

GO BEYOND

# ThousandEyes Assurance

Un fondement essentiel de la resilience digitale de bout en bout

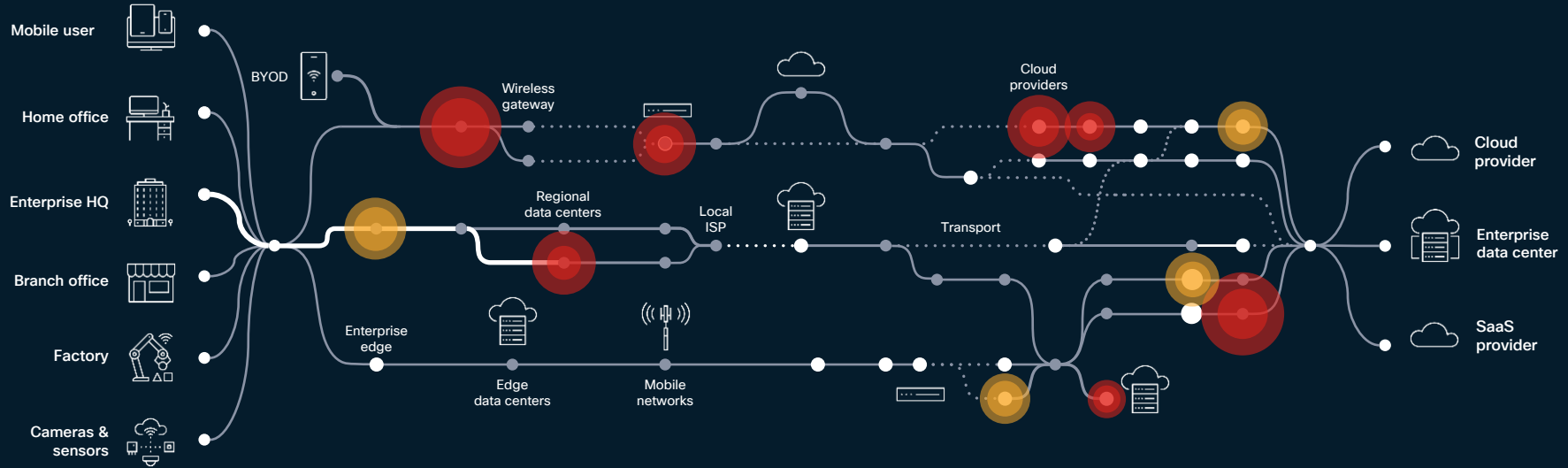
Hafid Meziani  
Technical Solutions Architect  
Cisco ThousandEyes



## Digital resilience

The ability to keep your organization securely up and running in the face of any disruption

# How can you proactively get ahead of issues?





The ability to detect, investigate, and respond is a data problem



Network team

IT team

Security team

Engineering team

What if you could harness all the data across  
your entire digital footprint to build resilience?

# Only Cisco gives you complete visibility

Assurance

+

Observability

+

Security

# The **benefits** of building digital resilience with Cisco



Prevent major  
issues



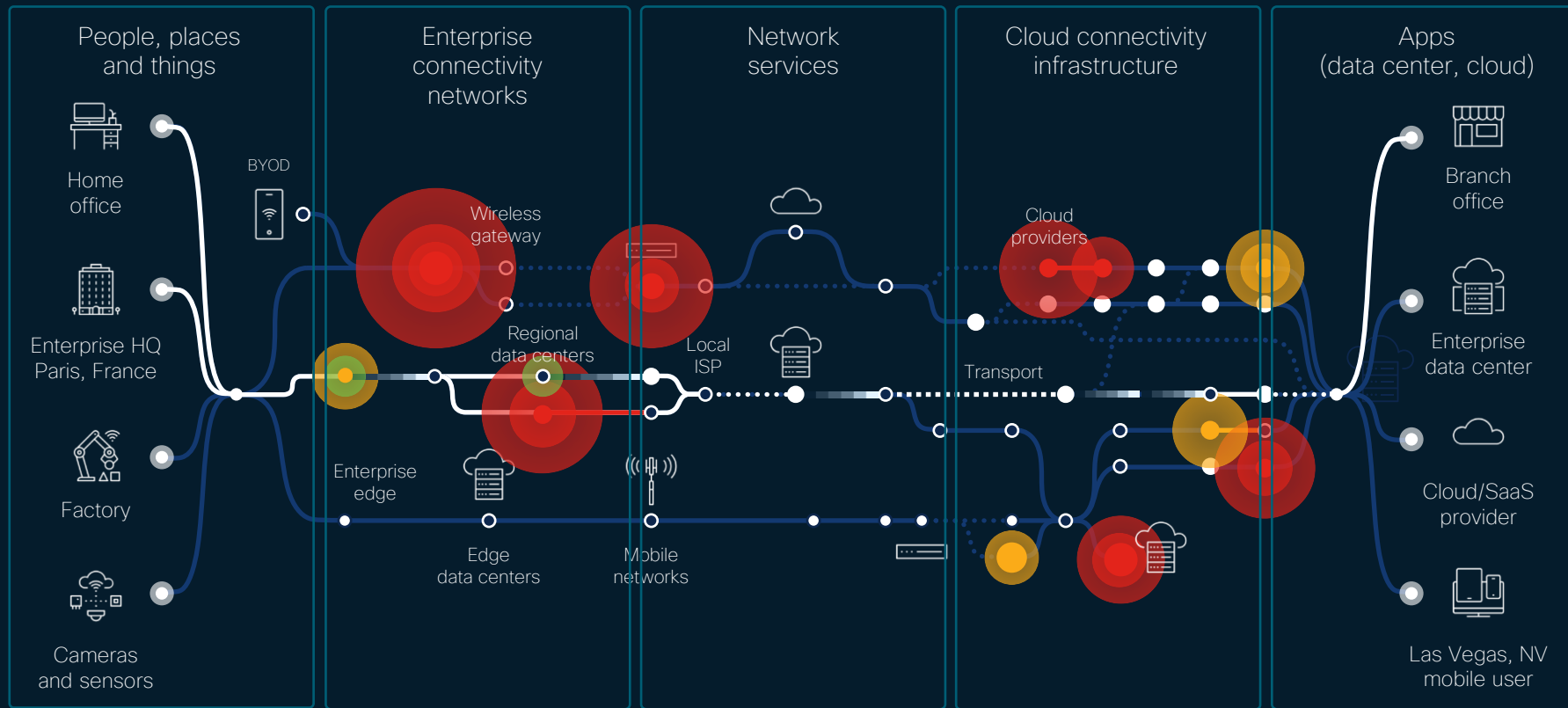
Remediate faster



Adapt quickly



# Solving Our Customers' Most Pressing Challenge



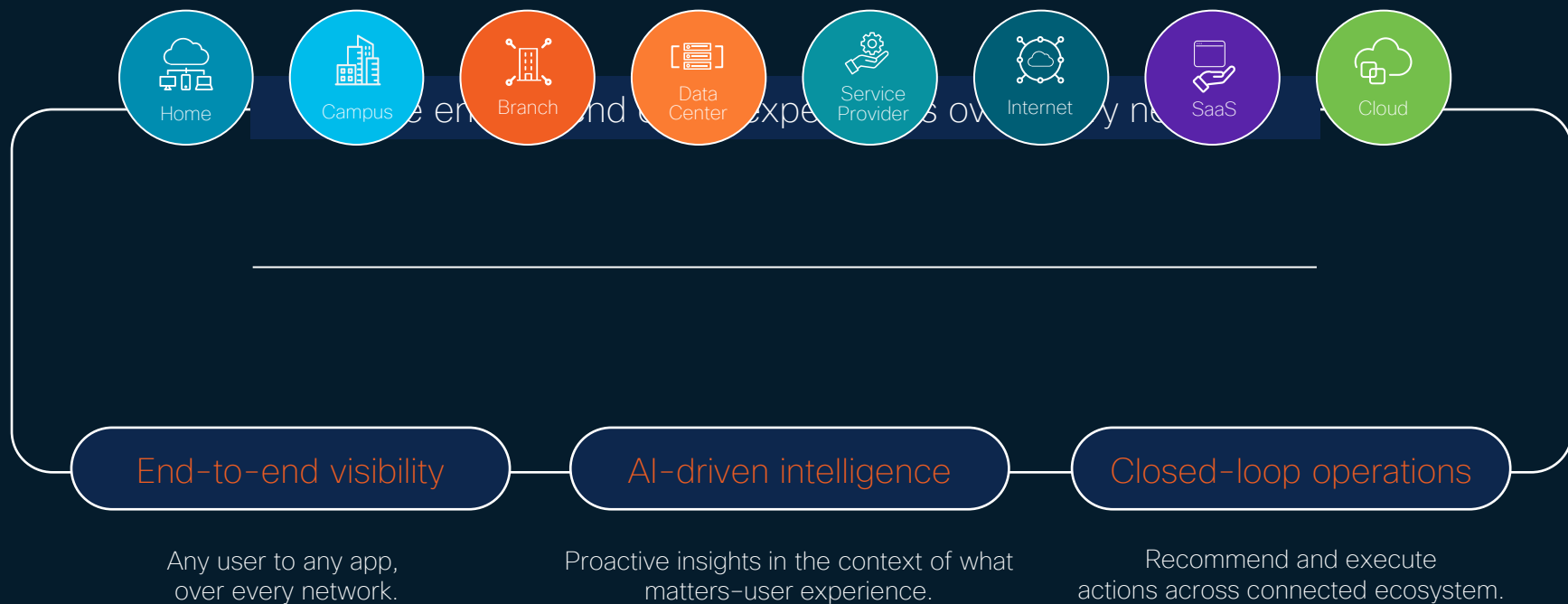
# Solving Our Customers' Most Pressing Challenge



# Solving Our Customers' Most Pressing Challenge



# Digital Resilience Demands Assurance



# ThousandEyes Cloud Insights

## Value

Deep visibility into public cloud infrastructure and service dependencies that impact digital experiences to reduce MTTR by up to 60%

## Key Capabilities

### Cloud Topology

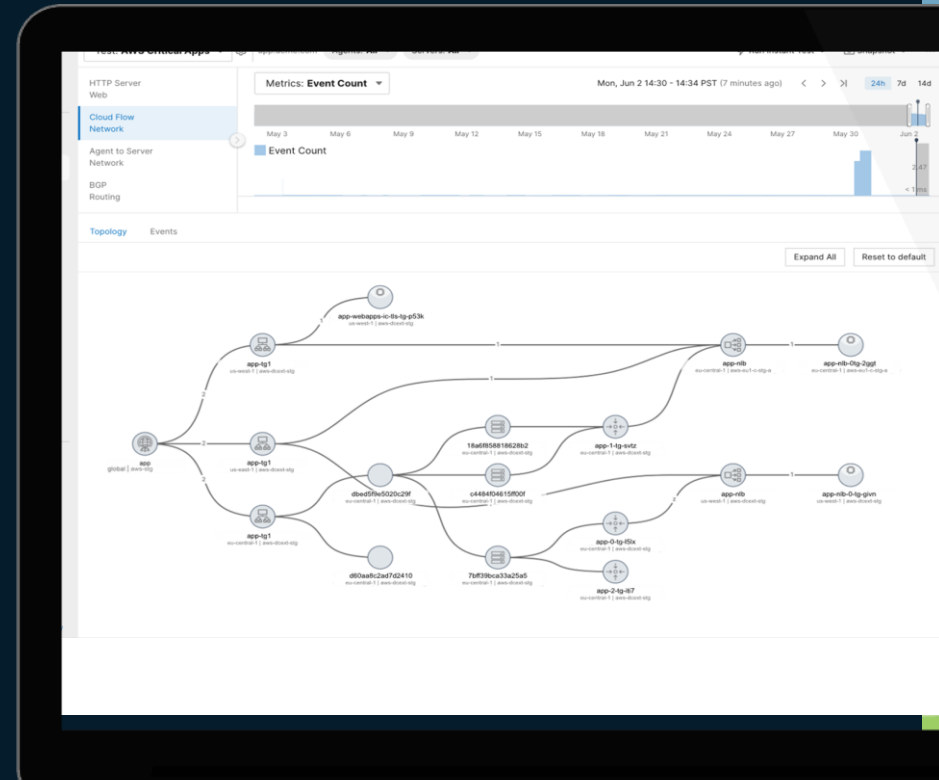
Auto discover cloud provider resources to understand every service dependency

### Events

Config changes and other events are time-correlated with views of experience so you can isolate root-cause faster

### Traffic Flow

View traffic patterns so you can efficiently architect and troubleshoot your cloud network



# The Business Case for the Cloud



## Cost Savings (TCO)

Cost savings/avoidance from moving to the cloud

Reduction in IT infrastructure costs as a percentage of revenue by **20%**



## Staff Productivity

Efficiency improvement

Productivity increase of **66%** in VMs managed per server admin



## Operational Resilience

Benefit of improving SLAs and reducing unplanned outage

Unplanned downtime reduced by **69%**



## Business Agility

Deploying new features faster and reducing errors

Reduction in time-to-market for new application features of **43%**



## Sustainability

Minimizing environmental impact of operations

Reduction in workload carbon footprint of **88%**

Tactical impact



Strategic impact



# Cloud Adoption Continues to Accelerate



(Source: Spacelift)



(Source: Flexera 2025)

# Once inside the cloud environment, you're in a black box.

Routine maintenance or configuration changes can have meaningful impacts



Cloud networks are highly virtualized

Physical network elements are managed by the cloud provider making traditional tooling less relevant.



Cloud networks are highly dynamic

Auto scale capabilities along with configuration changes make cloud platforms a moving target.



Cloud networks span cross multiple accounts

With multiple instances connecting, configuration and management complexity increase.

# Sounds familiar?

Am I getting  
the most out  
of my  
network?

Are we  
compliant?

How do we  
monitor our AWS  
environment?

Are we  
operating  
efficiently?

Can we track  
changes in Config  
changes ?

Can we optimize  
for hybrid?

How can we  
have secured  
Applications?

Can we find root  
cause to connectivity  
issues ?

Are  
performances  
the same in  
Cloud?

# The Journey to and Inside the Cloud

Organizations have different use cases in their cloud journey; some may be at the start or planning to migrate more applications while others are optimizing their existing cloud-based services.



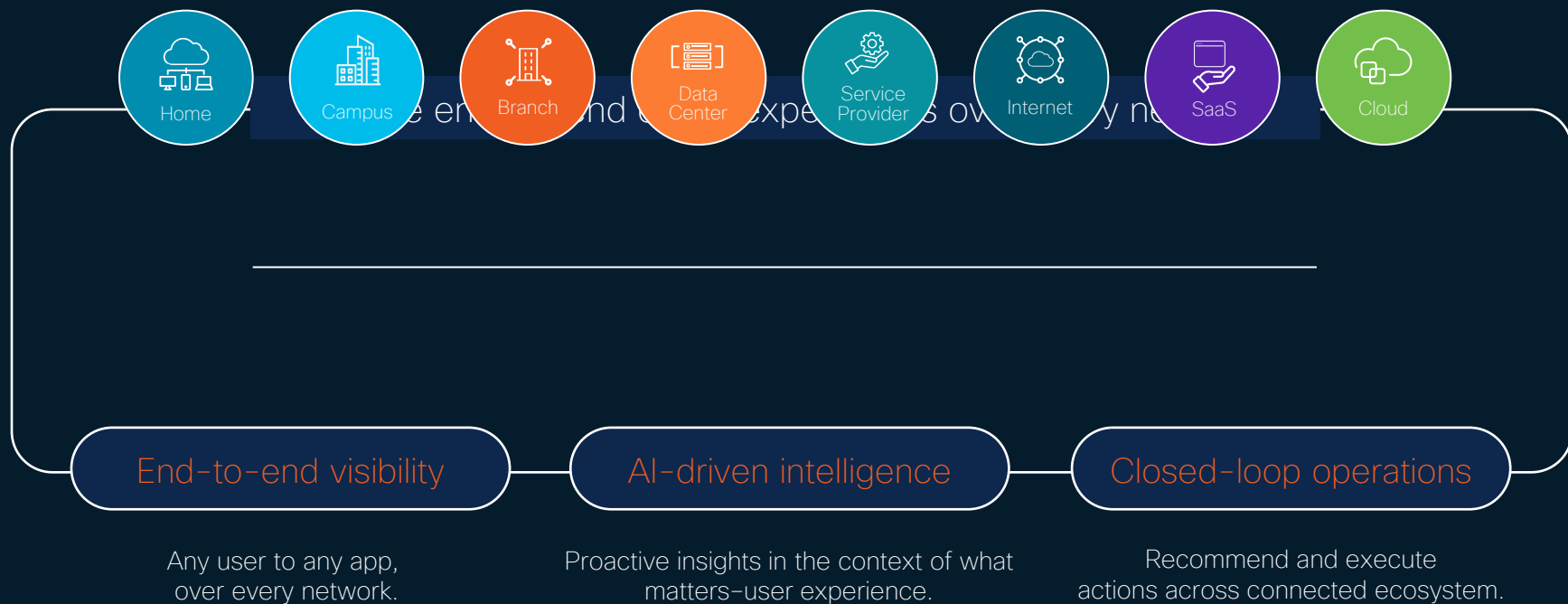
- Understand app performance and define KPIs. With the AWS environment in context

Moment of truth, confirm KPIs, identify optimization opportunities or remediation actions

Continuously monitor to assure KPIs are met and delivering the business outcome

# Demo

# Digital Resilience Demands Assurance





# Traffic Insights

Taking assurance of enterprise networks to the next level

Accelerate remediation

- Automatically correlated flow and synthetics

Zero in on traffic

- Powerful, intuitive UI and dashboards

Scale visibility

- Simple deployment and activation



# NetOps today relies on multiple datasets

Inefficient troubleshooting = slower time to identify

- Time lost manually correlating disparate datasets
- Difficult to identify root cause at the node level
- Don't know which users are impacted
- Can't tell which traffic is degrading experience



# Today's Monitoring – More Complementary than Cohesive

Disparities in data and usage reduce efficiency, accuracy

	Passive (NetFlow, SNMP)	Active (Synthetics)
Used with	<ul style="list-style-type: none"><li>• Networks within your control</li></ul>	<ul style="list-style-type: none"><li>• Networks within and outside your control</li></ul>
Measures	<ul style="list-style-type: none"><li>• Network/node utilization</li><li>• Traffic characteristics/patterns</li></ul>	<ul style="list-style-type: none"><li>• End-to-end performance</li><li>• Symptoms (loss, latency, etc.)</li></ul>
When data is analyzed	<ul style="list-style-type: none"><li>• After collection / flow termination</li></ul>	<ul style="list-style-type: none"><li>• Near real-time</li></ul>
Typical use cases	<ul style="list-style-type: none"><li>• Infrastructure troubleshooting</li><li>• Traffic engineering</li><li>• Trend analysis</li><li>• Capacity planning</li></ul>	<ul style="list-style-type: none"><li>• End-to-end troubleshooting</li><li>• Monitoring 3<sup>rd</sup>-party networks/services</li><li>• Proactive incident detection</li><li>• Before/during/after analytics</li></ul>



# Cisco ThousandEyes Traffic Insights

Rapidly attribute degraded network performance to specific traffic flows



Boost efficiency through  
automated correlation

Dramatically reduce time and  
effort to determine root cause

View flow data in the context  
of synthetics to quickly see which  
traffic is impacting experience



Quickly identify issues  
across your network

Flexible views make it easy to  
understand and interpret usage

Filtering and dashboards to  
format and view data  
exactly the way you want



Scale visibility through  
simplified deployment

Centralized onboarding makes it  
simple to activate more locations

ThousandEyes Enterprise Agents  
with integrated NetFlow, IPFIX for  
broader more granular visibility

# Traffic Insights Changes the Game for NetOps

Quickly resolve degraded experiences through detailed visibility into network traffic

Flow data viewed in the context of network performance  
accelerates troubleshooting

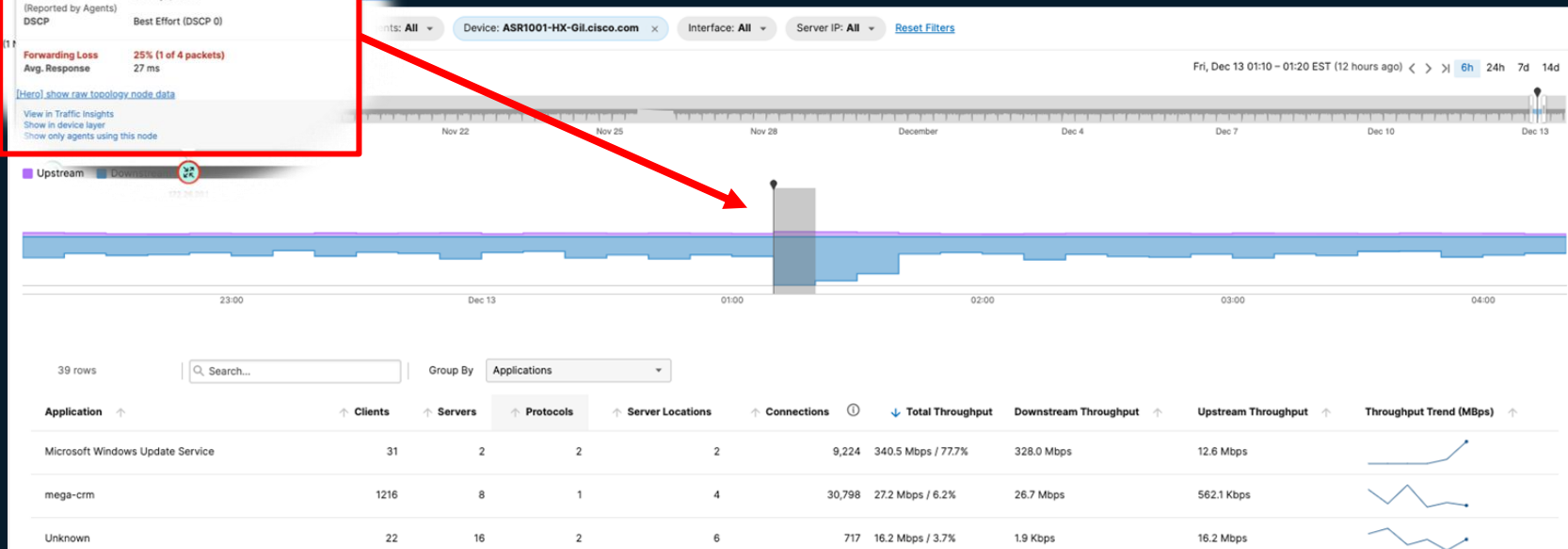
**Router (Network Monitoring Collector Enabled, with forwarding loss)**  
**172.26.20.1**

Device Name: ASR1001-HX-Gil.cisco.com  
Locations: Netanya, Israel  
(Reported by Agents)  
DSCP: Best Effort (DSCP 0)

Forwarding Loss: 25% (1 of 4 packets)  
Avg. Response: 27 ms

[\[Here\] show raw topology node data](#)

[View in Traffic Insights](#)  
[Show in device layer](#)  
[Show only agents using this node](#)



# Powerful Views, Seamless Integration

Traffic Insights combines power with flexibility

## Intuitive User Interface

Access views directly or via path visualization

- Assess performance over 30-day window for before / during / after analysis
- Filter / group data to quickly zero in on root cause

## Customizable Alerts

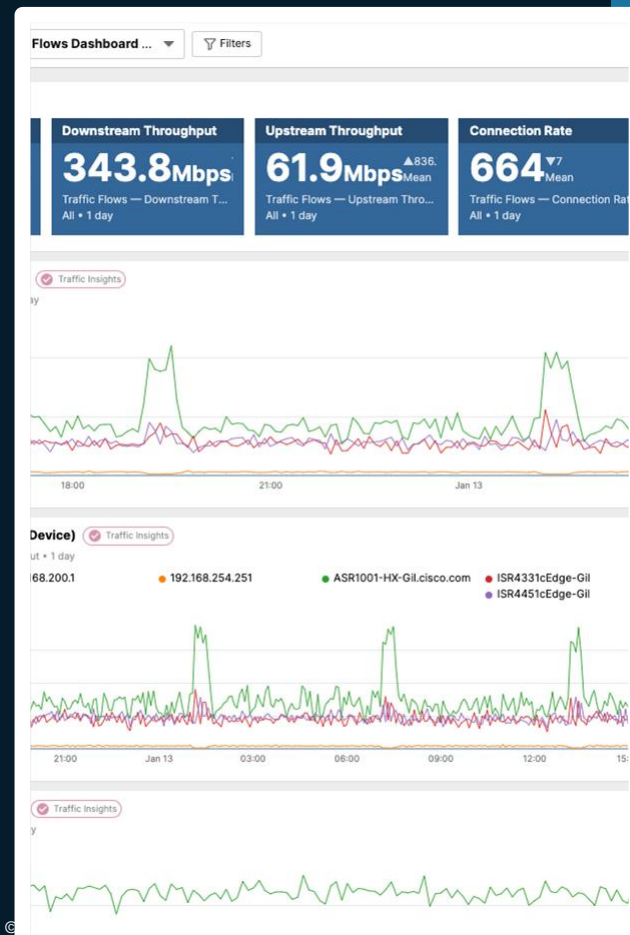
Respond immediately when traffic levels spike

- Leverage flow-specific thresholds
- Integrate with ITSM via built-in integrations or custom webhooks

## Custom Dashboards and Reporting

Understand trends, anticipate issues

- View usage data according to user preference
- Pre-configured or customizable widgets





# Scalable Visibility Across the Enterprise

Activate Traffic Insights at any location with an Enterprise Agent

## Flexible deployment options

- Physical or virtual appliance
- Native Linux
- Docker container
- Cisco Networking – branch, campus, datacenter

## Simple, straightforward activation

## NetFlow and IPFIX collection & forwarding

## Compatible with external collectors



Nexus 9000 Switches



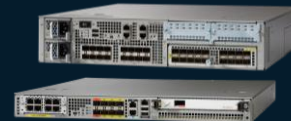
Catalyst 9000 Switches



Catalyst 8000 Routers



ISR 4000 Series



ASR 1000 Series

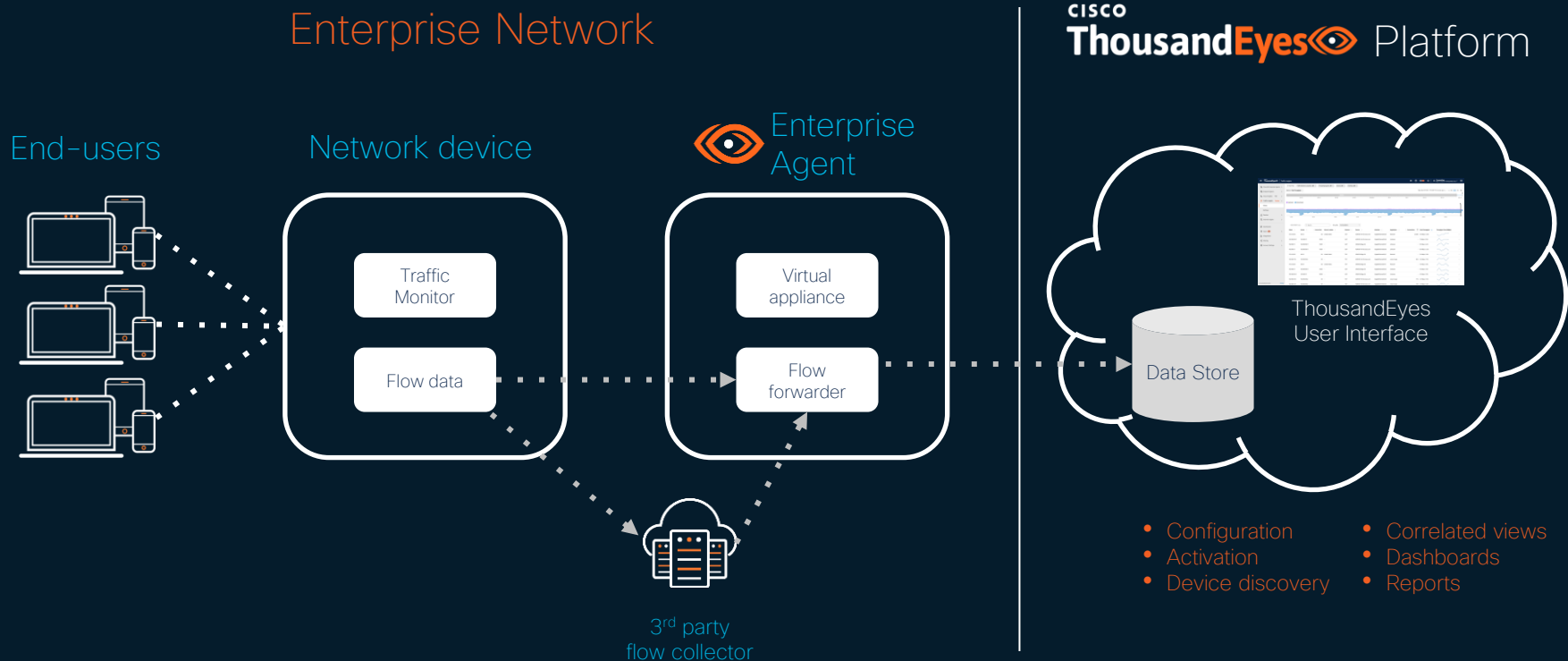


ISR 1000 Series



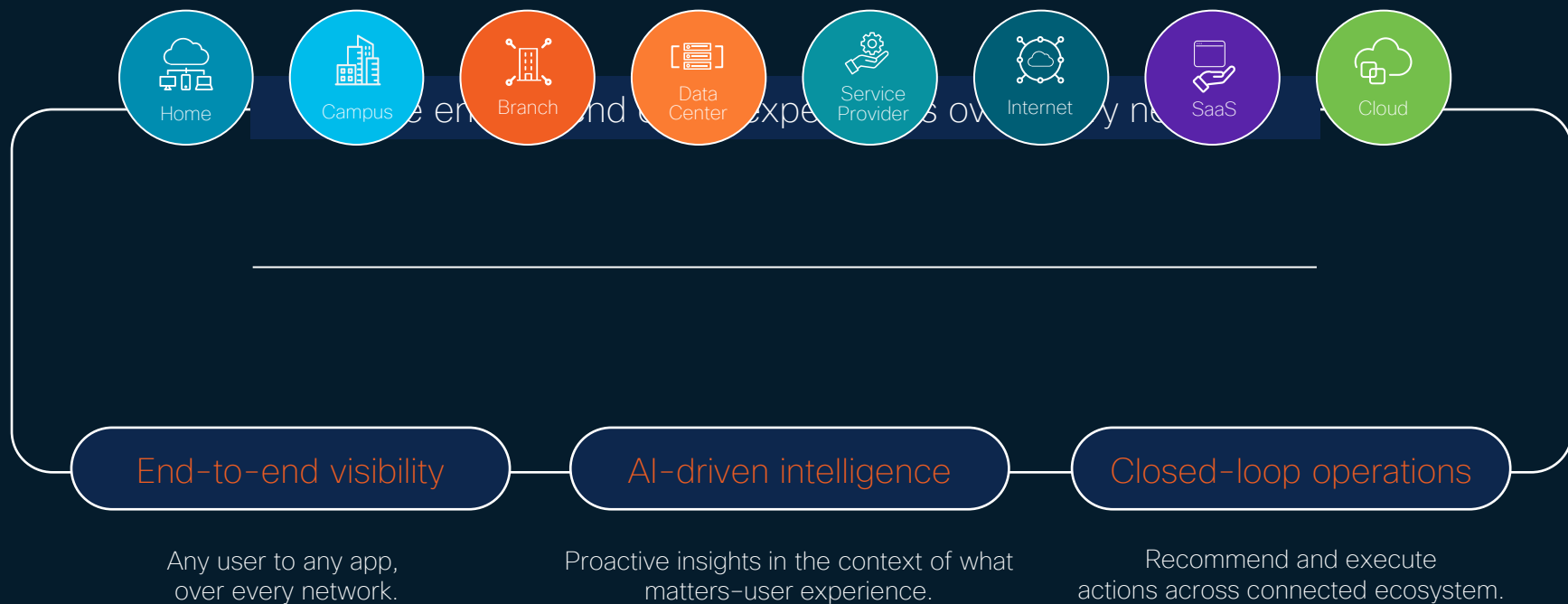
Meraki MX

# A Unique Solution to a Complex Problem

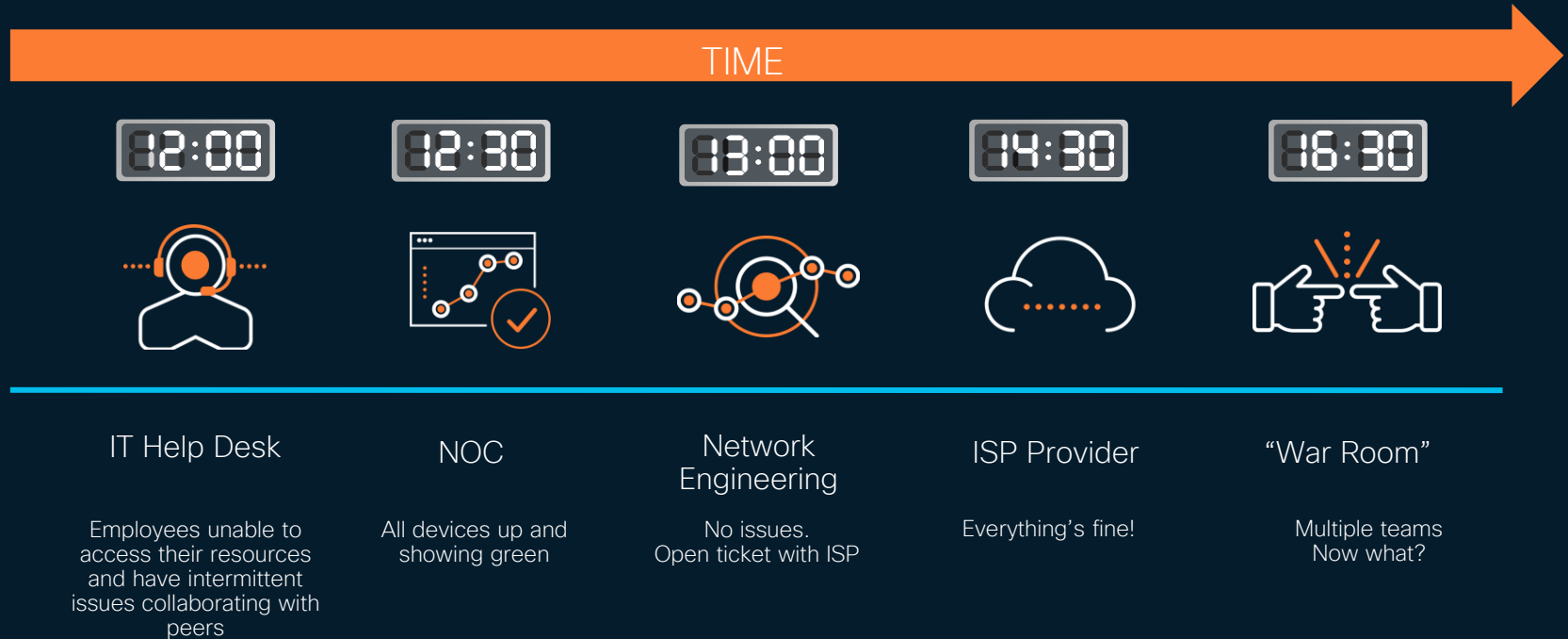


# Demo

# Digital Resilience Demands Assurance



# Lack of End-to-end Visibility Leads Poor Experience



# Connectivity Assurance with ThousandEyes Endpoint Agents

An agnostic approach from any user to any application

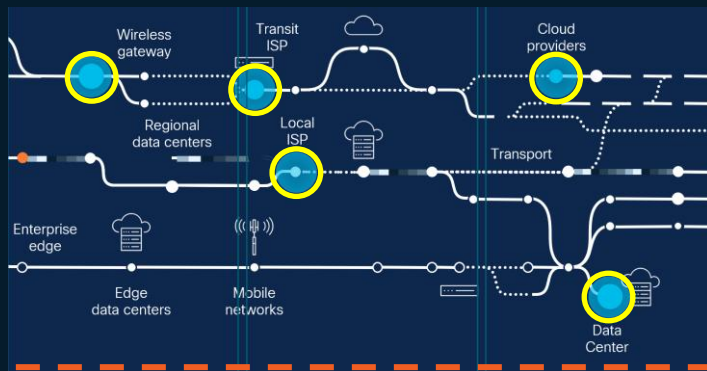
Assure employee connectivity across domains



User's device

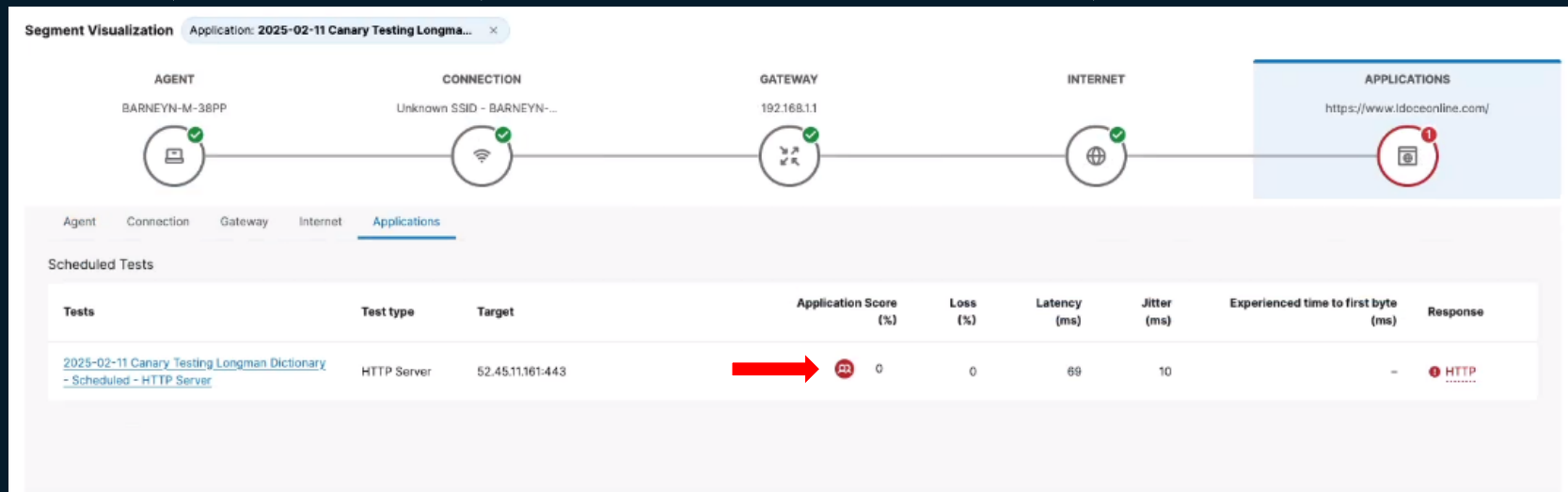


ThousandEyes Endpoint Agent



ON-PREM APP / CLOUD APP

# End-to-end Connectivity Assurance Across Every Network



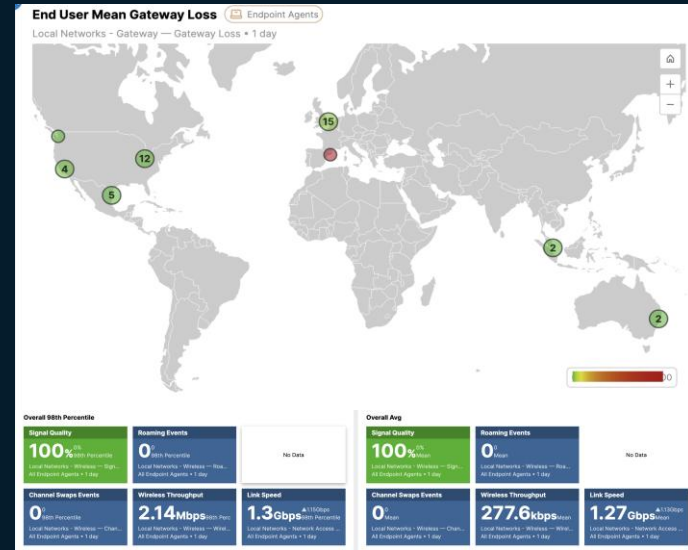
Reduce MTTR and Identify root-cause in minutes. Correlate network, application and infrastructure issues with dynamic dashboards utilizing availability, loss, HTTP errors, DNS, latency and response time metrics, among others.

# Assure Every User's Digital Experience

Act before any degradation takes you off guard

From all your users...

Regardless of locations...





# Demo

# Explore how ThousandEyes can transform your digital experiences

## Collectively powered visibility

Actionable visibility into digital experiences based on billions of daily measurements

## Seamless insights for all environments

Comprehensive vantage points within public, private, Internet, and endpoint environments

## Built for collaboration

Common operating language between providers and third parties

## Easy setup and rapid ROI

Get Started

### 15-day trial:

Scan the QR Code and set up tests to see your applications and networks from the perspective of your users

Get a Demo

Come and see us at our booth for an in-depth demo!





# Thank you

CISCO *Connect*

GO BEYOND

#CiscoConnect