

# **QUSIDE PRESS KIT**



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# 1. QUSIDE PRESS KIT

Thank you for your interest in Quside.

In this document, you will find instructions to use the logos and images for print and web use. All the images are named accordingly, and you will also find detailed information about our company, team, and our offering. The images referred in this document can be found in the downloaded zip file.

If you have any questions regarding the press material, or you would wish to receive more material, please contact:

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Marketing & Communication

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## 2. COMPANY INFORMATION

**Registered name of the company:**

Quside Technologies, S.L

NIF: B67074849

**Address and contact details:**

Quside Technologies

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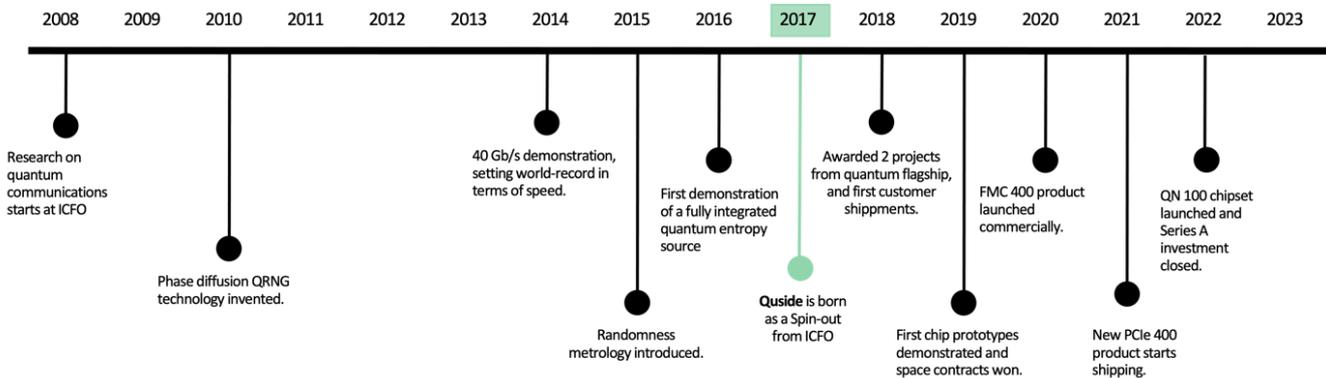
Website: [www.quside.com](http://www.quside.com)

### 3. ABOUT QUSIDE

Quside is a quantum technology startup based in Barcelona delivering quantum random number generation, monitoring and processing solutions for safer connectivity and advanced computation applications. A spin-off of ICFO – The Institute of Photonic Sciences - in Barcelona, Spain, Quside has a 10+ year heritage in the development and research of quantum technologies. The Quside team has been an active member of the European quantum community and the Quantum Industry Consortium (QuIC), as well as a key contributor in a variety of projects for the European Commission (Qrange and Civiq projects for the Quantum Flagship program) and National efforts (Clave, Caramuel, QuSpin).

#### Quside evolution

The Quside journey starts with a new R&D program at ICFO back in 2008 in quantum communications. Then, a dedicated program in QRNG development starts at 2012, time at which the founding team of Quside got together for the first time. From 2012 to 2017, an intense R&D effort was carried out, with both state-of-the-art scientific outcomes and technology innovations, including patents. In 2017, Quside is born as a spin-off from ICFO and since then, the company has been strongly focused on launching new products and delivering to its first customers.



#### Quside, an ICFO spin-off

ICFO is a CERCA research centre member of the Barcelona Institute of Science and Technology, founded in 2002 by the Government of Catalonia and the Universitat Politècnica de Catalunya · Barcelona Tech, both of which are members of ICFO’s board of trustees along

with the Cellex and Mir-Puig Foundations, philanthropic entities that have played a critical role in the advancement of the institute. Located in the Mediterranean Technology Park in the metropolitan area of Barcelona, the institute currently hosts 500 people, organized in 25 research teams that use 80 state-of-the-art research laboratories. Research lines encompass diverse areas in which photonics plays a decisive role, with an emphasis on basic and applied themes relevant to medicine and biology, advanced imaging techniques, information technologies, a range of environmental sensors, tunable and ultra-fast lasers, quantum science and technologies, photovoltaics and the properties and applications of nano and quantum materials such as graphene, among others. In addition to three consecutive accreditations of the Severo Ochoa national program for top research excellence, ICFOnians have been awarded 16 elite ICREA Professorships as well as 42 European Research Council grants. ICFO is very proactive in fostering entrepreneurial activities, spin-off creation, and creating collaborations and links between industry and ICFO researchers. To date, ICFO has helped create 11 start-up companies.

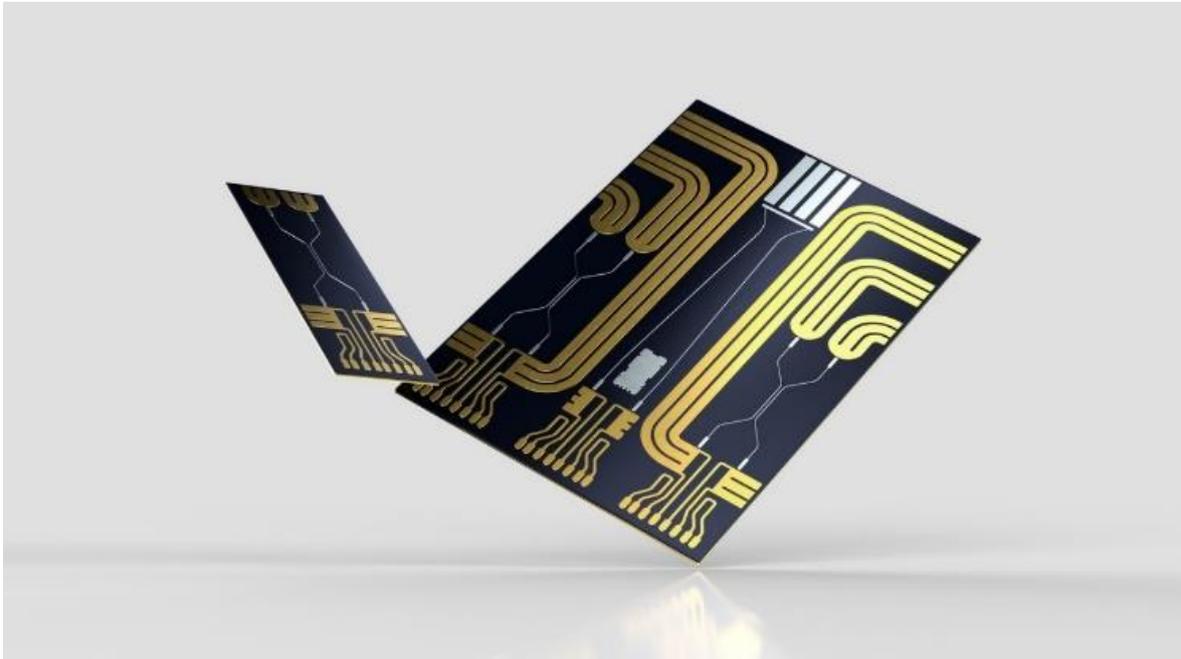
## Quside quantum randomness products and solutions

Quside delivers solutions in three key areas:

- **Randomness generation:** the generation of randomness is foundational to cybersecurity and high-performance computing. By leveraging its patented quantum technology, Quside is building the strongest randomness foundation for enhanced security and efficient computation. Quside is currently shipping randomness modules with two form factors: **the FMC Series**, designed for FPGA makers, and **the PCIe Series**, design for easy integration in a broad range of compute systems. In addition, Quside has also announced a unique custom-made photonic chipset, **the QN 100**, which delivers quantum random numbers at gigabits per second in just a millimeter-squared size. Quside can produce the QN 100 at wafer-scale.
- **Randomness monitoring:** each Quside randomness generation product is delivered with a brand-new way of quality testing, known as **randomness metrology**. It is based on years of research and development and peer-reviewed methods. By leveraging the inner quantum workings of the products, Quside delivers reliable randomness metrics in nearly real-time and on-the-spot. This provides value throughout the value chain, improving visibility, awareness and control for product makers and infrastructure owners.
- **Randomness processing:** a broad range of computational problems rely on random numbers, including Monte Carlo methods, ubiquitous in finance, and optimization. Quside delivers a unique **randomness accelerator** to accelerate up to 10X your randomized workloads and with 20X less energy consumption. Quside has been

testing out the early version of the product with end users and will launch the new product set in March 2023.

More images: folder: Quside Pictures / Products



## 4. FACTS, FIGURES, CUSTOMERS AND TEAM

Quside has secured over eight digits of investment from private and public investors and counts with over 33 full time employees. More than 70% of the team is currently focused in the development of the company's product, and over 25% holds a PhD in quantum and photonic technologies.



### Founders:

**Carlos Abellan (Co-founder and CEO)** leads the strategic and go-to-market development of the company. He got his PhD in quantum photonics from ICFO, where he developed the quantum randomness technologies that were transferred to Quside. Carlos brings 10 years of experience in quantum and photonics development, is co-inventor of 8+ patent and patent-pending families and co-author of 15+ papers in top journals. He has received multiple awards for his work.



**Domenico Tulli (co-founder and CTO)** leads the technology strategy, chip integration and space initiatives. He has a PhD in Photonics from ICFO and brings 15+ years' experience at the forefront of photonic and space innovation. Prior to joining Quside, Domenico was a post-doc at UC Davis and UC Berkeley and then team leader at DAS Photonics, where he led the development of advanced integrated photonic components for space and defense clients.



**Waldimar Amaya (co-founder and Chief Engineer)** leads the engineering and production teams at Quside. He got his PhD in Telecommunications from the Universitat Politècnica de València (UPV). And brings 15+ years of experience in photonic system engineering, with contributions to QRNG, QKD. He has published 20+ papers and is co-inventor of 2 patents. He has been a Senior Member of IEEE since 2012 and has received various awards for his work.



**Valerio Pruneri (Co-founder and scientific advisor)** Valerio Pruneri is an ICREA Industrial Professor, Corning Inc. chair and group leader at ICFO. Previously he worked in industry, for Avanex Corporation and Corning OTI. He has over 60 granted or pending patent families and 100 invited talks at major international conferences. In the field of photonics and quantum technologies he and his group have developed several innovations, including low drive voltage integrated electro-optic devices, small-form factor tunable lasers, quantum phase imagers, entanglement sources, quantum random number generators and quantum key distribution systems. In the European Quantum Flagship programme, he coordinated CIVIQ and will coordinate QSNP. He is a co-founder and board member of Quside and Luxquanta.



**Morgan Mitchell (Co-founder and scientific advisor)** got his PhD from University of California at Berkeley in 1999 in the group of Raymond Y. Chiao, one of the pioneers of nonlinear and quantum optics. His thesis Dynamics of photon-photon scattering in rubidium

vapor studied four-wave mixing as a source of entangled photons. As a post-doc in the group of Serge Haroche and Jean-Michel Raimond at the Laboratoire Kastler Brossel he studied interaction of cold rubidium atoms with whispering-gallery resonators. He taught for two years at Reed College and there developed the first diode-laser-pumped entangled photon source. As a post-doc with Aephraim Steinberg at the University of Toronto he did pioneering experiments in quantum process tomography, quantum state tomography, generation of multi-photon NooN states, and measurements of photon distinguishability. He has been a Group Leader at ICFO since 2004.



## 5. LATEST NEWS

### **Quside and Juniper Networks sign technology alliance partnership agreement?**

Quside has signed a Technology Alliance Partnership Agreement with Juniper Networks, a leader in secure, AI-driven networks, to explore together the use of QRNGs in support of the transition to new innovative approaches to cryptography.

<https://quside.com/quside-and-juniper-networks-sign-technology-alliance-partnership-agreement/>

### **And the Nobel Prize goes to: quantum technologies.**

This year's Nobel Prize in physics has been given to John F. Clauser, Alain Aspect and Anton Zeilinger for "experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science." Our founders had the opportunity to collaborate in Bell test experiments in 2015.

<https://quside.com/the-nobel-prize-goes-to-quantum-technologies/>

### **Can quantum random number generators improve computational results?**

A research collaboration between Quside, ICFO, and others, has shown how using quantum random number generators provide the required quality and efficiency for safely running even the most complex stochastic simulations.

<https://quside.com/can-quantum-random-number-generators-improve-computational-results/>

### **Quside is one of the winners of EUSPA's MyEuspace Competition**

Quside has been selected as the winner of the "Innovative Solutions applying quantum technologies" with the RIGOROUS project.

<https://quside.com/quside-is-one-of-the-winners-of-euspas-myeuspace-competition/>

### **BSC deploys a Quside QRNG to accelerate randomized algorithms**

The Barcelona Supercomputing Center (BSC), a pioneering supercomputing center in Spain, recently deployed a quantum random number generator (QRNG) from Quside to pilot the use of this new resource for randomized algorithms and Monte Carlo methods.

<https://quside.com/bsc-deploys-quside-qrng-for-randomized-algorithms/>

### **Quside announces the QN100, a quantum entropy source for cybersecurity and computation**

Entropy sources are fundamental for the generation of random numbers, which in turn are central for all cybersecurity protocols.

<https://quside.com/quside-announces-qn100-quantum-entropy-source-for-cybersecurity-computation/>

### **CESGA deploys Quside QRNG into their data center to offer increased capabilities stochastic workloads**

CESGA, the centre of computing, high performance communications systems, and advanced services of the Galician Scientific Community, the University academic system, and the National Scientific Research Council (CSIC).

<https://quside.com/cesga-deploys-quside-qrng-into-their-datacenter-to-offer-increased-capabilities-stochastic-workloads/>

### **Quside receives financing from the Catalan department of business and labor**

Quside has been promoted by the Department of Business and Labor in Catalonia, through AVANÇSA (Empresa de Promoció i Localització Industrial de Catalunya) INNOVA funding lines. Avançsa has announced two new investments totaling €1.5 million into two innovative companies. The second company is THE SOCIAL COIN, SL, responsible for the CITIBEATS project.

<https://quside.com/quside-receives-financing-from-the-catalan-department-of-business-and-labor/>

### **Quside creates a randomness-accelerated version of NumPy**

Quside announces the availability of an optimized version of NumPy to accelerate randomized workloads in a broad range of fields, including finance, science, logistics, and pharmaceuticals.

<https://quside.com/quside-randomness-accelerated-version-of-numpy/>

### **European Quantum Industry Consortium elects Quside's CEO for board**

Developing the quantum technology ecosystem in Europe is one of the main goals of the European Quantum Industry Consortium (QuIC), kicked-off during its General Assembly on April 15th, which also appointed its governing board, electing Carlos Abellan, Quside's CEO and founder, among its members.

<https://quside.com/european-quantum-industry-consortium-elects-qusides-ceo-for-governing-board/>

### **Telefónica Tech collaborates with Quside & Qrypt to validate quantum technology**

Telefónica Tech has collaborated with Barcelona-based Quside, an industry-leading manufacturer of high-performance quantum random number generators, and New York-based Qrypt, a producer of cryptographic quantum security solutions enabled by its Quantum Entropy-as-a-Service (EaaS) solution, to successfully complete the integration of a new quantum technology into its cloud service hosted in its Virtual Data Centers (VDC).

<https://quside.com/telefonica-tech-collaborates-quside/>

### **Qrypt/Quside Partnership: quantum secure protection**

New York-based Qrypt, Inc., (Qrypt), and Barcelona-based Quside Technologies, S.L., (Quside) today announce their partnership to jointly deliver a quantum secure data protection solution.

<https://quside.com/qryptquside-partnership-quantum-secure-protection/>

### **Quside and ICFO collaborate on project for hardware accelerators**

Quside and ICFO will work together within the new Retos project which aims towards building hardware accelerators inspired by quantum physics for optimization and Machine Learning.

<https://quside.com/quside-and-icfo-collaborate-on-project-for-hardware-accelerators/>

You can see all our news and editorial content on our website:

<https://quside.com/category/news/>

<https://quside.com/blog/>

## 6. QUSIDE SOCIAL MEDIA CHANNELS AND VIDEOS

### Social Media Channels:

- **Linkedin:** <https://www.linkedin.com/company/quside>
- **Twitter:** <https://twitter.com/quside>
- **Youtube:** <https://www.youtube.com/channel/UCKnDYyxCodoW71qfxclFlug>
- **Website:** [www.quside.com](http://www.quside.com)

### Videos:

#### Is your company Quantum-ready?

[https://www.youtube.com/watch?v=\\_xykzzRaylU](https://www.youtube.com/watch?v=_xykzzRaylU)

Say "yes" with Quside. "This is the right time to be proactive to address cybersecurity issues" as the World Economic Forum emphasizes in their quantum computing report. Global thought leaders as well as new legal regulations are taking actions. QRNGs already today enable advancements in cybersecurity solutions.

#### How can you be sure your data is secure?

[https://www.youtube.com/watch?v=16ilDT\\_47cl](https://www.youtube.com/watch?v=16ilDT_47cl)

Cybersecurity is challenged by data increase and faster computers. But did you know your current hardware can already get a quantum boost? Watch our video and find out how Quside's randomness modules bring speed, unpredictability, and convenience to your security solutions. On top, the Randomness Metrology methodology allows you to check their exceptional randomness quality.

## 7. PICTURES, LOGOS & CORPORATE IDENTITY

### Pictures

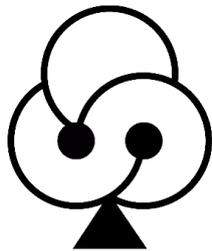
Folder: Quside Pictures

More pictures and better quality under request.

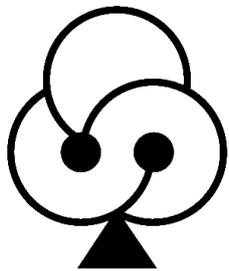
### Quside Logo:

Folder: Logos & Coporate Guidelines

Formats available: EPS, PNG, SVG, DXF



Q U S I D E



Q U S I D E

### Quside Corporate Identity

We have developed a Corporate Identity Guidelines to help how to use our logo

Folder: Logos & Coporate Guidelines