The background features a complex, abstract visualization of quantum phenomena. It consists of numerous overlapping, glowing paths in various colors (red, orange, yellow, green, blue, purple) that swirl and intersect around a central, bright yellow-white point. These paths are contained within several concentric, semi-transparent spheres. The overall effect is one of dynamic energy and interconnectedness, set against a dark, almost black background with faint, wispy patterns of light.

# Quantum in healthcare

*A new realm of possibilities*

# WHAT IS QUANTUM TECHNOLOGY?

## Quantum Computing

Fundamental new type of computer that leverages quantum mechanical phenomena to deliver orders of magnitude performance gains

**Compute Power**

## Quantum Networking & security

Quantum communication infrastructure revolutionizes the way we secure. Additionally, in synergy with the classical internet, it enables applications that would be classically impossible.

**Secure critical Infrastructure**

## Quantum Sensing

Measure the impossible, with reduced cost and size for extremely precise sensors. Quantum Sensors can be a step change for digital twins and industry 4.0 applications.

**Precision Sensing**

# HOW DOES QUANTUM IMPACT HEALTHCARE?

Quantum sensors

- Locating surgical tools
- Locating tumors & checking full removal

Quantum sensors

- Measuring blood flow
- Metal implants / swallowed objects
- MEG / MRI / MMG / MCG
- Next-gen in-vivo diagnostics

Quantum Computing

- Prediction of medical sensitivity at cellular level

Quantum Computing

- Analysis of medical images
- Classification of biochemical characteristics
- flow cytometry and single-cell sequencing

Quantum Computing

- Financial risk analysis
- Fraud detection

Quantum sensors

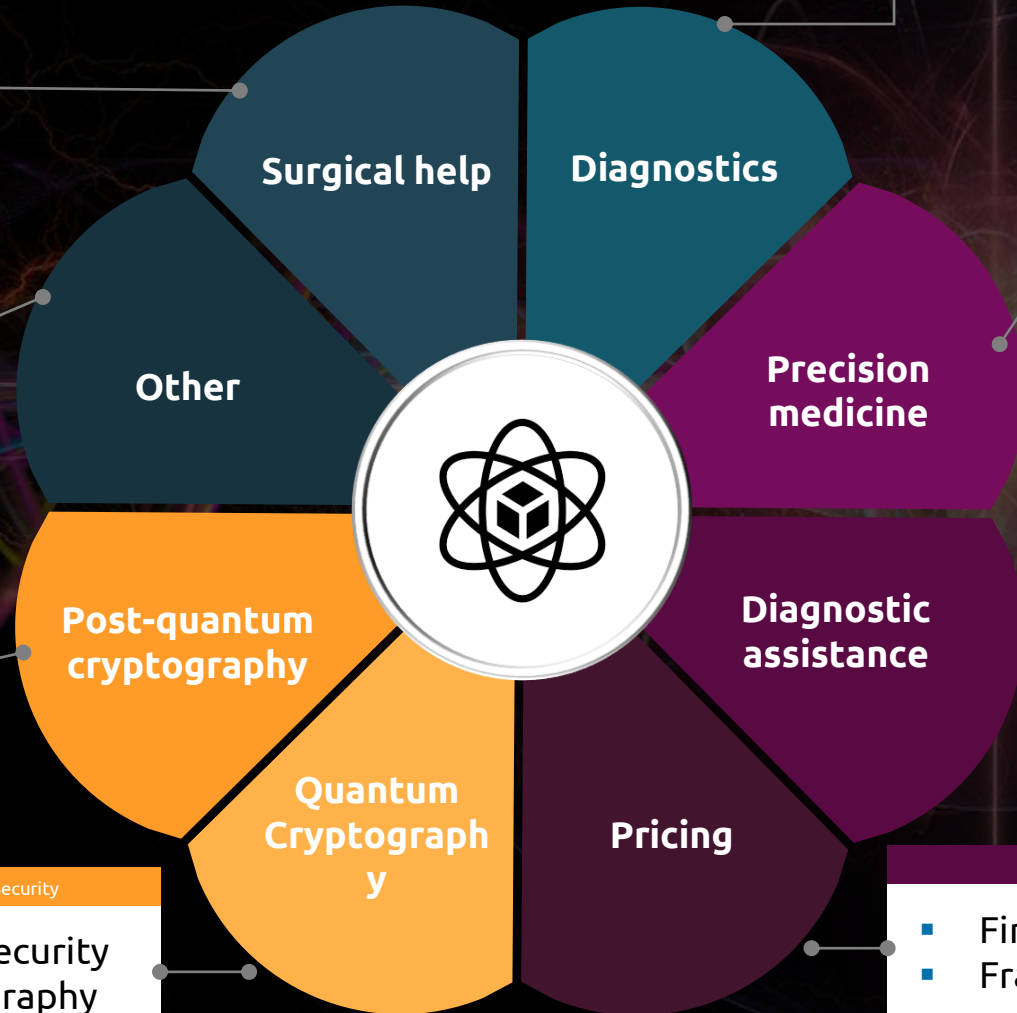
- Drug delivery
- Personal Healthcare

Networking & Security

- Digital signatures
- Identity authentication
- Key transport of symmetric keys
- Authorization

Networking & Security

- Cyber Security
- Cryptography



Surgical help

Diagnostics

Precision medicine

Diagnostic assistance

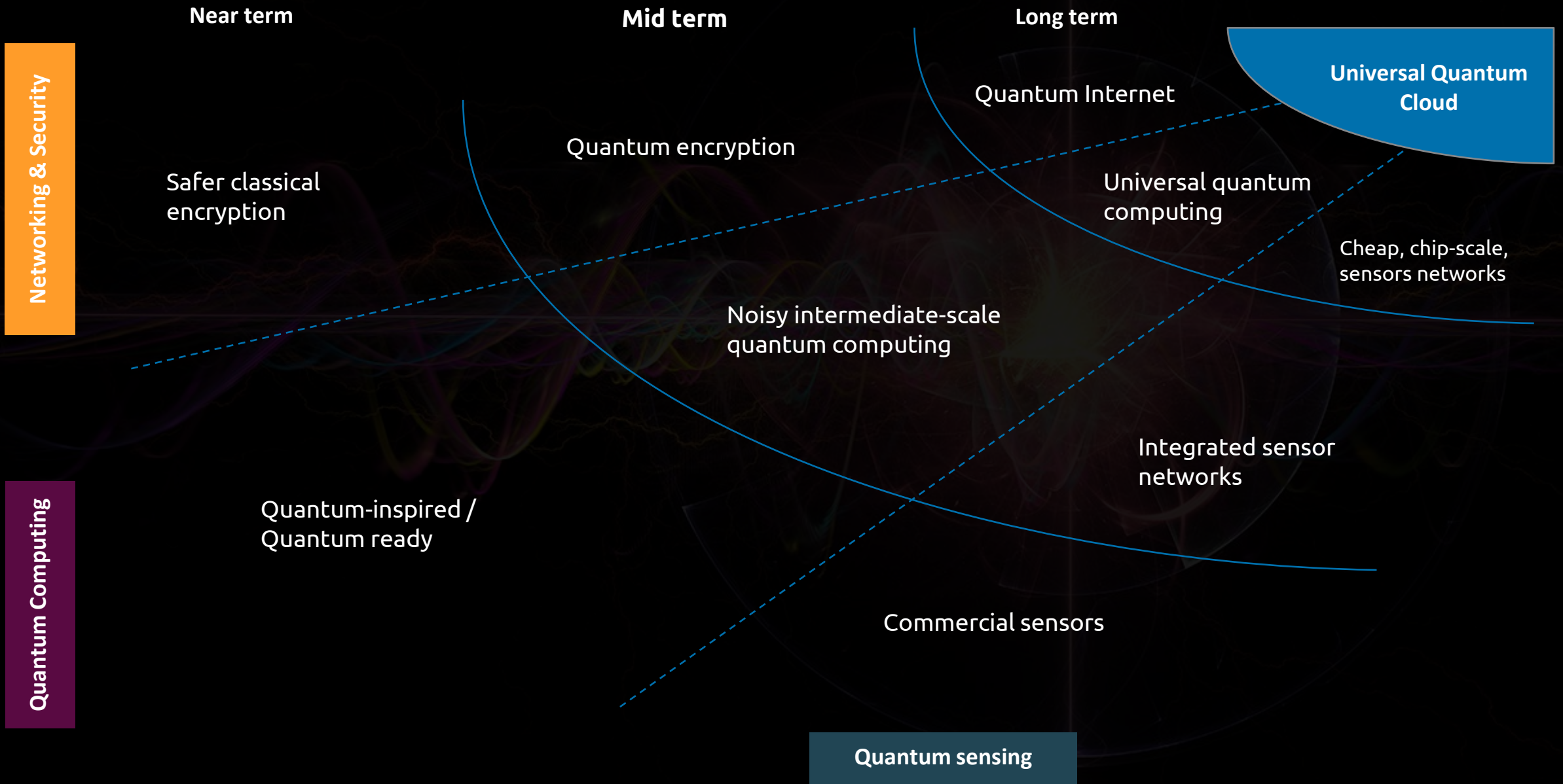
Pricing

Quantum Cryptography

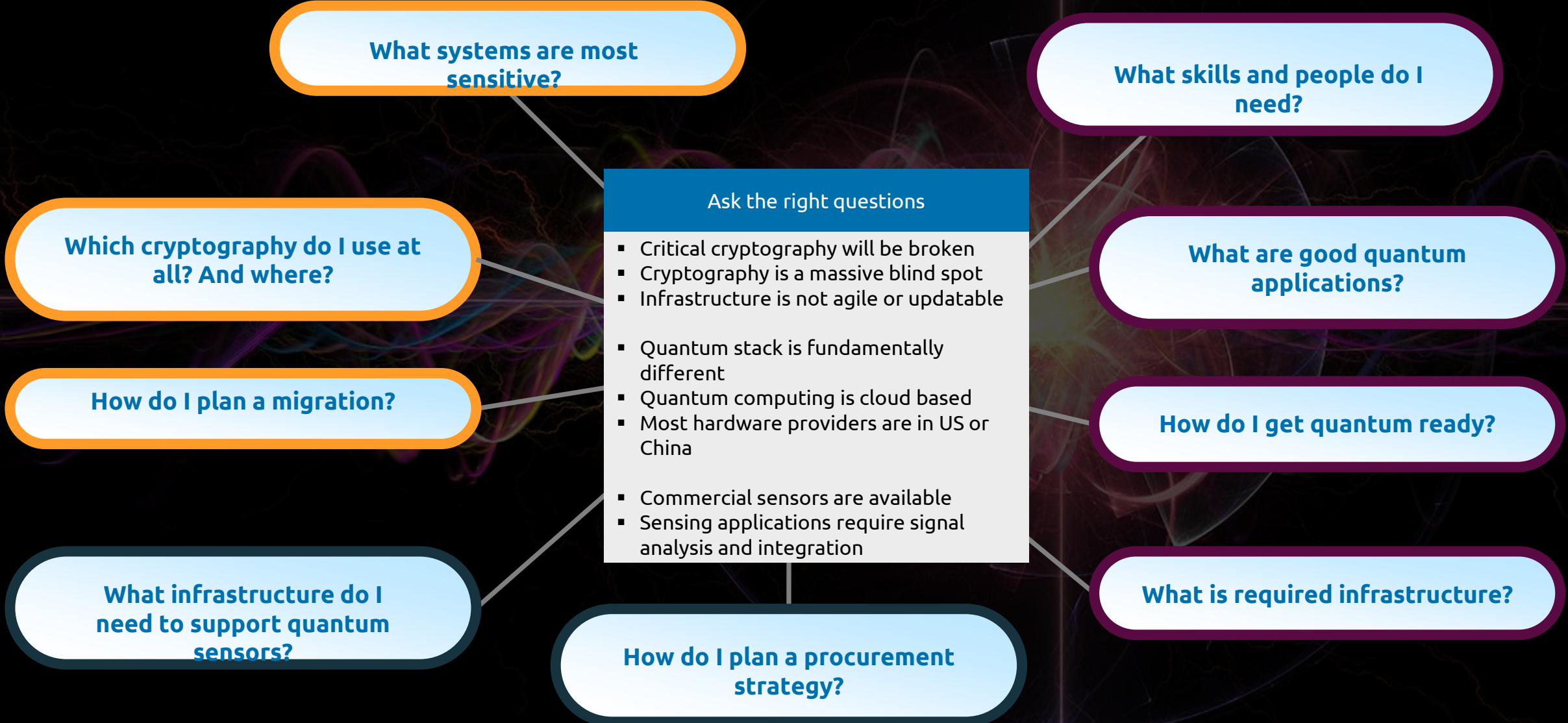
Post-quantum cryptography

Other

# SOME QUANTUM TECHNOLOGIES STILL TAKE 10 YEARS BUT NOT ALL



# QUESTIONS THAT CAN HELP YOU PREPARE



**QUESTIONS**

**?**

