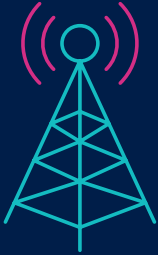
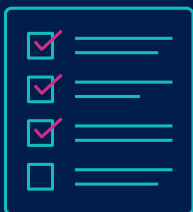


Technology – A year of innovation and capability-building



- Developed and delivered a **tool to discover new mobile network vulnerabilities** and improve security for users
- Jointly **developed National Telecoms Signal Monitoring Service (NTSMS)** to improve understanding of threat and defences

- Supported development of UK's **Electronic Communications (Security Measures) and related draft Code of Practice**
- Welcomed launch of **Product Security and Telecommunications Infrastructure Bill** to strengthen cyber security for consumer devices and accountability of manufacturers



- Launched **Device Security Principles for Manufacturers** to help protect Enterprise Connected Devices from common threats and risks
- Updated all **cloud guidance** to reflect how much these services have changed in the past decade

- Delivered **guidance to help small businesses** better understand technology risks such as 'Bringing Your Own Device' approaches and best practice for backing up data
- Refined **Cyber Aware advice** for citizens and microbusinesses focussing on email protection by using three random word passwords and two-step verification

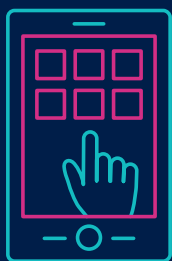
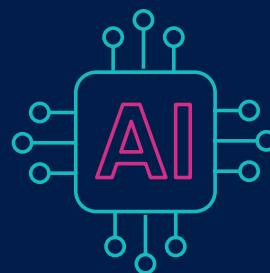


As well as providing insight to support a values-driven approach to the development of future technologies, the NCSC continued to innovate and build capability to help keep the UK the safest place to live and work online.



- Published research papers and blogs including on zero trust for customers looking to begin a migration journey to zero trust architecture

- Supported **development of HMG's artificial intelligence strategy**; and continued to research opportunities, threats and ethics around AI
- Issued guidance in the form of **principles for artificial intelligence** (AI) and machine learning (ML) systems



- **Notified Google of fifteen suspicious applications**, that could have undermined users' security, resulting in the majority being taken down
- Worked with DCMS to provide technical input on the **Code of Practice for App Privacy and Security**, which will be a world-first when published.

- Guidance to help companies implement **vulnerability disclosure processes**; also published by the international standardisation body, ETSI
- Held two conferences (Safety, Security and Verification in Critical Systems and VICECon) focused on **bringing experts together** on topics around vulnerability research and knowledge sharing

