data
- Poor data quality leads to flawed models and unreliable results

Infrastructure Reliability

- Networks must deliver consistent low-latency, high-bandwidth performance
- Packet loss or jitter can derail training and inference accuracy

Model Precision

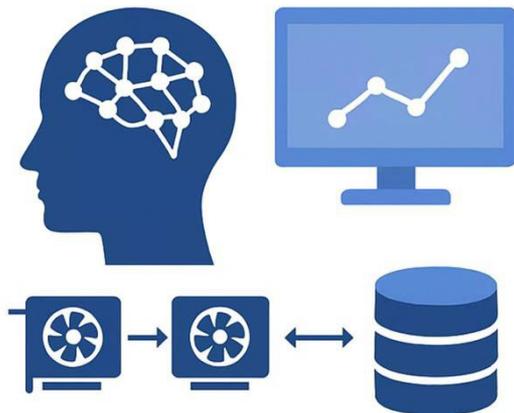
- AI requires exact computations to achieve reliable predictions
- Minor inaccuracies compound during large-scale training

Operational Consistency

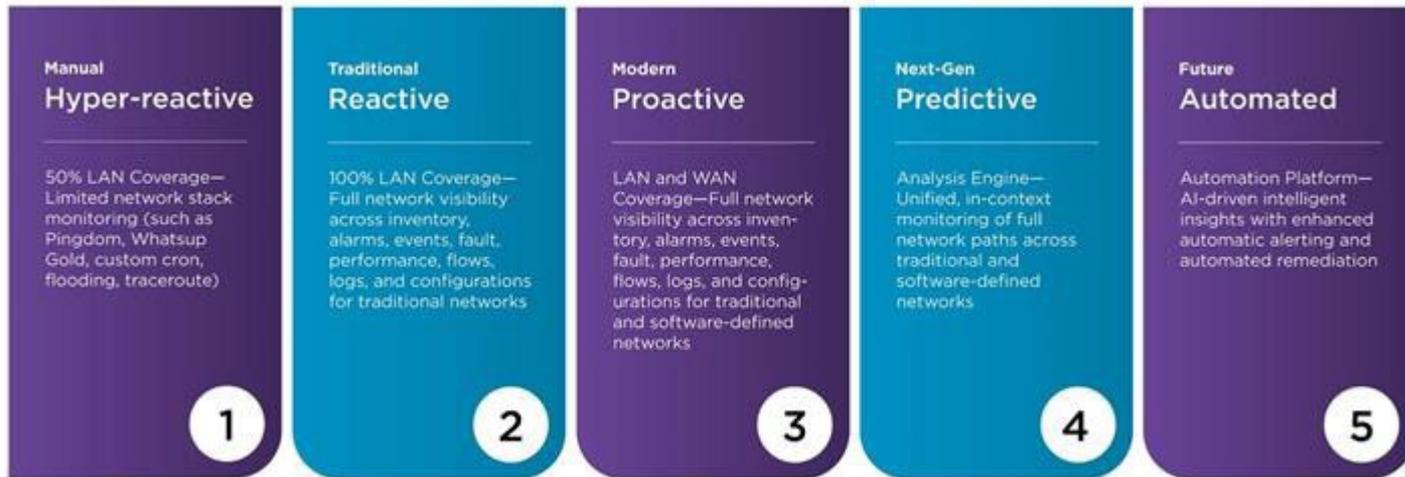
- AI pipelines must be automated and repeatable
- Any inconsistency impacts trust and adoption

Monitoring & Governance

- Continuous observability ensures AI systems perform as expected
- Ethical, explainable AI demands robust oversight

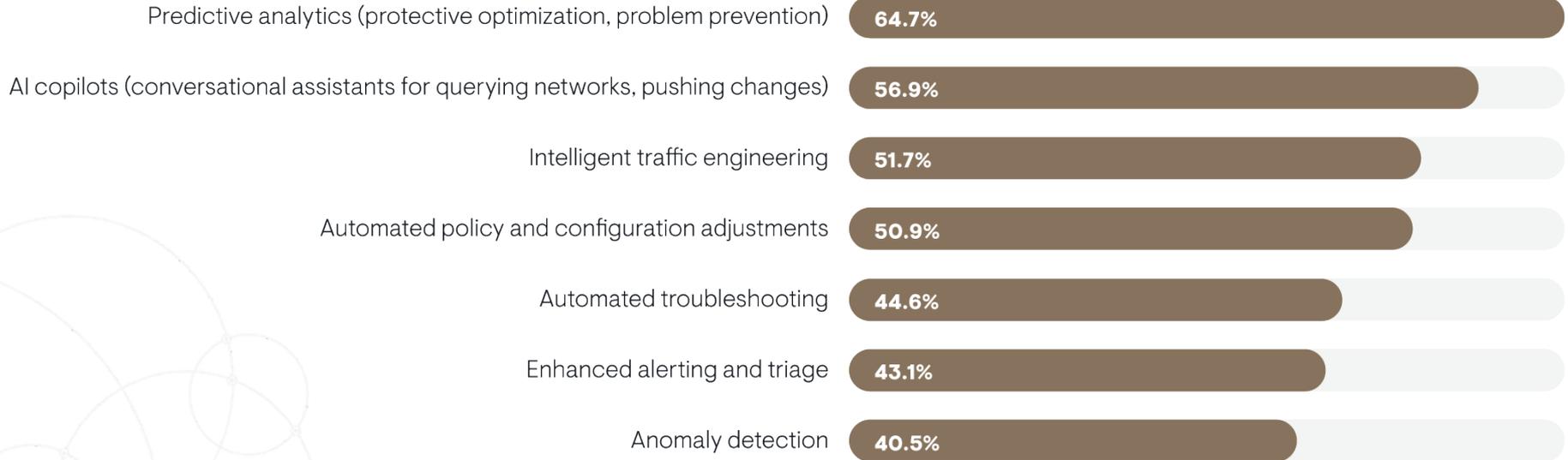


From Network Observability Maturity to AI-Readiness



99% Believe AI-Driven Network Observability will Enhance Management of AI Networks

What kinds of AI-driven capabilities are you interested in using to improve management of networking for AI?





Questions & Thank You

