



Participating in QuantERA

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WHO AM I?

2011 - PhD in Atomic Physics – worked on cold Rb atoms, spectroscopy and precision magnetometry, also in alkali vapors

2015 – started work on NV centers – worked at Technical University of Denmark (DTU, Copenhagen) on precision magnetometry for bio applications using nitrogen-vacancy centers in diamond;

since 2018 – working at the Jagiellonian University in Krakow (Poland) and running my own group now: NV centers and Rb Bose-Einstein condensate labs.

How I started with QuantERA?



first proposal submitted in 2019 call



consortium of 6 groups from: Greece, UK (x2), Poland, Slovenia, and Germany



common theme: precision magnetometry



unsuccessful but proved to be a good learning experience for next calls

How I started with QuantERA?



my 2nd proposal was in the 2021 call



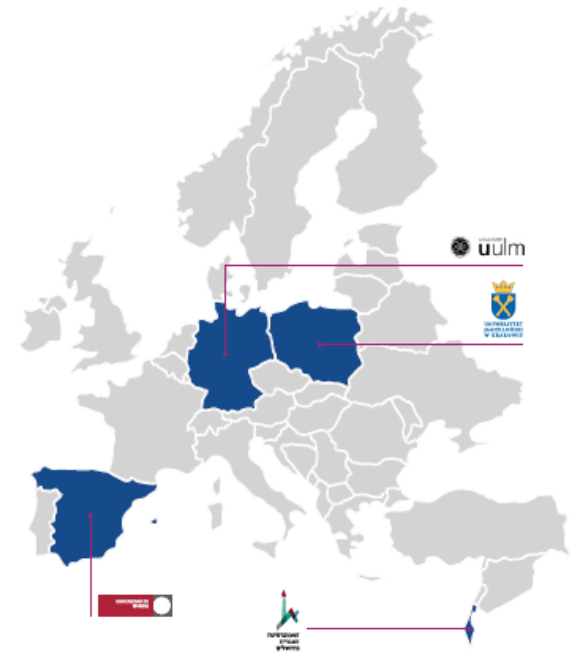
consortium of 4 groups from: Spain, Germany, Israel, and Poland



more concrete and specific proposal, clearly assigned roles



granted funding for the Microfluidic Quantum Diamond Sensor (Mf-QDS) project



How I started with QuantERA?



my 3rd proposal was submitted in the 2023 call



consortium of 3 (out of 4) groups from Mf-QDS:
Spain, Germany, and Poland



tackling a new problem - nanodiamonds



granted funding for the Advanced Quantum Sensing
with NanoDiamonds (AQuSeND) project

Applying for a QuantERA project



find the right partners and identify a specific subject which can be tackled by the gathered team



be aware of strong competition in some countries (e.g. Germany)



local rules for funding may significantly differ, including total budgets



single, joint proposal is submitted to ANR online system

Realization of a QuantERA project

-  consortium agreement document – easy when no company in the team
-  reporting: mid-term + final reports for the consortium +local-agency-dependent reports
-  challenge is to stay focussed on the joint research plan with all groups having their own, distinct interests
-  QuantERA meetings are great for networking

Final remarks



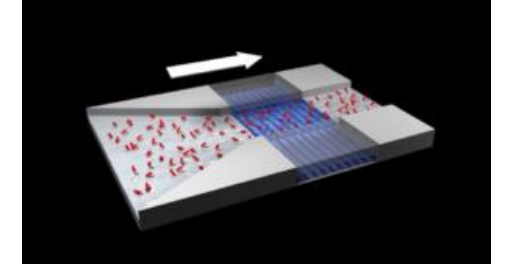
QuantERA offers interesting (and easy) collaborations in Europe



More about my projects:



<https://quantera.eu/mf-qds/>



<https://quantera.eu/aquSEND/>



AQuSeND
advanced quantum sensing
with nanodiamonds