A group of birds flying in a V-formation against a light blue sky, with a soft sunset or sunrise glow at the bottom right.

# Network innovations for the modern data centre

Chris Gascoigne

# Internet of Things

Scale



# Big Data and Analytics

Performance



# Hybrid-Cloud

Visibility

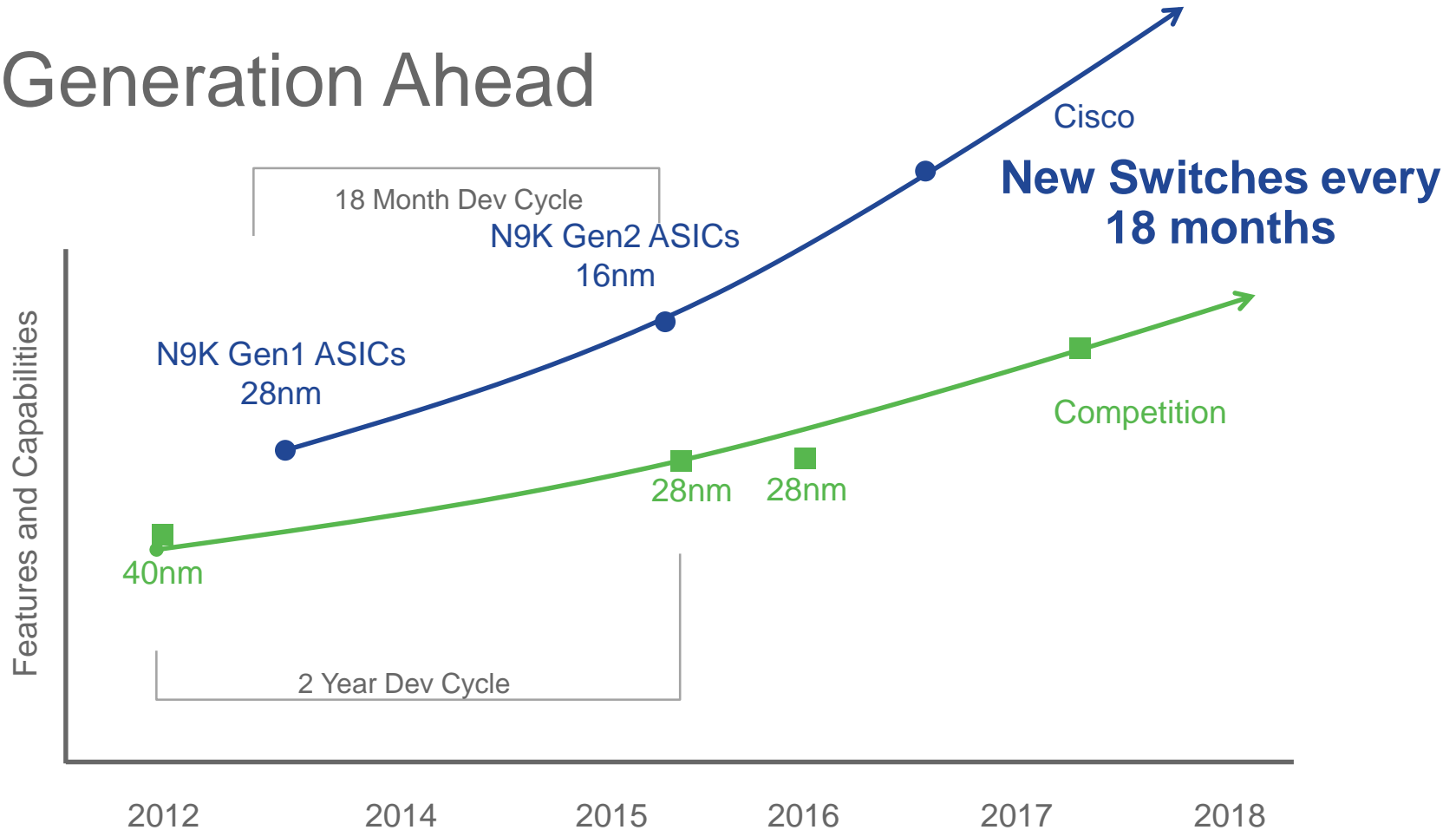


# Microservices and CI/CD

Agility



# A Generation Ahead



# Next Generation Nexus 9000 Portfolio



Performance



Scale

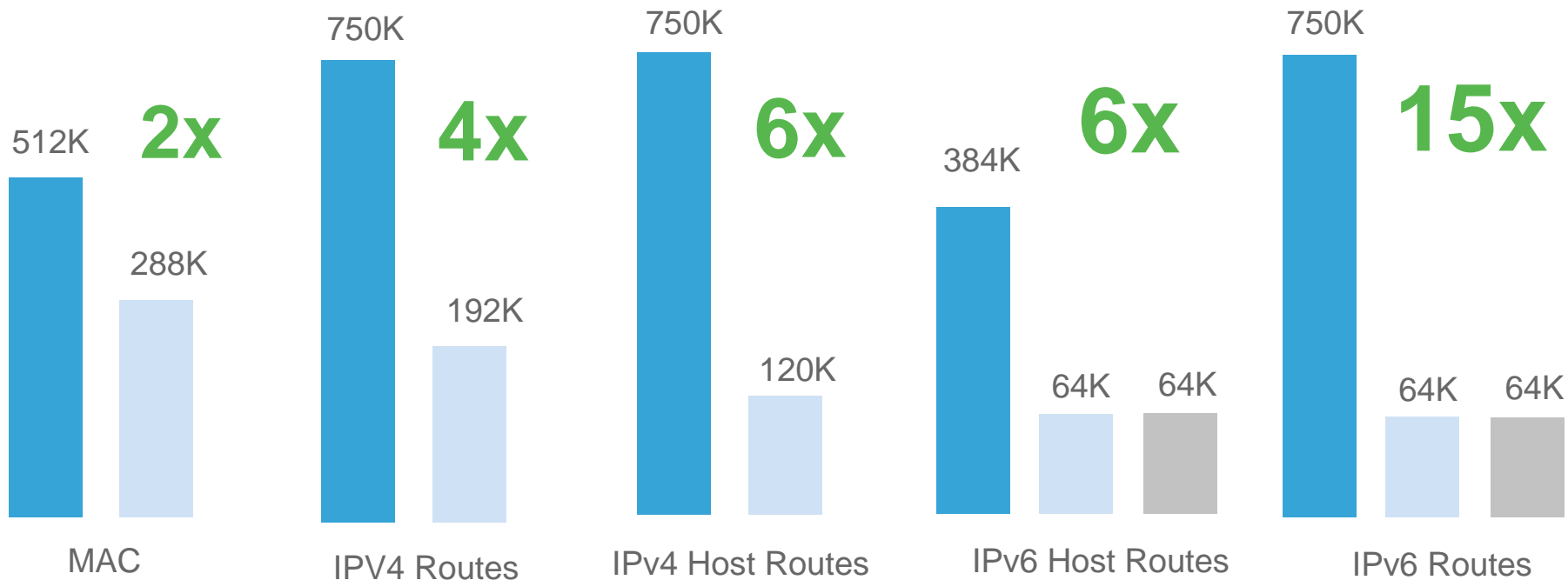


Visibility



Open  
Automation

# Nexus Cloud Scale Technology



# Nexus Cloud Scale Technology



**1/10 GE** → **1/10/25 GE**

**40 GE** → **40/100 GE**

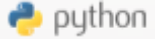
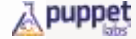
**Fixed** → **Multi-speed**

**Buffers** → **Intelligent buffers**



Open  
Automation

# Open Choice for SDN Network Automation



Programmable Network  
**Device-centric REST API**  
"Do it Yourself"

Modern NX-OS with enhanced NX-APIs

Automation ecosystem

Common NX-API across N2K-N9K

Enabled by programmability, central management, and scale  
**Fabric-wide Policy Centric REST API**

Broad and deep ecosystem

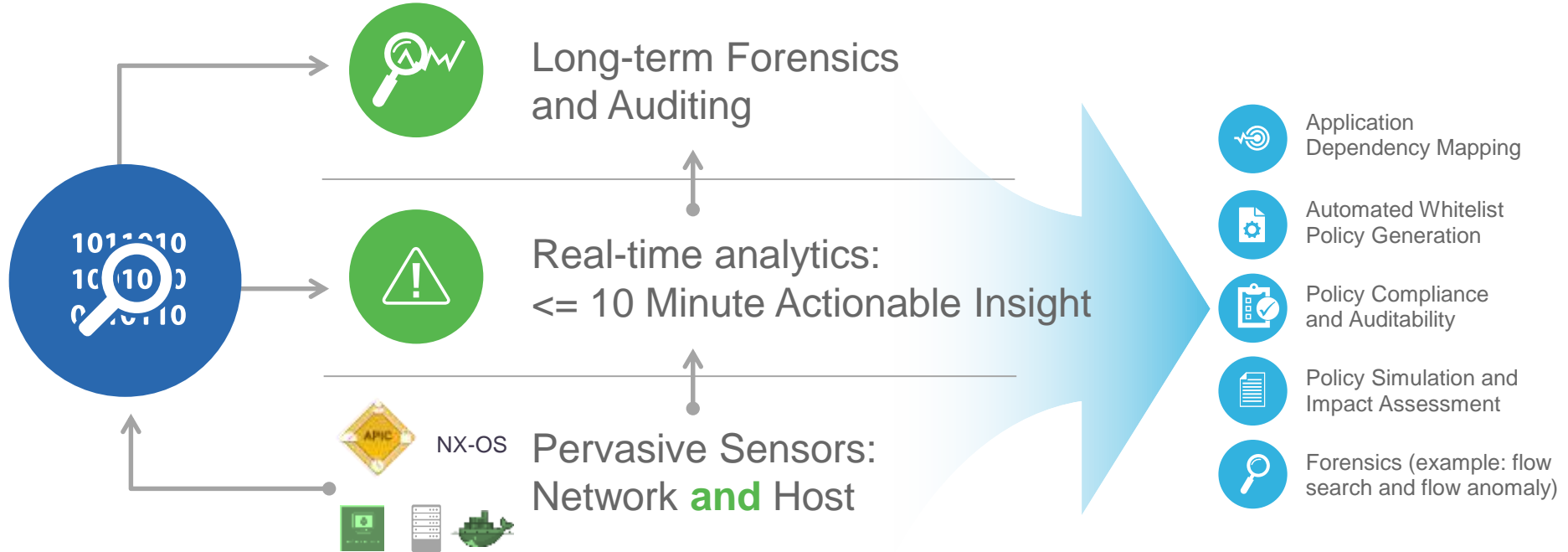
Programmable Fabric  
**Fabric-wide Network-Centric REST API**  
Operability

VxLAN-BGP EVPN network virtualization

3rd party controller support

**SDN READY  
DATA CENTER  
NEXUS PORTFOLIO**

# Cisco Tetration Analytics





# Conclusion

- Scale
- Performance
- Open Automation
- Visibility



**CISCO**

*TOMORROW starts here.*