



Welcome to the second phase of the PQ-REACT project

Dear reader,

Over the past eighteen months, we've been working collaboratively to pave the way for a **smooth and secure transition to the post-quantum era**. Our efforts have already produced meaningful results, driving innovation and strengthening resilience.

But what milestones have we achieved so far, and how is the future shaped for the PQ-REACT project?

Dive into our latest stories, explore our progress, and stay connected as we shape the future of post-quantum security.

Our halfway journey



What has been achieved so far, and what challenges have we faced along the way?

From algorithms to pilots and from open calls to dissemination, our dedicated article highlights the key activities, initial results, and major milestones from the first eighteen months of the PQ-REACT project, while also outlining our goals and plans for the future.

[Unfold our stories](#)

Meet our 1st Open Call-DEVELOP beneficiaries



OPEN CALL



From a highly competitive pool, five organisations have been chosen for their innovative approaches to addressing PQ-REACT's specific challenges related to post-quantum cryptography (PQC) computational complexity and energy efficiency. Spanning across several EU countries, including **Greece, Spain, Austria, and Slovenia**, the winners of PQ-REACT Open Call #1 have already begun work on their projects.

[Explore the OC#1 Beneficiaries](#)

Meet and greet with the OC#1 beneficiaries! Learn about their quantum journey, project details and more



EIGHTBELLS
Independent Research & Consultancy

"Our motivation to participate in the PQ-REACT Open Call#1 stemmed from our commitment to staying at the forefront of cybersecurity innovation and addressing the challenges posed by emerging quantum technologies."

[Learn more](#)



MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

"The proposed project aims to study the effects that the different parameters defining a lattice may cause in the security of cryptographic schemes based on them."

[Learn more](#)



"Our project builds on our extensive experience in securing critical communications across space, defense, and unmanned systems sectors."

[Learn more](#)



"The chance to contribute to such a pivotal cryptographic migration is a once-in-a-lifetime opportunity, and we were eager to dedicate more time and effort to this critical work."

[Learn more](#)



MEMBER OF BASQUE RESEARCH
& TECHNOLOGY ALLIANCE

"The PQ-REACT Open Call presented an incredible opportunity to address one of the most pressing challenges in cybersecurity: preparing for the quantum era."

[Learn more](#)

The 2nd Open Call-IMPLEMENT has been launched and is waiting for your application!

Our second Open Call-IMPLEMENT is now open, inviting quantum innovators to develop and implement solutions to address the specific challenges of PQ-REACT in terms of PQC computational complexity and energy efficiency. A total **of €650,000 in** funding is available, whereas **€162,500 will be received from each winning proposal**.

What has changed?

This call this time is exclusively available for consortia of 2–3 partners, mandating the inclusion of at least one SME and one tech provider (Start-ups & SMEs, Universities and Research centers, NGOs, or Foundations).

Applicants can submit proposals aligned with one of four use cases:

- Pilot 1: **Smart Grid Meters**
- Pilot 2: **5G and 6G Architectures**
- Pilot 3: **Context Agility Manager (PQC Benchmarking)**
- Pilot 4: **Eclipse-Qrisp for PQC**

Eligibility check

Only entities legally established in any of the following countries are available for funding:

- The Member States (MS) of the European Union (EU), including their outermost regions.
- Horizon Europe-associated countries: according to the updated list published by the EC as of the call launch date.

Questions?

To support a smooth application process, we've scheduled two dedicated sessions offering an in-depth overview of Open Call #2.

Watch our InfoDays online to gain a clear understanding of all aspects of the open call, from expectations and further details to the evaluation process, and get fully prepared to submit your proposal today.

1st InfoDay & Pitching “Smart Grid Meters and Context Agility Manager (Use case 1 & 3)”

Watch Here

2nd InfoDay & Pitching “5G and 6G architectures and Eclipse-Qrisp for PQC (Use case 2 & 4)”

Watch Here

This is the last PQ-REACT Open Call!

[Learn more](#) & [Submit your application today](#)

Detailed guidelines, FAQs, and submission instructions are available [here](#)

**Submission Deadline: 27 May 2025 at 17:00
CEST (Brussels time)**

Stay Connected: Explore the upcoming PQ-REACT Events

PQ-REACT regularly hosts and participates in a range of events designed to inform, engage, and support the quantum innovation community, including webinars, networking events, and collaborative workshops.

Our summer will be quite busy, and starting early in June, two major events will take place. One is the **EEITE 2025** which will take place in Crete, Greece and the second one is the SPQR Cluster -PQC workshop which will take place in Madrid, Spain one day after the **ETSI/IQC Quantum Safe Cryptography Conference**. On July we have one more event, our second edition of the QSNS workshop.

Don't miss out on future opportunities to engage with the PQ-REACT community!

Stay informed and mark your calendars by visiting our newly launched [Events page](#).



CYPHER: Cybersecurity for Yielding Protection in Hyperconnected Ecosystems and Resilience session at EEITE 2025

PQ-REACT is supporting the 6th International Conference in Electronic Engineering & Information Technology (EEITE 2025), which will take place in Chania, Crete, Greece, from 4-6 June.

[Learn more](#)



Secure Post Quantum eRa (SPQR) Cluster – PQC Workshop

The SPQR cluster, together with the PC3 and the Madrid Quantum Communications Project, MadQuantum-CM, is organising a special workshop on June 6th in Madrid, Spain.

[Learn more](#)



QSNS 2025

The 2nd Workshop on Quantum-Secure Networks and Systems will take place on July 2-5, in Bologna, Italy and is again a joint initiative of the Qubip and PQ-REACT EU projects.

[Learn more](#)



PQ-REACT Publications & Open Access



Explore our latest **scientific publications**, which highlight key findings and innovations from the project's partners. Additionally, our **GitHub** repository offers open-source tools and resources developed by the consortium partners.

[PQ-REACT Publications](#)

[PQ-REACT Open Access Repository](#)

That concludes the first phase of our quantum journey as we have reached the first half of the project's implementation. Looking ahead, we anticipate a number of exciting milestones, including the project's completion by our first Open Call beneficiaries, the announcement of second Open Call results, upcoming events, and much more.

Stay tuned for more achievements and upcoming initiatives!



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement N° 101119547. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or European Union's Horizon Europe research and innovation programme. Neither the European Union nor the granting authority can be held responsible for them.

PQ-REACT

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