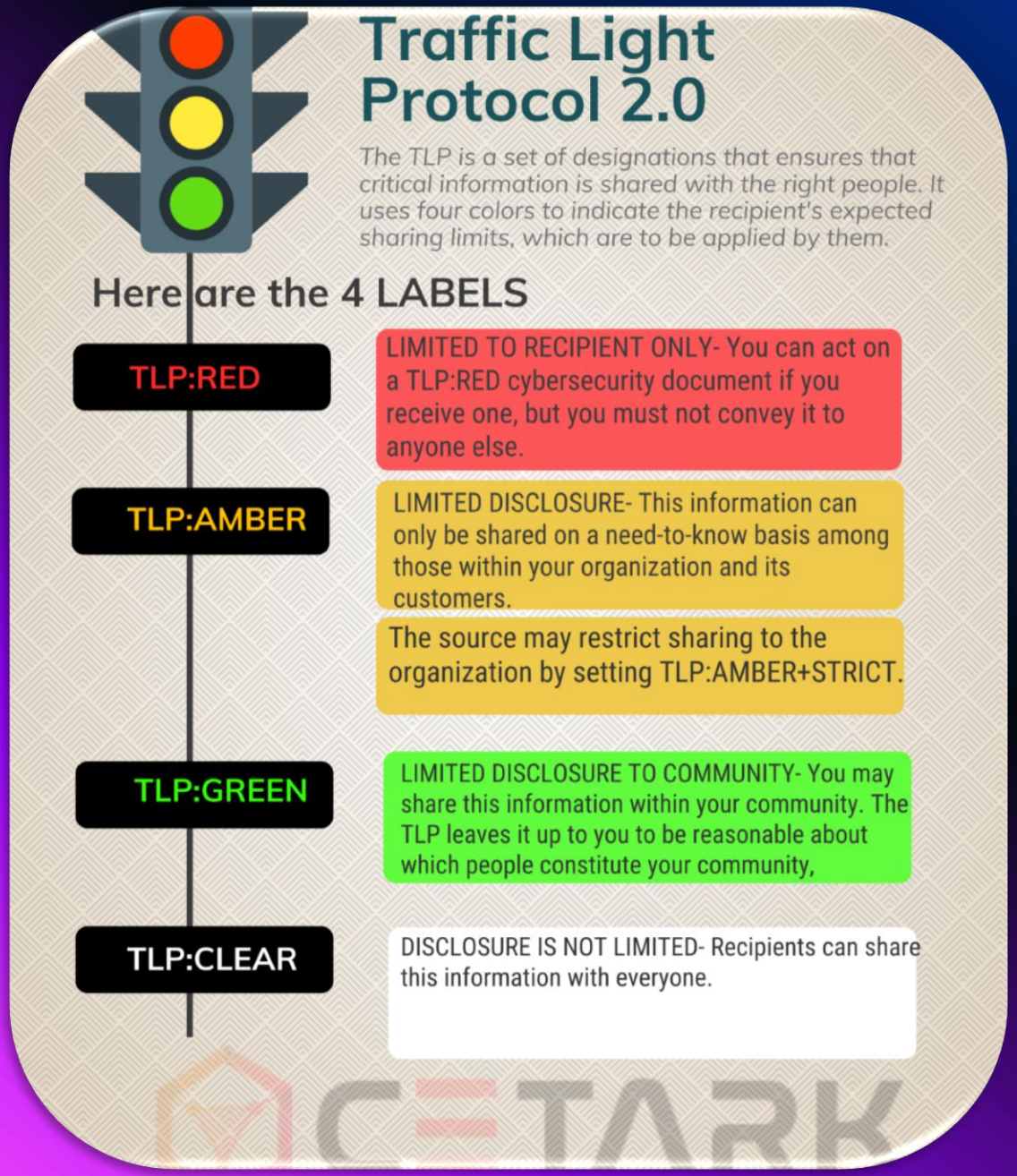
CITY OF HARRISONBURG

CYBERSECURITY PROGRAM



THIS PRESENTATION IS TLP: WHITE

AGENDA

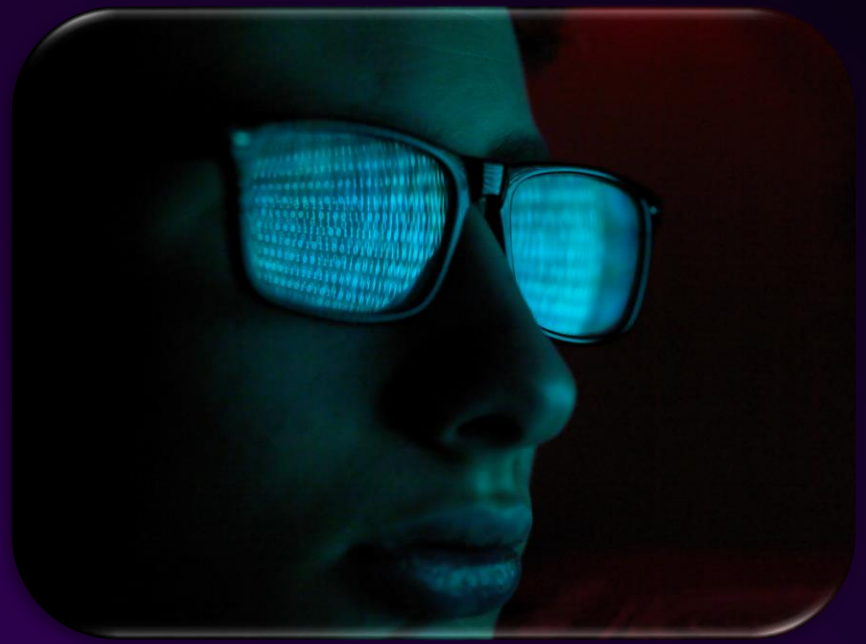
Cybersecurity Overview

Program Accomplishments

Program Goals

Q&A

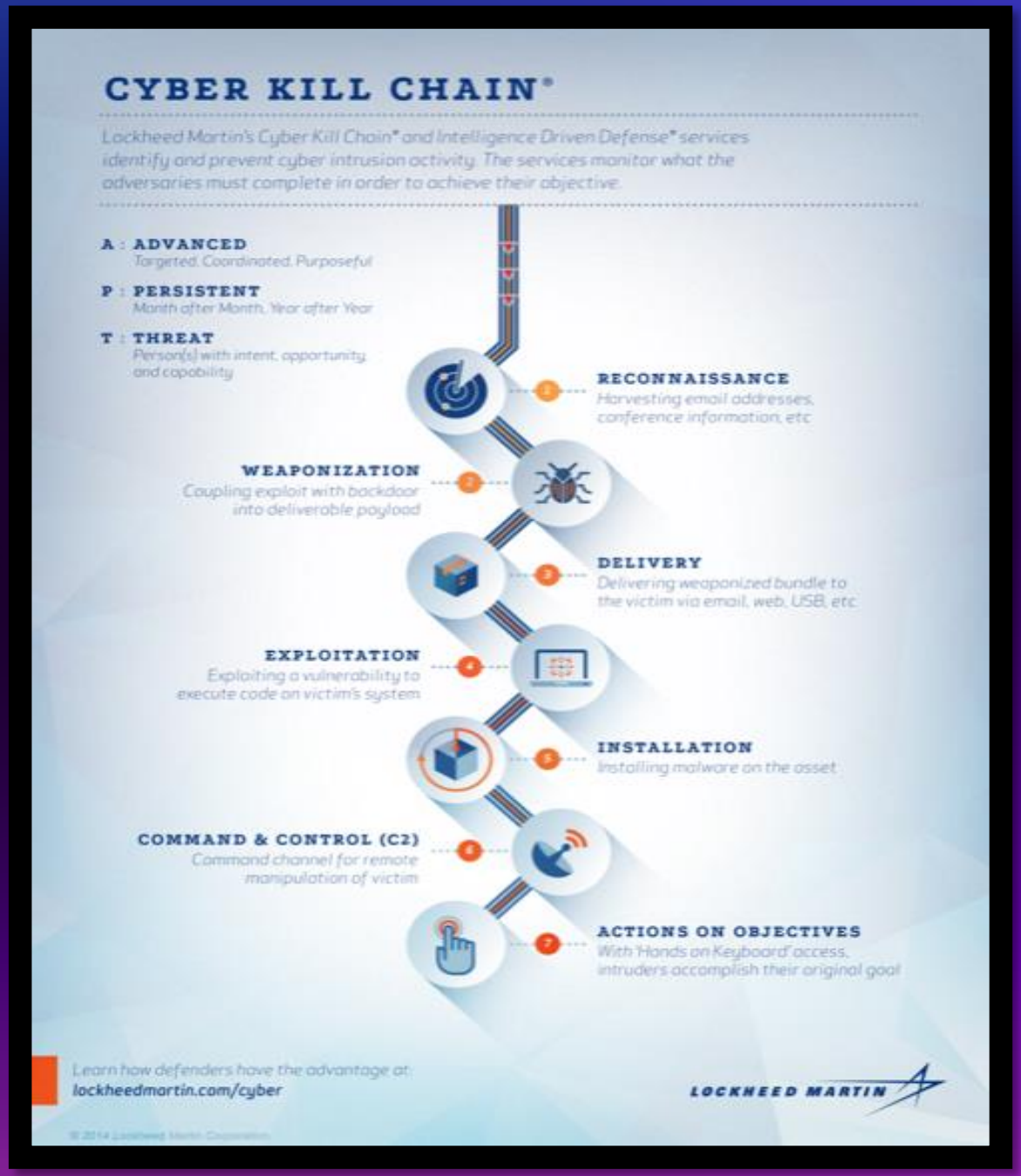
THE REAL QUESTION: WHEN NOT IF



- Increasing number of local incidents
- Constant recon
- Daily phishing attempts
- Rise in ransomware attacks

CYBERSECURITY TERMS

- THREAT
- VULNERABILITY
- EXPLOIT
- RISK

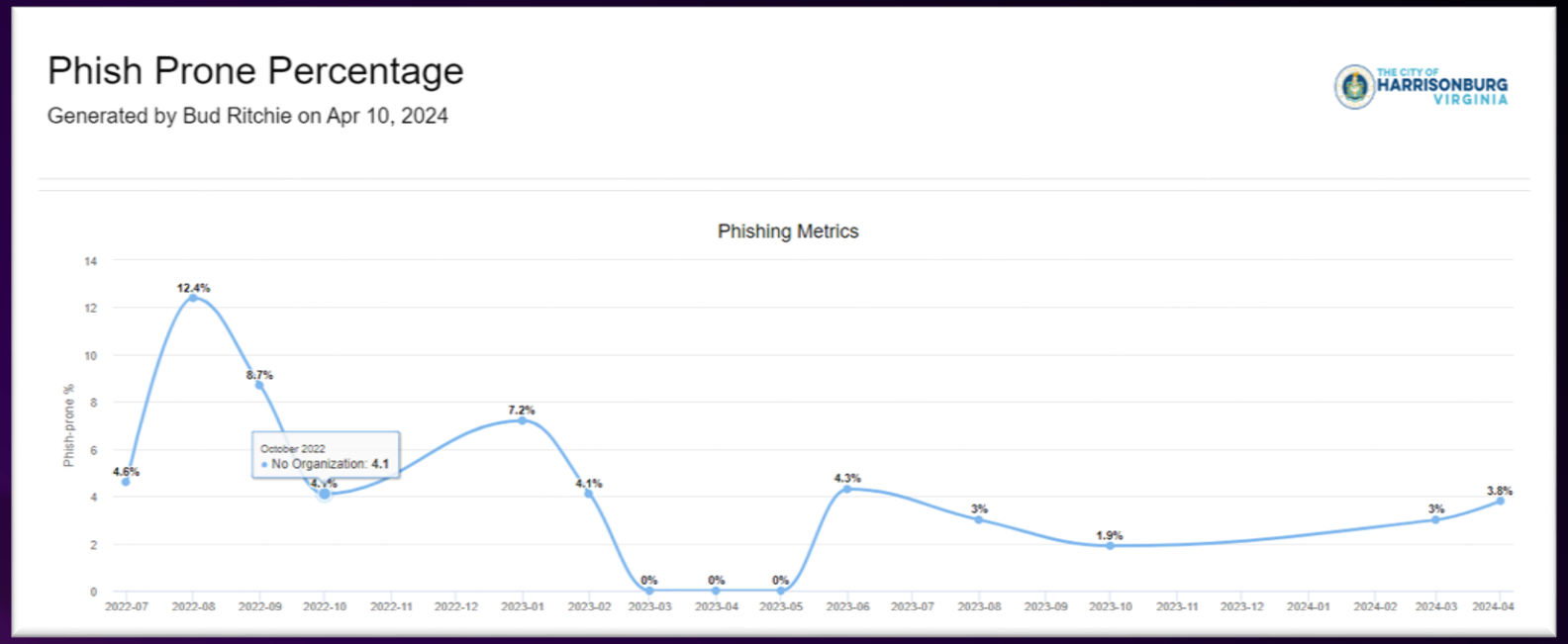


CYBER THREAT INTELLIGENCE

- MS-ISAC
- Regional Local Government Info Share
- Virginia Fusion Center (VSP)
- Verizon Data Breach Investigative Report (DBIR)
  - 74% of breaches involve a human factor
  - Compromised Credentials

CYBER PROGRAM ACCOMPLISHMENTS

HUMAN RISK MANAGEMENT PROGRAM



- In person training sessions
- Improved security culture
- Increase in phish reporting
- Decrease in phish prone percentage (12.3% to 3.8%)

INTERNAL PENETRATION TEST

- Conducted over ten days June 2023
- Biggest areas of improvement
  - Password Policy
  - Vulnerability Management Program

CYBER ASSET ATTACK SURFACE MANAGEMENT PROGRAM

- Identify and classify cyber assets
- Identify vulnerabilities
- Remediate vulnerabilities
- Process starts at acquisition and ends with disposal

POLICY UPDATES

- Acceptable Use
- Bring Your Own Device
- Password
- Incident Response Plan

SECURITY TOOLS

- Increased Network Visibility
- Vulnerability Scanner
- DARKTRACE

ADDITIONAL ACHIEVEMENTS

- Staff tabletop scenarios
- Modernizing of infrastructure
- Payment Card Industry Data Security Standard (PCI DSS) Compliant

GOALS

1. Consistent schedule for IT/Cybersecurity policy review
2. Cross train IT staff
3. Improvements to ICS/OT security
4. 24/7 Security Monitoring
5. Full alignment with NIST/CISA Cybersecurity Program Goals/Framework

Long Term Goals

- Integrate Cyber into Business Continuity Plans
- Increase network visibility
- 3rd party vendor cybersecurity verification
- Passwordless Access

TAKEAWAYS

- Increasing cyber resiliency
- Achievable goals
- Willing and receptive staff
- Team dedicated to keeping Citizen data safe and secure

THANK YOU

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