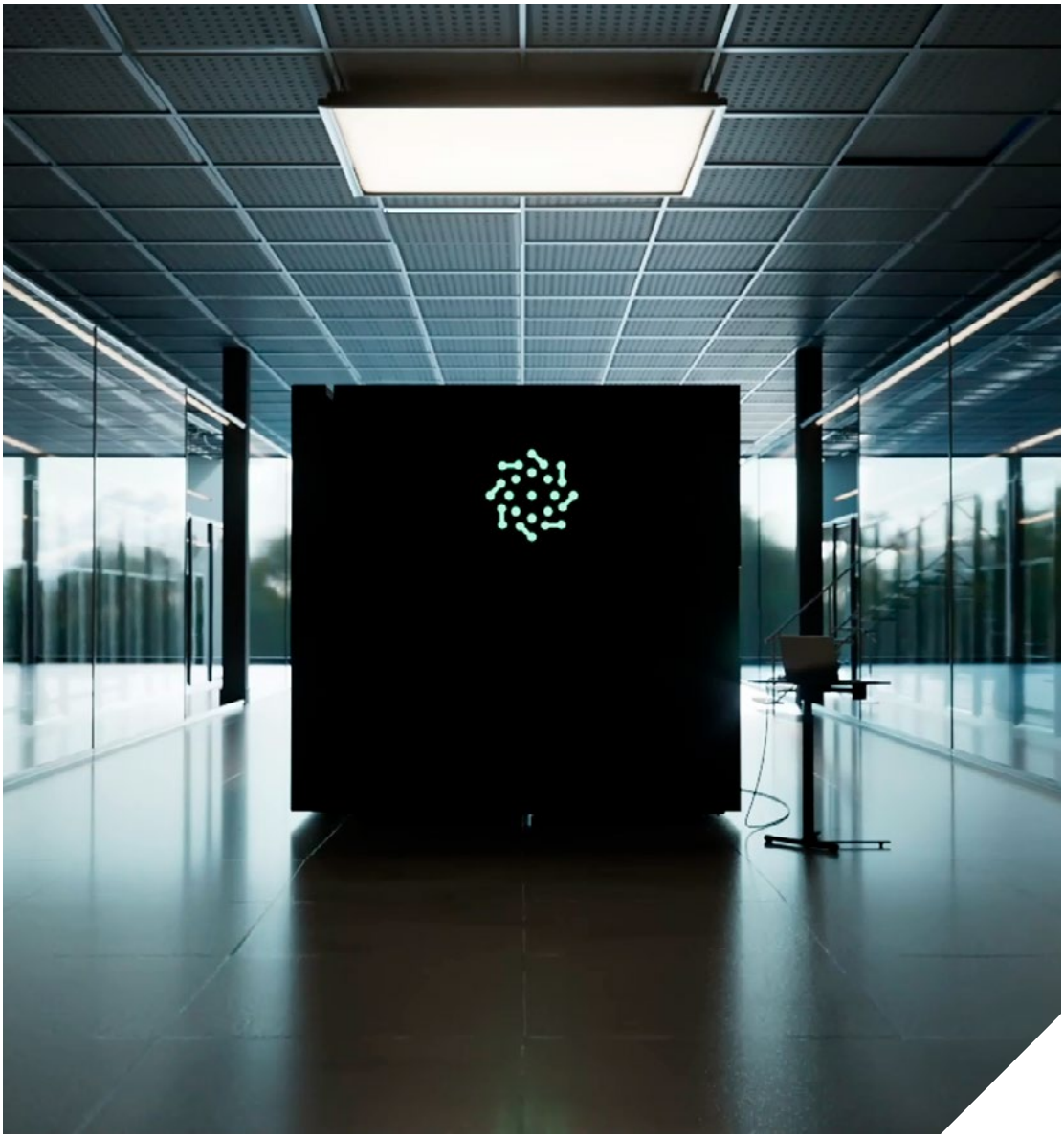


Pasqal

Scaling Quantum at Industrial Level

2026



Leading with Science.
Excelling in Engineering

Leading the way in neutral-atom quantum technology, Pasqal unites scientific discovery with engineering excellence. Built on Nobel Prize-winning neutral-atom technology, our quantum processors deliver transformative solutions to complex challenges across industries from finance to pharmaceuticals.

Founded in 2019, we develop and commercialize quantum computers that address real-world problems through our full-stack approach. Our programmable quantum processors harness laser-cooled atoms to unlock unprecedented computational possibilities, empowering businesses and researchers to solve what was previously impossible.

Humanity’s greatest challenges — from drug discovery to climate modeling and AI at scale — are reaching the limits of classical computing.

The answer lies in quantum.

At Pasqal, we transform world-class science into industrial-grade quantum systems designed for real-world impact. We are scaling globally to make quantum computing reliable, accessible, and meaningful for industry.



WASIQ BOKHARI

Chief Executive Officer

Vision

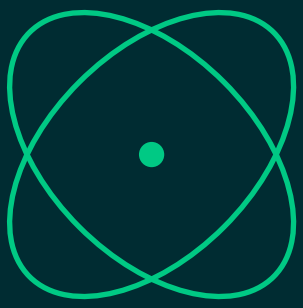
Our ambition is to break through the limits of computing by leading the delivery of state-of-the art quantum computing.

Mission

From single atoms to global impact, our passion for science helps interpret the complexity of the world.

Pasqal

Pioneering Neutral-Atom Quantum Computing for Real-World Advantage



+1,024
qubits achieved
in latest generation

+540
qubits sold

200
qubits, most sophisticated QPU installed on-premise in 2025

7 QPUs
in operation over 3 continents

1st QPU
purely commercial QPU delivery

€16.5M
2025 commercial revenue

+85
patents[1]

+70
international PhDs

€66M+
booked & awarded business[2]

$300M+
raised to date

2 Quantum factories
Paris (France) & Sherbrooke (Canada)

(1) Includes pending patents.
(2) Including grants; as of March 2026

Fault-Tolerant Quantum Computing FTQC

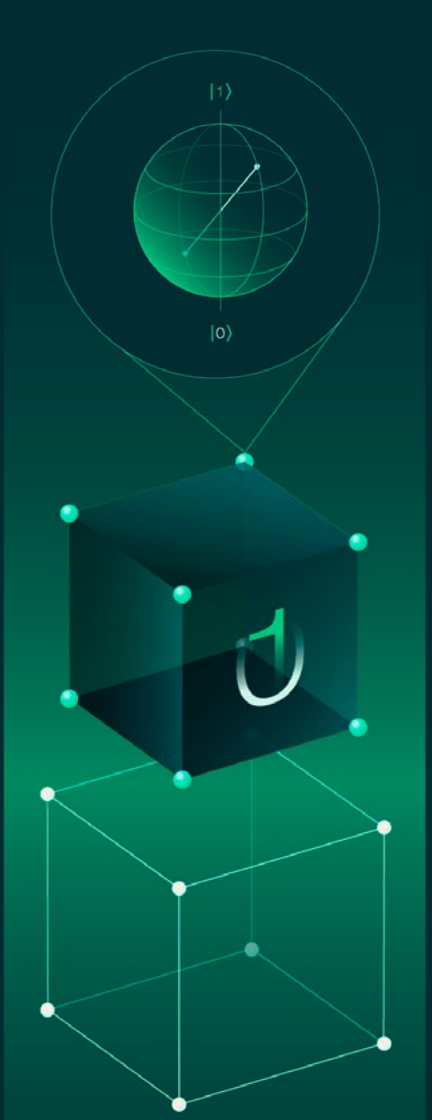
Pasqal is committed to a cohesive full-stack approach, ensuring that as quantum hardware evolves towards fault-tolerant systems, our customers can seamlessly develop and scale their applications. FTQC systems are large-scale, error-resistant, and capable of efficiently running complex algorithms.

We are actively working towards this vision by advancing neutral-atom technology and quantum error correction, collaborating with partners like Riverlane to deliver powerful quantum solutions that unlock the full potential of quantum computing for real-world applications.

Our solution to FTQC

Dual-programming model

FTQC means evolving from a physical qubit paradigm to a logical qubit one on the same hardware platform.



Logical qubit

Entangling multiple physical qubits to create a logical qubit.

Ancillary qubit

Ancillary qubits are measured to detect if errors have occurred, without disturbing the logical qubits' states

History & Roadmap

2019

Pasqal is founded out of the Institut d'Optique Paris, by five visionary scientists: Dr. Georges-Olivier Reymond, Prof. Alain Aspect, Dr. Christophe Jurczak, Dr. Antoine Browaeys, and Dr. Thierry Lahaye.

The backbone of Pasqal's neutral-atom quantum computing technology is Prof. Alain Aspect's pioneering work that earned him the Nobel Prize, with the first experiment dating back to 1980.

2021

Pasqal raises €25M in Series A funding to speed up the commercialization of quantum processors.

2022

First Neutral-Atom Quantum Computer available on the cloud.

Professor Alain Aspect, Pasqal co-founder, is awarded the Nobel Prize in Physics for experiments with entangled photons and pioneering quantum information science.

2023

Pasqal raises €100M in Series B funding to advance research and industrialization of neutral-atom quantum computing.

Highlighted by the BCG as the only non-US based quantum computing company developing enterprise-grade ready offer. Thanks to the most ambitious quantum use case implemented in the world together with a private customer (CA CIB).

2024

New technology roadmap focused on business utility and scaling beyond 1,000 qubits towards Fault-Tolerance Era.

Over 50 customers and partners from Fortune 500 companies spanning more than 10 countries.

A well-established global presence with offices in Europe, North America, Middle East, APAC. A workforce of over 250 people.

Successful deliveries of 2 QPUs to customers' facilities.

2026

Industrial Quantum Advantage in materials science achieved.

2028

Break-even in FTQC anticipated.

Scaling Quantum at Industrial Level.

€170M raised in Series C funding.

2029

200 logical qubits industrialised quantum processor anticipated.

Strategic Alliances to Accelerate Quantum Adoption

IBM

Long-term collaboration around software innovation and integration for quantum -centric supercomputing. First-of-its-kind collaboration in Quantum Computing.

Google

Reduce costly infrastructure barriers for companies wanting to use Pasqal's QPU, by leveraging the flexible, pay-as-you-go model of Google Cloud.

NVIDIA

Connected NVIDIA's CUDA-Q open-source, hybrid quantum-classical computing platform, to Pasqal's QPUs.

Microsoft

Partnership extension with Microsoft Azure to allow wider accessibility of quantum technology through the Azure cloud.

Pasqal QPUs already all around the world



Pasqal × EDF

Pioneering Neutral-Atom Quantum Computing for Real-World Advantage

Energy

www.pasqal.com/success-story/edf/

CONTEXT

Charging of electrical vehicles presents both challenges and opportunities for grid electricity management.

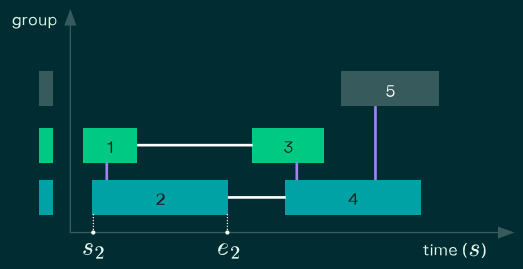
OBJECTIVE

Minimize the time of a number of charges, while no group (representing e.g. a vehicle fleet) is over-represented in the schedule.

CURRENT METHOD

From a dataset of 2,250 load tasks, performed in May 2017 in Paris, randomly N loads were selected and grouped using a uniform distribution.

To embed this in graphs, nodes were assigned to each load (e.g. 1 — 5 on the right) and two nodes were connected by edges when either they belonged to the same group or their intervals overlapped (e.g. purple and white lines).



QUANTUM SOLUTION

Reaching the objectives equals finding the Maximum independent Sets (MIS) of the graphs (e.g. nodes 2, 3, 5).

A so-called quantum annealing algorithm was proposed to solve this and implemented on a Pasqal QPU with 100 qubits, allowing for graphs up to size 100.

This diversity can be leveraged in hybrid classical quantum approaches for 1,000 qubits system size that promises energy performance gains vs. classical*.

Pasqal has demonstrated such a 1,000 qubits system back in 2024, and is in the process of industrializing this for commercial use.

>98%
approximation ratio
with a strong diversity of solutions

* Da Silva Coelho et al., Physical Review A 107.3 (2023): 032426

CLOUD ACCESS

Pasqal Cloud

Pasqal makes available a comprehensive ecosystem of tools under Pasqal Cloud Services with the aim to enable the quantum journey of our customers.

Available on:

Google Cloud · Microsoft Azure · Scaleway · OVHcloud

ON-PREMISE ACCESS

Pasqal Orion

140+ qubits



ANALOG MODE

Pasqal Vela

Pre-order for 2027

200+ qubits



ANALOG MODE

QUANTUM ADVANTAGE

Leveraging the hardware

Quantum applications

Solve complex optimization and machine learning challenges with ready-to-use quantum algorithms, like MIS (optimization) and QEK (machine learning), accelerating innovation in industries such as logistics and finance.

Software development kit

Create and control quantum experiments easily, using Pulser (python-based code libraries) and Pulser Studio (no-code programming platform) to streamline development on neutral-atom quantum processors.

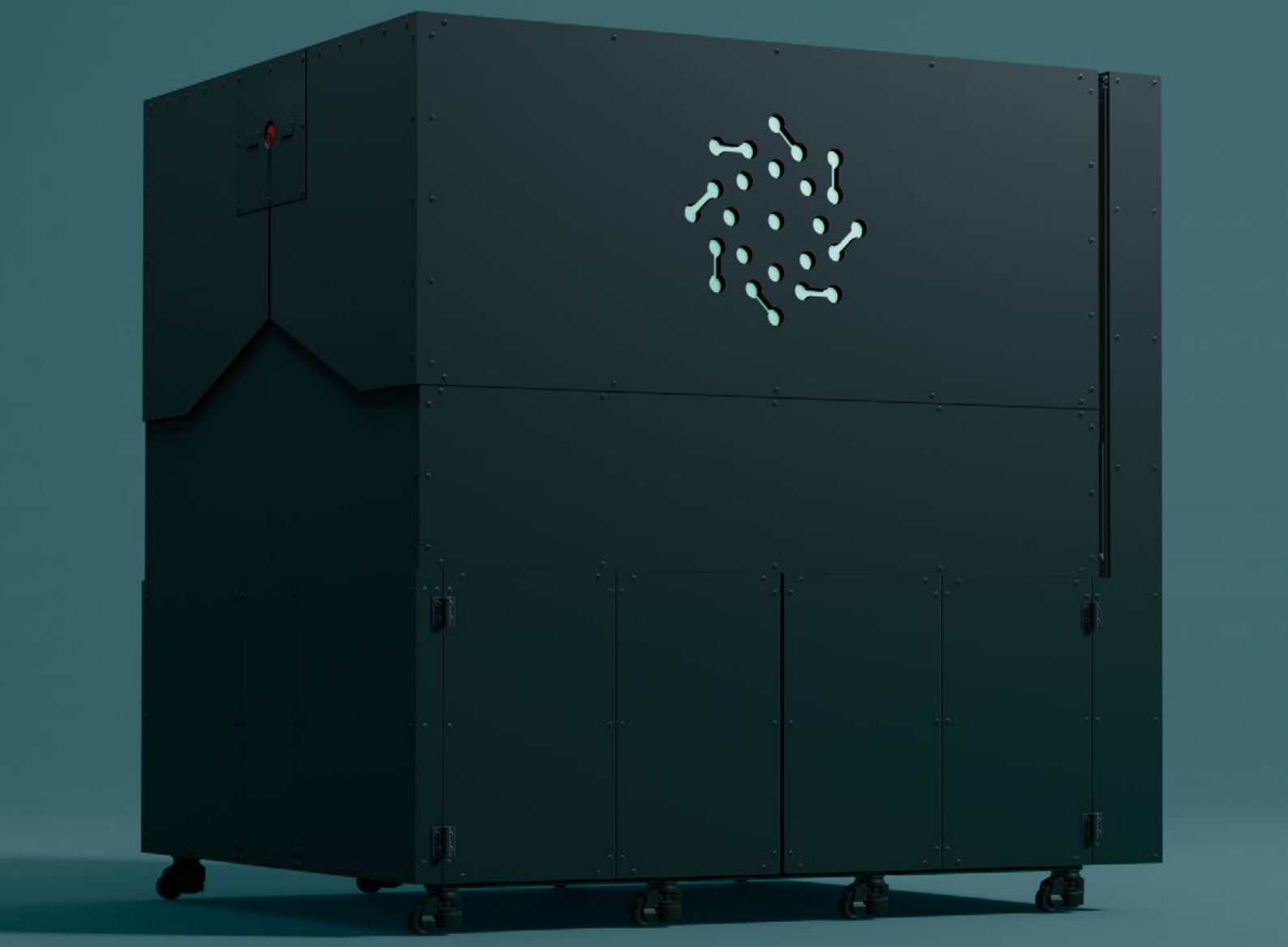
Quantum emulator

Simulate quantum hardware behavior to develop and test algorithms efficiently, locally on your PC or in the cloud, reducing risks and speeding up deployment on real quantum hardware.

Pasqal

The Power of Neautral-Atom Quantum Processors

Pasqal Orion



140+
qubits

3 kW
average consumption

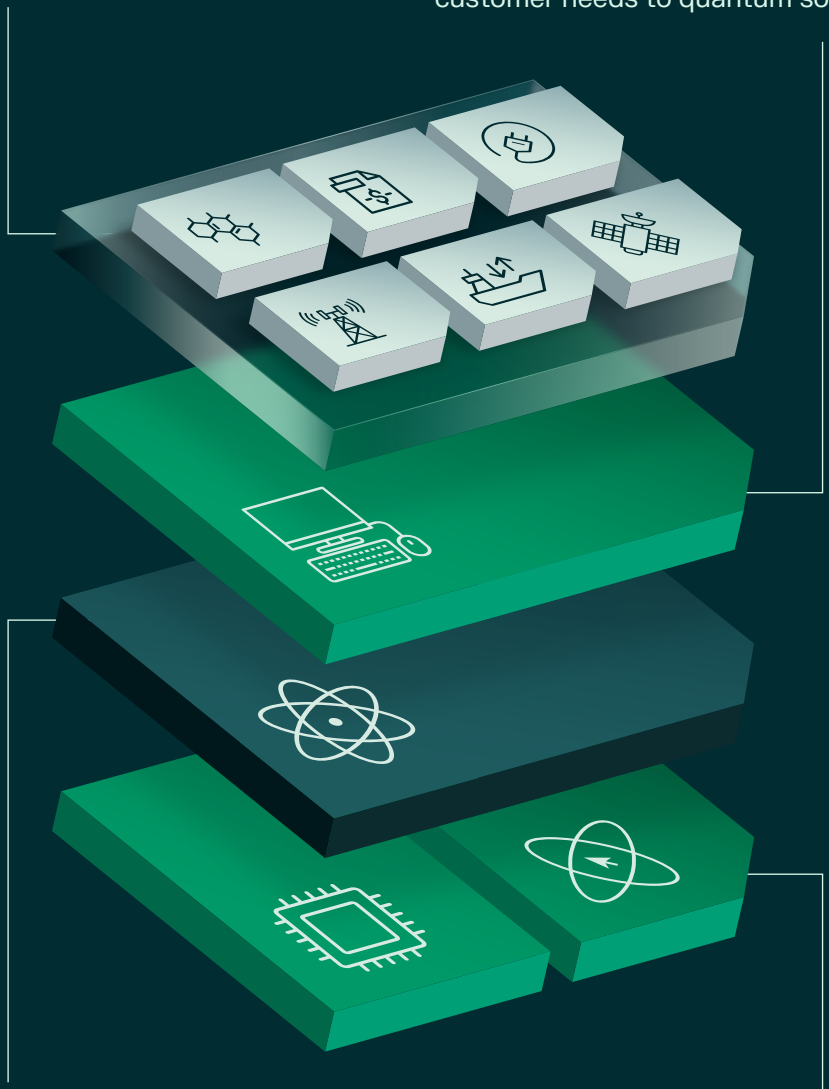
Room temperature
operation

Standard data center
compatible

Quantum Stack

USE CASES
Pasqal's software stack, shaped by real-world challenges in logistics, finance, energy, telecom, and chemistry, has been already a key asset in driving successful projects and industrial solutions.

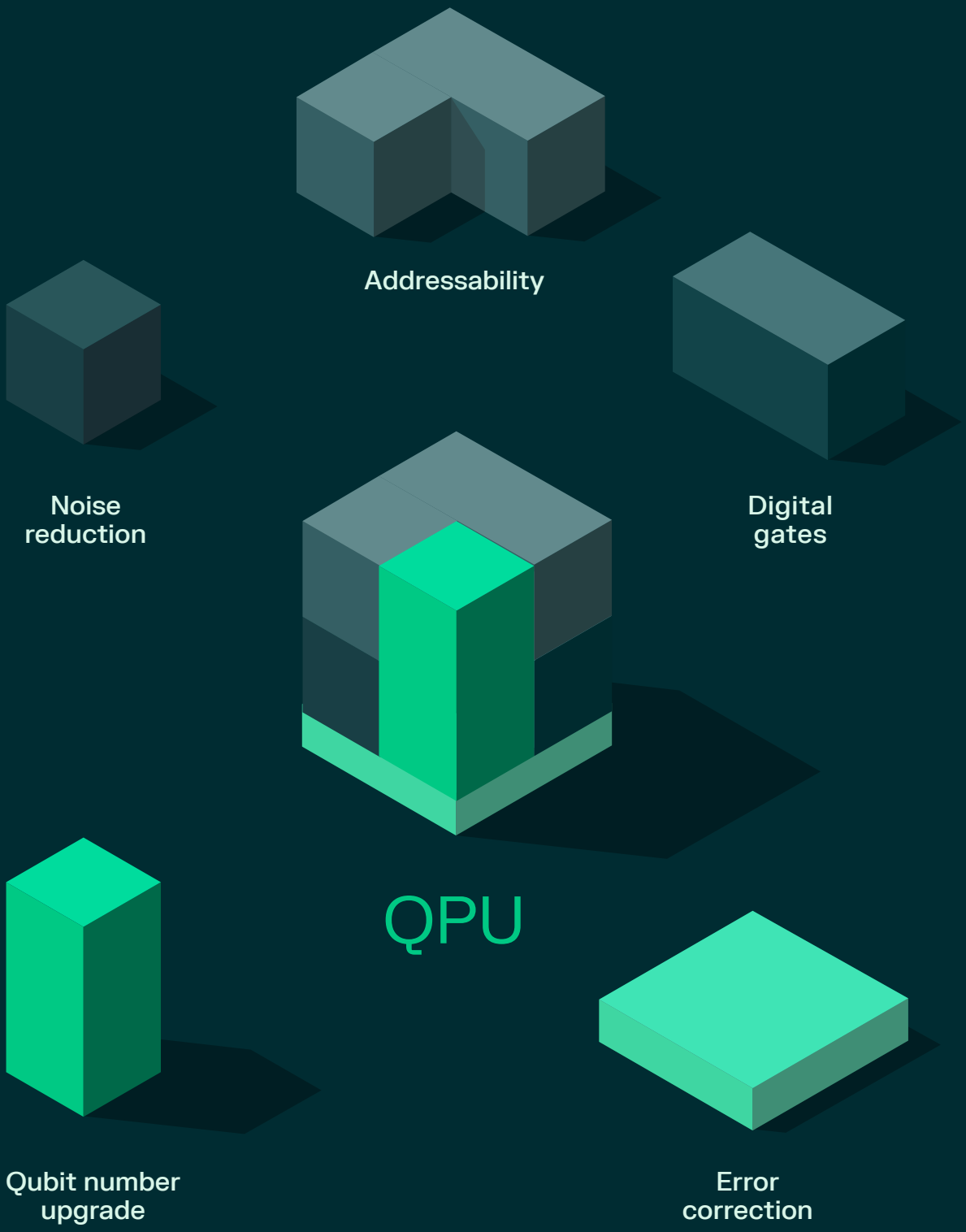
QUANTUM APPLICATIONS
Ready-to-use libraries built around quantum-hybrid algorithms tailored to problem classes as combinatorial optimization, dynamical system simulation, or quantum-inspired machine learning, bridging customer needs to quantum solutions.



QUANTUM SDK
A Multi-level Software Development Kit to design quantum algorithms, compile them for neutral-atom architectures, and connect them seamlessly into existing classical applications and workflows.

EXECUTION
Infrastructure to process workloads on Pasqal's QPUs and quantum emulators, with scalable options for experimentation, benchmarking, and integration into larger quantum-classical workflows.

Modular & Rapid Innovation



Partner with Pasqal: Turn Quantum Benefits into Business Advantage



Scientific foundation

Spin off from the renowned Institut d'Optique of Paris-Saclay University, co-founded by Nobel-Prize winning professor Alain Aspect, and close to 100 scientific publications since the company's founding in 2019.



Full stack

Pasqal offers both hardware and integral software solutions. Our open-source software libraries make it easy to engage with our hardware and build your own solutions.



Modular design

Individual hardware modules can be upgraded to stay on par with the state-of-the-art without needing to replace the entire QPU.



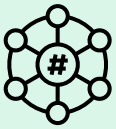
Industrialized technology

Pasqal technology is currently deployed in various data centers, and can be delivered on-site for full control of access and security.



Services

We provide services in collaboration with certified partners to help in every step towards quantum computing delivering value to your business.



Community

A vibrant Pasqal community providing peer to peer support and continuously creating new applications based on Pasqal products.

EASE OF OPERATION

No strict requirements on environment. Just need a wall socket and a network cable to connect.

SCALABILITY

Neutral-atom technology offers a clear path toward 10,000 qubits and beyond, following our roadmap.

BOTH ANALOG & DIGITAL MODES

The unique capability to do both analog and digital experiments adds flexibility and offers the opportunity of near-term value with analog while developing FTQC.

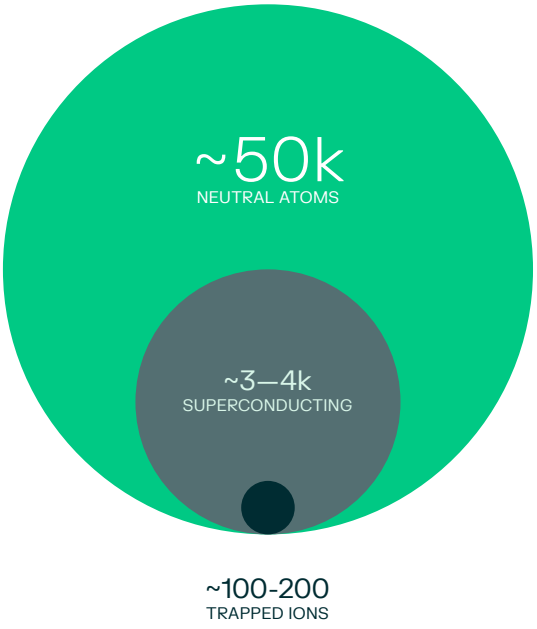
ENERGY EFFICIENCY

No cryogenics required, the system operates at room temperature, significantly reducing power consumption compared to classical computing.

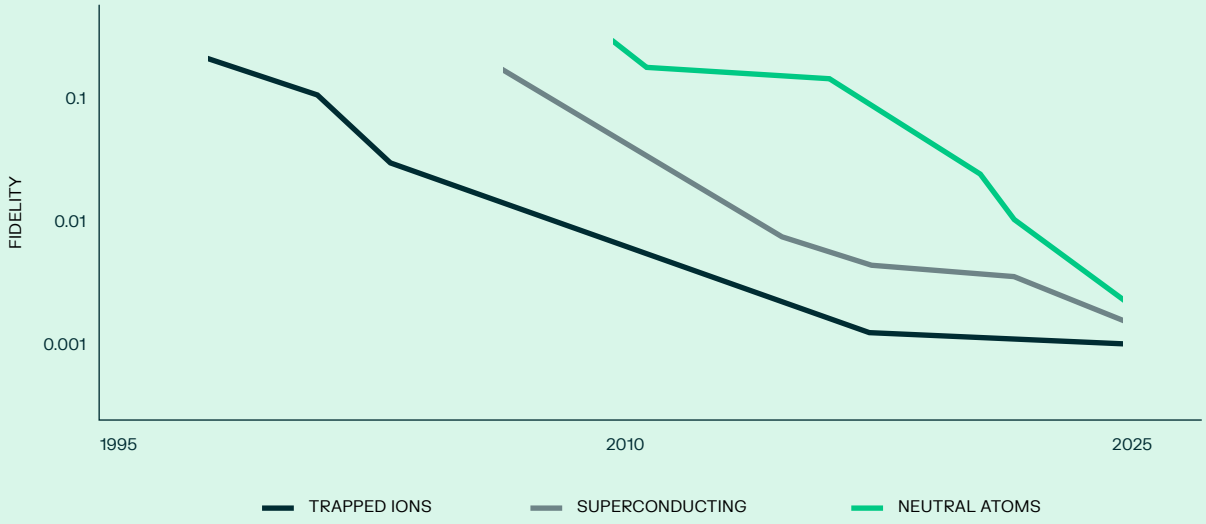
UNIFORMITY & QUALITY

This technology uses atoms as qubits, they are naturally identical and free from any imperfections.

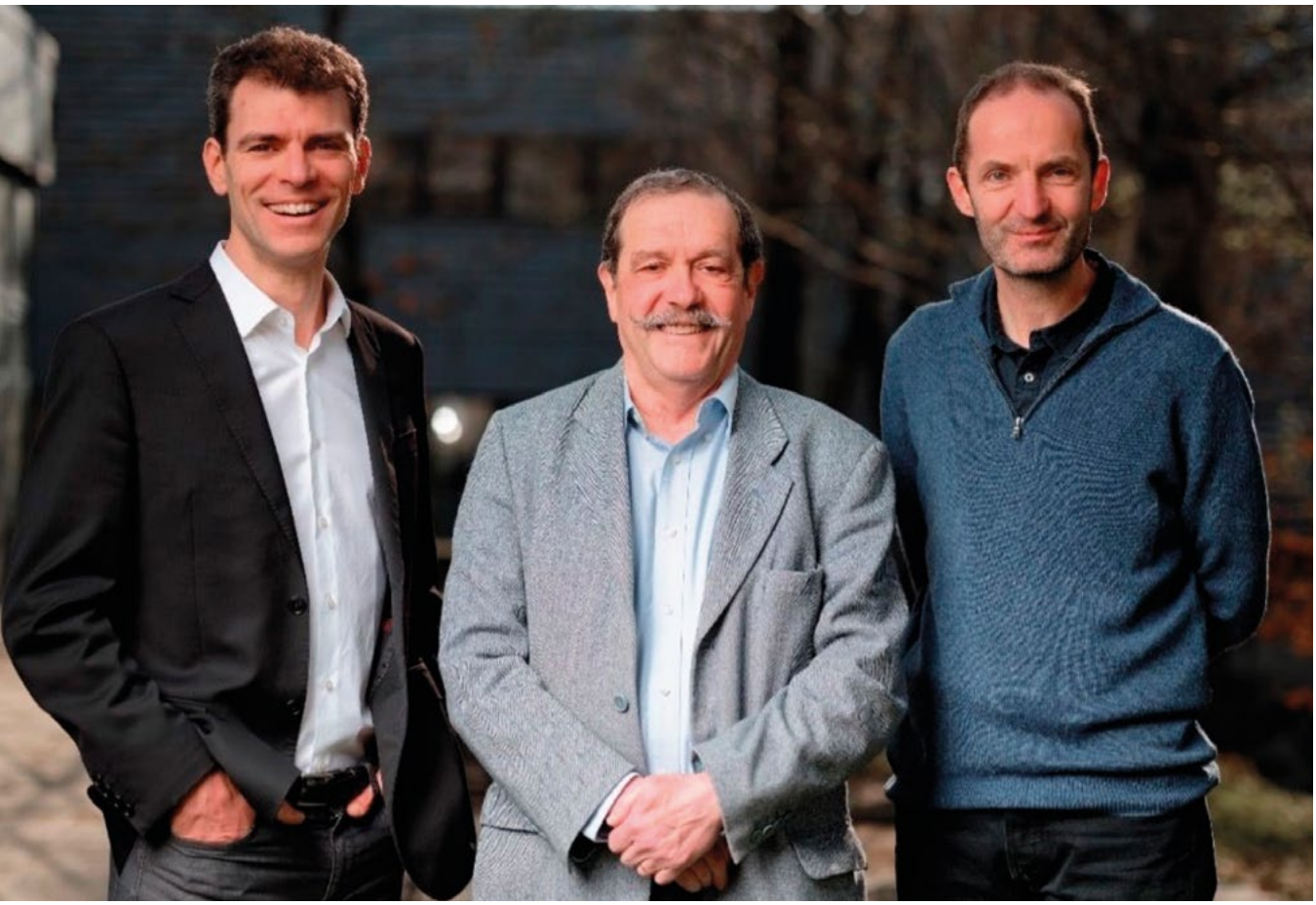
Estimated max. number of qubits achievable in a single QPU.



Error rates of neutral atoms are catching up to other technologies, and fast.



Pasqal is a Unique Mix of Science and Engineering



Georges-Olivier Reymond
Co-founder & Strategic alliances

16 years in bringing new tech to the market

Prof. Alain Aspect
Co-founder & Scientific Advisor

2022 Nobel Prize Laureate in Physics

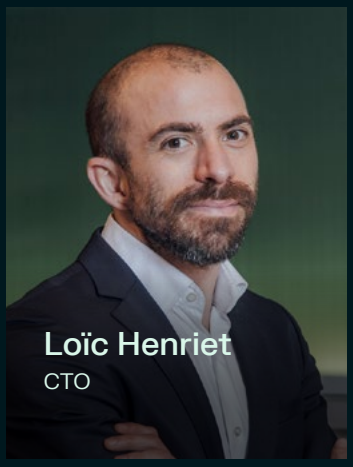


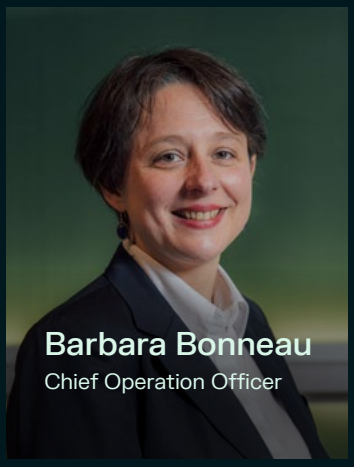
Prof. Antoine Browaeys
Co-founder & Scientific Lead

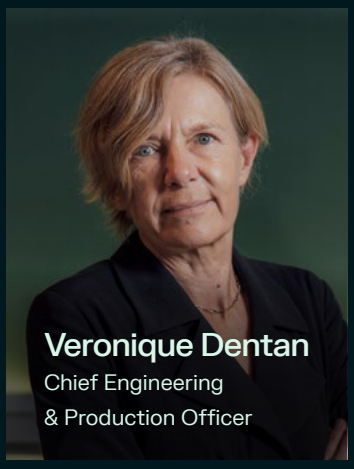
2022 Solvay conference attendee, Nature 2021 & 2023, French Sciences Academy since 2024

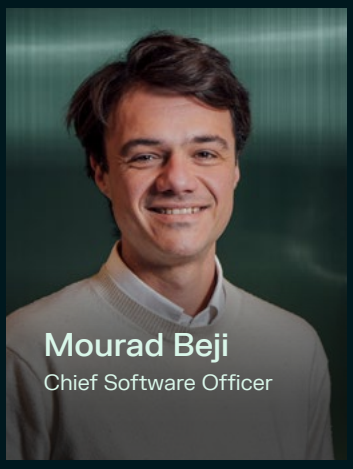
"When there are no fundamental limitations, engineers find a path."
– Prof. Alain Aspect

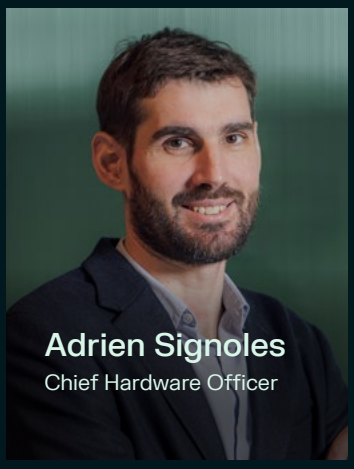


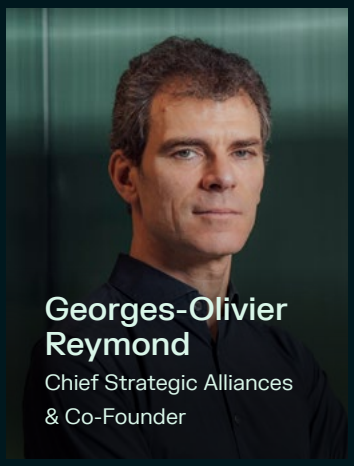












Our leadership team

Pasqal

Pioneering Neutral-Atom Quantum Computing for Real-World Advantage

Roadmap 2026

2022 | 2023 | 2024 | 2025 | 2026E | 2027E | 2028E | 2029E

HARDWARE PRODUCTS
On-Premises & Cloud

Microsoft Azure
Google Cloud
Scaleway
OVH Cloud
Pasqal Cloud



Pasqal Orion

- Alpha: 100+ qubits
- Beta: 100+ qubits
- Gamma: 140+ qubits



Pasqal Vela

200+ qubits
First Quantum Advantage



Pasqal Centaurus

Analog
& Early FTQC



Pasqal Lyra

Analog
& impactful FTQC

HARDWARE R&D

Physical qubits	200		1,000		10,000
Per-step fidelity			95%	99%	99.5%	99.9%
Features	Z add		Zoning	In-circuit readout	In-circuit reloading	Fast decoder	Large-scale operations
				10+ PIC-enabled parallel 1Q gates		100+ PIC-enabled parallel 2Q gates	
						Full addressability	
Logical qubits			2		20		200
Logical fidelity			95%	98%	99.9%		99.999%
					BREAK EVEN		MEGAQUOPS

ALGORITHM & ACCELERATED LIBRARIES

Quantum application	Quantum Advantage on quantum matter	Quantum Advantage on optimization & Machine Learning

Note: based on management's reasonable estimates with respect to product research and development.



Brand guidelines

The purpose of these guidelines is to present the identity of the Pasqal brand and to define all the rules that allow the brand to be conveyed in its communications. This document is a reference tool that will help you build the brand's image.

In all your communications, you must systematically refer to the rules defined in this document musn't modify the brand's assets (logos, colours, typography, etc.).

About Us

Pasqal is a leader in the industrialization of neutral-atom quantum computing, transforming Nobel Prize-winning research into real-world solutions for industry, science, and governments.

Since its founding in 2019, Pasqal has built high-performance quantum systems and cloud-ready software designed to address complex challenges in optimization, simulation, and artificial intelligence.

Pasqal, headquartered in France, employs over 275 people and serves over 25 clients, including CMA CGM, OVHcloud, Thales, IBM (Pasqal is part of the IBM Quantum Network), and Sumitomo. Backed by more than USD 300 million to date in total funding from international investors, Pasqal seeks to accelerate the adoption of scalable, high-performance quantum computing worldwide.



Logotype

The Pasqal logotype is the main element of the brand identity.

Built around a strong symbol, illustrating the quantum mechanics between atoms and lasers, it is associated with a refined typography, combining modernity and legibility.



Don’ts

1. Do not distort the logotype.
2. Do not remove any element from the logotype
3. Do not change the colour of the logotype.
4. Do not change the composition of the logotype
5. Do not apply any outline to the logotype.
6. Do not change the layout of the logotype.

Baseline

A specific version of the logotype incorporating the brand signature «Defining the quantum reality» has been created. This version can be used in place of the classic version to sign various brand media and respects the same rules as the logotype.



Brand Architecture

The Pasqal logotype serves as the core brand identity element across all corporate materials. Products may use standalone treatments that maintain consistent structure and typography, while all services and subsidiaries must incorporate the complete logotype to ensure cohesive brand representation and corporate identity integrity.

Services & subsidiaries

Pasqal Community Pasqal Cloud Pasqal Canada

Products

Qadence Pulser

Colors and Contrast

Rules of use have been defined to ensure optimal use of the brand's palette, the following is an example of optimal contrast between text and background color.

Primary colors

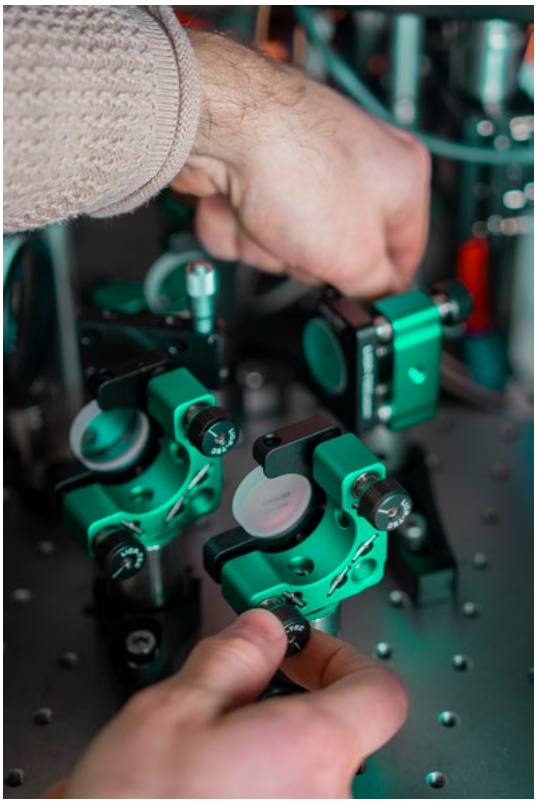
Dark Green			Soft Green			Light Green			Mint Green		
C80	R15	#OF1E23	C90	R23	#173035	C14	R255	#E1F6E9	C93	R0	#00C887
M45	G30	—	M61	G48	—	M0	G246	—	M0	G200	—
Y40	B35	PMS	Y54	B53	PMS	Y13	B233	PMS	Y66	B135	PMS
K90		5463 C	K63		2216 C	K0		6148 C	K0		2414 C

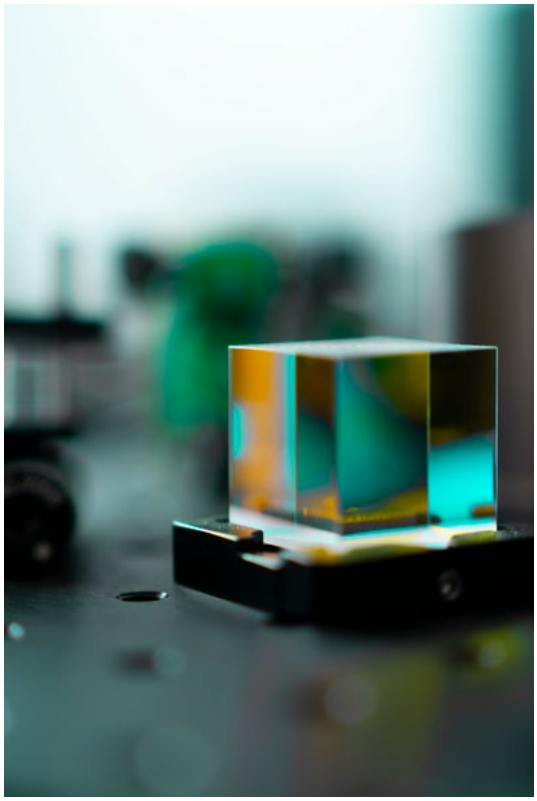
Pasqal Media Library

A selection of visual assets is made available to illustrate the company's infrastructure, its technology and the tools used. They are depicted realistically, in their context and in a luminous environment.

They can be shown on their own, or with a human in action. Nevertheless, we aim to highlight the technological and material aspects of the company through these shots.









Access our complete media library and downloadable brand assets at pasqal.com/media-kit

Pasqal

Join the quantum revolution with Pasqal

Get in touch: www.pasqal.com/contact-us

Stay up to date: www.pasqal.com/newsroom

www.pasqal.com