

Join the celebrations of PQ-REACT's first year!



PQ-REACT turns One!

Dear reader,

Time flies, and just like that, we concluded the first year of the PQ-REACT project. It seems like yesterday, when our kick-off meeting took place in Athens, and we set the pillars for our first activities.

September 2024: As we have reached the first anniversary of our Post Quantum project, we've made significant advances that set a solid foundation for the exciting future ahead.

First things first, we focused on analysing the **NIST Post-Quantum Cryptography Standardization** process, particularly in the rapidly evolving area of post-quantum digital signature schemes. Our experts have done an outstanding job mapping this complex field. We've also developed

benchmarking tools to evaluate PQC algorithms, emphasising performance and resilience against quantum and classical attacks. This work has contributed to the Eclipse Qrisp project, with exciting developments expected in the Quantum Programming domain.

Additionally, we've **defined our Open Call Pilots and launched the first Open Call** to attract innovative use cases for PQC applications. Efforts to increase participation continue, and we're excited to see creative solutions emerge. On the legal and regulatory front, important insights have been provided to **ensure our innovations align with evolving laws**, recognising policy's critical role in managing dynamic technologies like PQC. Our communication and dissemination activities intensified with frequent social media posts, insightful publications, events participation and more positioning PQ-REACT at the center of quantum enthusiasts' attention!

Together, these initiatives have positioned PQ-REACT for continued success in post-quantum cryptography.

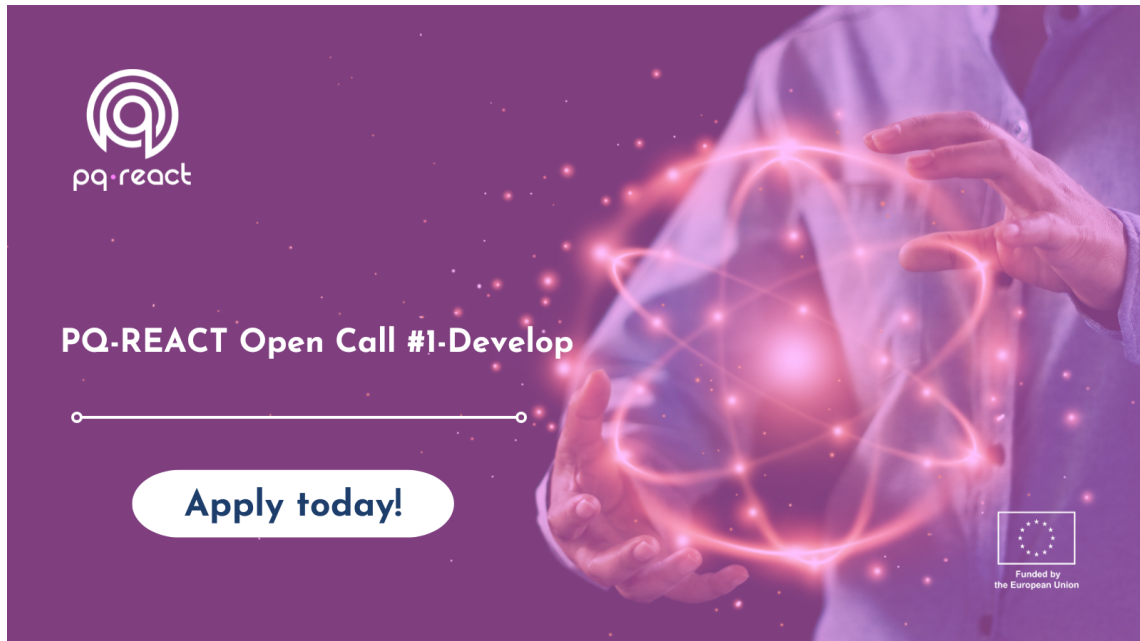
But what's next? Stay tuned and enjoy reading about our past and future quantum activities.

Breaking Ground: Key Milestones of PQ-REACT in Year 1

As we celebrate our first year as a project, we reflect on the milestones we achieved and our wonderful time as a consortium! Apart from the technical achievements and progress made through each WP, we are excited about the SPQR cluster establishment, the first open call and evaluators call, the events' participation, and more.

Let's explore each achievement together!

Our 1st Open Call-DEVELOP



In August, our first Open Call-DEVELOP was launched. We were excited to share the news and engage with interested stakeholders to submit their applications. Open Call #1 is designed to invite applicants who can Develop and provide innovative solutions to address the specific challenges of PQ-REACT in terms of PQC computational complexity and energy efficiency.

Explore PQ-REACT Open Call#1-
DEVELOP

PQ-REACT Open Call#1 InfoDays

However, we understand that a brief explanation of the application process can often be more helpful. To support this, we organized two InfoDays, during which

we provided a concise overview of the procedure and shared valuable insights on the four available use cases for applicants to choose from.

Watch our InfoDays on our YouTube channel.

1st InfoDay: Context Agility Manager and Eclipse-Qrisp for PQC use cases



2nd InfoDay: 5G and 6G architectures and Smart Energy Meters



PQ-REACT Open Call#1-DEVELOP

2nd InfoDay

5G and 6G architectures and Smart Energy Meters

Wednesday 04/09/2024 at 16:00h CEST, Brussels time



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Our Evaluators Call

In PQ-REACT, we aim to establish a pool of experts to support us in evaluating the submitted proposals for the PQ-REACT Open Call#1-DEVELOP! We sought independent evaluators with relevant expertise to assess the applications received for Open Call #1. The call is now closed, and we will soon share the results.

SPQR Cluster



On April 2024, PQ-REACT and [QUBIP](#) Horizon EU projects joined forces establishing the SPQR (Secure Post-Quantum eRa) cluster! Both projects share a common objective: to contribute to the European Union's transition to Post-Quantum Cryptography (PQC). Through their collaborative efforts, they will play a pivotal role in ensuring a secure and smooth transition to the PQC era.

[Explore the SPQR Cluster](#)

PQ-REACT Work Packages Adventures: Milestones and activities so far.

Explore the activities performed and preliminary results achieved in year 1 of the PQ-REACT project and learn more about what is coming next for each Work Package.





PQ-REACT publications



During the last twelve months of our project's implementation, the following scientific publications reflected our partner's efforts.

- [Resilience of Lattice-Based Cryptosystems to Quantum Attacks](#)
- [Performance Analysis of Post-Quantum Cryptography Algorithms for Digital Signature](#)

Don't forget to check our website publications page frequently since we enrich our library very often!

They said for us.



Our Open Call #1 attracted significant attention and interest. The European Commission featured our first Open Call on the CORDIS platform, providing all the relevant details and encouraging potential applicants to apply.

[CORDIS article](#)

[Smart Energy International article](#)

PQ-REACT News stand

Our News & Events page highlights updates and achievements of the PQ-REACT project. In this page you will find the project's participation in events, meetings, news and articles relevant to the project's aim and scope.

[Explore the PQ-REACT news!](#)

That wraps up a year of incredible progress with the PQ-REACT project on our quantum journey. Exciting developments lie ahead, including our General Assembly meeting in Crete this October. Stay tuned for more achievements and upcoming initiatives and follow us on social media!



PQ-REACT

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