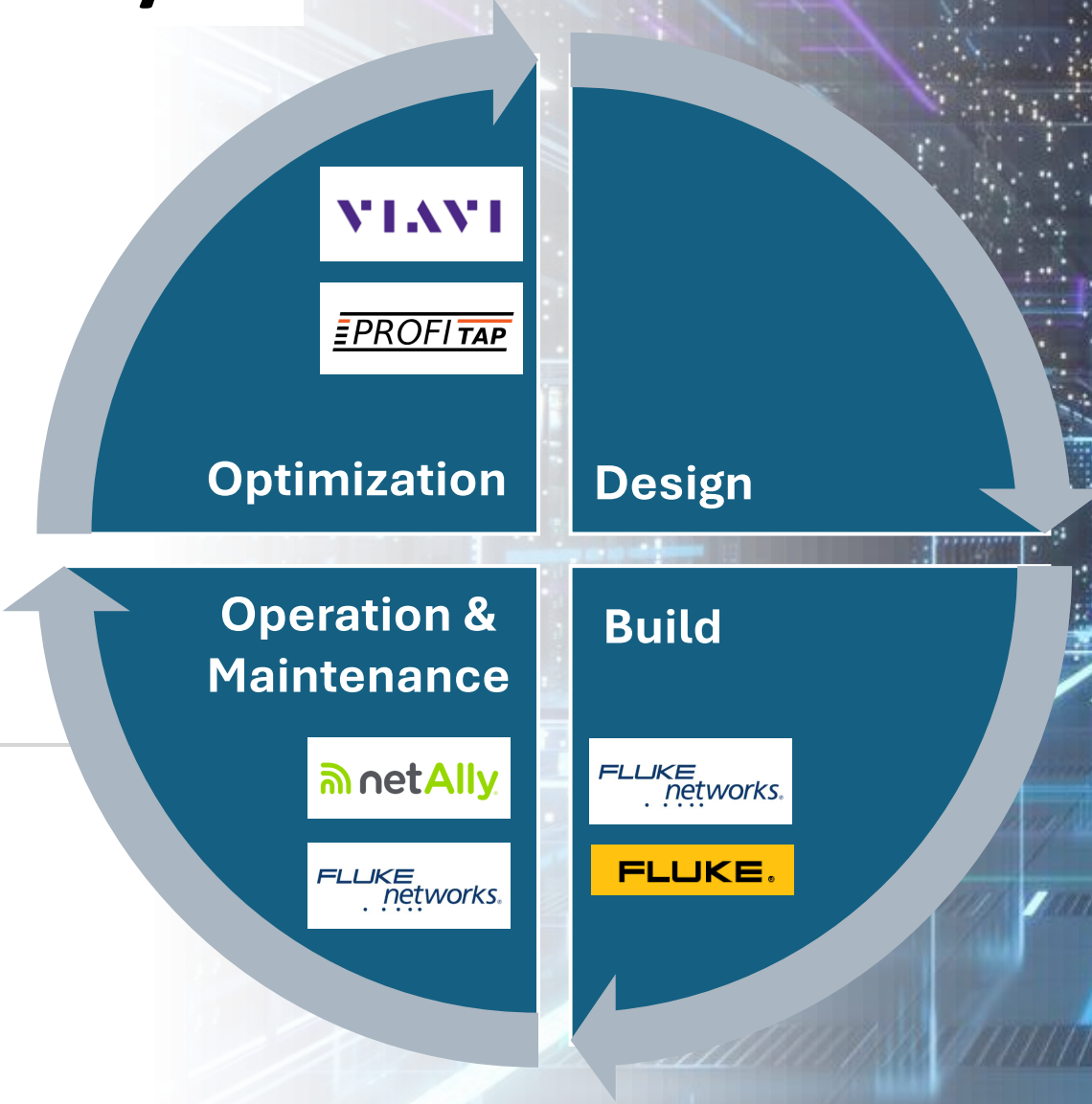


A perspective view of a modern data center aisle. The aisle is flanked by rows of server racks on both sides. The racks are illuminated with blue and green lights, and the floor is highly reflective, creating a futuristic, high-tech atmosphere. The perspective leads the eye down the center of the aisle towards the vanishing point.

Data Centers Test and Analysis Solution

Data Center Life Cycle

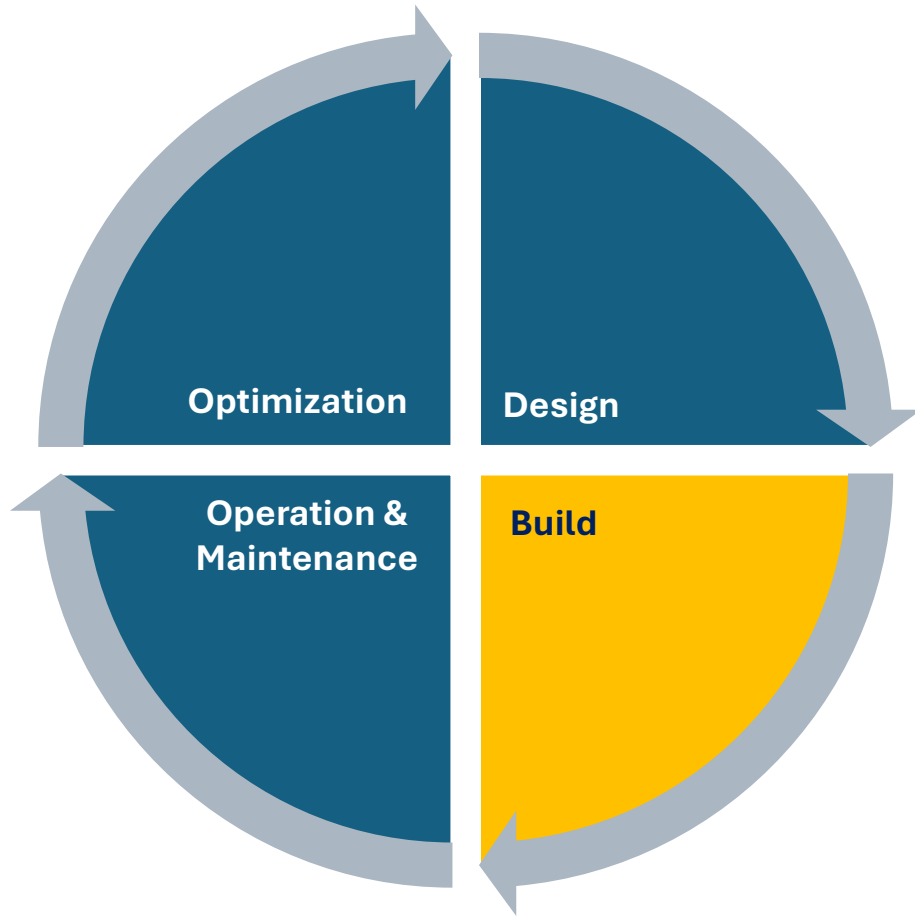


What we do to Build, Optimize, and Secure Data Centers

Synergix International, as a leading network solution provider in the Middle East and Africa region provides cutting-edge products from leading vendors, **Fluke Networks**, **NetAlly**, **Profitap** and **Viavi** to enable the design, construction, operation, and optimization of data centers that deliver unmatched performance. Our portfolio supports every stage of the data center lifecycle and highlights the specific tools and technologies that drive efficiency, scalability, and operational excellence.



Build Phase



FLUKE
networks®

FLUKE®



Build Phase



During the **Build** phase, deploying a reliable infrastructure – including **Ethernet and Power cabling system**- is the key factor for a well designed and productive Data Center.

Synergix International delivers the various range of products from the highly qualified vendors for certifying physical layer infrastructure, validating the installation of network devices and connectivity as well as ensuring extended wireless coverage and reliability.

FLUKE
networks.

FLUKE®

Ethernet Cabling System Test Tools

Fluke Networks is worldwide leader in copper/ fiber cable certification, troubleshooting, and installation tools for professionals who install and maintain critical network cabling infrastructure.

The world's most advanced data centers use advanced **Fluke Networks** tools to ensure the proper functioning and quality of their infrastructure communications (copper and fiber optics).



DSX CableAnalyzer



LinkIQ™ Cable Tester



**MicroScanner™
Cable Verifier**



Power cabling system Test tools

Fluke Industrial range of products include handheld digital multimeters, basic electrical testers, Scope Meters, installation testers, field calibration tools, power quality tools, clamp meters, digital thermometers, thermal imagers, insulation testers, EX test tools, portable appliance testers, indoor air quality tools and accessories.



Fluke Three Phase Power Measurement Logger

Fluke Earth Ground Resistance Meter

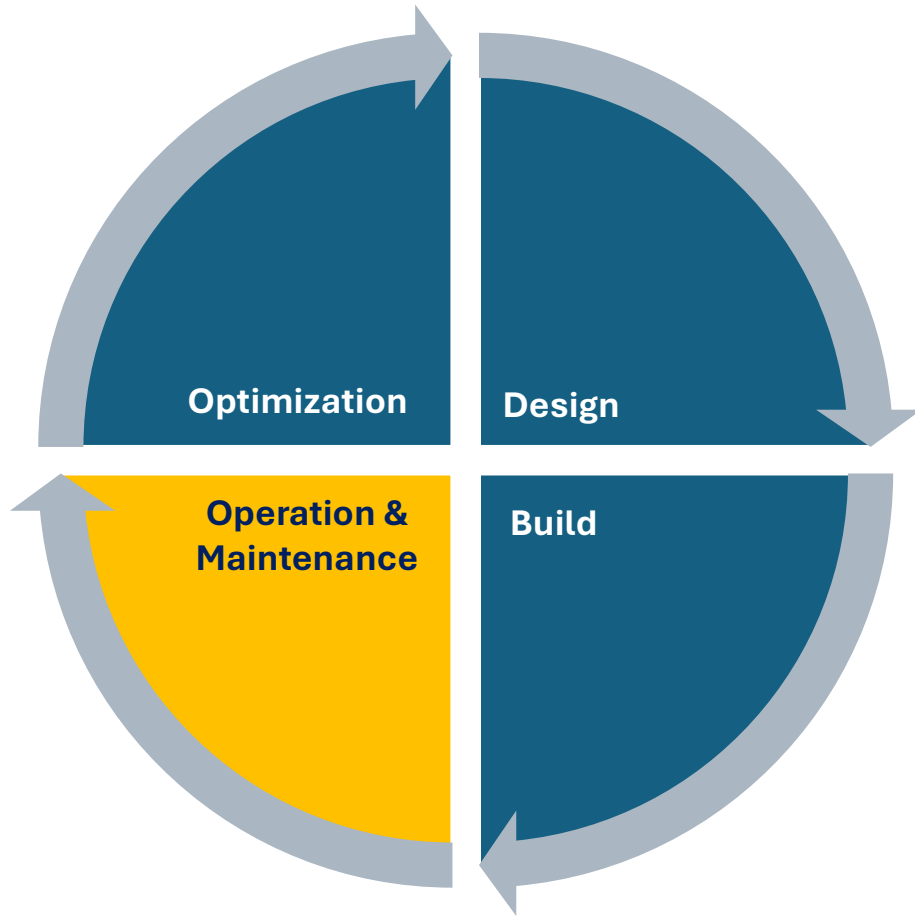
Fluke MAX Digital Multimeter



Fluke PRO Electrical Tester



Operation and Maintenance Phase



FLUKE
networks.

netAlly



Operation and Maintenance Phase



Data centers are comprised of facility systems and IT equipment, each with different lifespans and **maintenance** requirements. While some components are long-lasting, others need more frequent maintenance.

These maintenance needs encompass electrical and cooling systems, telecommunications cables, network infrastructure, IT equipment, and the data center's physical structure.



The logo for Fluke, consisting of the word "FLUKE" in a bold, black, sans-serif font, centered within a solid yellow rectangular background.



Operation and Maintenance - Infrastructure

Fluke Networks is a leader in providing advanced network testing solutions, offering tools like the **Versiv® Cabling Certification System, Fiber Optic Test Kits, and OptiFiber® Pro OTDR**. These solutions help data centers accurately measure fiber loss budgets and insertion loss values, ensuring compliance with standards and preventing costly downtime. **Fluke Networks** also emphasizes the importance of fiber cleanliness, as contamination is a leading cause of fiber-related issues and test failures. Their tools enable data centers to maintain optimal fiber performance, effectively managing fiber loss and ensuring reliable connectivity in modern network environments.



**Pro HDR OTDR
Tester**



**MultiFiber™ Pro
Optical Power Meter**

FiberLert™ Detector



**Fiber Optic
Cleaning Kits**



FLUKE
networks®



Indoor Air Quality and HVAC tools

Fluke relies on HVAC equipment to maintain acceptable temperature, humidity and ventilation levels for occupant health and comfort, and, now more than ever, to help regulate building health and manage increasing energy costs. The relationship between HVAC equipment, occupied space requirements, building materials, weather conditions and pressure differentials is an ever-changing dynamic process for indoor air diagnostics (IAD)



Fluke Particle Counter



Fluke Thermal Camera



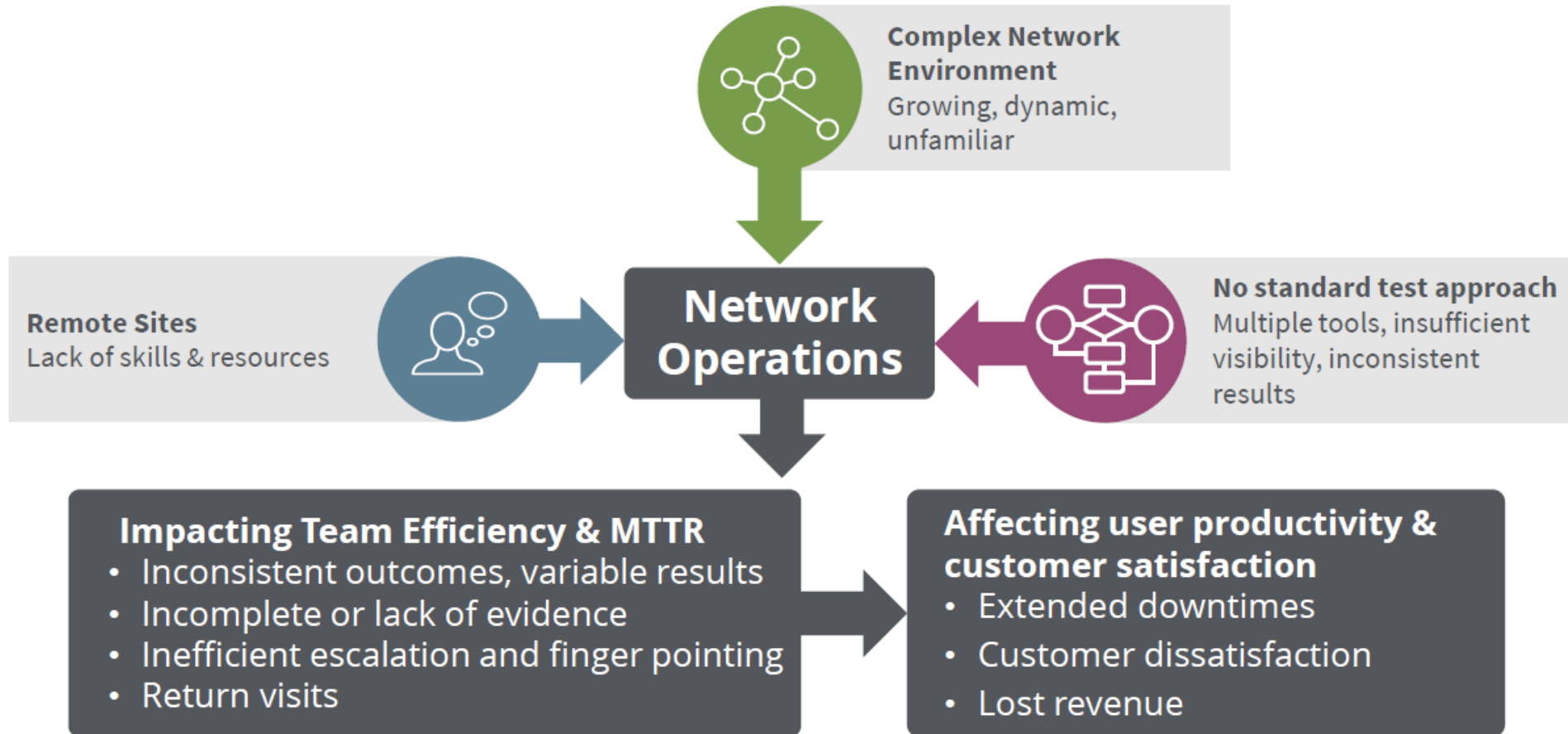
Fluke Airflow Meter/Micromanometer



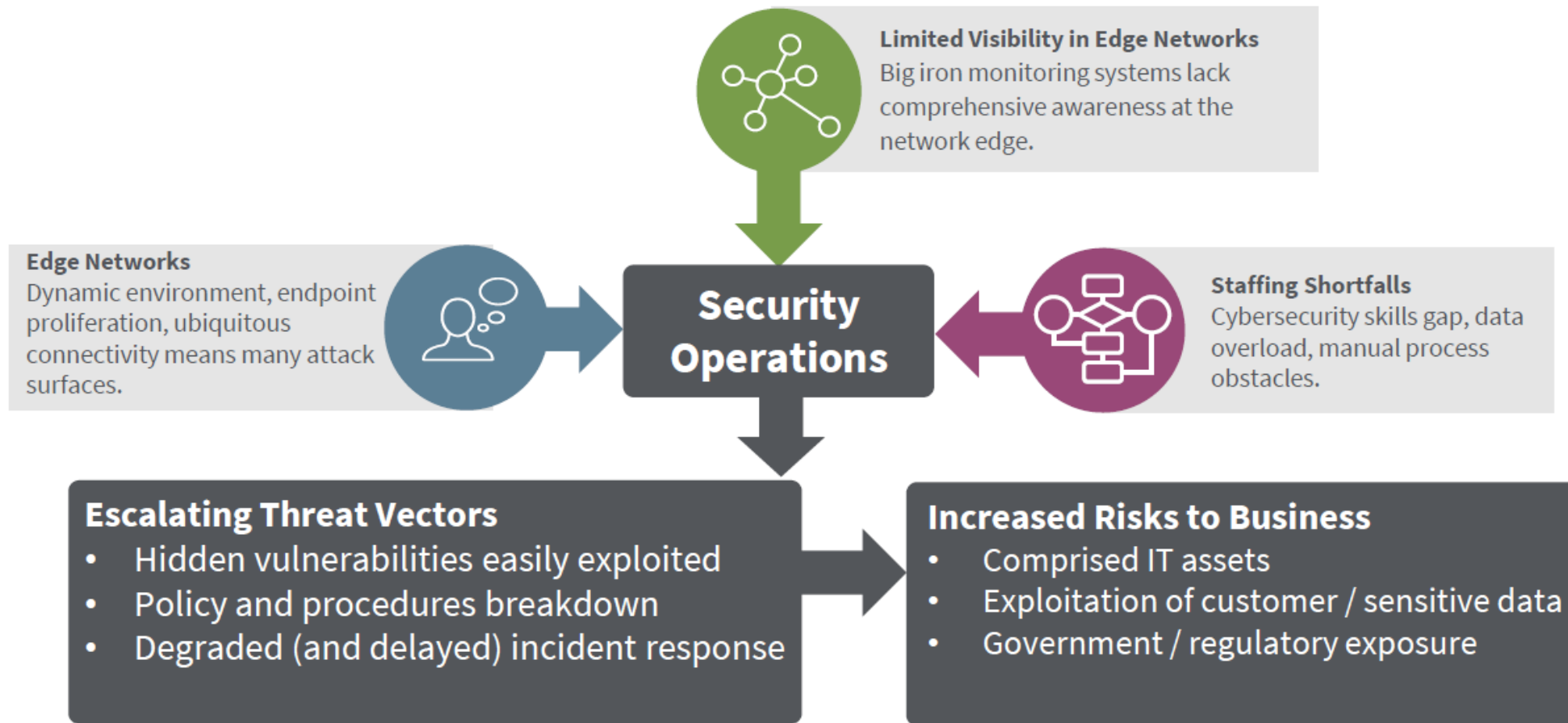
Fluke Clamp Meter



Network Operations Challenges in Data Center



Security Operations Challenges in Data Center



Operation and Maintenance - Layer 2 and above

NetAlly is at the forefront of network testing and analysis, providing cutting-edge handheld tools that deliver real-time diagnostics and in-depth visibility. Their product lineup includes the **LinkRunner® AT 3000**, **LinkRunner® AT 4000**, **LinkRunner® 10G**, **EtherScope® nXG**, and the **CyberScope™**. The **CyberScope™** is specifically designed to address cybersecurity concerns in the network environment, enabling IT professionals to detect and respond to security vulnerabilities effectively. With these advanced tools, **NetAlly** empowers network engineers to troubleshoot, optimize, and ensure secure, seamless connectivity across complex IT infrastructures. Trusted globally by enterprises and service providers, **NetAlly** continues to set the standard for portable network assurance, delivering reliability and efficiency for modern network environments.

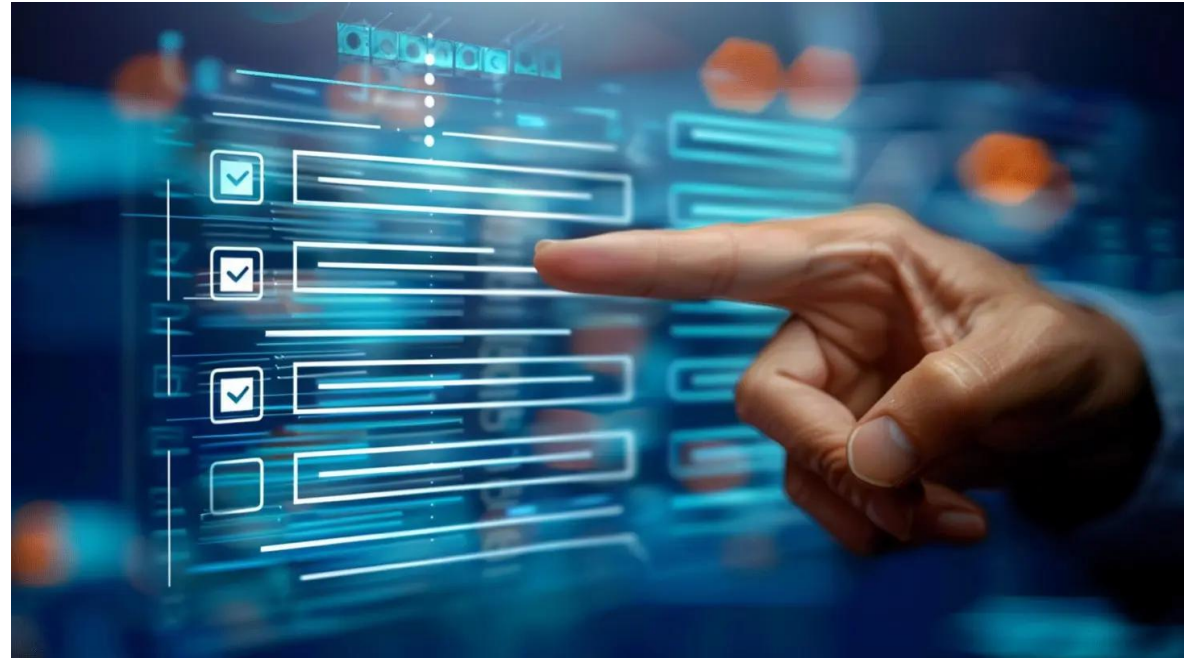
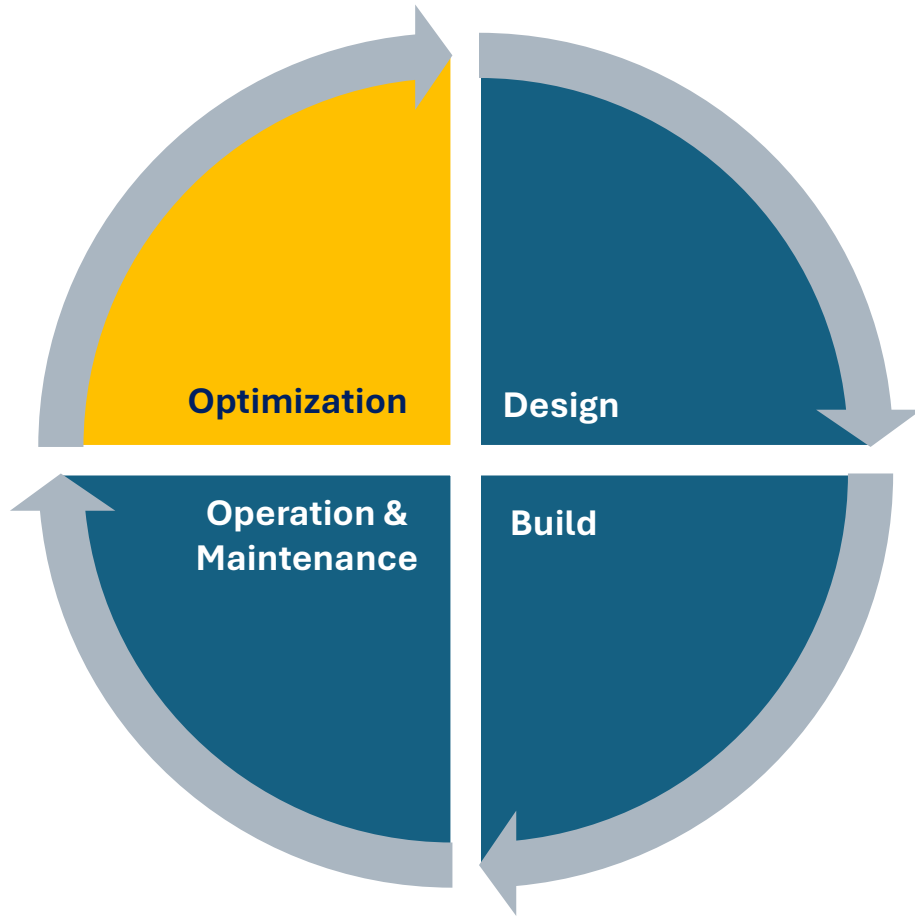
EtherScope® nXG



CyberScope™



Optimization Phase



VI.VI

PROFITAP



Optimization Phase



Data center monitoring tools offer valuable insights into the performance of servers, storage systems, networking equipment, and applications.

These insights help pinpoint bottlenecks and inefficiencies, allowing for optimized resource allocation, effective load balancing, and timely infrastructure upgrades with the ultimate goal of enhancing system performance





Observer
GigaStor

Observer
GigaFlow

Observer Apex

Data Access

Data Analysis

Data
Consumption
and Presentation

Traffic Access
TAPs

Traffic
Aggregation and
Intelligence

Traffic Capture
and Analysis



Synergix's Advanced Data Center Optimization Solutions



Data Center Traffic Visibility and Capture

Profitap offers a comprehensive suite of network visibility and monitoring solutions designed to enhance network performance, security, and troubleshooting capabilities.



Traffic Access

X2 series



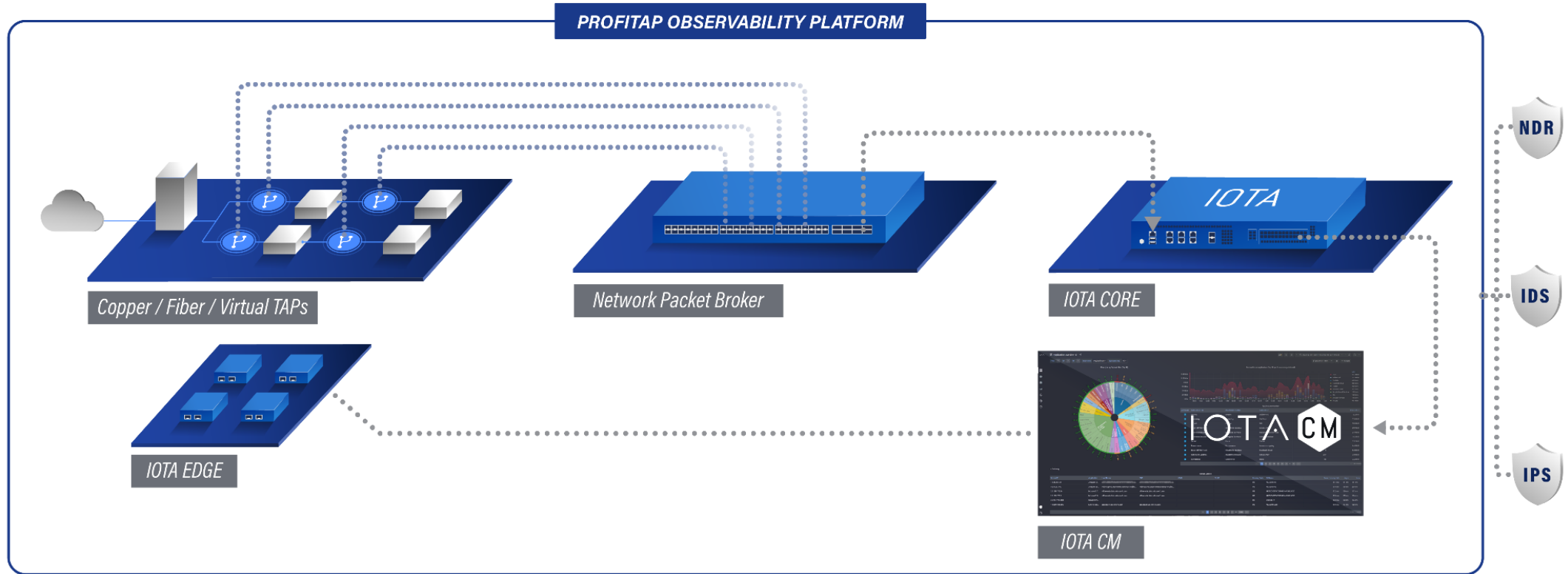
Traffic Aggregation
and Intelligence



Traffic Capture and
Analysis

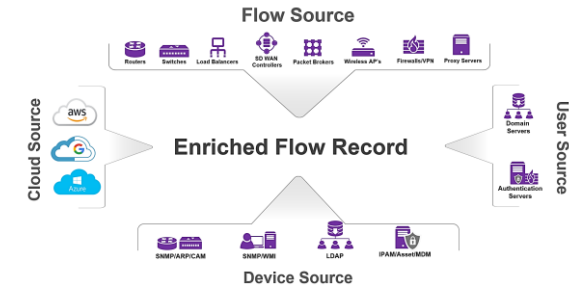
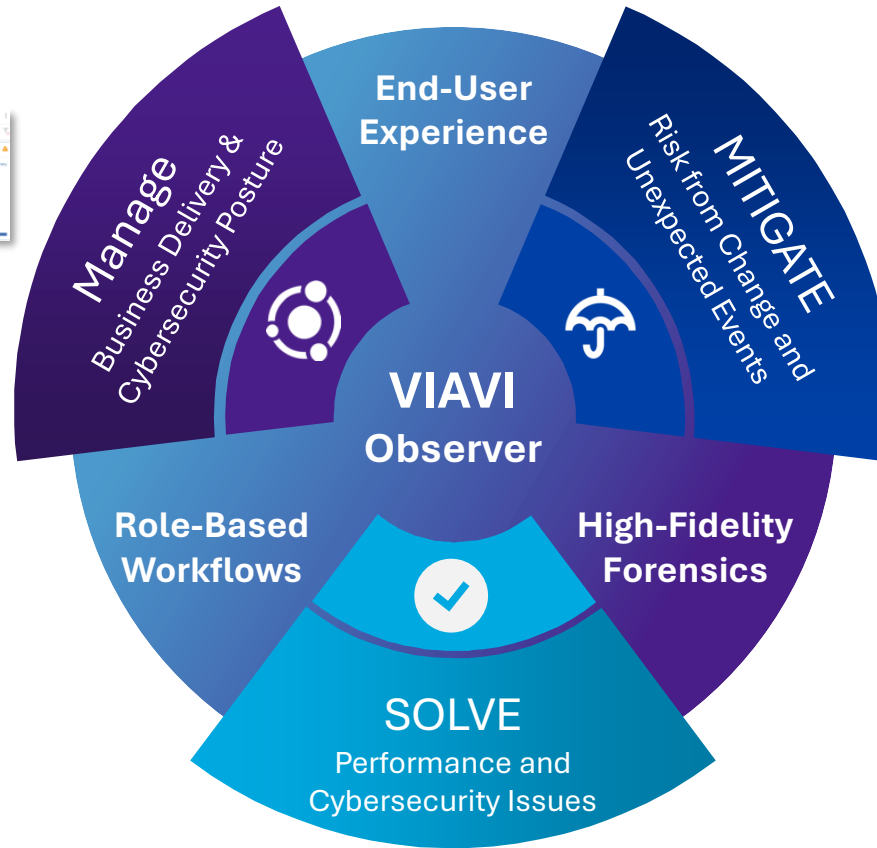
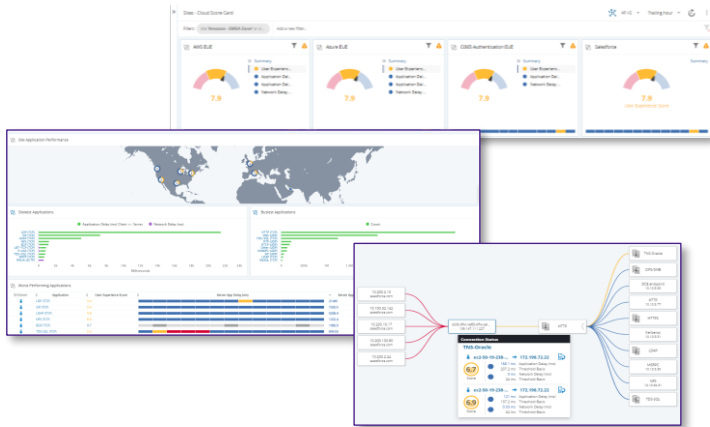


Data Center Traffic Visibility and Capture



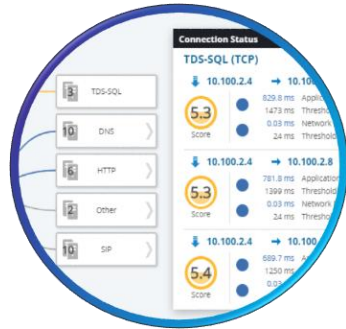
Data Center Performance and Monitoring

VIAMI Solutions Inc., is a prominent provider of network test, measurement, and assurance technologies. Their comprehensive suite of solutions includes network performance monitoring, diagnostics, and security tools designed to optimize and safeguard complex IT infrastructures. With a legacy rooted in optical technology innovations and a commitment to advancing network performance and security



VIAMI Solution Overview

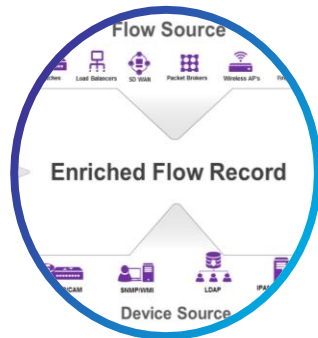
TECHNOLOGIES



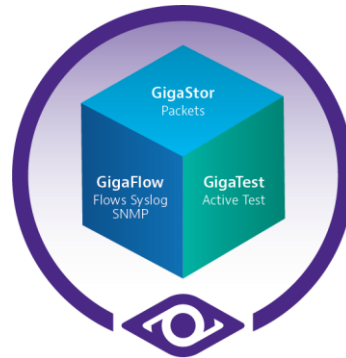
Actionable visualizations, highly efficient workflows



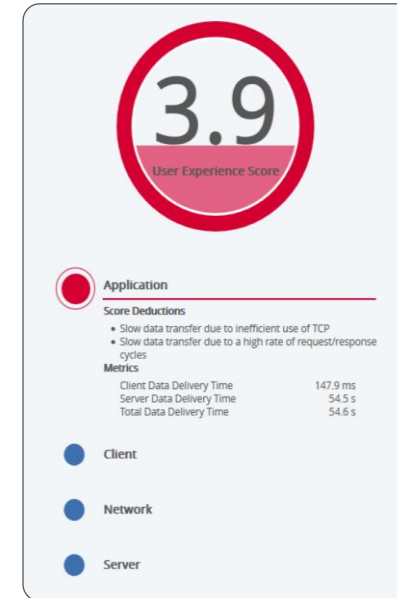
Fully integrated packets, metadata, flow, and active test



Enriched Flow



Flexibility and scale



End-User Experience Scoring



Observer Solution Architecture

