



IT Services

Board Presentation

August 16th, 2023

SEE THE IMPACT

WHO WE ARE

IT Services

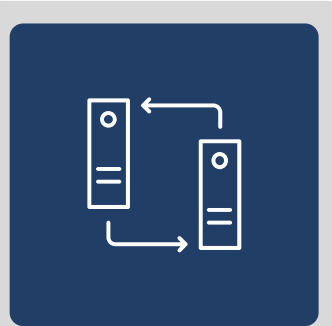
About Us:

WHO WE ARE

IT Services

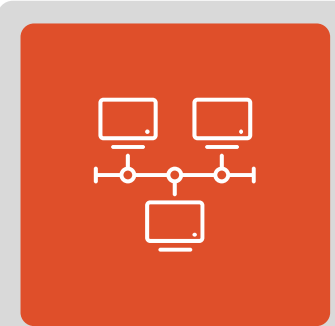
SERVICE DESK

PROVIDING FIRST CONTACT
RESOLUTION OF INCIDENTS
AND PROBLEMS. MAINTAINS
THE IT SERVICE MANAGEMENT
SYSTEM (ITSM)



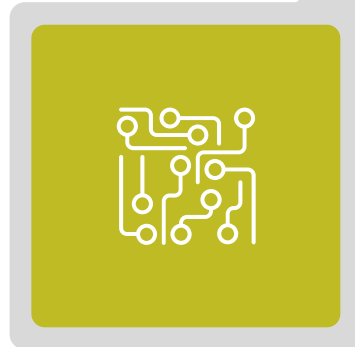
OPERATIONS SERVICES

PROVIDES BUSINESS-CRITICAL
NETWORK INFRASTRUCTURE,
COMPUTE, AND REAL-TIME
COMMUNICATIONS
CAPABILITIES. MANAGES THE
DATACENTER/S



INFORMATION SECURITY

SAFEGUARDS THE
ORGANIZATION'S DATA FROM
EXTERNAL AND INTERNAL
THREATS, REVIEWS, CREATES,
AND ENACTS SECURITY POLICY



IT LEADERSHIP TEAM

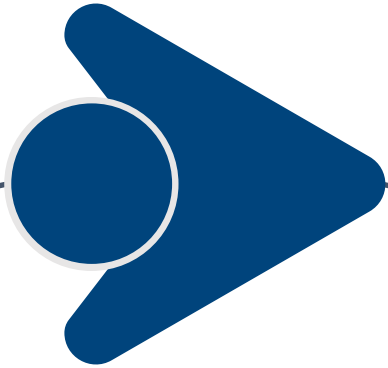
APPLICATIONS

BUILDS, IMPLEMENTS, AND
CUSTOMIZES IN-HOUSE AND
COMMERCIAL OFF-THE-SHELF
(COTS) APPLICATIONS AND
WORKFLOWS. OVERSEES PROCESS
IMPROVEMENT



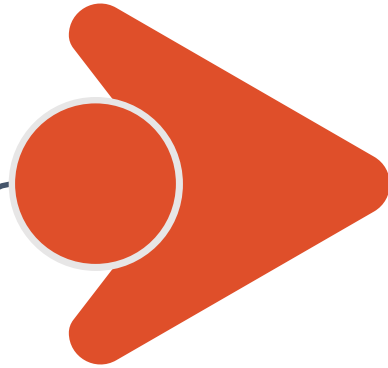
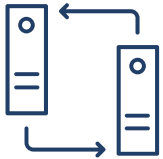
WHO WE ARE

IT Services



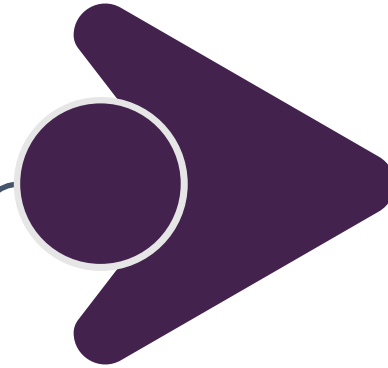
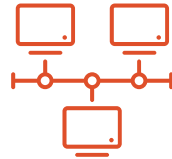
JAIME SALINAS

SERVICE DESK



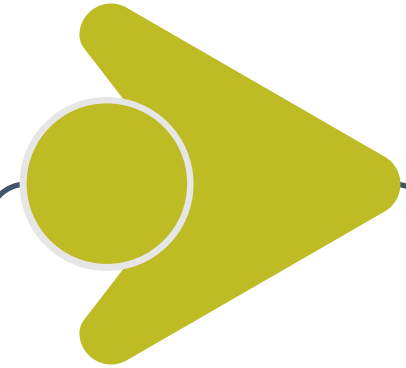
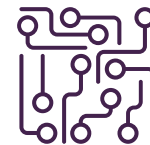
GEORGE HEMBREE

OPERATIONS SERVICES



TIM DAVIS

APPLICATIONS



JOHN KRACHT

INFORMATION
SECURITY



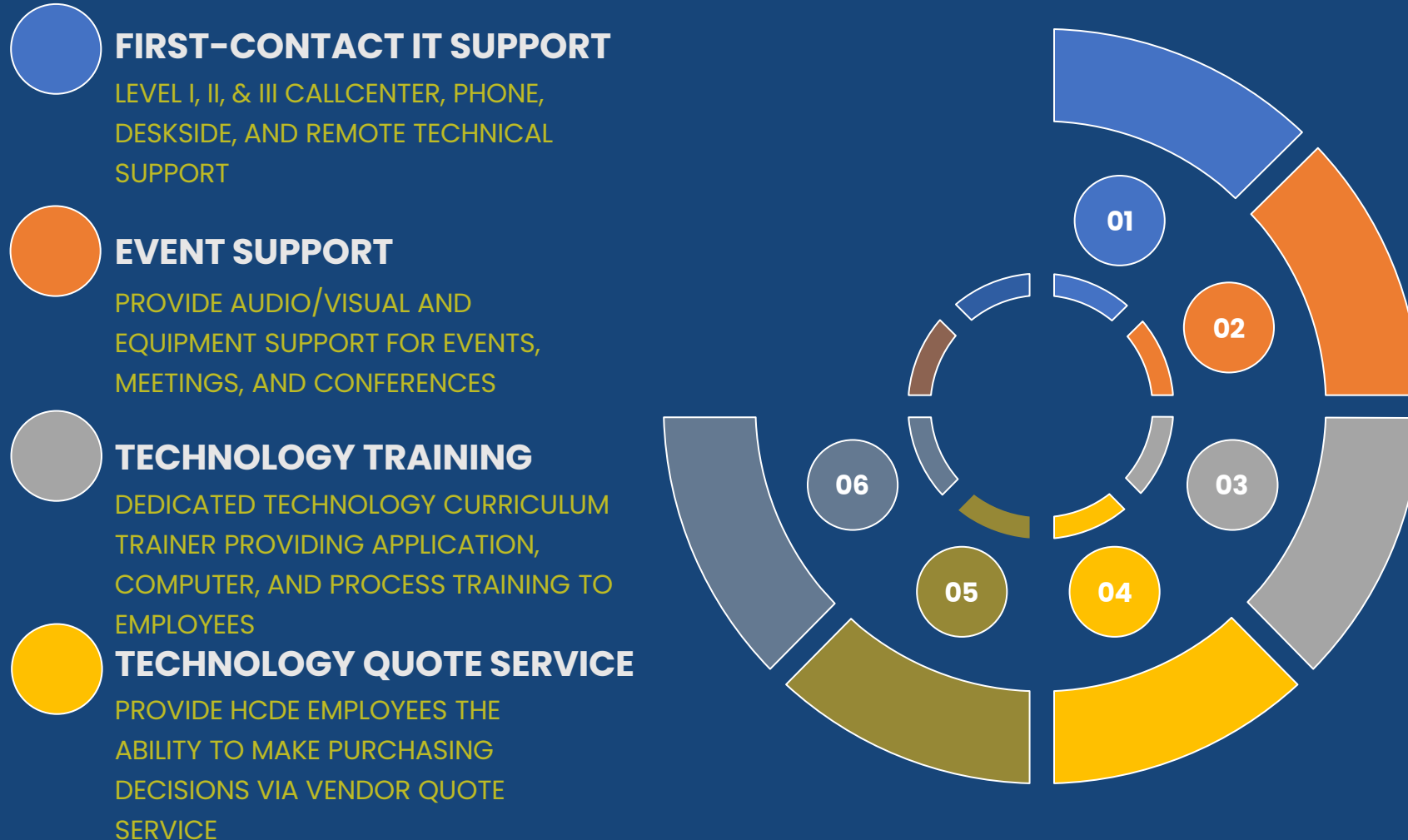
Services Provided

- Identity Management (UserID, Email, Permissions, Role-based Access control)
- Internet access, local and metro-area-networks (IA, LAN, MAN)
- WiFi and 5G networks
- Facility technology support (Meeting and conference room Audio/Visual prep and event support)
- Construction support (Infrastructure standards development, vendor facilitation, quotes, network design architecture)
- In-house app development and COTS (Commercial-off-the-shelf) customization, workflow improvements, in-house app development, deployment, and support
- LMS and ERP support (Learning Management Systems, Enterprise Resource Planning, custom reports, dashboards)
- Technology and Application end user training
- Phone, remote, and deskside support
- Endpoint Management (Computer and device provisioning, support, security, configuration, and policy management)
- Information Security (Data Governance, Compliance, Security, and Policy)
- Process Improvement services to Divisions using industry-leading methodologies

SERVICES PROVIDED

SERVICE DESK

IT Services



SERVICES PROVIDED

OPERATIONS SERVICES

IT Services

IDENTITY MANAGEMENT

USER ID, EMAIL, PERMISSIONS, DATA GOVERNANCE, ROLE-BASED ACCESS CONTROLS

CONNECTIVITY

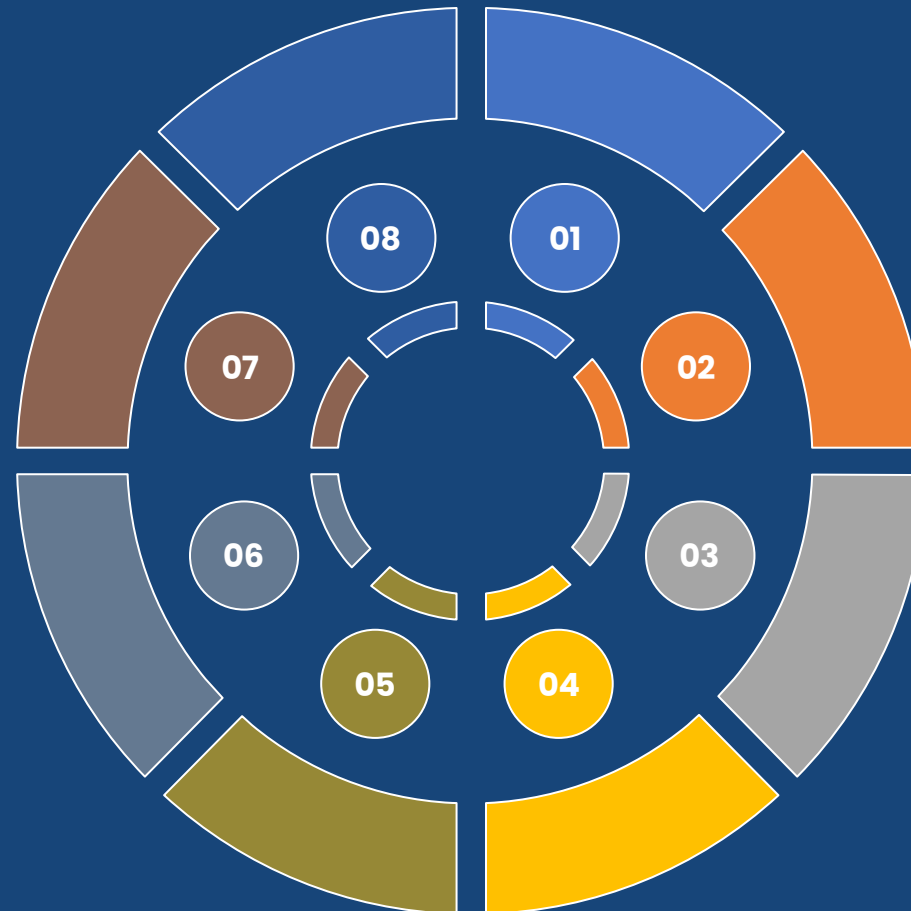
INTERNET ACCESS, LOCAL AND METRO-AREA NETWORKS, VIA FIBER, COPPER, WIFI AND 5G

FACILITY SUPPORT

MEETING AND CONFERENCE ROOM SCHEDULING SYSTEMS, WORKSPACE MANAGEMENT SYSTEMS

CONSTRUCTION SUPPORT

STANDARDS DEVELOPMENT, VENDOR FACILITATION, NETWORK ARCHITECTURE/DESIGN AND IMPLEMENTATION



24/7/365 DATACENTER

REAL-TIME OPERATIONS SUPPORT, NETWORK, POWER, AND COOLING SYSTEMS MONITORING AND SUPPORT

E-RATE MANAGEMENT

LEVERAGING USAC E-RATE FUNDS FOR CAMPUS CONNECTIVITY AND NETWORK EQUIPMENT COSTS

COMPUTE

MAINTAIN AND SUPPORT OVER 250 ON-PREMISES AND CLOUD-BASED SERVERS AND WORKLOADS

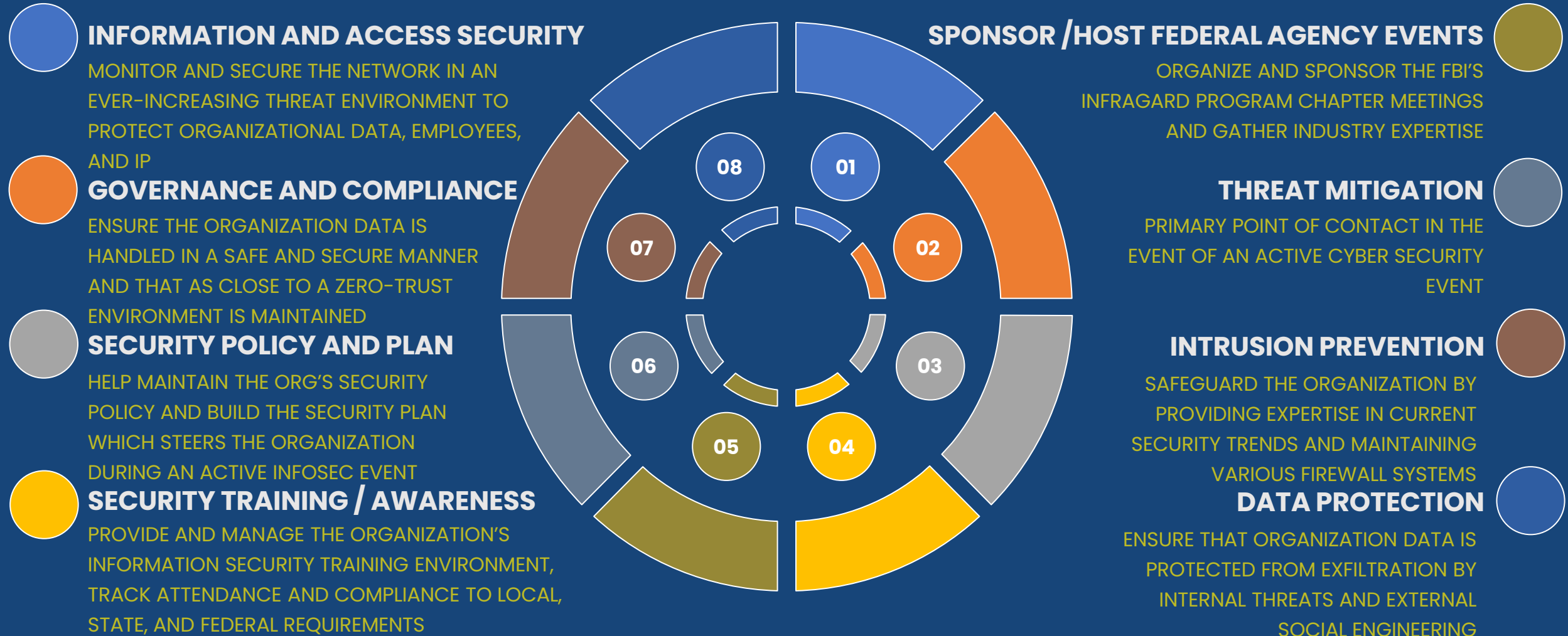
CLOUD CAPABILITY

BALANCE THE RELATIVE SECURITY OF CLOUD SERVICES WITH ON-PREMISES AGILITY AND COST EFFICIENCY IN A HYBRID CAPACITY

SERVICES PROVIDED

INFORMATION SECURITY

IT Services

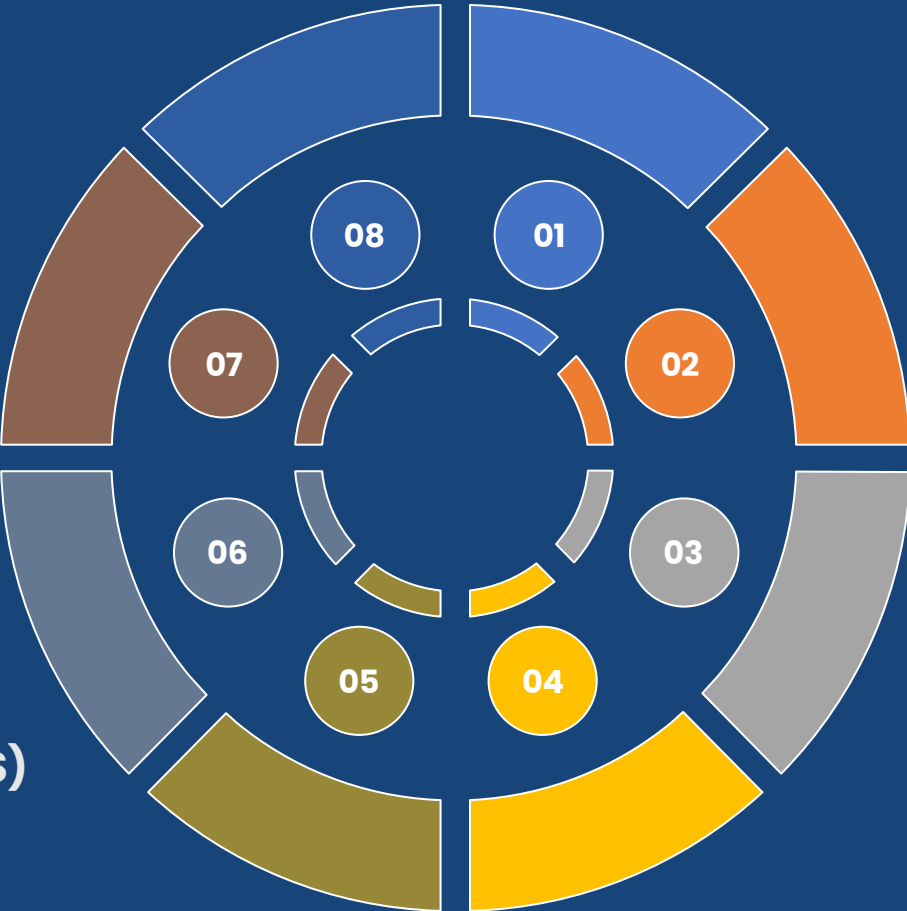


SERVICES PROVIDED

APPLICATIONS

IT Services

-  **APPLICATION DEVELOPMENT**
WHEN FEASIBLE, DESIGN, BUILD, IMPLEMENT, AND SUPPORT CUSTOM APPLICATIONS
-  **ERP (E-FINANCE) SUPPORT**
DEDICATED SUPPORT FOR THE ORGANIZATION'S ENTERPRISE RESOURCE PLANNING TOOL
-  **SOLUTIONS DELIVERY**
WHERE FEASIBLE, CUSTOMIZE OFF THE SHELF APPLICATIONS TO SUIT A DIVISION'S NEEDS AND PROVIDE SUPPORT
-  **HR INFORMATION SYSTEM (HRIS)**
PROVIDE DEDICATED HUMAN RESOURCES SYSTEMS SUPPORT



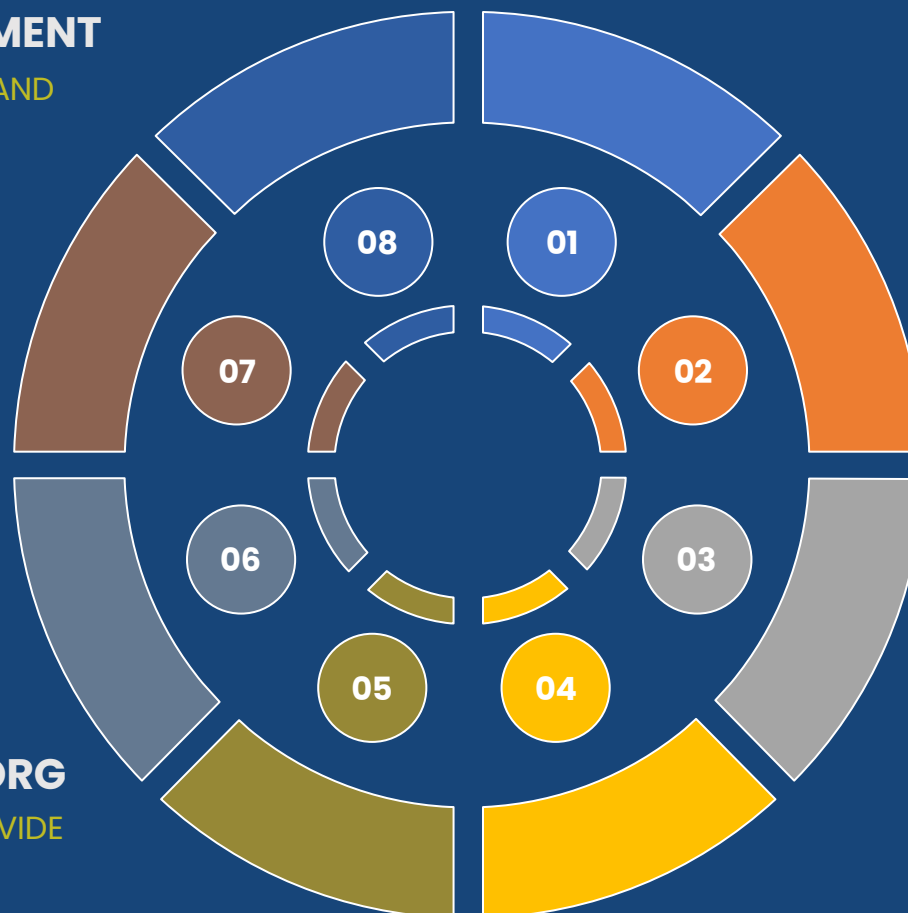
-  **PROCESS IMPROVEMENT**
MANAGE THE ORGANIZATION'S PROCESS IMPROVEMENT INITIATIVES VIA DEDICATED COORDINATOR
-  **LEARNING MANAGEMENT SYSTEM (LMS)**
IMPLEMENT AND SUPPORT THE VARIOUS LMS IN THE ORGANIZATION, PROVIDING INTERNAL AND EXTERNAL VALUE TO LEARNERS AND EDUCATORS
-  **DATABASE MANAGEMENT**
MAINTAIN AND SAFEGUARD THE ORGANIZATION'S VARIOUS DATASETS, DATABASES, AND DATA LAKES
-  **WEB APP MANAGEMENT**
BUILD AND DEPLOY STANDARD AND CUSTOM WEB APPS IN THE CLOUD FOR DIVISIONS

SERVICES PROVIDED

PROJECT MANAGEMENT OFFICE (COMING MARCH, 2024)

IT Services

-  **PROJECT PORTFOLIO MANAGEMENT**
ORGANIZE, PLAN, AND SOCIALIZE EXISTING AND FUTURE PROJECTS VIA A COHESIVE, STANDARDIZED PROJECT CATALOG
-  **PROJECT GOVERNANCE**
ENSURE THAT LIMITED AND PRECIOUS RESOURCES ARE UTILIZED AND SCHEDULED WITH INPUT FROM STAKEHOLDERS AND ELT
-  **PROCESS IMPROVEMENT**
INCORPORATE INDUSTRY-LEADING PROCESS METHODOLOGIES WHERE FEASIBLE, AND DOCUMENT EXISTING PROCESSES TO FIND EFFICIENCIES IN WORK
-  **PROVIDE MORE VALUE TO THE ORG**
WILL SET AND DETERMINE STANDARDS, PROVIDE GUIDANCE, SHARE RESOURCES, AND ALIGN PROJECTS WITH STRATEGY



COMMON PROJECT CULTURE

ESTABLISH A COMMON CULTURE THROUGH COMMUNICATION AND TRAINING TECHNIQUES AS WELL AS INDUSTRY STANDARDS

RESOURCE MANAGEMENT

MANAGE AND ALLOCATE RESOURCES ACROSS PROJECTS BASED ON PRIORITIES, SCHEDULES, BUDGETS, AND GOVERNANCE

ACCOUNTABILITY

MANAGE DOCUMENTATION, PROJECT HISTORY, ORGANIZATIONAL KNOWLEDGE, AND TRACEABILITY

PMO SOFTWARE

DEVELOP AND IMPLEMENT THE PMO'S REAL-TIME PRIMARY SOFTWARE APPLICATION AND ITS METHODOLOGY

DATA HIGHLIGHTS

IT Services



SERVICEDESK INCIDENT TICKETS RECEIVED LAST 365 DAYS

9968



CUSTOMER SATISFACTION BASED ON 277 RESPONSES

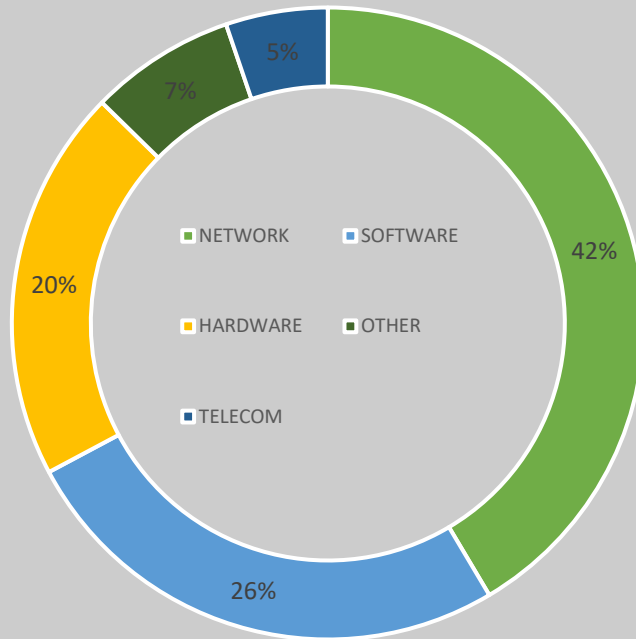
97.2%



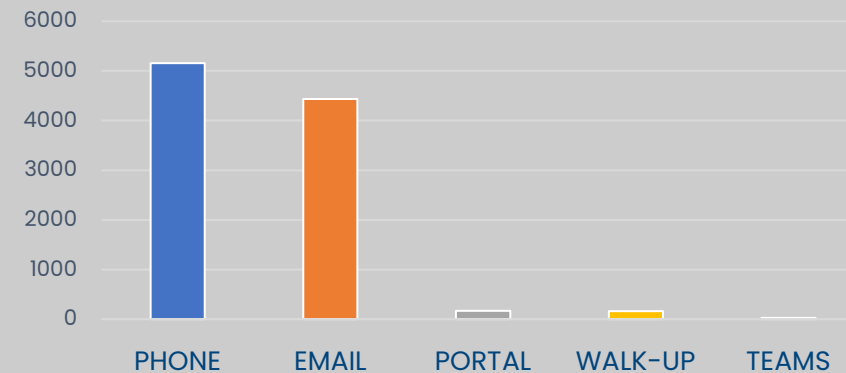
FIRST CONTACT RESOLUTION RATE

92.83%

TICKETS BY CATEGORY



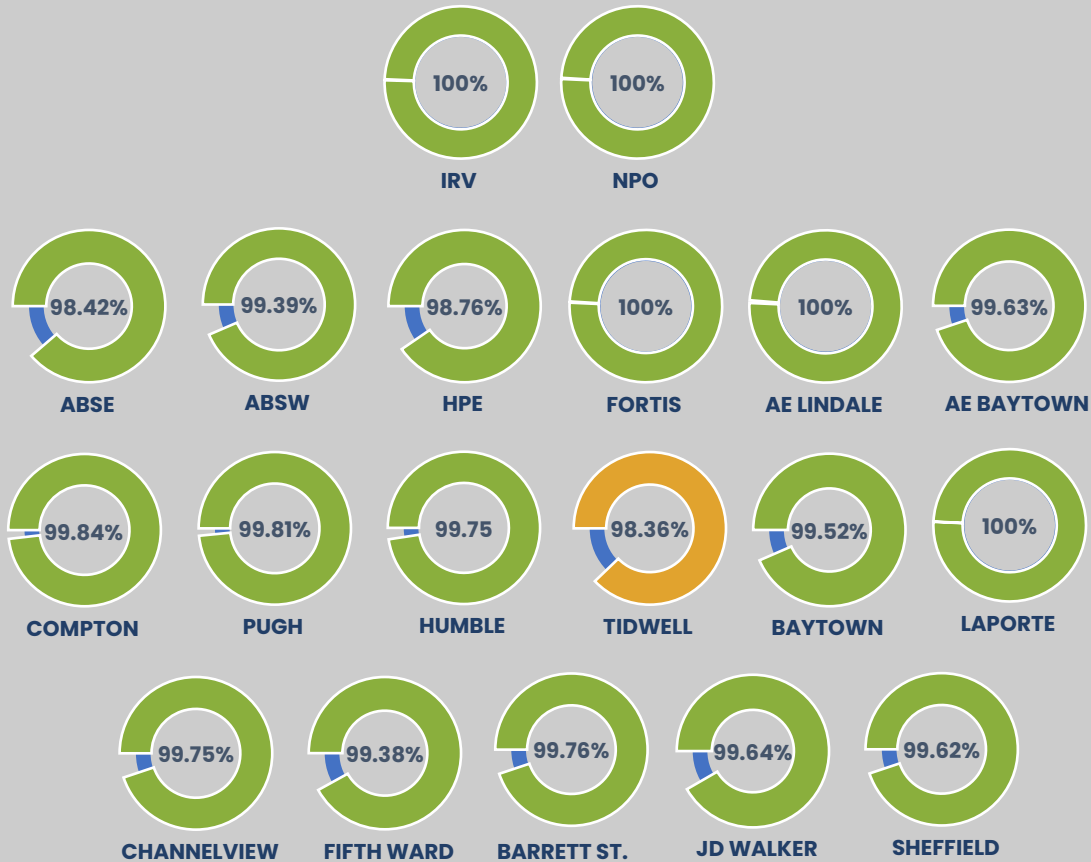
TICKETS RECEIVED BY SOURCE



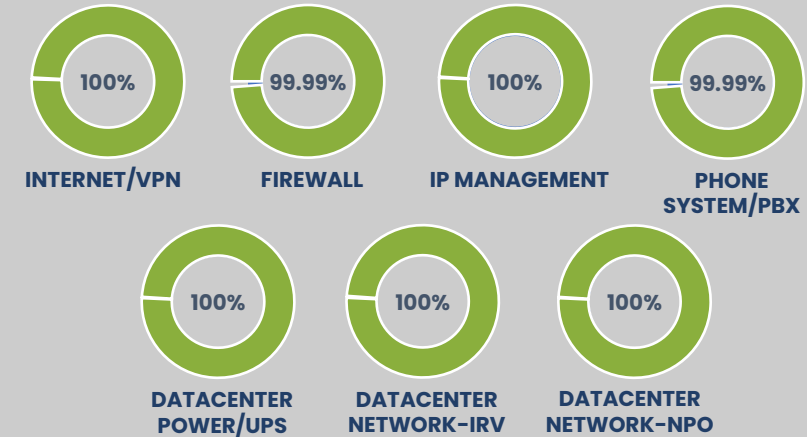
DATA HIGHLIGHTS

IT Services

NETWORK AVAILABILITY BY SITE LAST 365 DAYS



CRITICAL SYSTEMS AVAILABILITY LAST 365 DAYS



AVAILABILITY ASSUMPTIONS:
ASSUME 24X7X365 REQUIREMENT
THEN WORST PERFORMING SITE:

98.36% =

DAILY: 23M 37S

WEEKLY: 2H 45M 19S

QUARTERLY: 1D 11H 38M 41S

YEARLY: 5D 22H 34M 43S

VS

AVAILABILITY ASSUMPTIONS:
ASSUME 24X7X365 REQUIREMENT
AVAILABILITY GOAL:

99.99% =

DAILY: 8.6S

WEEKLY: 1M .48S

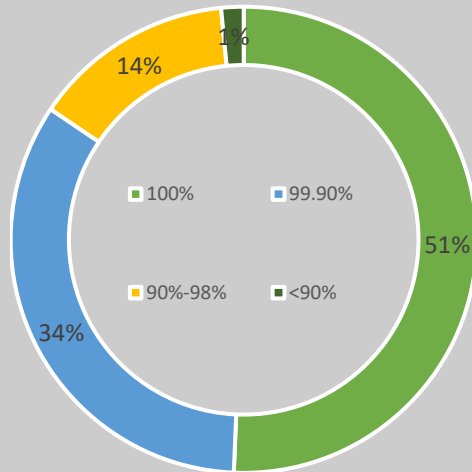
QUARTERLY: 13M 2.4S

YEARLY: 52M 9.8S

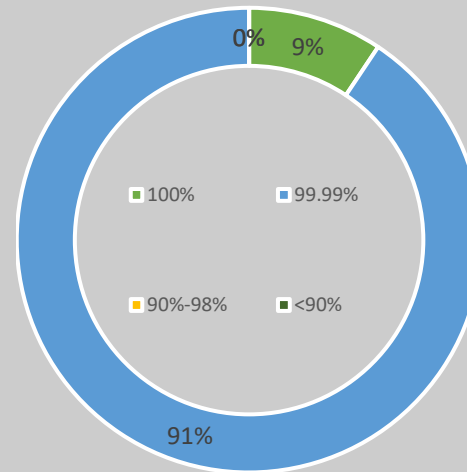
DATA HIGHLIGHTS

IT Services

ON-PREMISES SERVER UPTIME



CLOUD-BASED SERVER UPTIME



**EFINANCE
CLUSTER AVG
AVAILABILITY**

**AVAILABILITY ASSUMPTIONS:
ASSUME 24X7X365 REQUIREMENT
THEN WORST PERFORMING:
99.20% =**
DAILY: 11M 31S
WEEKLY: 1H 20M 38S
QUARTERLY: 17H 23M 16S
YEARLY: 2D 21H 22M 2S



**HIGHEST NUMBER OF CONCURRENT
WIFI –CONNECTED GUESTS**

679



**WIFI DATA USAGE:
HCDE-EMPLOYEES (LAST MONTH)**

4.88 TB



**NETWORK DATA USAGE:
ETHERNET (LAST 6 MONTHS)**

131 TB



**WIFI DATA USAGE:
HCDE-GUEST (LAST MONTH)**

1.34 TB

DATA HIGHLIGHTS

IT Services



PROJECTS IN PROGRESS

64

2022-23
Active Projects
for Divisions

21

2022-23
Division Projects
Completed

43

2022-23
Division Projects
Carried Over

19

2023-24
Active Projects
for Divisions

0

2023-24
Division Projects
Completed

0

2023-24
Division Projects
Carried over

68

2022-24
Active Internal IT
Projects

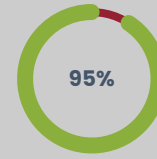
13

2022-24
Internal IT Projects
Completed

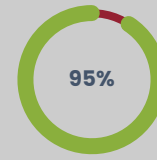
18

2022-24
Internal IT Projects
not Started or P.O.C.

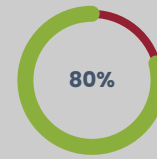
CURRENTLY ACTIVE PROJECTS



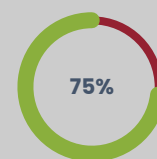
EMPLOYEE RECORDS



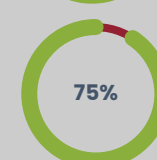
PERFORM



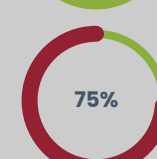
CLIENT ASSESSMENT



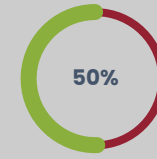
CRYSTAL REPORTS UPDATE



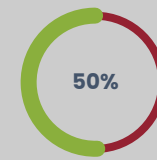
LOGI SERVER UPDATES



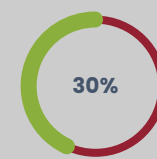
UNIFIED INSIGHTS (ON HOLD)



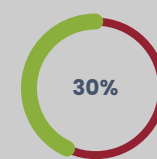
ENROLLMENT EXPRESS



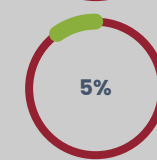
SCHOOLGY LMS



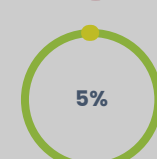
PCARD PROCESS MAPPING



CP PROCESS IMPROVEMENT



PROFESSIONAL LEARNING



LASERFICHE FORMS (MULTIPLE)

DATA HIGHLIGHTS

IT Services



MICROSOFT SECURE SCORE (HCDE)

71.5%



MICROSOFT SECURE SCORE (OTHER SLED)

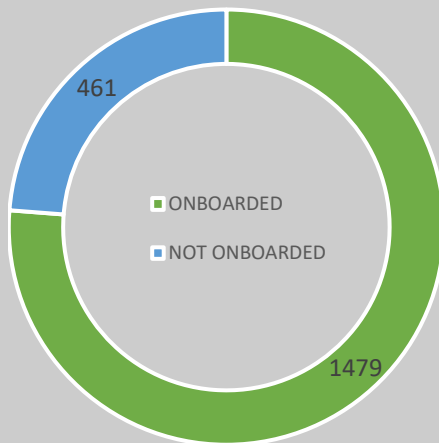
42.8%



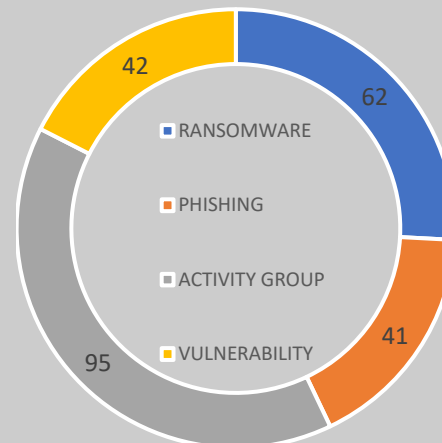
SECURITY ACTIONS/INVESTIGATIONS TAKEN IN LAST 6 MONTHS

1565

DEVICES ONBOARDED ONTO SECURITY SYSTEM



CURRENT THREAT TAXONOMY (LAST 24HRS)



SECURITY ACTIONS (LAST 30 DAYS)

6700

Attacks blocked
via security
policy

98.78%

Protection
against phishing
attacks

500

URL's blocked
across 2
restricted
categories

83.33%

Protection
against
ransomware

71

Messages
reported by
users

1479

Devices
protected/monitored
by security policy

DATA HIGHLIGHTS

IT Services



EMAIL STATISTICS (LAST 90 DAYS)

1,713,445 **138,053** **285,843**

Total Inbound
Emails

Outbound Emails

Inbound Spam-
blocked Emails

1,100,361 **764,547** **40,230**

Emails Processed

Inbound Emails
Delivered

Inbound
Phishing-blocked
Emails

613,084 **4,619** **4,791**

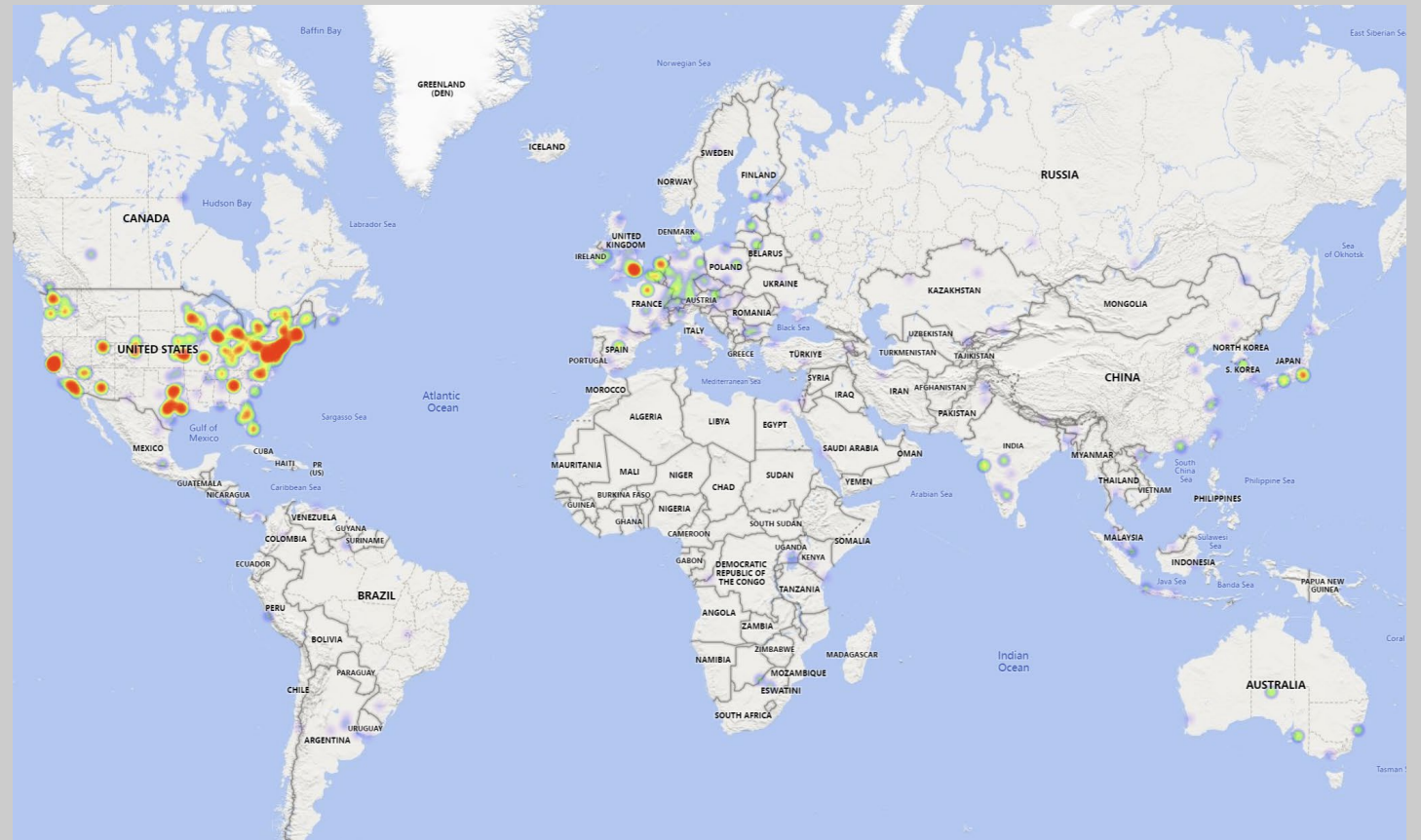
Emails Edge-blocked

Outbound Emails
Blocked

Inbound Detonation-
blocked Emails



PHISHING / MALWARE CAMPAIGN ORIGINS (LAST 30 DAYS) 121 PHISHING / 907 MALWARE



Key Highlights (different than outcomes – show size and scope)

- 99.99% Combined uptime across all critical network links and connections in the past 365 days
- Based on ServiceDesk surveys sent after every incident resolution, 97.2% of customers are happy with services provided. 1.4% are neutral, and 1.4% are unhappy
- Implementation of near-paperless HR with Applicant tracking/Employee Records, and new Perform evaluation system
- Talent retention via mild reorganization of the IT Division
 - Opportunities were made this year by creating leadership positions in ServiceDesk and Operations Services for employees to aspire to and provide career pathways
 - Focus on recruiting and promoting from within whenever feasible
- Provide the ability to learn, upskill, and cross-train across disciplines to “un-silo” roles and make more adaptable and dynamic teams
- Leverage E-Rate to right-size our infrastructure, doubling our access to bandwidth, and providing critical infrastructure to campuses.
 - Enable students and educators to access the latest technology available

Key Highlights (different than outcomes – show size and scope)

- Further reduction of single points of failure. The culmination of which will be a real-time “instant-on” failover to secondary site/s and to the cloud; of all critical systems and applications. (We are 75% of the way there)
- Implementation of process improvement projects
 - Several divisions on board already
 - Will analyze/improve internal IT processes as time permits
- Implementation of dedicated IT Trainer with curriculum development experience
 - Resumption of in-person new hire orientations
 - Weekly lunch and learn sessions
 - Custom content and app-specific training for divisions

Trends

- Product Management vs Project Management
- Establishing value streams to better support divisions
- RFID-based asset tracking and management
- AI and Machine/Deep Learning-based tools and applications
- Accountable Autonomy
- Adaptive talent strategy recruits for:
 - Anticipated need
 - Professional/Personal growth
 - Overlapping skills
 - Embedded learning in backlogs
- Longer retention of hardware when possible; longer refresh periods being necessary to offset global supply constraints causing unnecessary backlogs.
 - Plan technology purchases with a 9-12 month anticipated lead time

QUESTIONS

IT Services

SEE THE IMPACT

Questions?