



Celtic-Plus⁺

Smart Connected World

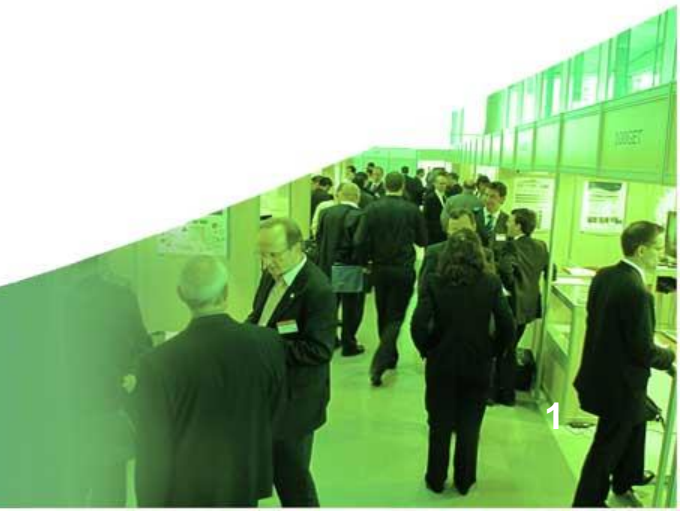


Celtic-Plus Event
Project Ideas and Networking
19st May 2017, Barcelona

Quantum-Safe IoT Security Gateway

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QIN
TECHNOLOGY



Teaser

*By 2020 due to Internet of Things (IoT), internet connected devices will reach **50 Billion**.*

These are mainly use-oriented devices (fridges, alarms, sensors, etc), not security-oriented, with limited processing capabilities.

*In this context, the growing field of Quantum Computers represent an **imminent threat** to the standard security paradigm, due to enhanced computational power.*

*The potential damage of this threat can be **CATASTROPHIC** if actions are not taken **TODAY**.*

*GoQuantum aims to solve this problem by using specific IoT post-quantum technology, creating a **safer network environment** to operate in.*



Organisation Profile

QIN is a Chilean based IT Company with regional presence in Latin America.

Since 2009 it has been focused in the Telecom Industry bringing software solutions for core networking (2G-3G-4G) including Narrow-Band IoT, IMS and VoLTE.

R&D Lab of QIN aims to implement and test experimental projects ranging from radio access network to post-quantum Cybersecurity, targeting the challenges of the next generation 5G network and the loom of IoT.

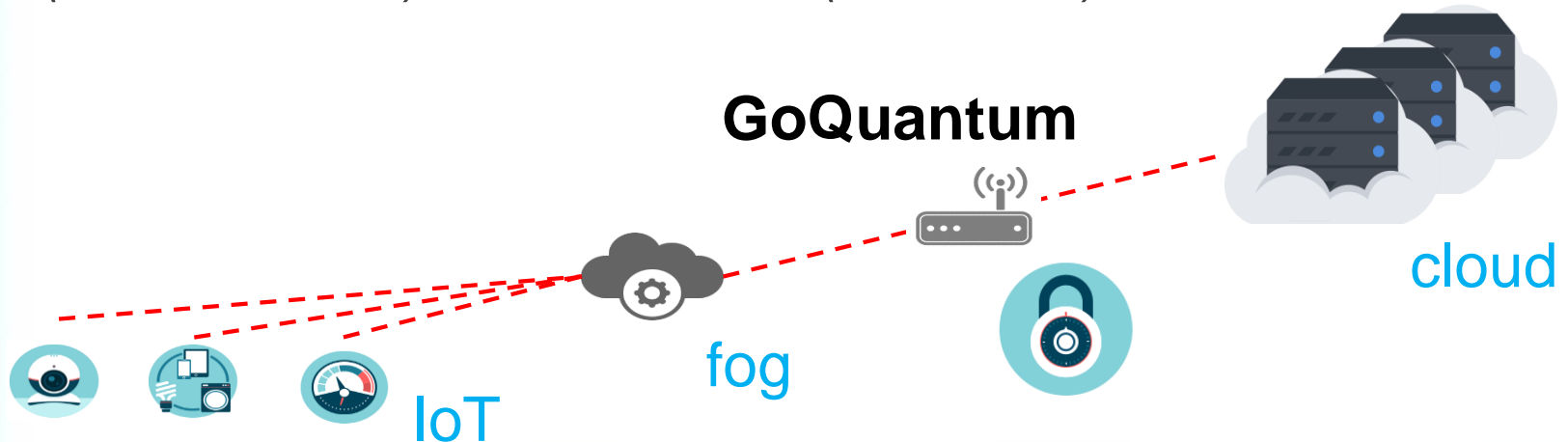


Proposal Introduction (1)

Quantum computers are a growing field and represent an imminent threat to standard security paradigm (ETSI, NIST reports), based on superior hacking computational capabilities.*

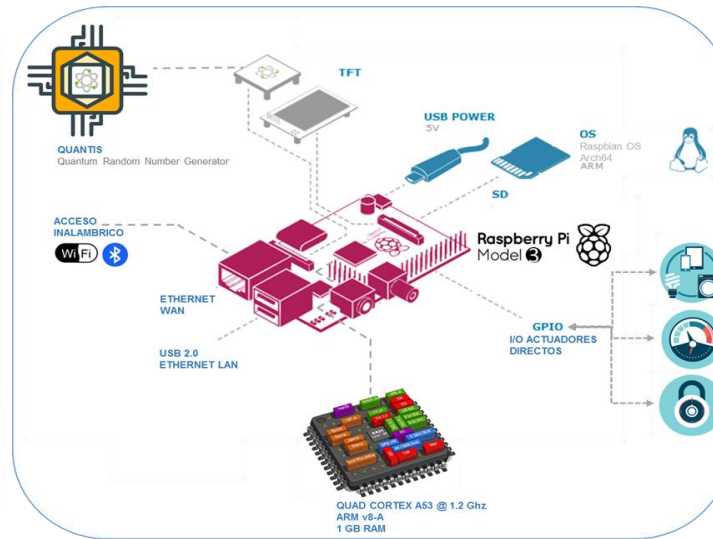
*Its effects on hyperconnectivity offered by IoT technology can be of **catastrophic proportions**, since current standards are obsolete*

Our GoQuantum initiative: IoT quantum-safe technology, creating an extra-secure interface for connections between FOG (local IoT Cloud) with the CLOUD (datacenter).



Proposal Introduction (2)

Our first *prototype*, an autonomous quantum-safe IoT gateway is currently in testing phase (R&D prototype funding).



1. Post-quantum algorithms
2. Quantum Hardware for hyper-secure key generation based

**Enhanced Security
Now and the future!**

First of a line of solutions with new security standars in communications, under the quantum paradigm (i.e. post-quantum).

2017-2018 → *prototype validation and packaging* towards commercialization

Partners

currently: Chile (CORFO, Gov. Funding for prototype dev.)

Seeking for:

Strategic technical and commercial partner that enable further collaboration and development, aiming to scale-up to a product-driven solutions through fund-raising initiatives.

Projects to implement and test our prototype in a real-world environment.

Contact Info

For more information and for interest to participate please contact:



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