Enabling Secure Remote Learning for International Students

INTERNET 2

I2 online

AUGUST 20, 2020

BY COMMUNITY, FOR COMMUNITY

Agenda

- Welcome

- Internet2 NET+ Palo Alto Engagement

- Prisma Access - Enabling Secure Remote Learning for International Students

- Princeton University: Prisma Access for International Students

- Q&A/Discussion

Logistics

- Participants microphones and video are turned off

- Please submit your questions via the Q&A functionality
    - Follow up questions, additional feedback may be directed to netplus@internet2.edu

- We will have time for interactive discussion at the end. Please use the "raise my hand" functionality and you will be un-muted (and make sure you un-mute yourself as well!)

- Today's virtual event is being recorded and will be made available on the Internet2 NET+ Palo Alto Wiki: https://spaces.at.internet2.edu/pages/viewpage.action?pageId=172261803

Joe Karam
Associate Director for Network & Monitoring
Services
Princeton

Nick Lewis
NET+ Program Manager, Security & Identity
Internet2

Paul Tarkington
Prisma Access Sales Specialist
Palo Alto Networks

SPEAKERS

I2online
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Internet2 NET+ Palo Alto Engagement

- Pre-Evaluation Service Offering to meet immediate institutional needs
  - A pre-service evaluation agreement for Palo Alto Networks Prisma Access Service is available to Internet2 higher education members and other research and education institutions.
  - This agreement has custom pricing and the ability to transition to the full NET+ Palo Alto service when service evaluation is completed.
  - The pre-service evaluation agreement for Palo Alto Networks Prisma Access Service is through a variety of resellers and you can learn more by contacting paloaltonetworks@carahsoft.com.

- Service Evaluation includes Prisma Access, Cloud, and SaaS
  - 6 institutions participating. Sponsored by University of Nebraska.
  - Reviewing services to ensure they meet higher education standards in areas such as functional, technical, security and compliance, identity, business and legal, and other areas of importance.
  - Learn more at: https://spaces.at.internet2.edu/x/q4FECg
  - Interested in participating? Email Nick Lewis at nlewis@internet2.edu.

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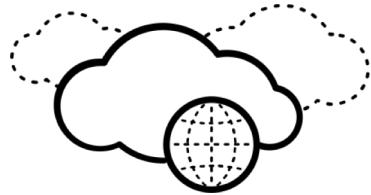
- Q&A/Discussion

Prisma Access - Enabling Secure Remote Learning for International Students

Paul Tarkington, Prisma Access/SaaS Specialist
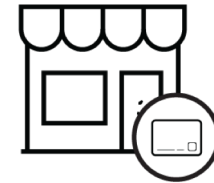ptarkington@paloaltonetworks.com

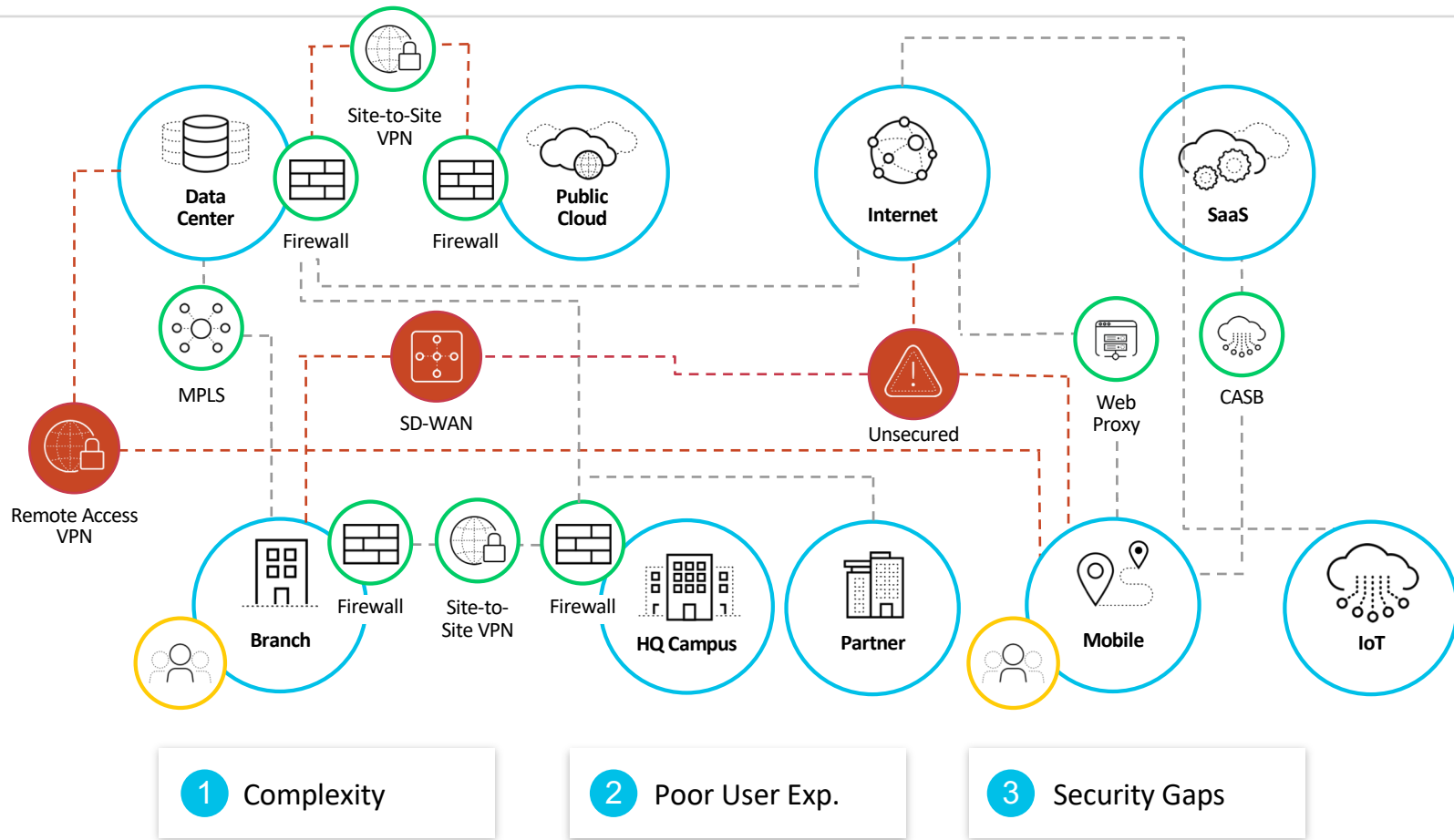# Technology & Current Events are Driving Permanent Changes

Cloud & SaaS
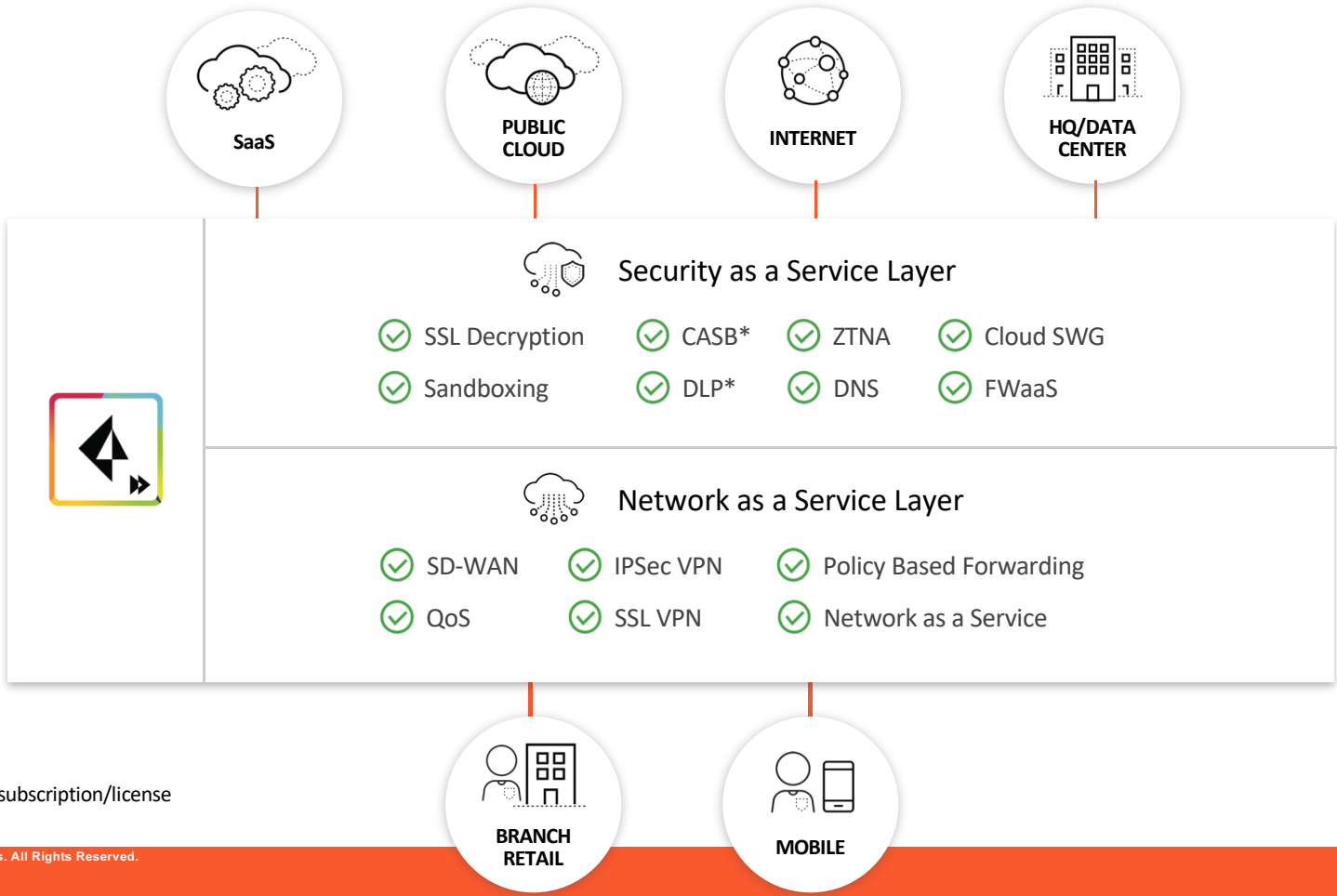Adoption

Work/Learn from
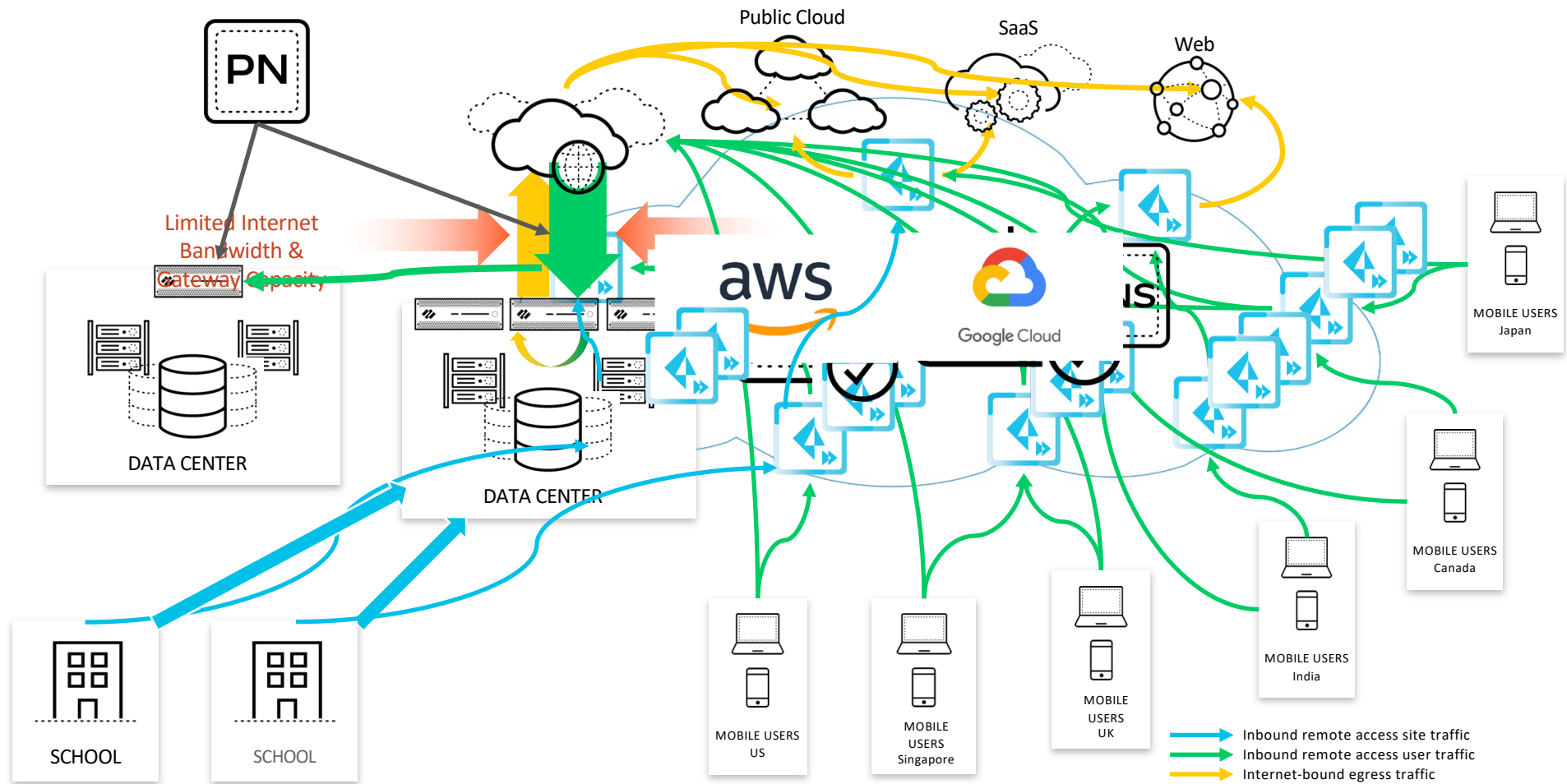Home & Mobility

Demand for Global
Education Delivery

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Traditional Remote Access Architecture

Site-to-Site VPN

Data Center

Firewall

Firewall

Public Cloud

Internet

SaaS

MPLS

SD-WAN

Unsecured

Web Proxy

CASB

Remote Access VPN

Branch

Firewall

Site-to-Site VPN

Firewall

HQ Campus

Partner

Mobile

IoT

1 Complexity

2 Poor User Exp.

3 Security Gaps

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NETWORKS

Prisma Access - The Industry's Most Comprehensive Secure Access Service Edge

SaaS

PUBLIC CLOUD

INTERNET

HQ/DATA CENTER

Security as a Service Layer

- ⊘ SSL Decryption
- ⊘ CASB*
- ⊘ ZTNA
- ⊘ Cloud SWG
- ⊘ Sandboxing
- ⊘ DLP*
- ⊘ DNS
- ⊘ FWaaS

Network as a Service Layer

- ⊘ SD-WAN
- ⊘ IPSec VPN
- ⊘ Policy Based Forwarding
- ⊘ QoS
- ⊘ SSL VPN
- ⊘ Network as a Service

* Does require additional subscription/license

BRANCH RETAIL

MOBILE

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Network Transformation - Current vs Future State

PN

Limited Internet Bandwidth & Gateway Capacity

DATA CENTER

DATA CENTER

Public Cloud

SaaS

Web

aws

Google Cloud

SCHOOL

SCHOOL

MOBILE USERS US

MOBILE USERS Singapore

MOBILE USERS UK

MOBILE USERS India

MOBILE USERS Canada

MOBILE USERS Japan

→ Inbound remote access site traffic
→ Inbound remote access user traffic
→ Internet-bound egress traffic

Prisma Access - GCP High Speed Low Latency Interconnect

Prisma Access Underlying Infrastructure
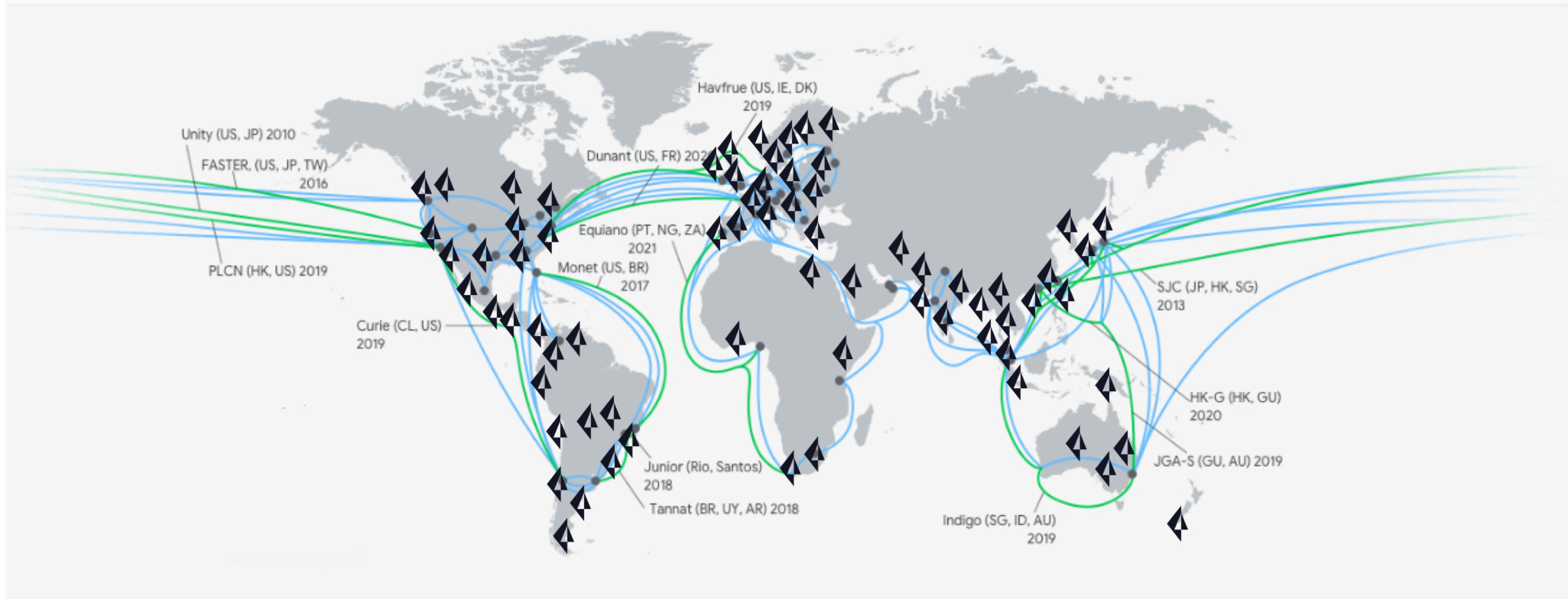
Prisma Access: Summary
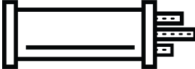
Natively cloud based
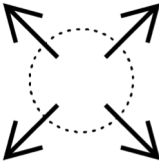
Auto-Scales as needed
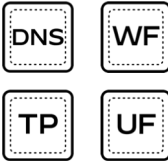
Global High speed/low latency fiber network & Tier one piering
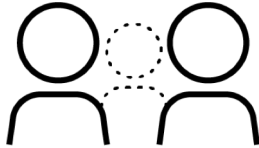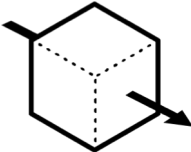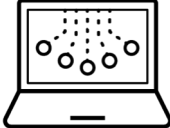
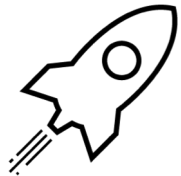Single tenant dataplane by design

Reduction in DC Internet Bandwidth

DNS   WF
TP   UF

Full Inspection

Single pass scanning for all threats

Global Service Level Agreements
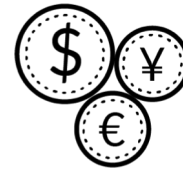
paloalto NETWORKS

Delivering Better Outcomes Today and in the Future

Speed, Flexibility and Global Scale

Consistent security & compliance

Reduced operational cost & complexity

Improved user experience

paloalto NETWORKS

Thank you

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Key Prisma Access Strategies

1. Improve external security for domestic and international programs

2. Improve performance & reliability for international faculty, students and staff

3. Provide scalability as programs develop and grow around the world

Prisma Access Design Principles

- Full tunnel configuration to provide access to same resources as campus community

- Leverage worldwide Prisma Access gateways on Google Cloud Platform for high performance to Internet resources and access to Princeton network resources

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Please tell us how we did today!

Take our survey:

https://bit.ly/PrismaAccessIntl

Have a question or feedback we didn't get to?

netplus@internet2.edu