NHS England

Cyber Resilience in Health and Care

Resilience & Cyber4Good

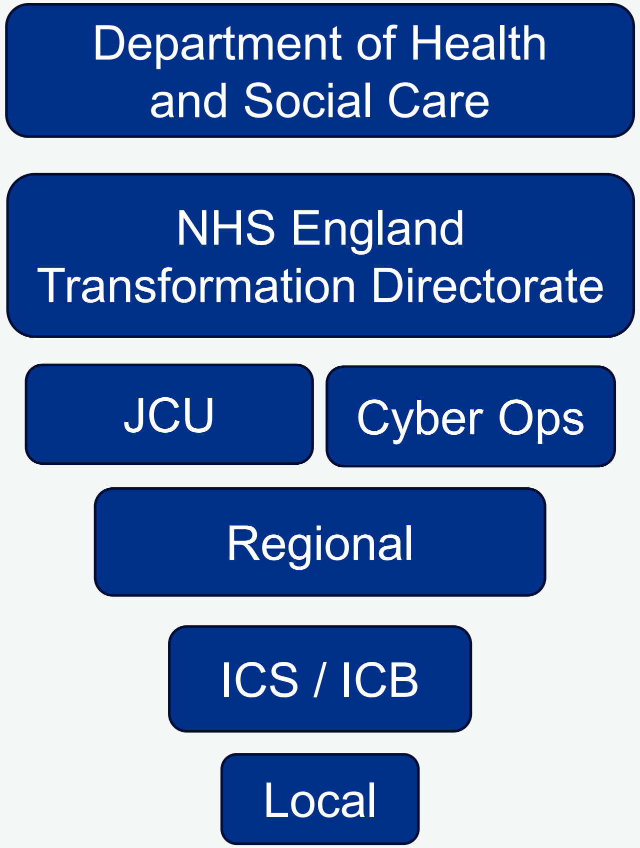
UK Authority, September 2024

Presented by:
Paul Barnes

Cyber Security in Health and Care

Context

- A unified approach for a decentralised sector
- National cyber teams
    - Set direction
    - Provide central support
- Strategy, policy and standards
- Technical innovation, development and deployment
- Manage systemic cyber risk
- Regional teams
- ICS responsible for cyber resilience across their area
- Health and social care organisations



Department of Health and Social Care

NHS England Transformation Directorate

JCU

Cyber Ops

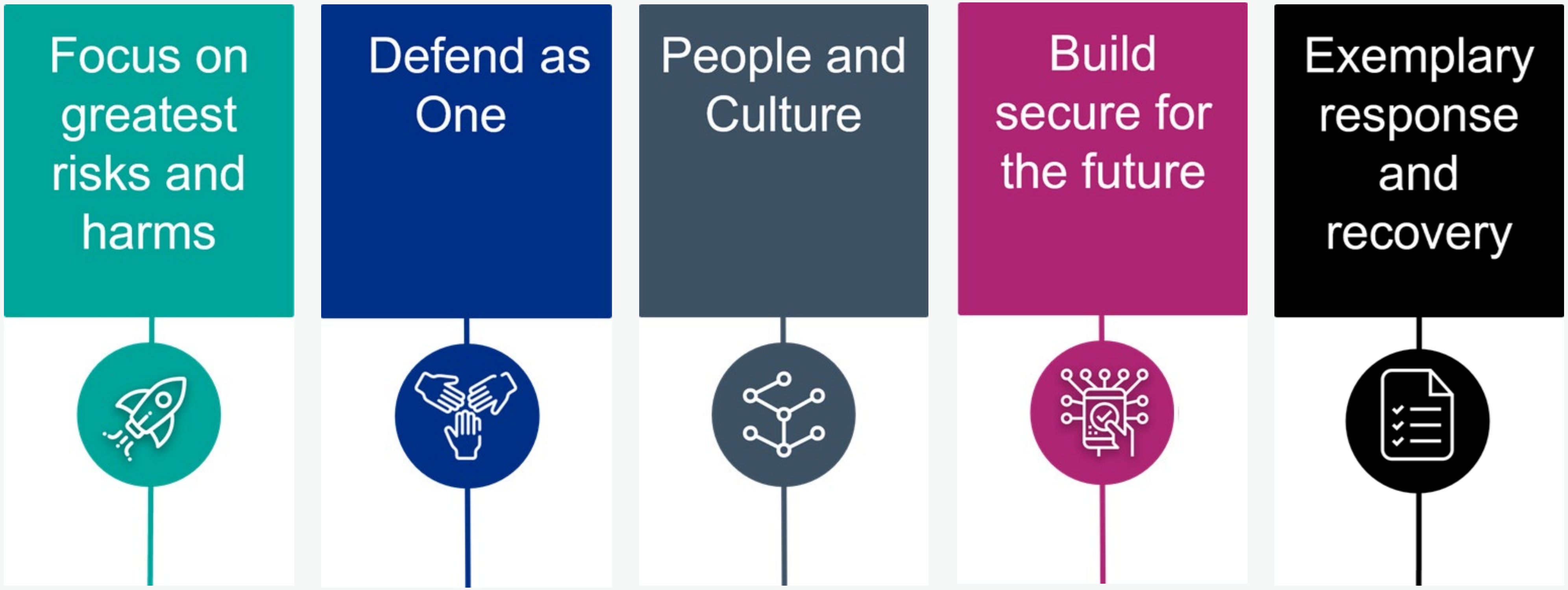
Regional

ICS / ICB

Local

Cyber Security Strategy to 2030

Five complementary pillars directing the system's overall approach to cyber resilience



- Focus on greatest risks and harms
- Defend as One
- People and Culture
- Build secure for the future
- Exemplary response and recovery

Vision: *A health and social care sector that is resilient to cyber-attack, in turn improving the safety of patients and service users*

Cyber Strategy – areas of focus to 2025

Update the Data Security Protection Toolkit to reflect the Cyber Assessment Framework

Provide funding for local Cyber resource with national training support

Publish data landscape review of the status of Cyber in Adult Social Care

Develop a product to map critical suppliers, engaging them through dedicated channels

Enhance CSOC and Develop Framework to support local CSOC Centres

Publish an implementation plan for the next 2–3 years

Area of focus - approach to assurance

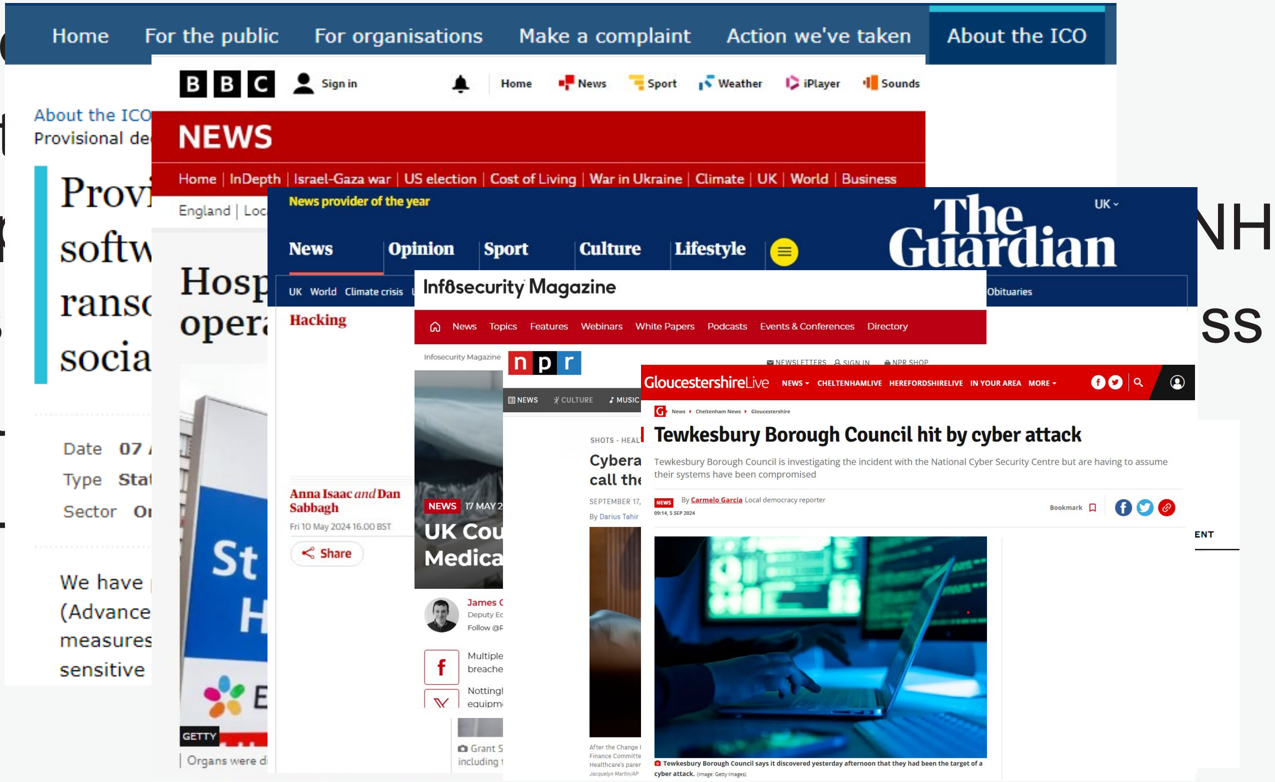
Update the Data Security Protection Toolkit…

- In place since 2018 and built on previous assurance mechanisms
- Matures and iterates year on year
- Focus on MFA policy for large organisations
  https://digital.nhs.uk/cyber-and-data-security/guidance-and-assurance/multi-factor-authentication-mfa-policy
- Moving away from the 10 National Data Guardian (NDG) standards
  https://www.gov.uk/government/news/ndg-and-nhs-england-issue-joint-statement-about-nhs-data-security-and-protection-toolkit
- Moving to CAF- aligned approach 2024/25 for large organisations
  https://www.dsptoolkit.nhs.uk/News/DSPT-Changes-in-24-25
- Network & Information Systems (NIS) Regulations (Operators of Essential Services)

It Has Been an “Interesting” Year

We’re only as strong as our weakest link

- Information Commissioner’s Office issued provisional £6m fine for Advanced
- Synnovis pathology servi
- Shared Services Connect
- Attack on equipment supp NHS
- Attacks on global organis ss
- Tewkesbury Borough Cou
- Transport for London (TfL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SEPTEMBER 17,

By Darius Tahir

After the Change
Finance Committe
Healthcare's parer
Jacquelyn Martin/AP

Tewkesbury Borough Council hit by cyber attack

Tewkesbury Borough Council is investigating the incident with the National Cyber Security Centre but are having to assume their systems have been compromised

NEWS By Carmelo Garcia Local democracy reporter
09:14, 5 SEP 2024

Tewkesbury Borough Council says it discovered yesterday afternoon that they had been the target of a cyber attack. (Image: Getty Images)

What have we seen…

Phishing	Delivery of malware / credentials for access
High Severity Alerts	Unpatched vulnerabilities being exploited
Weak passwords	Internet-facing / re-use of passwords
Remote access	Abuse of unpatched solutions / RDP
Enable MFA	Internet facing accounts / Admin accounts
Joiners/Movers/Leavers	Closing/removing old accounts / restricting access
Use of national services	CSOC / MDE / licensing / NCSC ACD

What’s next?

Who knows?!

- AI / Machine Learning / Quantum Computing / Post Quantum Cryptography
- New Government
- Spending reviews
- Darzi Report
  https://www.gov.uk/government/publications/independent-investigation-of-the-nhs-in-england
- Cyber Security and Resilience Bill
- Designating data centres as Critical National Infrastructure
  https://www.gov.uk/government/news/data-centres-to-be-given-massive-boost-and-protections-from-cyber-criminals-and-it-blackouts
- Continue the conversation - Cyber Associates Network
  https://digital.nhs.uk/cyber-and-data-security/about-us/cyber-associates-network

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Thank You

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