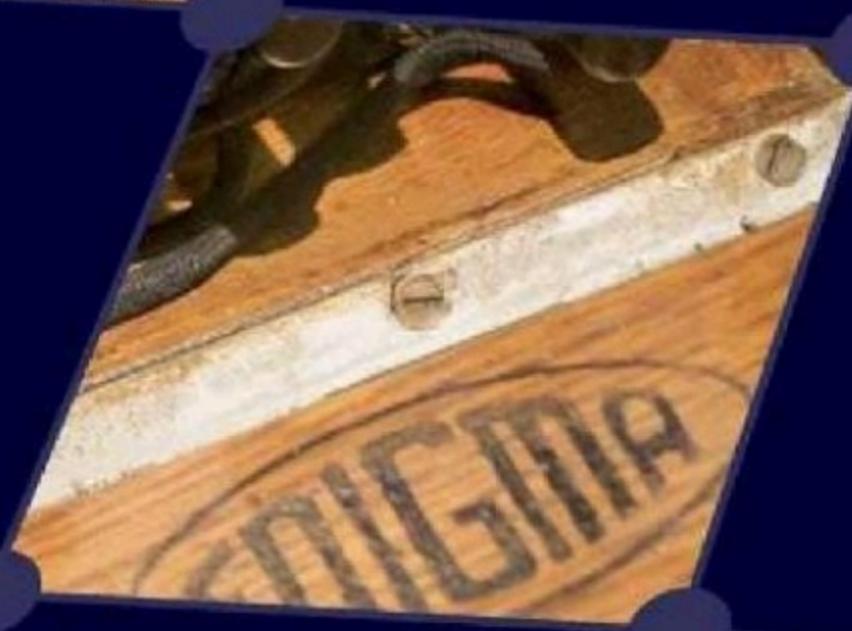




Think openly, build securely

Cryptography evolves... but we're now entering a Quantum Era



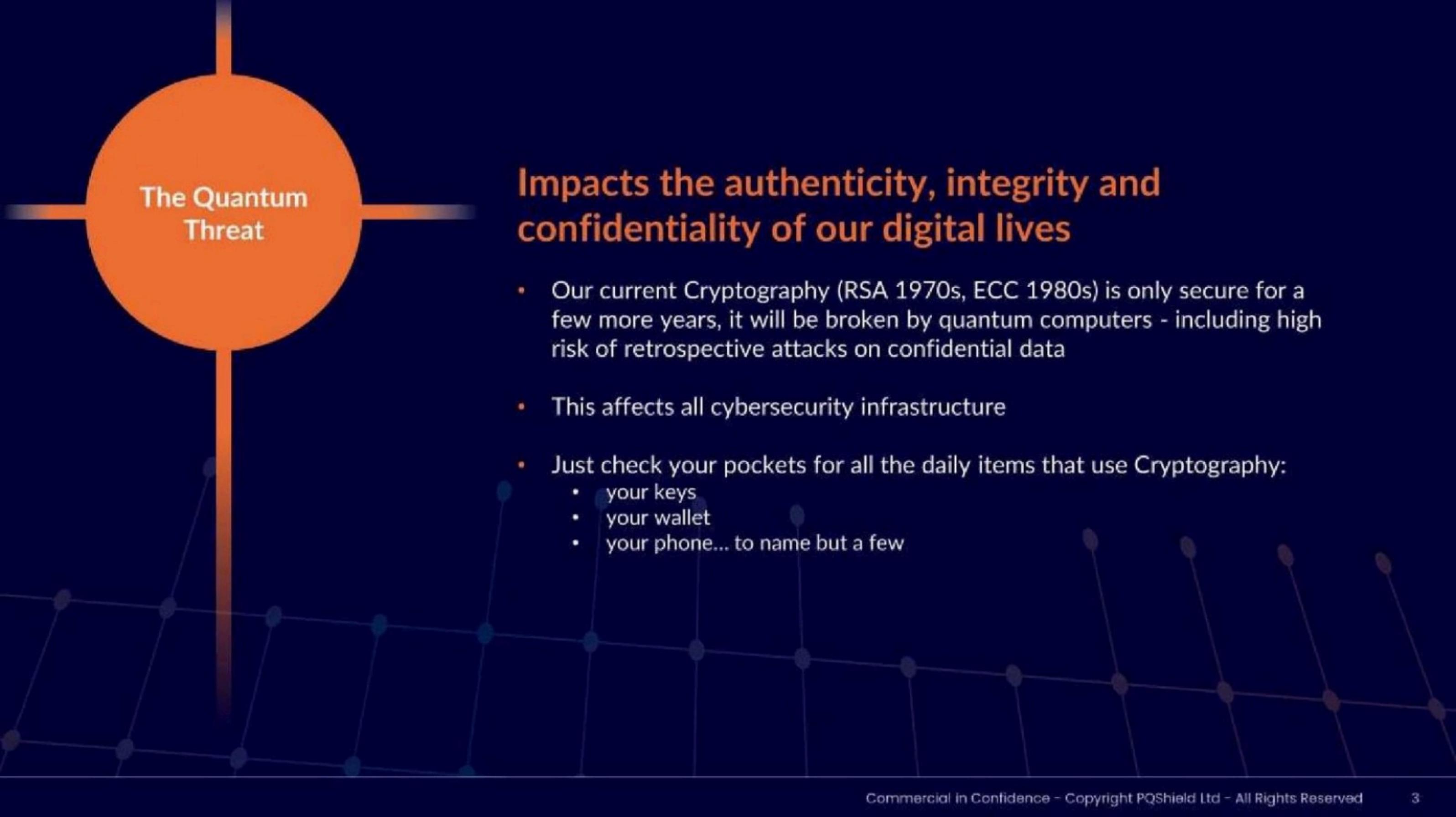


New International Standards

Cryptography is a highly standardised technology

- NIST (US) were tasked with starting the process of standardisation of Post-Quantum Cryptography (PQC) in 2016
- Cryptographers are collaboratively solving this problem.

NIST will announce the new standards around the end of 2021



The Quantum Threat

Impacts the authenticity, integrity and confidentiality of our digital lives

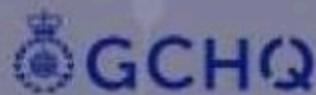
- Our current Cryptography (RSA 1970s, ECC 1980s) is only secure for a few more years, it will be broken by quantum computers - including high risk of retrospective attacks on confidential data
- This affects all cybersecurity infrastructure
- Just check your pockets for all the daily items that use Cryptography:
 - your keys
 - your wallet
 - your phone... to name but a few

The change will
be mandated

Government agencies have asked suppliers to get ready for Post-Quantum Cryptography



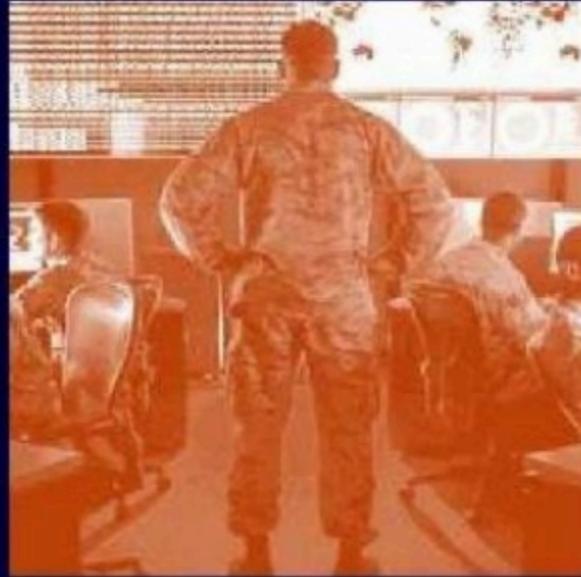
"...There is growing research in the area of quantum computing, and global interest in its pursuit have provoked NSA to ensure the enduring protection of NSS by encouraging the development of post-quantum cryptographic standards and planning for an eventual transition."



"Post-Quantum Cryptography provides the best mitigation for the quantum computing threat. The NCSC recognises the serious threat that quantum computers pose to long-term cryptographic security. QSC using standards-compliant products is the recommended mitigation for the quantum threat, once such products become available."

Suppliers need to comply to continue trading

Multiple Drivers for Stronger Crypto



Cyber warfare is a reality – Nation-State cyber attacks have doubled in the last three years

Source: [HP Research](#)



Covid-19 has rapidly accelerated digital working and simultaneously heightened security risks - Between February and May 2020 more than half a million people globally were affected by breaches in Video Conferencing, leading to **companies like Zoom** having to rapidly fix significant security flaws

Source: [Deloitte](#)

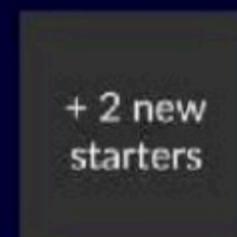


Hardware is evolving too: RISC-V rapidly gaining traction as an open source hardware platform – potential to rival ARM and Intel for IoT and Industrial Applications

Source: [RISC-V](#)

World-Leading
Technical Team

We've built the best team, and growing



+ 2 new
starters

Technical

Our team has so far 13 world class hardware and software cryptography engineers and researchers, with decades of real-world experience, who in turn are attracting more. The team are recruited from the likes of:

arm

THALES

CLOUDFLARE

IBM

Radboud Universiteit



University of
BRISTOL

AIST

Experienced Commercial & Advisory Team

Commercial



Dr Ali El Kaafarani
CEO & Founder



Ben Packman
VP Strategy



Michael Vroobel
VP Operations



Alan Grau
VP Business Dev

Advisory

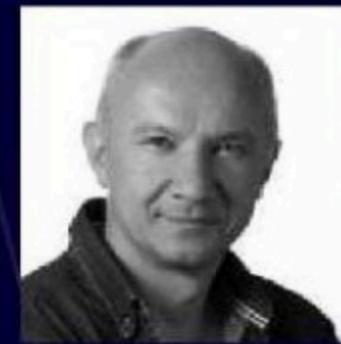
Including some of the
inventors of modern
cryptography



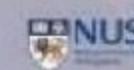
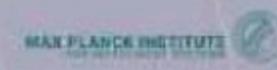
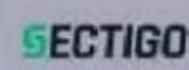
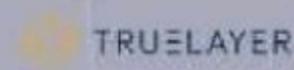
Prof Chris Peikert



Prof Peter Schwabe



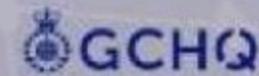
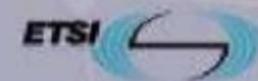
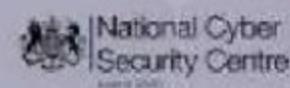
Prof Artur Ekert



Setting the Standards

A strategy not a tactic

- NIST PQC Standards
 - We are setting the cryptography standards for the coming decades with NIST, leading multiple final candidates and advising on all of the others – meaning we have excellent visibility over all emerging technologies
- RISC-V Cryptography standards
 - We led the development of the the RISC-V Scalar Cryptography extensions



International Recognition

PQShield established as a reputable Cryptography authority worldwide

- Awards: World Economic Forum Tech Pioneer 2021
- Media: CNBC, BBC, TechCrunch, Forbes, The Telegraph, Business Insider, etc.
- Technical: Our results have been presented at all major security/cryptography events worldwide, including our work with NIST on the new standards



WORLD
ECONOMIC
FORUM

TC TechCrunch

BUSINESS
INSIDER

TNW

BBC

CogX

CNBC

ac

CYBERTECH

sifted

TechRepublic

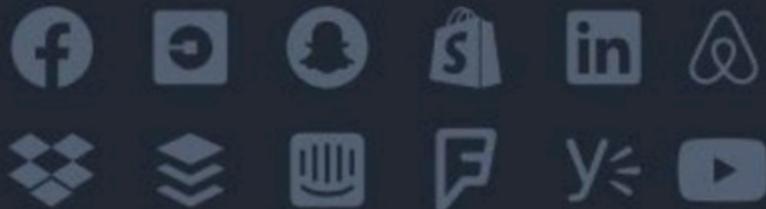
The Banker

The Telegraph

info security

Vast opportunity to build now on the new standards about to be finalised

PQShield has unique hardware and software, using standards we helped define and the best crypto talent ever assembled... **now is the time...**



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