



IT Services

Board Presentation

August 16th, 2023

SEE THE IMPACT



WHO WE ARE

IT Services

About Us:

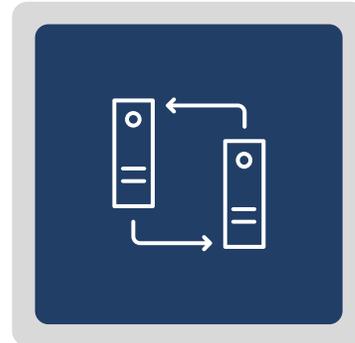


WHO WE ARE

IT Services

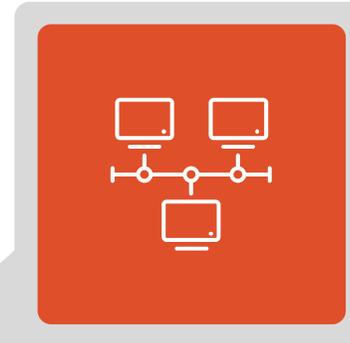
SERVICE DESK

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



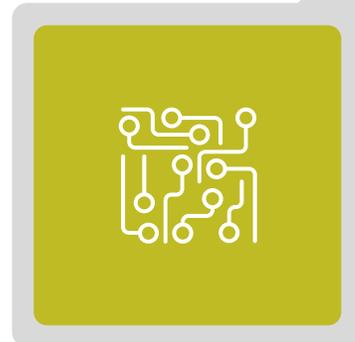
OPERATIONS SERVICES

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



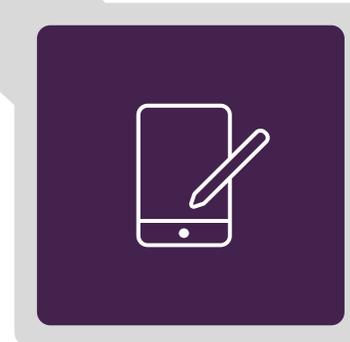
INFORMATION SECURITY

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



APPLICATIONS

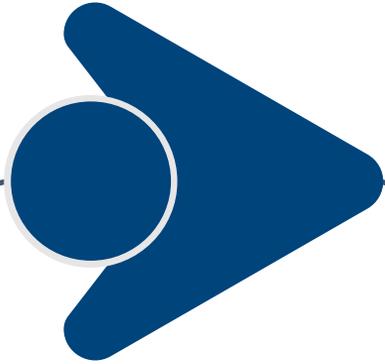
BUILDS, IMPLEMENTS, AND CUSTOMIZES IN-HOUSE AND COMMERCIAL OFF-THE-SHELF (COTS) APPLICATIONS AND WORKFLOWS. OVERSEES PROCESS IMPROVEMENT



IT LEADERSHIP TEAM

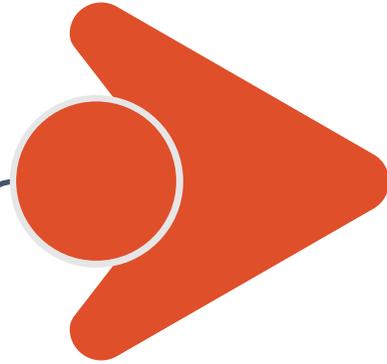
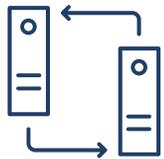
WHO WE ARE

IT Services



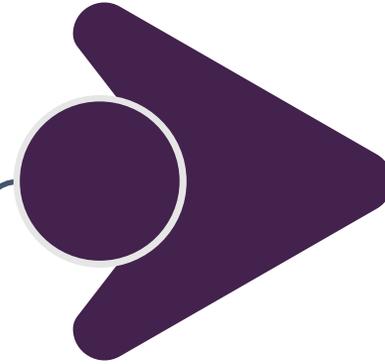
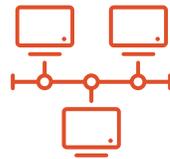
JAIME SALINAS

SERVICE DESK



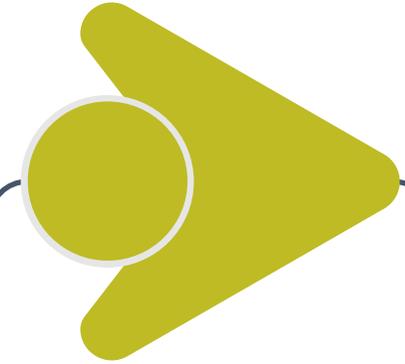
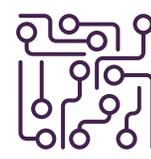
GEORGE HEMBREE

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

- FIRST-CONTACT IT SUPPORT**
LEVEL I, II, & III CALLCENTER, PHONE, DESKSIDE, AND REMOTE TECHNICAL SUPPORT
- EVENT SUPPORT**
PROVIDE AUDIO/VISUAL AND EQUIPMENT SUPPORT FOR EVENTS, MEETINGS, AND CONFERENCES
- TECHNOLOGY TRAINING**
DEDICATED TECHNOLOGY CURRICULUM TRAINER PROVIDING APPLICATION, COMPUTER, AND PROCESS TRAINING TO EMPLOYEES
- TECHNOLOGY QUOTE SERVICE**
PROVIDE HCDE EMPLOYEES THE ABILITY TO MAKE PURCHASING DECISIONS VIA VENDOR QUOTE SERVICE



ENDPOINT MANAGEMENT

SUPPORT, PROVISION, DEPLOY, AND REMEDIATE ENDPOINT COMPUTERS AND DEVICES

FACILITY MOVE SUPPORT

FACILITATE THE MOVEMENT OF TECHNOLOGY ASSETS DURING PHYSICAL MOVES

SERVICES PROVIDED

OPERATIONS SERVICES

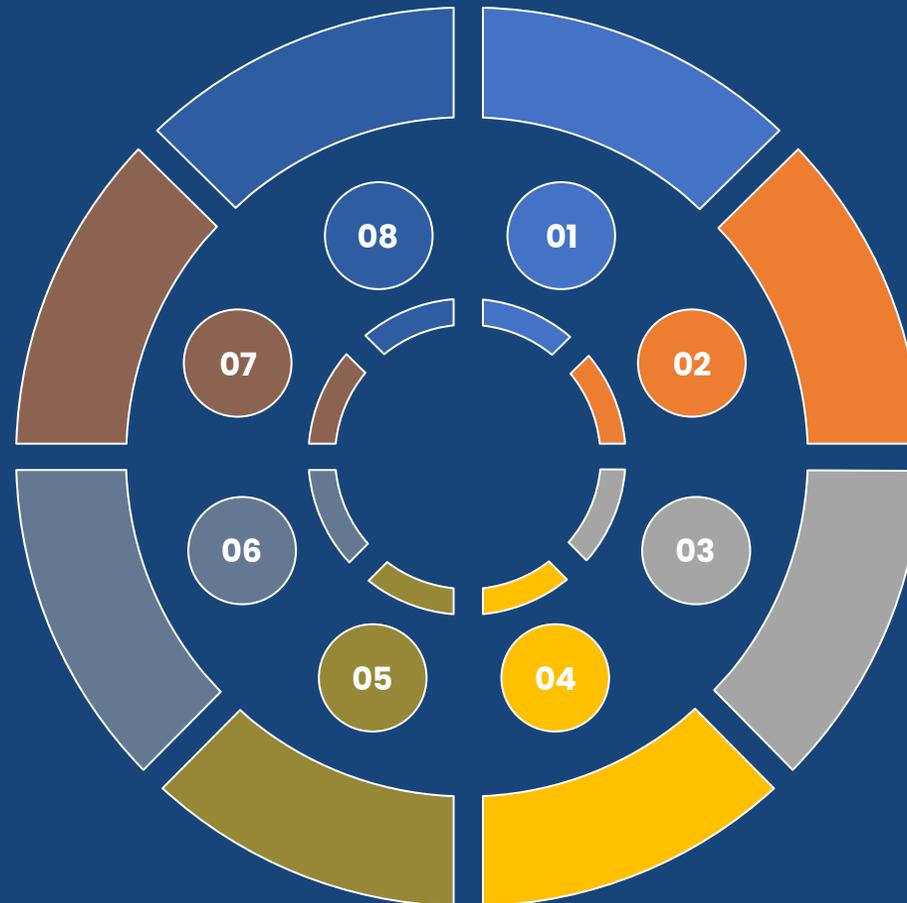
IT Services

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

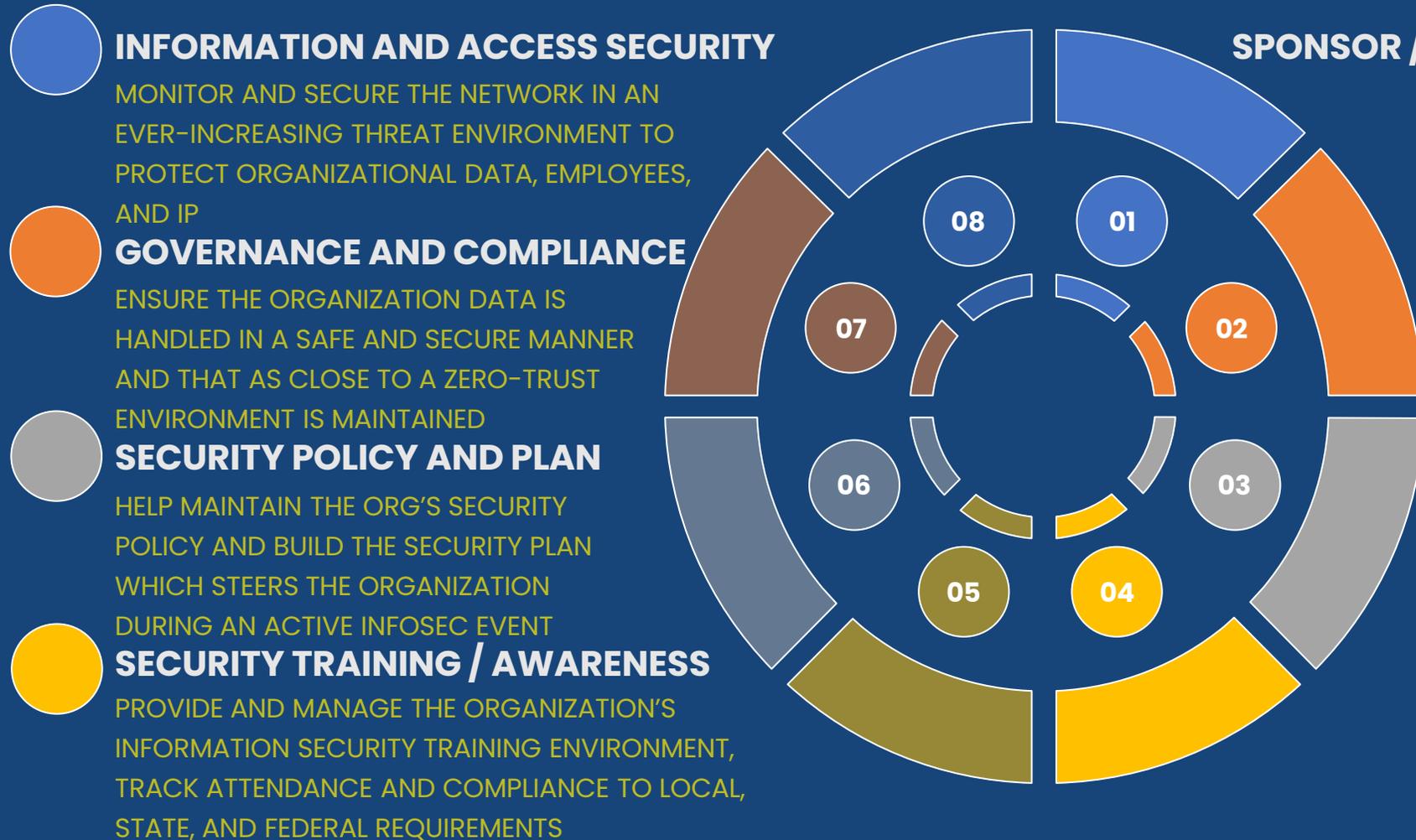
COMPUTE
MAINTAIN AND SUPPORT OVER 250 ON-PREMISES AND CLOUD-BASED SERVERS AND WORKLOADS

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



SPONSOR /HOST FEDERAL AGENCY EVENTS

ORGANIZE AND SPONSOR THE FBI'S INFRAGARD PROGRAM CHAPTER MEETINGS AND GATHER INDUSTRY EXPERTISE

THREAT MITIGATION

PRIMARY POINT OF CONTACT IN THE EVENT OF AN ACTIVE CYBER SECURITY EVENT

INTRUSION PREVENTION

SAFEGUARD THE ORGANIZATION BY PROVIDING EXPERTISE IN CURRENT SECURITY TRENDS AND MAINTAINING VARIOUS FIREWALL SYSTEMS

DATA PROTECTION

ENSURE THAT ORGANIZATION DATA IS PROTECTED FROM EXFILTRATION BY INTERNAL THREATS AND EXTERNAL SOCIAL ENGINEERING

SERVICES PROVIDED

APPLICATIONS

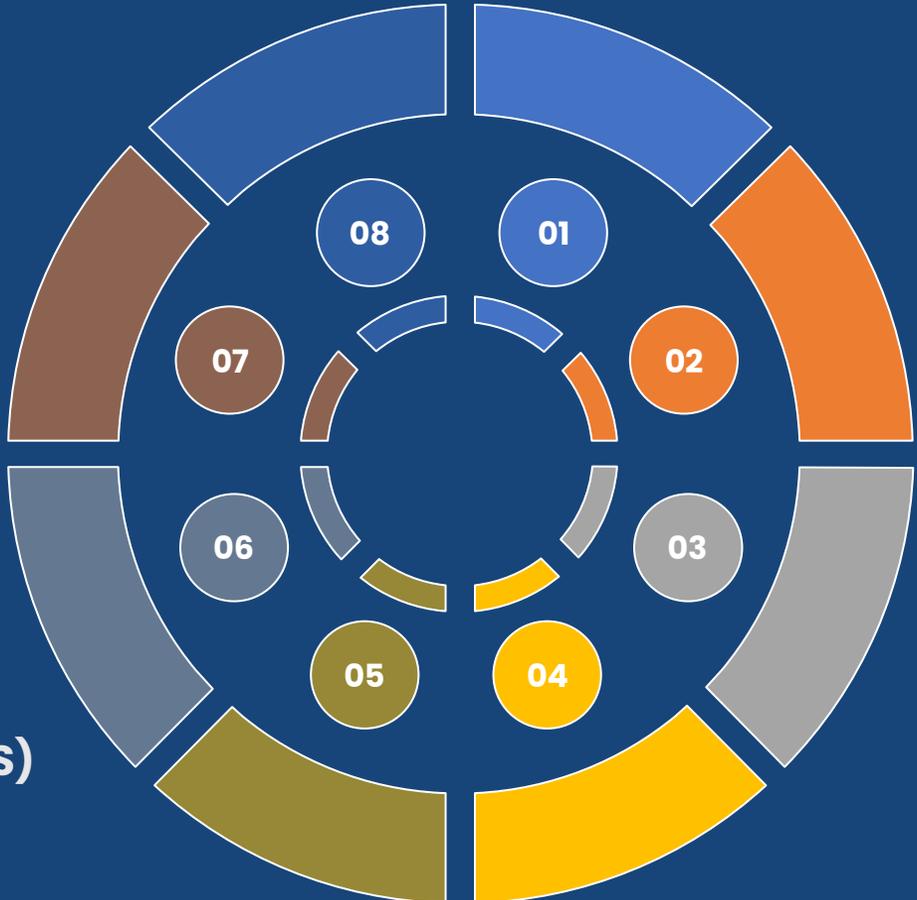
IT Services

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

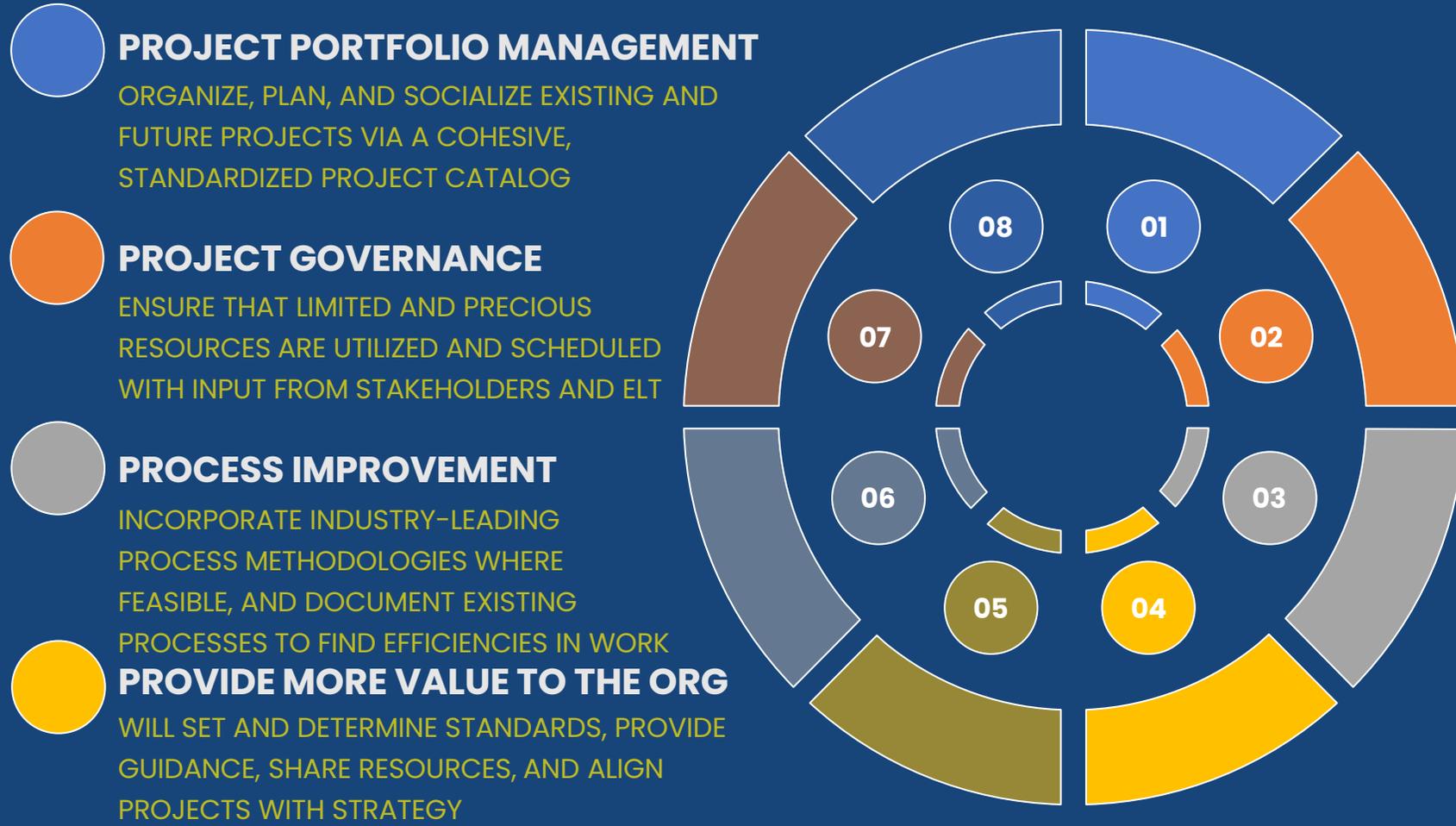
DATABASE MANAGEMENT
MAINTAIN AND SAFEGUARD THE ORGANIZATION'S VARIOUS DATASETS, DATABASES, AND DATA LAKES

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



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

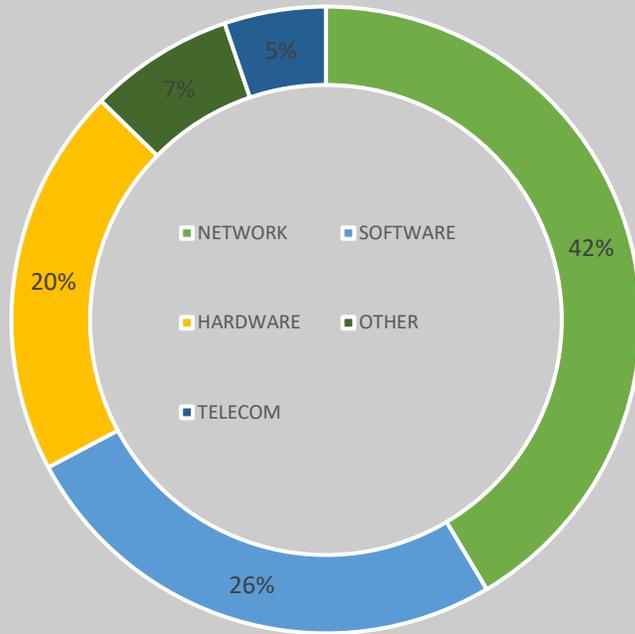
97.2%



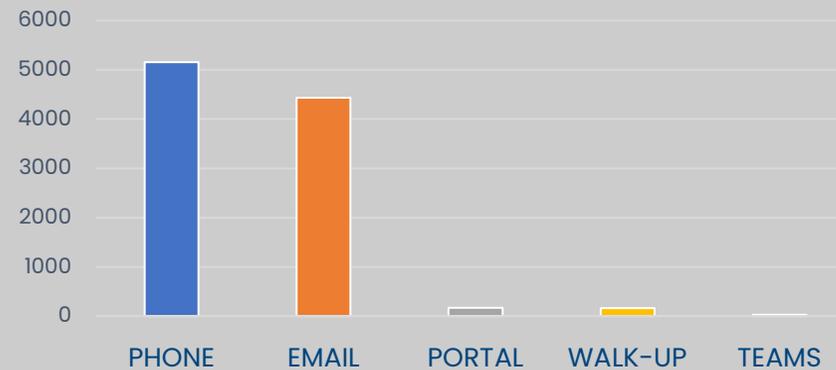
FIRST CONTACT RESOLUTION RATE

92.83%

TICKETS BY CATEGORY



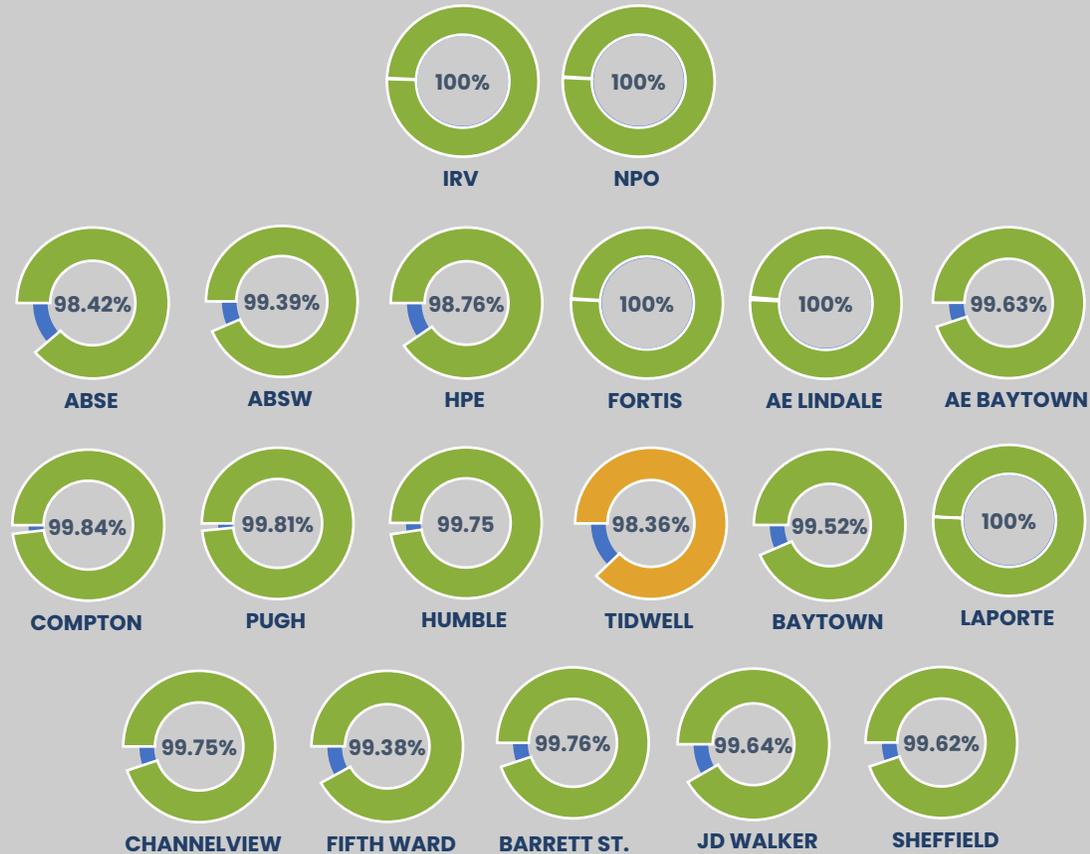
TICKETS RECEIVED BY SOURCE



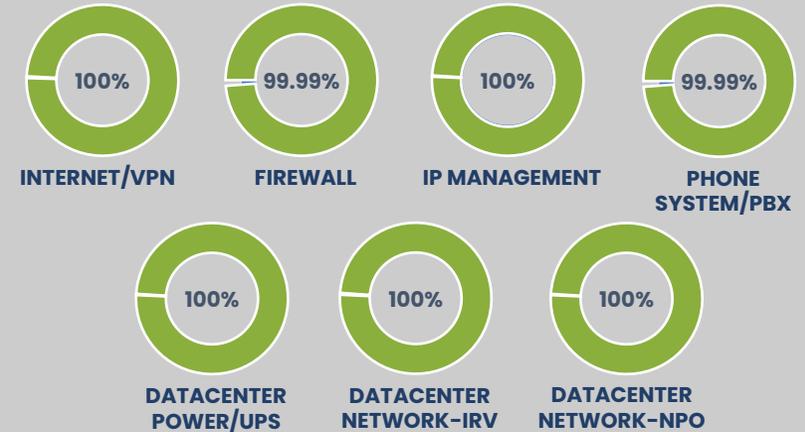
DATA HIGHLIGHTS

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

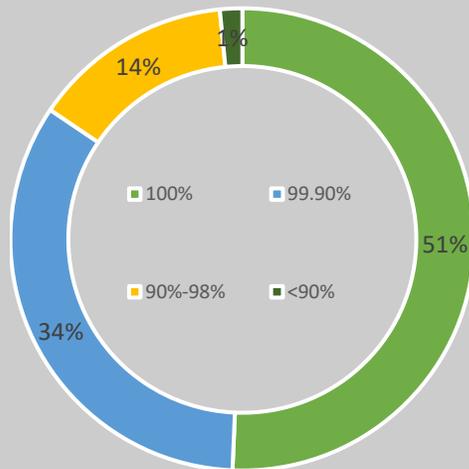
**AVAILABILITY ASSUMPTIONS:
ASSUME 24X7X365 REQUIREMENT
AVAILABILITY GOAL:**

99.99% =
DAILY: 8.6S
WEEKLY: 1M .48S
QUARTERLY: 13M 2.4S
YEARLY: 52M 9.8S

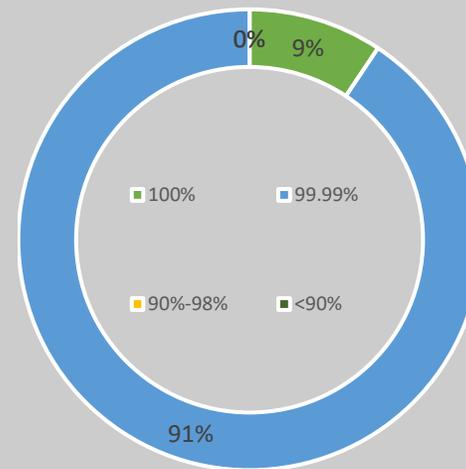
DATA HIGHLIGHTS

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

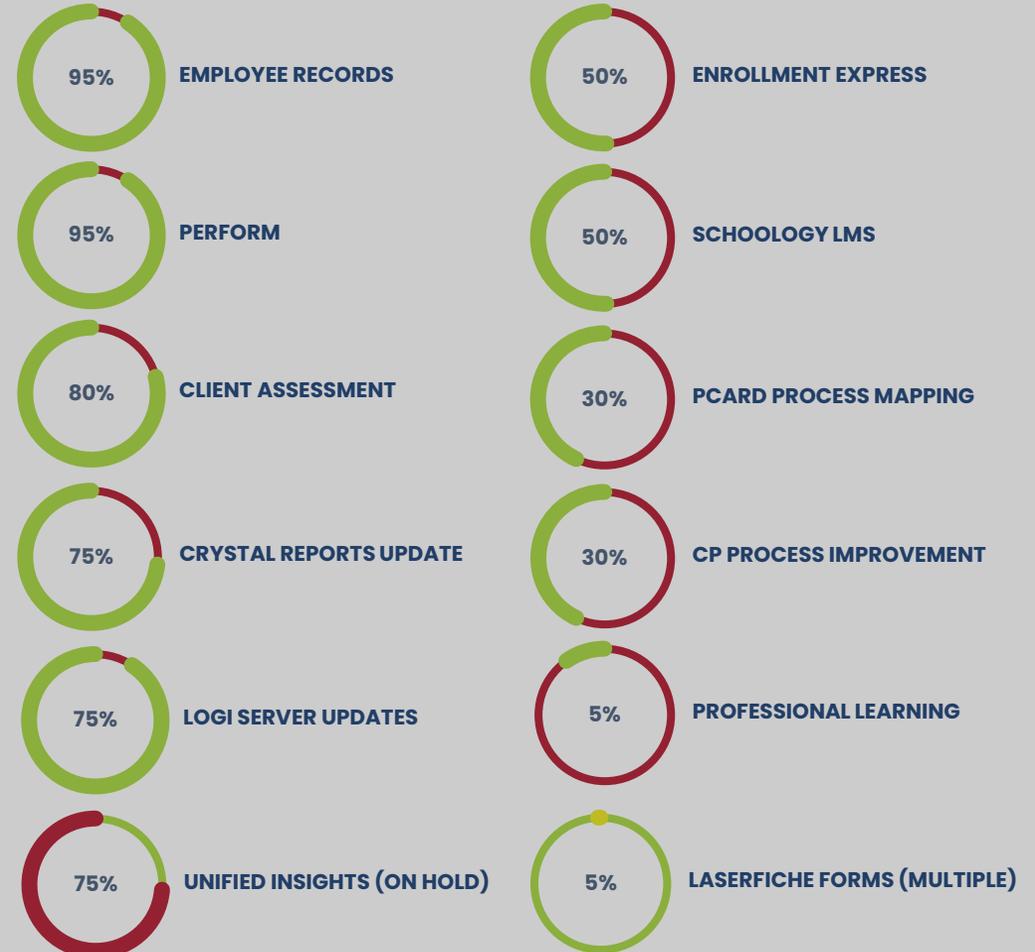
13

2022-24
Internal IT Projects
Completed

18

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

CURRENTLY ACTIVE PROJECTS



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



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

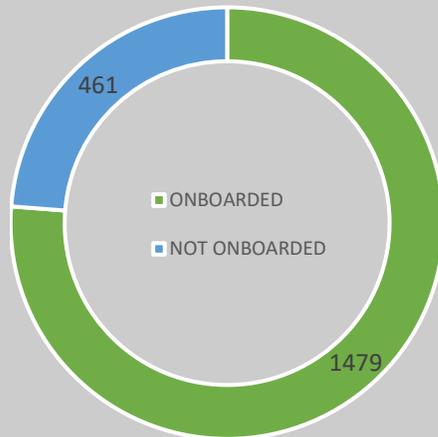
71

Messages reported by users

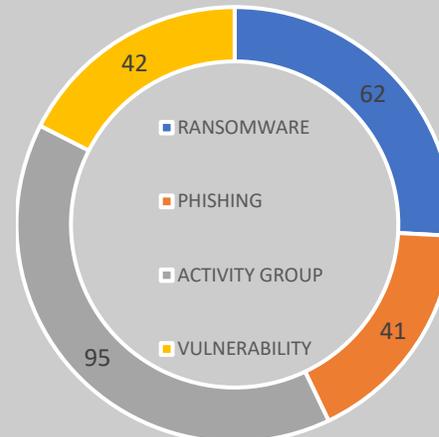
1479

Devices protected/monitored by security policy

DEVICES ONBOARDED ONTO SECURITY SYSTEM



CURRENT THREAT TAXONOMY (LAST 24HRS)



DATA HIGHLIGHTS

IT Services



EMAIL STATISTICS (LAST 90 DAYS)

1,713,445

Total Inbound Emails

138,053

Outbound Emails

285,843

Inbound Spam-blocked Emails

1,100,361

Emails Processed

764,547

Inbound Emails Delivered

40,230

Inbound Phishing-blocked Emails

613,084

Emails Edge-blocked

4,619

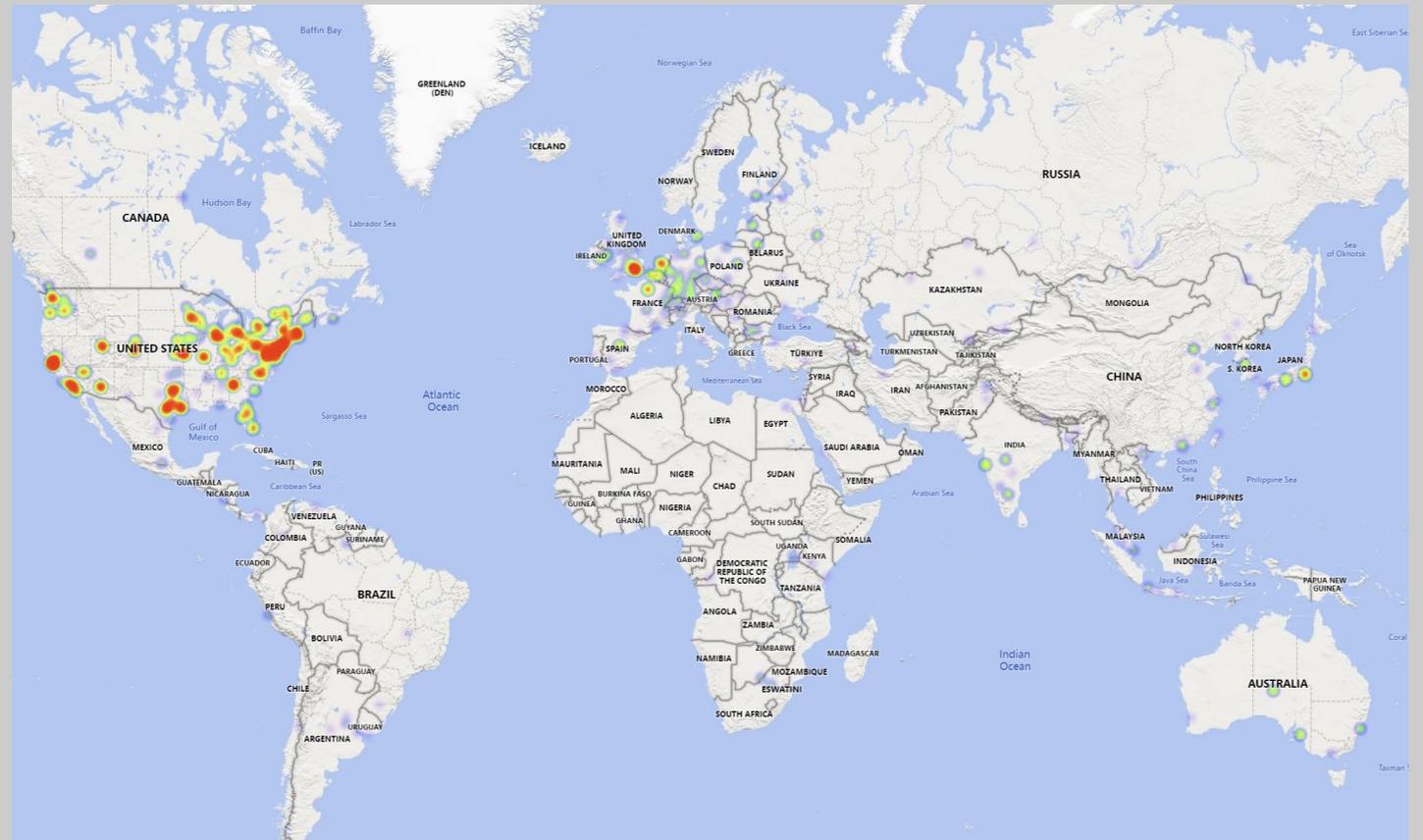
Outbound Emails Blocked

4,791

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?