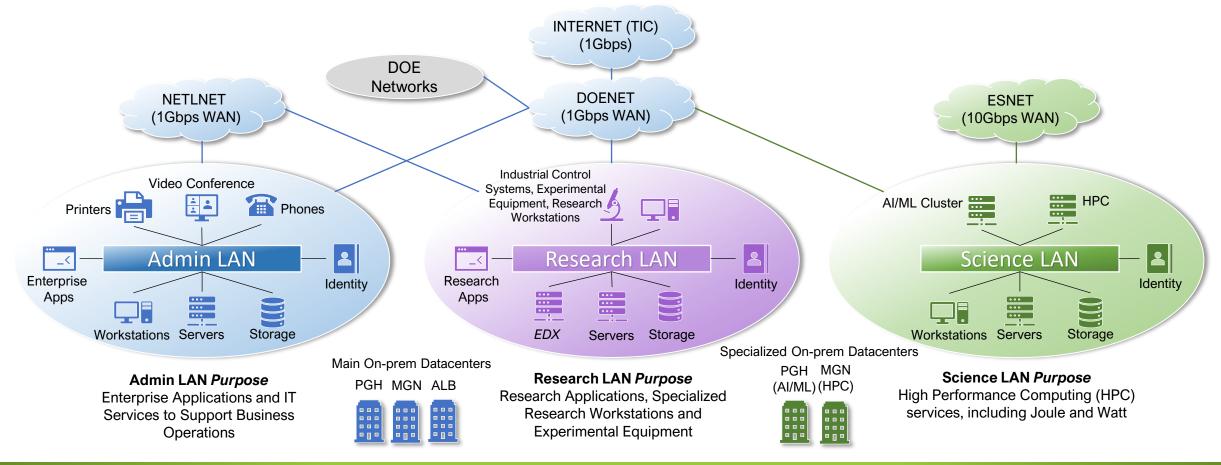
Current State

IT Environments



Business and Research technical and cyber security requirements have historically been very different, which drove the creation of 3 separate IT environments built for its specific purpose.



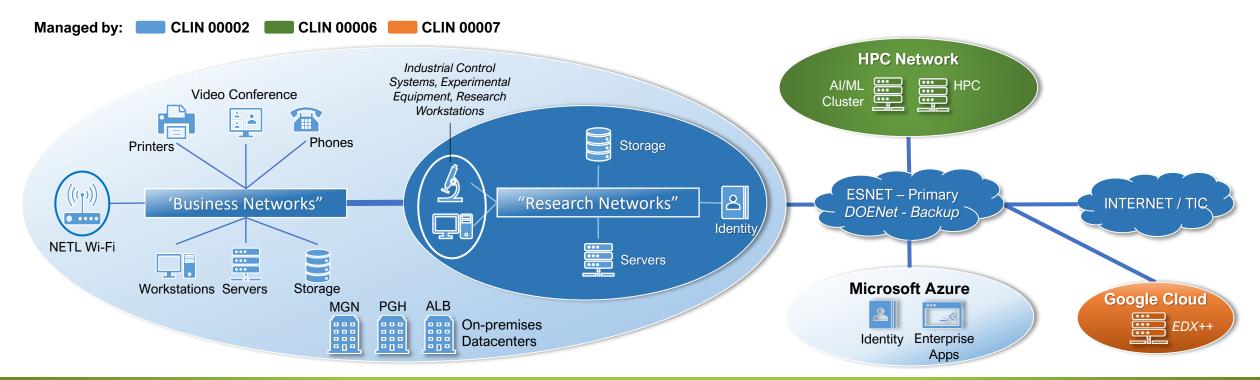


Future State

NATIONAL ENERGY TECHNOLOGY LABORATORY

Transforming into a Dynamic & Integrated Hybrid-Cloud Architecture

- Implement an integrated architecture to enable improved connectivity and collaboration
- Transition into a hybrid-cloud infrastructure
- Establish new capabilities and adopt new technologies to better meet business & research objectives, such as
 - High speed networks to support big data transfers
 - Increased user mobility both on-site and remotely to enable Anywhere Operations
 - Centralized identity & access management solution to provide secure access to different user types
- Implement Zero Trust Architecture to increase cybersecurity capabilities to better protect NETL's data assets





Technologies



- Microsoft Products
- Linux Products
- Azure Cloud
- Amazon Web Services (AWS)
- Google Cloud Provider (GCP)
- VMware
- HP Data Center Hardware
- Cisco Networks and Juniper Networks
- Cisco VoIP
- Palo Alto Products



Hardware Asset Count



Asset Type	Count
Workstations	2,350
Servers	450
Switches	300
Firewall Devices	16
Routers	14
VPN Devices	6
Wireless Access Points	95
VoIP Phones	2,200
Mobile Devices (iPhones/iPad)	340
Printers/Plotters/MFPs	300
Cisco Video Conference Units	40

